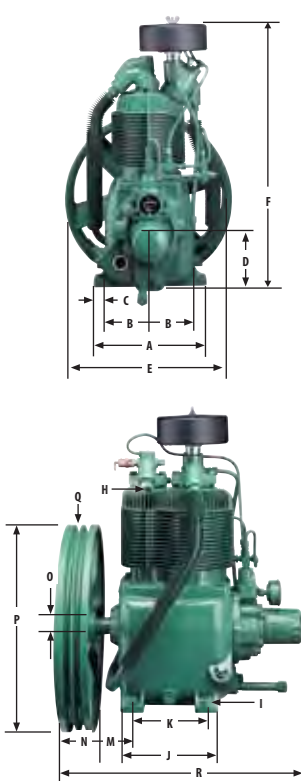


## BARE-PUMP DIMENSIONS

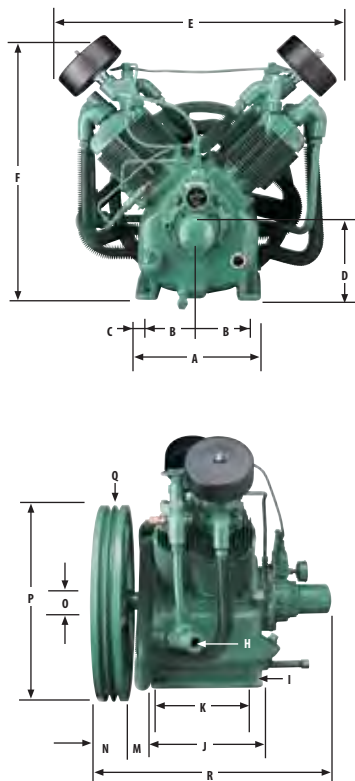
Item	R-10D, R-15B, PL-15 Inch	R-30D & PL-30 Inch	R-40A & PL-40 Inch	R-70A & PL-70 Inch
A Base – Width	10	11 $\frac{1}{8}$	12 $\frac{7}{8}$	12 $\frac{7}{8}$
B Boltdown – Width	4 $\frac{3}{8}$	4 $\frac{13}{16}$	5 $\frac{1}{16}$	5 $\frac{1}{16}$
C Boltdown to Edge	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
D Base to Crank CTR	5 $\frac{1}{2}$	7	7 $\frac{5}{16}$	7 $\frac{7}{8}$
E Overall Width	16 $\frac{7}{8}$	26	30	33 $\frac{1}{2}$
F Overall Height	23 $\frac{1}{4}$	23 $\frac{3}{16}$	32	33 $\frac{3}{16}$
H HP Exh. Opening Manifold	$\frac{3}{4}$ " Tubing	$\frac{3}{4}$ NPT	1" Tubing	1 $\frac{1}{4}$ NPT
I Boltdown Hole Diameter	1 $\frac{1}{32}$	1 $\frac{1}{32}$	$\frac{9}{16}$	$\frac{9}{16}$
J Base — Depth	7 $\frac{1}{2}$	9 $\frac{3}{4}$	12	13 $\frac{1}{4}$
K Boltdown — Depth	5 $\frac{3}{4}$	8 $\frac{1}{16}$	10	11 $\frac{1}{4}$
L Boltdown to Edge	$\frac{7}{8}$	2 $\frac{7}{32}$	1	1
M Bolt Hole to Wheel (Max.)	3	3 $\frac{1}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$
N Flywheel — Width	2 $\frac{1}{2}$	2 $2\frac{3}{32}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$
O Crank Diameter	1 $\frac{5}{16}$	1 $\frac{3}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$
P Flywheel Diameter	16 $\frac{1}{2}$	18 $\frac{7}{8}$	22	22 $\frac{3}{16}$
Q Flywheel Grooves	2VB*	2VB*	3VB*	3VB*
R Overall Depth	20	22 $\frac{3}{8}$	27 $\frac{1}{2}$	28 $3\frac{3}{4}$
Approximate Shipping Weight (lbs.)	125	220	440	570

\* VB: V Belt

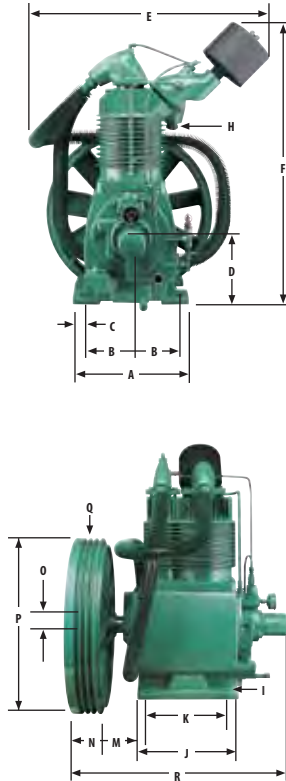
R-10D, R-15B, PL-15A



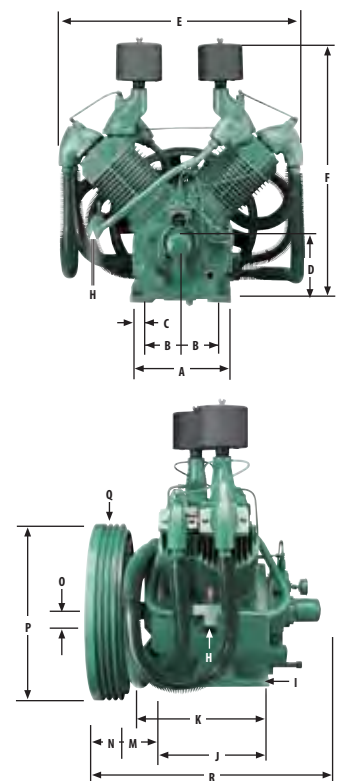
R-30D &amp; PL-30A



R-40A &amp; PL-40A



R-70A &amp; PL-70A



## SPECIFICATIONS

HORIZONTAL TANK MOUNTED UNITS — ELECTRIC DRIVEN								125 PSI Rating*			175 PSI Rating*			250 PSI Rating*		
Motor HP	Tank Cap Gal.	R-Series CASRSA	Pump Comp Model	PL-Series CBSPLA	Pump Comp Model	L x W x H Dimensions Inches	Approx. Ship Wt. lbs.	RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y
1½	30	HR1-3	R-10D	NA	NA	41½ x 20¼ x 44½	300	575	11.2	6.0	542	10.5	5.3	NA	NA	NA
1½	60	HR1-6	R-10D	NA	NA	51½ x 23¼ x 49	400	575	11.2	6.0	542	10.5	5.3	NA	NA	NA
1½	80	HR1-8	R-10D	NA	NA	66½ x 23¼ x 49	425	575	11.2	6.0	542	10.5	5.3	NA	NA	NA
2	30	HR2-3	R-10D	NA	NA	41½ x 20¼ x 44½	320	765	14.9	8.3	725	14.1	7.5	NA	NA	NA
2	60	HR2-6	R-10D	NA	NA	51½ x 23¼ x 49	425	765	14.9	8.3	725	14.1	7.5	NA	NA	NA
2	80	HR2-8	R-10D	NA	NA	66½ x 23¼ x 49	455	765	14.9	8.3	725	14.1	7.5	NA	NA	NA
3	60	HR3-6	R-15B	HPL3-6	PL-15A	51½ x 23¼ x 49	425	485	14.1	10.9	440	12.8	9.7	380	11.0	8.0
3	80	HR3-8	R-15B	HPL3-8	PL-15A	66½ x 23¼ x 49	485	485	14.1	10.9	440	12.8	9.7	380	11.0	8.0
3	120	HR3-12	R-15B	HPL3-12	PL-15A	70½ x 25 x 52¾	725	485	14.1	10.9	440	12.8	9.7	380	11.0	8.0
5	60	HR5-6	R-15B	HPL5-6	PL-15A	51½ x 23¼ x 49	445	805	23.5	19.1	734	21.4	17.3	640	18.6	13.6
5	80	HR5-8	R-15B	HPL5-8	PL-15A	66½ x 23¼ x 49	535	805	23.5	19.1	734	21.4	17.3	640	18.6	13.6
5	120	HR5-12	R-15B	HPL5-12	PL-15A	70½ x 25 x 52¾	765	805	23.5	19.1	734	21.4	17.3	640	18.6	13.6
7½	80	HR7F-8	R-15B	HPL7F-8	PL-15A	66½ x 23¼ x 49	570	990	28.7	23.9	990	28.7	23.1	870	25.5	18.2
7½	120	HR7F-12	R-15B	HPL7F-12	PL-15A	70½ x 23¼ x 52¾	765	990	28.7	23.9	990	28.7	23.1	870	25.5	18.2
7½	80	HR7-8	R-30D	HPL7-8	PL-30A	66½ x 23¼ x 52¾	665	670	39.6	30.0	575	33.5	25.8	520	30.2	21.3
7½	120	HR7-12	R-30D	HPL7-12	PL-30A	70½ x 25 x 53¼	860	670	39.6	30.0	575	33.5	25.8	520	30.2	21.3
10	80	HR10-8	R-30D	HPL10-8	PL-30A	66½ x 23¼ x 49¼	675	810	47.3	37.3	740	43.1	34.8	640	37.1	27.5
10	120	HR10-12	R-30D	HPL10-12	PL-30A	70½ x 25 x 53¼	890	810	47.3	37.3	740	43.1	34.8	640	37.1	27.5
10	250	HR10-25	R-30D	HPL10-25	PL-30A	87½ x 30 x 60½	1295	810	47.3	37.3	740	43.1	34.8	640	37.1	27.5
15	80	HR15F-8	R-30D	HPL15F-8	NA	66½ x 23¼ x 49¼	675	1045	60.9	50.2	1045	60.9	49.0	900	52.5	42.6
15	120	HR15F-12	R-30D	HPL15F-12	PL-30A	70½ x 25 x 53¼	840	1045	60.9	50.2	1045	60.9	49.0	900	52.5	42.6
15	250	HR15F-25	R-30D	HPL15F-25	PL-30A	88½ x 30 x 60½	1275	1045	60.9	50.2	1045	60.9	49.0	900	52.5	42.6
15	120	HRA15-12	R-40A	HPL15-12	PL-40A	72 x 27½ x 62	1110	890	71.1	59.0	770	61.5	53.7	700	55.9	45.8
15	250	HRA15-25	R-40A	HPL15-25	PL-40A	89 x 30¼ x 64	1495	890	71.1	59.0	770	61.5	53.7	700	55.9	45.8
20	120	HRA20-12	R-70A	HPL20-12	PL-70A	72 x 27½ x 64½	1325	770	109.0	91.9	655	93.0	76.7	545	77.4	64.1
20	250	HRA20-25	R-70A	HPL20-25	PL-70A	89 x 30¼ x 71½	1790	770	109.0	91.9	655	93.0	76.7	545	77.4	64.1
25	120	HRA25-12	R-70A	HPL25-12	PL-70A	72 x 27½ x 64½	1365	890	127.8	102.1	770	109.4	90.1	660	93.7	76.8
25	250	HRA25-25	R-70A	HPL25-25	PL-70A	89 x 30¼ x 71½	1735	890	127.8	102.1	770	109.4	90.1	660	93.7	76.8
30	120	HRA30-12	R-70A	HPL30-12	PL-70A	72 x 27½ x 64½	1404	890	127.8	102.1	890	127.8	101.0	770	109.4	90.0
30	250	HRA30-25	R-70A	HPL30-25	PL-70A	89 x 30¼ x 71½	1774	890	127.8	102.1	890	127.8	101.0	770	109.4	90.0

VERTICAL TANK MOUNTED UNITS — ELECTRIC DRIVEN								125 PSI Rating*			175 PSI Rating*			250 PSI Rating*		
Motor HP	Tank Cap Gal.	R-Series CASRSA	Pump Comp Model	PL-Series CBSPLA	Pump Comp Model	L x W x H Dimensions Inches	Approx. Ship Wt. lbs.	RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y
1½	60	VR1-6	R-10D	NA	NA	30½ x 24 x 76	400	575	11.2	6.0	542	10.5	5.3	NA	NA	NA
1½	80	VR1-8	R-10D	NA	NA	32½ x 24 x 75	425	575	11.2	6.0	542	10.5	5.3	NA	NA	NA
2	60	VR2-6	R-10D	NA	NA	30½ x 24 x 76	425	765	14.9	8.3	725	14.1	7.5	NA	NA	NA
2	80	VR2-8	R-10D	NA	NA	32½ x 24 x 75	455	765	14.9	8.3	725	14.1	7.5	NA	NA	NA
3	60	VR3-6	R-15B	VPL3-6	PL-15A	30½ x 24 x 76	425	485	14.1	10.9	440	12.8	9.7	380	11.0	8.0
3	80	VR3-8	R-15B	VPL3-8	PL-15A	32½ x 24 x 75	485	485	14.1	10.9	440	12.8	9.7	380	11.0	8.0
3	120	VR3-12	R-15B	VPL3-12	PL-15A	36 x 30 x 81	725	485	14.1	10.9	440	12.8	9.7	380	11.0	8.0
5	60	VR5-6	R-15B	VPL5-6	PL-15A	30½ x 24 x 76	445	805	23.5	19.1	734	21.4	17.3	640	18.6	13.6
5	80	VR5-8	R-15B	VPL5-8	PL-15A	32½ x 24 x 75	545	805	23.5	19.1	734	21.4	17.3	640	18.6	13.6
5	120	VR5-12	R-15B	VPL5-12	PL-15A	36 x 30 x 81	765	805	23.5	19.1	734	21.4	17.3	640	18.6	13.6
7½	80	VR7F-8	R-15B	VPL7F-8	PL-15A	32½ x 24 x 75	635	990	28.7	23.9	990	28.7	23.1	870	25.5	18.2
7½	120	VR7F-12	R-15B	VPL7F-12	PL-15A	36 x 30 x 81	765	990	28.7	23.9	990	28.7	23.1	870	25.5	18.2
7½	80	VR7-8	R-30D	VPL7-8	PL-30A	42½ x 30 x 66¾	665	670	39.6	30.0	575	33.5	25.8	520	30.2	21.3
7½	120	VR7-12	R-30D	VPL7-12	PL-30A	43½ x 30 x 81	800	670	39.6	30.0	575	33.5	25.8	520	30.2	21.3
10	80	VR10-8	R-30D	VPL10-8	PL-30A	42½ x 30 x 66¾	860	810	48.5	37.3	740	43.1	34.8	640	37.1	27.5
10	120	VR10-12	R-30D	VPL10-12	PL-30A	43½ x 30 x 81	890	810	48.5	37.3	740	43.1	34.8	640	37.1	27.5
15	120	VR15F-12	R-30D	NA	NA	43½ x 30 x 81	890	1045	63.5	50.2	1045	63.5	49.0	900	52.5	42.6

\*Pressure Lubricated units are capable of 250 PSIG operation; units tested in accordance with CAGI/PNEUROP Acceptance Test Code PN2CPTC2.

## SPECIFICATIONS

BASE MOUNTED UNITS															
Motor HP	R-Series CABRSA	Pump Comp Model	PL-Series CBBPLA	Pump Comp Model	L x W x H Dimensions inches	Approx. Ship Wt. lbs.	125 PSI Rating*			175 PSI Rating*			250 PSI Rating*		
							RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y
1½	BR-1	R-10D	NA	NA	34½ x 19¾ x 29½	205	575	11.2	6.0	542	10.5	5.3	NA	NA	NA
2	BR-2	R-10D	NA	NA	34½ x 19¾ x 29½	205	765	14.9	8.3	725	14.1	7.5	NA	NA	NA
3	BR-3	R-15B	BPL-3	PL-15A	34½ x 19¾ x 29½	230	485	14.1	10.9	440	12.8	9.7	380	11.0	8.0
5	BR-5	R-15B	BPL-5	PL-15A	34½ x 19¾ x 29½	280	805	23.5	19.1	734	21.4	17.3	640	18.6	13.6
7½	BR-7F	R-15B	BPL-7F	PL-15A	34½ x 19¾ x 29½	310	990	28.7	23.9	990	28.7	23.1	870	25.5	18.2
7½	BR-7	R-30D	BPL-7	PL-30A	41½ x 22¼ x 28¾	430	670	39.6	30.0	575	33.5	25.8	520	30.2	21.3
10	BR-10	R-30D	BPL-10	PL-30A	41½ x 22¼ x 28¾	540	810	47.3	37.3	740	43.1	34.8	640	37.1	27.5
15	BR-15F	R-30D	BPL-15F	PL-30A	49½ x 26½ x 28¾	550	1045	60.9	50.2	1045	60.9	49.0	900	52.5	42.6
15	BRA-15	R-40A	BPL-15	PL-40A	49½ x 27½ x 38	730	890	71.1	59.0	770	61.5	53.7	700	55.9	45.8
20	BRA-20	R-70A	BPL-20	PL-70A	54½ x 28½ x 39½	1000	770	109.0	91.9	655	93.0	76.7	545	77.4	64.1
25	BRA-25	R-70A	BPL-25	PL-70A	54½ x 28½ x 39½	1020	890	127.8	102.1	770	109.4	90.1	660	93.7	76.8
30	BRA-30	R-70A	BPL-30	PL-70A	54½ x 28½ x 39½	1059	890	127.8	102.1	890	127.0	101.1	770	109.4	90.0

TANK MOUNTED DUPLEX UNITS																	
Motor HP	Tank Cap Gal.	R-Series CADRSA	Pump Comp Model	PL-Series CBDPLA	Pump Comp Model	L x W x H Dimensions Inches	Approx. Ship Wt. lbs.	125 PSI Rating*			175 PSI Rating*			250 PSI Rating*			
								RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y	
2 (2)	80	HR2D-8	R-10D	NA	NA	66¾ x 28 x 51¾	715	765	29.8	16.6	725	28.2	15.0	NA	NA	NA	
2 (2)	120	HR2D-12	R-10D	NA	NA	70½ x 28 x 55¼	940	765	29.8	16.6	725	28.2	15.0	NA	NA	NA	
3 (2)	80	HR3D-8	R-15B	HPL3D-8	PL-15A	66¾ x 28 x 51¾	725	485	28.2	21.8	440	25.6	19.4	380	22.0	16.0	
3 (2)	120	HR3D-12	R-15B	HPL3D-12	PL-15A	70½ x 28 x 55¼	950	485	28.2	21.8	440	25.6	19.4	380	22.0	16.0	
5 (2)	80	HR5D-8	R-15B	HPL5D-8	PL-15A	66¾ x 28 x 51¾	755	805	47.0	38.2	734	42.8	34.6	640	37.2	27.2	
5 (2)	120	HR5D-12	R-15B	HPL5D-12	PL-15A	70½ x 28 x 55¼	980	805	47.0	38.2	734	42.8	34.6	640	37.2	27.2	
7½ (2)	120	HR7DF-12	R-15B	HPL7DF-12	PL-15A	70½ x 28 x 55¼	1150	990	57.4	47.8	990	57.4	46.2	870	51.0	36.4	
7½ (2)	250	HR7DF-25	R-15B	HPL7DF-25	PL-15A	87½ x 32¾ x 50¼	1485	990	57.4	47.8	990	57.4	46.2	870	51.0	36.4	
7½ (2)	120	HR7D-12	R-30D	HPL7D-12	PL-30A	86½ x 28½ x 56½	1305	670	79.2	60.0	575	67.0	51.6	520	60.4	42.6	
7½ (2)	250	HR7D-25	R-30D	HPL7D-25	PL-30A	87½ x 32¾ x 61¾	1675	670	79.2	60.0	575	67.0	51.6	520	60.4	42.6	
10 (2)	250	HR10D-25	R-30D	HPL10D-25	PL-30A	87½ x 29 x 62	1725	810	94.6	74.6	740	86.2	69.6	640	74.2	55.0	
10 (2)	120	HR10D-12	R-30D	HPL10D-12	PL-30A	86½ x 29 x 57	1725	810	94.6	74.6	740	86.2	69.6	640	74.2	55.0	
15 (2)	120	HR15DF-12	R-30D	HPL15DF-12	PL-30A	91¾ x 26½ x 48¾	1860	1045	121.8	100.4	1045	127.0	98.0	900	105.0	85.2	
15 (2)	250	HR15DF-25	R-30D	HPL15DF-25	PL-30A	86½ x 29 x 57	1860	1045	121.8	100.4	1045	127.0	98.0	900	105.0	85.2	
15 (2)	250	HRA15D-25	R-40A	HPL15D-25	PL-40A	89 x 54¾ x 73½	2460	890	142.2	118.0	770	123.0	107.4	700	111.8	91.6	
20 (2)	250	HRA20D-25	R-70A	HPL20D-25	PL-70A	89 x 60½ x 75¼	2845	770	218.0	183.8	655	186.0	153.4	545	154.8	128.2	
25 (2)	250	HRA25D-25	R-70A	HPL25D-25	PL-70A	89 x 60½ x 75¼	2940	890	255.6	204.2	770	218.8	180.2	660	187.4	153.6	
30 (2)	250	HRA30D-25	R-70A	HPL30D-25	PL-70A	89 x 60½ x 75¼	3018	890	255.6	204.2	890	255.6	202.0	770	218.8	180.0	

\*Pressure Lubricated units are capable of 250 PSIG operation; Units tested in accordance with CAGI/PNEUROP Acceptance Test Code PN2CPTC2.

GAS						NEW CAERSB Model Dimensions			Approx. Weight lbs.	175 PSI Rating*			250 PSI Rating*		
Motor HP	Tank Cap Gal.	R-Series CAERSB	Pump Model	PL-Series CBEPLB	Pump Model	L	W	H		RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y
8	(2) 4	HGR3-LP	R15B	NA	NA	38	22.8	45	345	600	17.5	14.8	NA	NA	NA
8	30	HGR3-3	R15B	HGPL3-3	PL15A	38	22.8	45	345	600	17.5	14.8	NA	NA	NA
13	NA	BGR7-H	R15B	BGPL7-H	PL15A	41.2	20.5	29.3	304	1025	29.9	23.2	950	27.7	19.8
13	(2) 4	HGR7-LPH	R15B	HGPL7-LPH	PL15A	41.3	22.3	37.6	404	1025	29.9	23.2	950	27.7	19.8
13	30	HGR7-3H	R15B	HGPL7-3H	PL15A	41.6	20.5	45.5	434	1025	29.9	23.2	950	27.7	19.8
13	60	HGR7-6H	R15B	HGPL7-6H	PL15A	52.5	21.3	49.1	500	1025	29.9	23.2	950	27.7	19.8
13	80	HGR7-8H	R15B	HGPL7-8H	PL15A	67.5	21.3	49.1	539	1025	29.9	23.2	950	27.7	19.8
14	NA	BGR7K	R15B	BGPL7K	PL15A	41.2	20.5	29.3	304	1025	29.9	23.2	950	27.7	19.8
14	(2) 4	HGR7-LPK	R15B	HGPL7-LPK	PL15A	41.3	22.3	37.6	404	1025	29.9	23.2	950	27.7	19.8
14	30	HGR7-3K	R15B	HGPL7-3K	PL15A	41.6	20.5	45.5	434	1025	29.9	23.2	950	27.7	19.8
14	60	HGR7-6K	R15B	HGPL7-6K	PL15A	52.5	21.3	49.1	500	1025	29.9	23.2	950	27.7	19.8
14	80	HGR7-8K	R15B	HGPL7-8K	PL15A	67.5	21.3	49.1	539	1025	29.9	23.2	950	27.7	19.8
20	NA	BGR10K	R30D	BGPL10K	PL30A	34	23	29	715	765	44.6	36.2	680	39.6	31.2
20	80	HGR10-8K	R30D	HGPL10-8K	PL30A	66.5	21	49.8	715	765	44.6	36.2	680	39.6	31.2
23	5	BGR12K	R30D	BGPL12K	PL30A	46	28	35.8	645	940	55	44.2	810	47.2	38.4

H - Honda, B - Briggs and Stratton, K - Kohler.

NOTE: Only pressure lubricated units are capable of 250 PSIG operation. Units tested in accordance with CAGI/PNEUROP Acceptance Test Code PN2CPTC3.

Dimensions are for R-Series compressors. Add 1" to the width for PL units.

DIESEL						NEW CAERSB Model Dimensions			Approx. Weight lbs.	175 PSI Rating*			250 PSI Rating*		
Motor HP	Tank Cap Gal.	R-Series CAERSB	Pump Model	PL-Series CBEPLB	Pump Model	L	W	H		RPM	CFM Displ.	CFM Del'y	RPM	CFM Displ.	CFM Del'y
10	NA	BDR5K	R15B	BDPL5K	PL15A	41.2	20.6	29.3	518	870	25.3	20.1	650	18.9	13.6
10	30	HDR5-3K	R15B	HDPL5-3K	PL15A	41.6	20.5	45.5	525	870	25.3	20.1	650	18.9	13.6
10	80	HDR5-8K	R15B	HDPL5-8K	PL15A	67.5	21.3	49.1	630	870	25.3	20.1	650	18.9	13.6
10	NA	BDR5Y	R15B	BDPL5Y	PL15A	41.2	20.6	29.3	518	940	27.4	21.7	810	23.6	18.7
10	30	HDR5-3Y	R15B	HDPL5-3Y	PL15A	42.7	20.5	45.5	525	940	27.4	21.7	810	23.6	18.7
10	80	HDR5-8Y	R15B	HDPL5-8Y	PL15A	67.5	21.3	49.1	630	940	27.4	21.7	810	23.6	18.7
25	(2) 4	BDRA15	R40A	BDPL15	PL40A	52	29	42	813	910	72.8	59	800	64	51.5

K - Kohler, Y-Yanmar.

NOTE: Only pressure lubricated units are capable of 250 PSIG operation. Units tested in accordance with CAGI/PNEUROP Acceptance Test Code PN2CPTC3.

Dimensions are for R-Series compressors. Add 1" to the width for PL units.

BARE PUMPS														
Motor HP	R-Series CAPRSA	PL-Series CBPPLA	Displ./Rev Cubic Feet	125 PSI Rating		175 PSI Rating		250 PSI Rating		Bore Inches Dia.	Stroke Inches	Number Cylinders	Oil Capacity Quarts	Approx. Ship Weight lbs.
				RPM	CFM Del'y	RPM	CFM Del'y	RPM	CFM Del'y					
1½	R-10D	NA	.01942	575	6.0	542	5.3	NA	NA	4% & 2½	2	2	2	125
2	R-10D	NA	.01942	765	8.3	725	7.5	NA	NA	4% & 2½	2	2	2	125
5	RP15B	NA	.02916	805	19.1	734	17.3	NA	NA	4% & 2½	3	2	2	125
3	R-15B	PL-15A	.02916	485	10.9	440	9.7	380	8.0	4% & 2½	3	2	2	125
5	R-15B	PL-15A	.02916	805	19.1	734	17.3	640	13.6	4% & 2½	3	2	2	125
7½	R-15B	PL-15A	.02916	990	23.9	990	23.1	870	18.2	4% & 2½	3	2	2	125
7½	R-30D	PL-30A	.05828	670	30.0	575	25.8	520	21.3	4% & 2½	3	4	4	220
10	R-30D	PL-30A	.05828	810	37.3	740	34.8	640	27.5	4% & 2½	3	4	4	220
15	R-30D	PL-30A	.05828	1045	50.2	1045	49.0	900	42.6	4% & 2½	3	4	4	220
15	R-40A	PL-40A	.0800	890	59.0	770	53.7	700	45.8	6¼ & 3¼	4½	2	4	440
20	R-70A	PL-70A	.1420	770	91.9	655	76.7	545	64.1	6¼ & 3¼	4	4	6½	570
25	R-70A	PL-70A	.1420	890	102.1	770	90.1	660	76.8	6¼ & 3¼	4	4	6½	570
30	R-70A	PL-70A	.1420	890	102.1	890	101.0	770	90.0	6¼ & 3¼	4	4	6½	570

# The Champion Assembled Unit Warranties

## Compressor Pump Warranty

Each new Champion Assembled Unit has a five (5) year warranty on the compressor pump only, against defects in materials or workmanship under normal use and service, from the date of installation or sixty-six (66) months from the date of shipment by Champion or a Champion distributor, whichever may occur first.

The five-year extended warranty covers parts and labor and is prorated over the five years as follows:

Year One — 100% coverage

Year Two — 90% coverage

Year Three — 80% coverage

Year Four — 70% coverage

Year Five — 60% coverage

Head valves are warranted for Year One only. Warranty on components and/or accessories furnished to Champion by third parties, such as electric motors, gasoline engines and controls, are warranted only to the extent of the original manufacturer's warranty to Champion. Electric motors must be equipped with thermal overload protection to have warranty consideration.

The extended five-year warranty will apply to ASME air receivers if they are installed on rubber vibro isolator pads or approved equivalent.

## Limited Warranty

Warranty shall not apply to any equipment which has been subjected to misuse, neglect or accident, nor shall it apply to any equipment that has been repaired or altered by any person(s) not authorized by Champion. Failure caused by lack of proper maintenance is not covered by warranty.

In no event shall Champion be liable for consequential damages or contingent liabilities arising out of failure of any compressor or part to operate properly. When a compressor pump or component is changed or replaced during the warranty period, the new/replaced item(s) is warranted for only the remainder of the original warranty period. Complete warranty details are included in compressor operating manual.

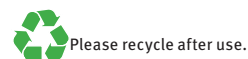
## Package Warranty

Champion warrants each new air compressor package to be free from defects in material and workmanship under normal use and service for a period of one year (12 months) from the date of installation or 15 months from the date of shipment by Champion.



[www.ChampionPneumatic.com](http://www.ChampionPneumatic.com)

1301 North Euclid Avenue  
Princeton, Illinois 61356 USA  
[www.ChampionPneumatic.com/ContactUs.aspx](http://www.ChampionPneumatic.com/ContactUs.aspx)  
866-276-4330



44,000 / 64,000 / 80,000 lbs. HEAVY-DUTY CAPACITIES

OPTIONAL LIFT ACCESSORIES

Runway extensions add the versatility of a 24" wheelbase range adjustment.\*\*



FIVE AVAILABLE RUNWAY LENGTHS

Model Shown: VREX64-48X / 64,000 lbs. capacity drive-on lift / surface mounted

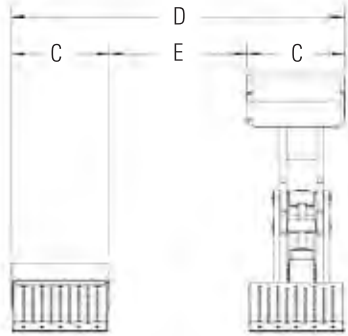
SPECIFICATIONS			
	V-REX44	V-REX64	V-REX80
Capacity*	44,000 lbs.	64,000 lbs.	80,000 lbs.
Maximum Rise Bottom of base to runway top	77 3/4"		
Collapsed Height	16 - 1/4"		
Rise Time	90 seconds		
A. Runway Lengths**	28', 32', 36"*, 48'		
B. Overall Lengths With standard 10' approach ramps	38', 42', 46', 58'		
C. Width of Runway	32"		
D. Overall Width	109"		
E. Distance Between Runways	45"		
Motor	20 hp		
Electrical Standard	3ph, 208-230/460/575		
Number of legs	4		
Minimum Floor Thickness	6"		

\* 44K, 64K and 80K capacities for all runway lengths. with the exception of the 36' runway length. It is available in 44K and 64K capacities only.  
\*\* 30' runway available with 2' extension on 28' runway

LIFT COLORS  
Runways and Ramps  
RAL5005 RAL3002 RAL9005

Legs and Console  
RAL7040

Ten locking positions at convenient and ergonomic working heights.



Superior by Design

Rotary maintains the industry's largest in-house mechanical, electrical and controls engineering staff using state of the art design, modeling and analysis software to ensure you get a well designed, reliable product.

Increase bay productivity with these drive-on lift accessories

Rolling Bridge Jacks allow the front, rear, or all wheels to be lifted off the runways for brake, tire, alignment and suspension work. Jacks are supported between the runways, not on the top.



Available in 22,000, 32,000 and 36,000 lbs. capacities

Rolling Bridge Jack Retractable Wheel Kit



Runway wheel kit legs retract for easy rolling jack removal



LED Runway Lighting Kit

Attach the light wands to runways for effective, efficient lighting where you need it.

- 120V AC input voltage • 60hz
- Lighting unit includes 60W power supply unit, 8mm cable and suspensions



Pendant Controls

The pendant allows for remote operation away from the lift console



MW-500 Tire Lift

reduces risk of technician injury with this 500 lbs. capacity tire lift. Air operated (100 psi) with no batteries. Includes pressure regulator to prevent overloading.

Wash Bay Kits can be installed into wash bays for easy vehicle cleaning with a certified remote stainless steel control panel.



ADDITIONAL OPTIONS:

- Internal Air Kit connections for Rolling Jacks
- 12' Ramp Kits
- Bolt on Wheel Curbs
- Electronic Height Limiter
- Heavy Duty Turntables for Alignment Service
- Tapeswitches for Inside and Outside of Runways
- Audible Descent Alarm Kit



Rotary Lift  
2700 Lanier Drive  
Madison, IN 47250, USA



North / South America Contact Information

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Latin America / Caribbean: 1.812.273.1622  
Brazil: +55.11.4534.1995

Assistance for Government Purchasing

Government Sales: 800.445.5438 X5655

For additional world wide contact information and a complete guide to our product offering, visit us on the web at [rotarylif.com](http://rotarylif.com).



Contract No. 061015-RRL



Lit# Rotary V-REX HD Lift Brochure.2016.04

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V-REX Vertical Rise Drive-On Lifts

HEAVY DUTY PRODUCTIVITY FOR YOUR MAINTENANCE FACILITY

44,000, 64,000 and 80,000 lbs. CAPACITIES

**NEW** V-REX vertical rise lift services the largest vehicles in a new space-saving design.

Powerful V-REX platform lifts offer superior and solid solutions for all of your mechanical and service repairs.



Model Shown:  
VREX80-32X  
80,000 lbs. capacity  
drive-on surface  
mounted lift with 10'  
approach ramps and  
optional rolling jacks



SAVE BAY SPACE AND MONEY

Designed for facilities with limited bay space, the patent-pending V-REX lift system provides versatile heavy duty vertical lifting.



Proudly built in  
Madison, Indiana, USA



ENVIRONMENTALLY-FRIENDLY



# V-REX Vertical Rise Drive-On Lifts

ROTARY LIFT **HEAVY DUTY SOLUTIONS** 44,000 / 64,000 / 80,000 lbs. CAPACITIES

22

**The new V-REX™ services your largest vehicles while setting a new strength and reliability standard in vertical rise lifts.**

## **NEW** Innovative Vertical Rise Design INDUSTRY'S LOWEST DEFLECTION RATES

Four bar engineered rotational linkage transfers lower forces to the foundation, optimizing lift efficiency and decreasing installation costs. This positive force leg design has less maintenance than comparable designs and the superior structural steel tubing and fixed plate runway design has minimized the deflection seen in similar vertical rise lifts. Rotary's innovative leg design incorporates heavy-duty bearings to ensure a long lift life.

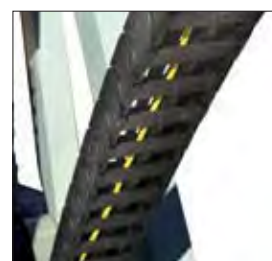
## **EXCLUSIVE LEG DESIGN** Rotational Hinged Positive Force Links LIFTING THE LARGEST VEHICLES WITH EASE

The V-REX's leg design features rotational hinge links with composite and UHMW bearings. They rotate and pivot rather than slide to increase efficiency and reduce wear. The 2" solid steel leg construction performs better than plate/ tube combinations which can flex and create stress points.

## **NEW** Patented Pending Direct Cylinder Stroke Measuring System

Incorporated within the cylinder, this controlled equalization technology directly measures cylinder stroke keeping the platforms level during lift operation. Keeping sensors within the cylinder prevents damage and expensive recalibration visits.

*Each lifting leg assembly features a robust 7" lifting cylinder system that "breathes" at the control panel improving cycle life and reducing downtime seen in other designs. These maximum force, short stroke hydraulic cylinders utilize a leg design that lifts vehicles with little movement. Cylinders are protected by our proven negative rake high strength steel locking system and scissor legs*



Communication cables are protected in an industrial energy chain.

## Control Unit

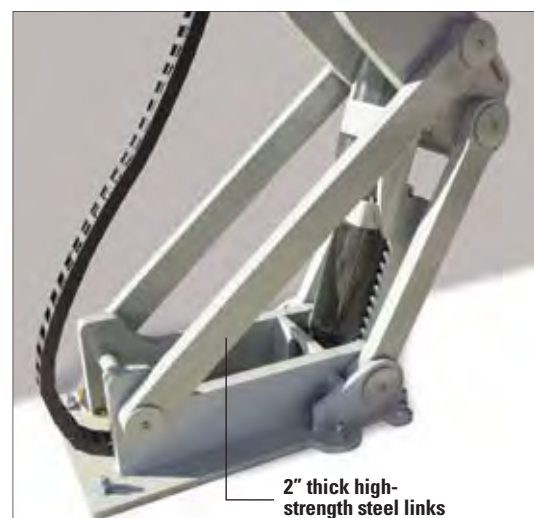
Built with robust, simple buttons and switches for long life, the lift can be programmed with multiple height presets.

The microprocessor-controlled unit monitors all mechanical and electrical synchronization systems at over 125 times per second.



## Superior Mechanical Locks

Rotary's proven negative rake mechanical locks on each lifting mechanism are position monitored for increased reliability and operation. They are made of high strength, wear resistant steel with exclusive negative rake radius teeth with the ten position locks.



2" thick high-strength steel links



The V-REX lift contains limited sliding components or wear items to inspect or maintain

2" and 3" pins provide increased surface area to reduce loading on the pivoting members.



## PRODUCTIVITY and PERFORMANCE FEATURES

- 3 heavy duty lifting capacities with 5 runway lengths
- Ten locking positions at convenient and ergonomic working heights
- 3 installation configurations: Surface / Recessed Pit / Flush
- Platforms are extra wide for easier drive on and off
- Lift is removable and re-locatable with only 16 anchors
- Manual lowering in the case of a power outage
- Durable zinc primer and epoxy lift paint for long life in any environment
- **ALL** third-party Gold Certified



Model Shown: VRX44-28X / 44,000 lbs. capacity drive-on lift  
Surface mounted with 10' approach ramps and optional rolling jacks

Platform Front  
Wheel Stops

Open Front and Rear Design  
creates working clearance through  
the entire middle of lift.



Model Shown: VRX80-48X  
80,000 lbs. capacity drive-on lift  
Surface mounted with 10' approach ramps and optional rolling jacks

## Environmentally Friendly

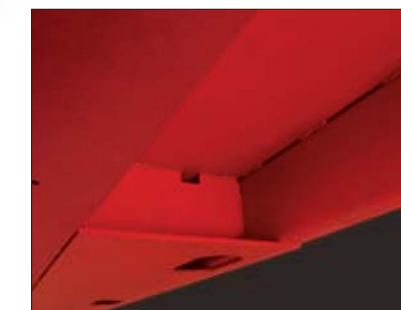
All VR lifts are bio fluid compatible and 99% recyclable, protecting the environment.



## 77" Vertical Rise

Technicians now have the height to get repair work done on any heavy-duty machinery.

**Independant Runways** are specially designed to minimize deflection under the heaviest loads



**Large Torque Box Runway Design** with engineered tubular steel decreases deflection seen regularly in competitor's lifts.



**Wide Platform Top Plates** create a greater drive on area with a non-skid platform surface for traction.

**Rear Automatic Wheel Chocks** engage when the lift is raised and release when lowered

**10' Extended, Low-Profile Ramps** are standard on surface models

Model Shown: VRX44-48X  
44,000 lbs. capacity drive-on lift  
Surface mounted with 10' approach ramps and optional rolling jacks





**ROTARY**  
WHEEL SERVICE EQUIPMENT



WHEEL BALANCERS



# 180 PRO3D AUTO



SCAN CODE FOR  
PRODUCT VIDEO

EQUIPPED WITH AUTOMATIC WHEEL DIMENSION  
SONAR AND LASER RIM PROFILE SCANNER

## 3D TECHNOLOGY

ELECTRONIC WHEEL BALANCERS  
WITH MICROPROCESSOR

**AUTOMATIC BALANCING MODE**

*Perfect balancing with maximum  
speed and precision!*

### AUTOMODE

After lowering the hood the sonar automatically  
detects wheel dimension.

- The laser scans rim profile
- Balancing program is auto selected
- Adhesive weights are positioned  
and memorized
- Wheel spoke quantities are checked  
and position for proper location of  
hidden weights is located
- Easily switch readout from ounces  
to grams

### LASER WHEEL SCANNER



The laser pointer  
indicates the  
exact positioning  
for weights

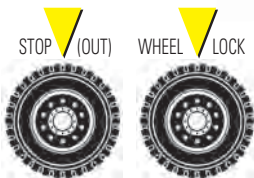


R180

### AUTOMATIC LOCK IN POSITION



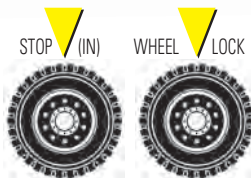
Automatic start  
when the cover  
is lowered.



Automatic stop in the external  
unbalanced position.



Automatic rotation  
to the internal side.



Automatic stop in the  
internal unbalanced position.

#### TECHNICAL DATA

#### R180

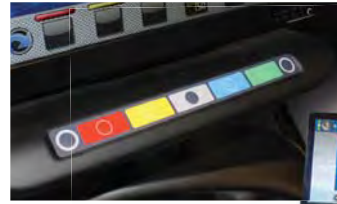
Rim diameter	10" - 37" automatic
Rim width	1.5" - 9.2"
Max. tire diameter	44"
Maximum assembly weight	176 lbs. (80kg)
Read out accuracy	1 g
Cycle time	6 seconds
Rotation speed (rpm)	<100
Power supply	110v / 60 Hz / 1Ø

## GUIDED BALANCING PROCEDURE



The functions related to each key vary according to use and are identified by icons on the display for easier understanding.

## MONITOR KEYPAD



Linked directly to a standard monitor, this durable touchpad allows for a "gloved" input with the convenience of a touch screen monitor.

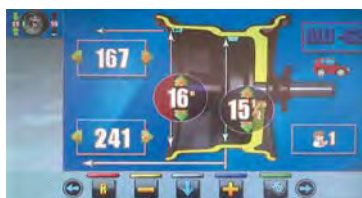


## SPOKE



Hidden weight program

## ALU-S



3 automatic ALU S programs

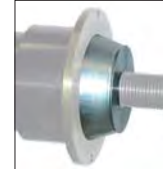
## SPLIT PROGRAM



## STANDARD ACCESSORIES



**GAR 111** 1.75" - 4"  
(44-104 mm)



**GAR 112**  
3.75" - 5"  
(95-124mm)  
Light truck cone

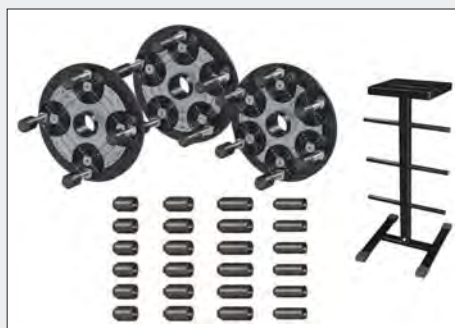


**GAR 101**

## OPTIONAL BALANCER ACCESORIES



**GAR 113**  
4.65" - 6.8" (118-174mm)  
Vans and light trucks



**HW 210400002**  
Series IV Quick Plate Kit 40mm



**HW 150400110** Nine-piece Pro Collet Kit 40mm

- Clad Wheel Problem Solver
- Static Imbalance Solution
- Lower Taper For Better Mounting Surface
- No Wheel Hub Interference
- Includes collets #1 thru #9

Complete Range from 52.5mm -122mm or 2.07" - 4.76"



# 155 PRO3D



SCAN CODE FOR  
PRODUCT VIDEO

## ELECTRONIC WHEEL BALANCER WITH MICROPROCESSOR

### ALL THE FEATURES FOR THE MOST DEMANDING PROFESSIONALS!

Easy operation - interactive inputs guide tech during all the phases of the balancing process.



Automatic storage of  
distance and diameter.

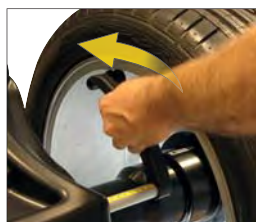


Automatic programs.

#### INTERNAL DATA ARM



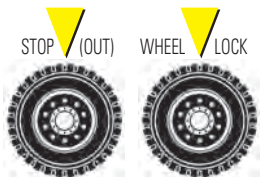
Quick selection and rim run-out measurement with  
internal data gauge.



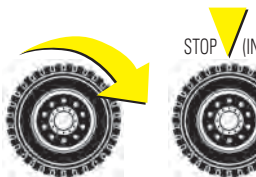
#### AUTOMATIC LOCK IN POSITION

##### FAST PROCESS

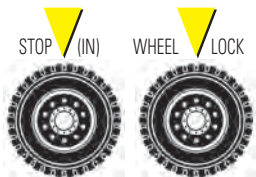
Automatic start when the cover is lowered  
and automatic stop of the wheel in the  
external unbalanced position.



Automatic stop in the external  
unbalanced position.



Rotate to the  
internal side.



Stop in the internal  
unbalanced position.

TECHNICAL DATA	R155
Rim diameter	10" - 30
Rim width	1.5" - 22"
Max. tire diameter	44"
Maximum assembly weight	154 lbs. (70kg)
Read out accuracy	1 g
Cycle time	6 seconds
Rotation speed (rpm)	<100
Power supply	110v / 60 Hz / 1Ø



#### STANDARD

**GAR 111**  
1.73" - 4.4"  
(44-112 mm)



**GAR 112**  
3.75" - 5" (95-124mm)  
Light truck cone

COLOR  
MONITOR with  
LINKED KEYBOARD

OPTIONAL ACCESORIES  
SEE PAGE 3

#### STANDARD FEATURES



Quick lock



Width gauge



Laser blade

Double LED

R155



# 138 SHOP2D

## LOW ROTATION SPEED BALANCER

Computerized wheel balancer at a great value.

Smaller foot print balancer with all the features designed for the most demanding technicians.

### AUTO STOP ON TOP



**AUTOMATIC START**  
when cover is lowered.



**AUTOMATIC PROGRAM**  
Automatic measurement of distance and diameter thru ALU programs.



**HIDDEN WEIGHT** program



**CALIPER** for automatic distance and diameter measurement



**GAR 111** 1.73\" - 4.4\"  
(44-112 mm)

### STANDARD ACCESSORIES

**GAR 101**



**GAR 112**  
3.75\" - 5\" (95-124 mm)  
Light truck cone

**R138**

OPTIONAL ACCESSORIES  
SEE PAGE 3



**HEAVY DUTY  
SHAFT**  
40mm

**LARGE  
OFFSET**  
10.5\"



**LARGE DIGITAL DISPLAY**

TECHNICAL DATA	R138
Rim diameter	10\" - 26
Rim width	1.5\" - 22\"
Max. tire diameter	35.4\"
Maximum assembly weight	143 lbs. (65kg)
Read out accuracy	1 g
Cycle time	6 seconds
Rotation speed (rpm)	<100
Power supply	110v / 50 / 1ph



# 122 HANDSPIN

## HAND SPIN BALANCER WITH PERFORMANCE FEATURES OF EXPENSIVE MACHINES

### SMALL FOOT PRINT, LOW ROTATION SPEED BALANCER

Single launch measurement at low rotation speed, using a hand crank or gently spinning the wheel by hand. Equipped with pedal brake to stop rotation and to position the weights.



**Backlit 5\" x 1.5\" LCD display**

### INTERACTIVE DISPLAY

Multifunction and interactive keys assists technician



**R122**



**GAR 101**



**GAR 111**  
1.73\" - 4.4\"  
(44-112 mm)



**GAR 112**  
3.75\" - 5\" (95-124 mm)  
Light truck cone

OPTIONAL ACCESSORIES  
SEE PAGE 3

Precision balancing of car, motorcycle and light commercial vehicle wheels.

### STANDARD

TECHNICAL DATA	R122
Rim diameter	10\" - 26
Rim width	1.5\" - 22\"
Maximum assembly weight	143 lbs. (65kg)
Read out accuracy	1 g
Cycle time	6 seconds
Rotation speed (rpm)	<100
Power supply	110v / 60 Hz / 1Ø



# 544 PROTRUCK 2D

## VERSATILE TRUCK WHEEL BALANCER

DESIGNED FOR FAST AND ACCURATE  
BALANCING OF COMMERCIAL  
TRUCK WHEELS

Microprocessor controlled with self-calibration and self-diagnostics.  
Specific balancing programs for static, dynamic and ALU wheels.

**One single spin with low rotation speed provides all the values.**  
Readout of out of balance values and the related position on the wheel.  
Wheel diameter and width in  
inches or millimeters.  
Unbalance readout in  
grams or ounces.



SCAN CODE FOR  
PRODUCT VIDEO



**R544** 8" - 8.7", 11"  
(202 - 221mm, 281mm)  
Complete with cones for trucks.



**R544**  
Shown with  
optional GAR266T  
width sensor arm

### AIR LOCK

Model comes with pneumatic  
locking of the wheel.

### AIR LIFT

441lbs. capacity



**GAR 351**  
Standard air lock nut

### AIR BRAKE

An electro-pneumatic  
brake keeps the wheel  
in the unbalance position.



## 2D AUTOMATIC DATA INPUT

Digital calliper with optical sensor,  
with alloy shaft sliding on bushes.  
Automatic storage of distance and  
diameter up to 26".



**WHEEL AIR LOCK IN POSITION > PRECISION WHEEL LIFT > SPEED**



## MONITOR KEYPAD



Linked directly to a standard monitor, this durable touchpad allows for a "gloved" input with the convenience of a touch screen monitor.

## FULL COLOR MONITOR

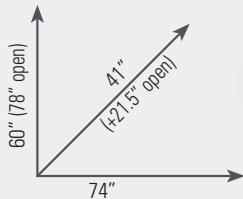
TFT SVGA 19" SCREEN



## AUTO STOP ON TOP



## DIMENSIONS R544

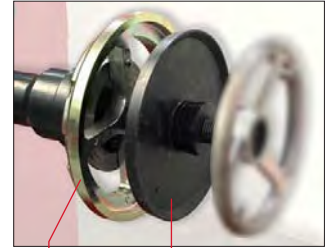


R544

## STANDARD ACCESSORIES



CALIBRATION KIT



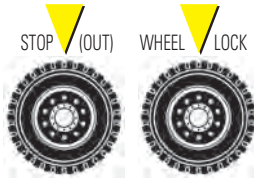
**GAR 122**  
Truck spacer

**GAR 114** (202-221-281)  
Cones (2) for HD trucks  
(7.9" - 8.7" - 11")

## AUTOMATIC LOCK IN POSITION



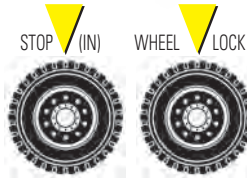
Automatic start when the cover is lowered.



Automatic stop in the external unbalanced position.



Rotate to the internal side.



Stop in the internal unbalanced position.

## TECHNICAL DATA

### R544

Rim diameter	10" - 30"
Rim width	1.5" - 22"
Max. tire diameter	51"
Maximum assembly weight	441 lbs. (200kg)
Read out accuracy	10 g  1 g
Rotation speed (rpm)	100  80
Power supply	110v / 60 Hz / 1Ø

## R544 OPTIONAL ACCESSORIES

### CAMION / TRUCK / LKW



**GAR 171**  
(3X170, 186, 205, 222, 245)

**GAR 172**  
(4X275, 285) 202-221-281

SHOWN:  
**GAR 173** (5X225, 286, 335)  
Five finger adapter



SHOWN:  
**GAR 172**  
Four finger adapter



**HW700E400020**

Truck centering disc for finger adapters  
Fits 8.65" (219.9mm) and 8.69" (220.8mm)

Required for use with GAR173 and/or GAR172



**GAR 124**  
Spacer for all balancers

### PASSENGER CAR / LIGHT TRUCK



**GAR 111** 1.73" - 1.5"  
(44-112 mm)  
Autos



**GAR 112** 3.7" - 5"  
(95-132 mm)  
Light truck cone



**GAR 113**  
4.65" - 6.8" (118-174mm)  
Vans and light trucks



## WHEEL TIRE SENSOR

**GAR 266T WIDTH SENSOR**

Calliper for automatic measurement of rim width.

*The name you've come to trust for lifting vehicles worldwide now offers the best wheel service equipment for your shop.*

Rotary didn't invent the wheel, but we sure know how to service it. Our line of wheel service equipment offers cutting-edge technology, productivity and safety features that every shop is looking for.

Providing the best service is about more than just know-how. It's about having the right equipment for the job. The go-to choice for shops of all sizes, Rotary's line of premium equipment is manufactured to the highest standards of quality and durability to help you perform the job right the first time, every time.

Offer your customers top quality tire and wheel service by putting Rotary to work for you.



#### Rotary

2700 Lanier Drive  
Madison, IN 47250, USA

For additional world wide contact information and a complete guide to our product offering, visit us on the web at [rotarylif.com](http://rotarylif.com).



Lit# Rotary Wheel Service Changers Brochure.2018.02

#### North / South America Contact Information

Sales: p 800.640.5438  
e [userlink@rotarylif.com](mailto:userlink@rotarylif.com)  
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e [techlink@rotarylif.com](mailto:techlink@rotarylif.com)

#### Global Contact Information

USA: 1.812.273.1622  
Canada: 1.905.812.9920  
Latin America / Caribbean: 1.812.273.1622  
Brazil: +55.11.4534.1995

#### Assistance for Government Purchasing

Rotary Lift offers assistance to help you make informed decisions when it comes to purchasing equipment.

For additional information and the statutes that pertain to your area, contact our **Government Sales Leader** at 800.445.5438 X5655 or visit us on the web at [rotarylif.com/Government-Purchasing-Assistance/](http://rotarylif.com/Government-Purchasing-Assistance/).



## Model 250/260

The Model 250/260 parts washer is specifically designed to help reduce waste generation by providing clean, recycled solvent through Safety-Kleen's exclusive distillation process. Pressing the recycle button automatically pumps clean solvent back into the basin for optimal cleaning and less waste.



MODEL 250/260 \_PART NUMBER 250/260\*

CHEMISTRY	SPECIFICATIONS	
Premium Solvent	Operation Type	Manual/Recycler
QSDI®	Depth	27" (68.6cm)
PRF 680 Type II	Height at Sink	33" (83.8cm)
	Height w/ Lid Open	61.5" (156.2cm)
	Width	32" (81.3cm)
	Sink Depth	7" (17.8cm)
	Electric Power	115 VAC, 60 Hz, 13 A
	Standard Fill	20 gal. (75.71 L)
	Operating Temp	Ambient
	Material	Steel
	Machine Color	Red
	Max Workload	500 lbs. (226.8 kg)
	Reservoir Capacity	20 gal (75.71L)
	Sink Capacity	4.5 gal (17.03L)
	Listing	cETL

Home > Tool Storage > Masters Series Tool Storage > Masters Series Roll Cabs > Krl756 Masters Series Roll Cabs (35") >35" 7 Drawer Single Bank Masters Series Roll Cab

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Safety Messages

35" 7 Drawer Single Bank Masters Series Roll Cab

Qty:

★★★★★

4200.00 USD  
Item: KRL756CPCM

Add to cart  
Add to Wish List

Overview	Specification	Reviews	Sets/Members	Repair Parts
Product Specifications Information:				
Cubic inches (cm³)		15,506 (254,100)		
Depth, inches (mm)		24 (609.6)		
Double Slide (included)		Yes (1 drawer)		
Drawer Banks		1		
Height, inches (mm)		39-7/8 (1,012.8)		
Load Capacity, lb (kg)		3,600 (1,630)		
Net Weight, lb (kg)		306 (139)		
No. of Drawers		7		
Shipping Weight, lb (kg)		361 (164)		
Slides, lb (kg) (ball bearing)		261 (118)		
Square inches (cm²)		4,677 (30,174)		
Widest Drawer, inches (Qty.)		34		
Width, inches (mm)		35-5/8 (904.9)		
Work Surface		Non-Directional Rubber		
Writing Surface (Qty.)		No		
Country Of Origin		USA		
Brand		Snap-on		

Product Safety | Product Reg | SDS Search | Tool Certificate Redemption Form | Corporate | Other Snap-on Sites | Careers | CA Supply Chain | Feedback



CHANGE COUNTRY

Like 4.7K



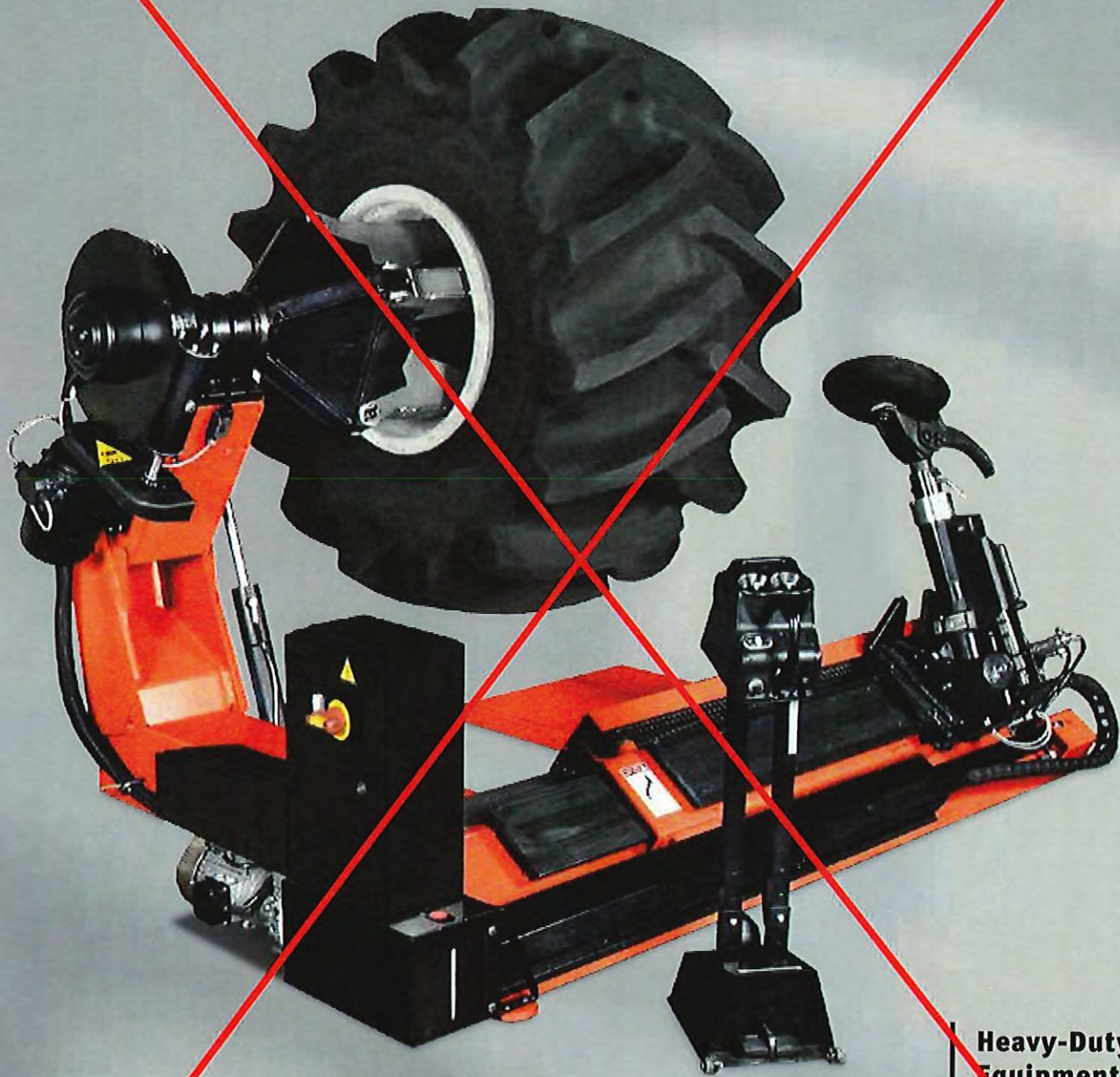
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# HEAVY-DUTY TIRE CHANGERS

Heavy-Duty  
Truck Tire  
Changers



Heavy-Duty  
Equipment for  
Heavy-Duty  
Tires

**JohnBean**™



## T8058 Series

EEWHT8058B

The John Bean T8058 heavy-duty truck tire changer series makes wheel service for trucks, tractors, off-road and skidder wheels a faster, easier and more profitable part of your business. They feature a hydraulically-operated self centering four jaw chuck that can be lowered as much as 13.78" from the carriage – great for handling wheels without tires. Rotation and positioning of the mounting tool are controlled independently, saving the technician time and increasing productivity. The mounting tool can be positioned hydraulically.



## T8056

EEWHT8056

These heavy-duty tire changers feature a hydraulically operated, self centering four jaw chuck with clamping jaws, one operating capability allowing a single technician to safely monitor all tire changing operations and bead breaker disc mount/demount heads that are combined into one assembly for ease of use.

- Four jaw clamping chuck
- One man operation
- Versatility

### T8058 SERIES SPECIFICATIONS

- Max. Wheel Width: 59"
- Max. Wheel Assembly Diameter: 95"
- Max. Wheel Weight: 4,409 lbs
- Wheel Clamping Range: 14" - 58"
- Bead Breaking Force: 8,543 lbs
- Two-Speed Chuck: 4/8 RPM
- Chuck Motor: 3 HP
- Hydraulic Motor: 2 HP
- Dimensions (D x W x H): 116.5" x 82.7" x 75.74"
- Shipping Weight: 3,087 lbs
- Power Requirements: 230V 3Ph 60Hz

### T8056 SPECIFICATIONS

- Max. Wheel Width: 43"
- Max. Wheel Assembly Diameter: 90.5"
- Wheel Clamping Range: 14" - 44"
- Rotational Torque: 2,268 ft lbs
- Chuck Spindle Diameter: 5"
- Chuck Motor: 3 HP
- Hydraulic Motor: 2 HP
- Dimensions (D x W x H): 117" x 81" x 63"
- Shipping Weight: 2,085 lbs
- Power Requirements: 230V 3Ph 60Hz



## T8026

EEWHT8026

The John Bean T8026 is a heavy-duty tire changer designed for tubeless and tube-type wheels. This tire changer can mount/demount a wide variety of truck, bus, tractor and off-road tires.

- Four jaw clamping chuck
- One man operation
- Patented mount/demount head assembly



## T8010TR

EEWHT8010TR

The John Bean T8010TR is specifically designed to change on-road, RV and bus tires. It is ideal for businesses that maintain a fleet of vehicles, freight forwarders and bus garages. The T8010TR is designed for a single technician and to take up a minimum amount of shop floor space.

- Four jaw clamping chuck
- One man operation
- Minimum space requirement
- Affordable priced for fleets

### T8026 SPECIFICATIONS

- Max. Wheel Width: 31"
- Max. Wheel Assembly Diameter: 60"
- Wheel Clamping Range: 14" - 26"
- Chuck Motor: 3 HP
- Hydraulic Motor: 2 HP
- Lifting Capacity: 1,4000 lbs
- Dimensions (D x W x H): 64" x 87" x 48"
- Shipping Weight: 1,200 lbs
- Power Requirements: 230V 3Ph 60Hz

### T8010TR SPECIFICATIONS

- Max. Wheel Width: 20"
- Max. Wheel Assembly Diameter: 47"
- Max. Wheel Weight: 450 lbs
- Wheel Clamping Range: 16" - 24.5"
- Dimensions (D x W x H): 54" x 52" x 31"
- Shipping Weight: 880 lbs
- Power Requirements: 230V 1Ph 60Hz

# PRODUCT FEATURES & SPECIFICATIONS

## OPTIONAL ACCESSORIES



### ST4007611

Useful when breaking the bead from the rim on multi-piece wheels (OTR)



### ST4021858

To hold the bead when mounting tires on light alloy rims



### ST4022287

Tubeless Roller - facilitates mounting and dismounting tubeless tires up to 13" wide



### EAA0347G43A

Guards For Alloy Rims - suitable for rims with flange thickness 19 - 28mm

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06/15 SS3199C

For more information regarding  
Heavy-Duty Truck Tire Changers  
Call 800.362.4618 (US) or 800.362.4608 (Canada)

[www.johnbean.com](http://www.johnbean.com)

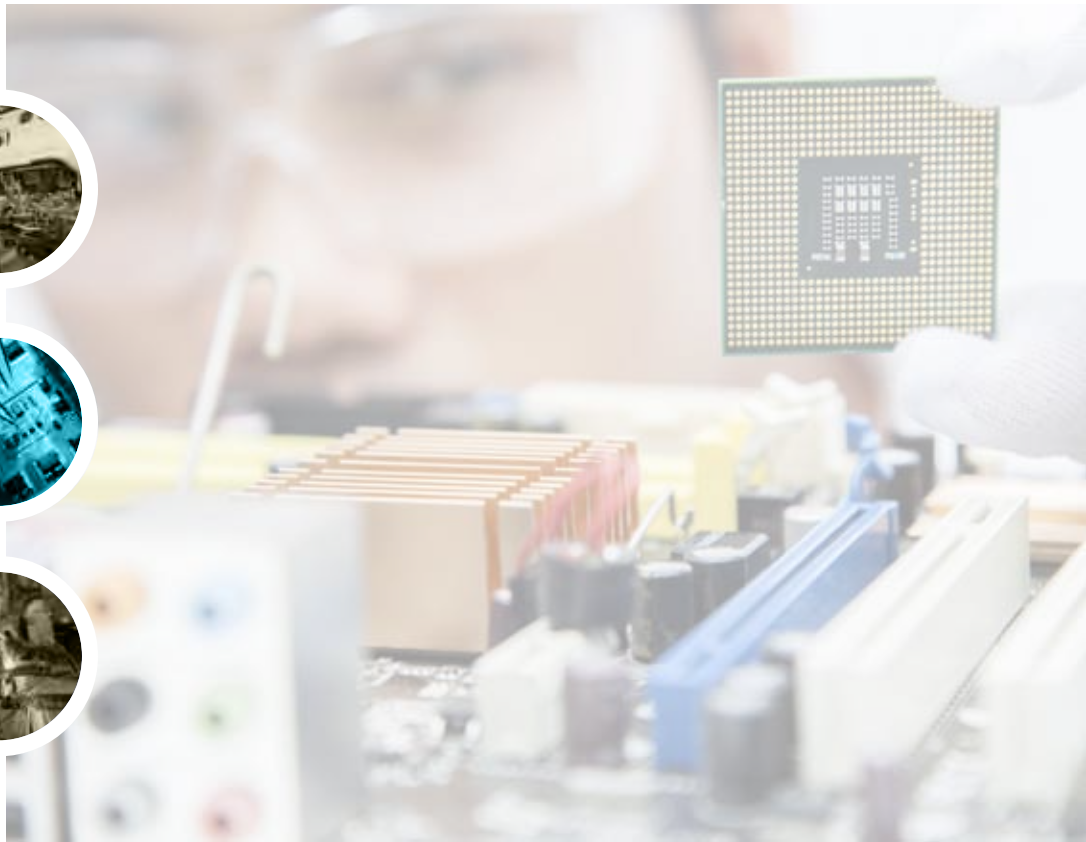
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# JohnBean™

# CRN Series

REFRIGERATED COMPRESSED AIR DRYERS  
10-3000 SCFM

- ▶ ISO Quality Class Performance
- ▶ Integral Filtration
- ▶ Stainless Steel Braided Plate Heat Exchangers



**CHAMPION®**

# Durability Delivered

## CRN SERIES REFRIGERATED AIR DRYERS



CRN Series refrigerated air dryers are engineered to benefit you today and tomorrow from the tradition of durability that is Champion. Quality components and engineering excellence meld to ensure you of a stable ISO Quality Class 4–5 pressure dew point. These exclusive compressed air preparation packages combine reliability, cutting-edge design, and innovative packaging into a single space saving unit. The air quality delivered from an CRN Series dryer may define the difference between moderate and superior results from your plant's processes or systems.

CRN Series dryers benefit you with:

- 1** Three levels of Intelligence Controller (I-Controller) packages to allow you to customize the CRN Series dryers to meet your specific requirements. This lets you choose which I-Controller package represents your best value.
- 2** Select Heat Exchanger arrangements to ensure you get the right combination of value and efficiency in every size. This secures your investment today and tomorrow with energy efficiency and the best warranties in the industry.
- 3** Combination Separator/Filter that incorporates our 99% efficient 3 micron Grade B elements. This ensures you of consistent water removal (especially under low flow conditions).

### AIR TREATMENT SYSTEMS

The flexibility engineered into every CRN Series dryer allows you to satisfy your air quality requirements with a single package. Enlist us to deliver the dew point stability, air quality, energy efficiency, and product reliability that you expect from Champion.

### ISO 8573.1 AIR QUALITY CLASSES

1992 earmarked the year the International Organization for Standardization (ISO) established ISO 8573.1 as the global benchmark for evaluating the quality of compressed air. Thus, providing engineers with a universally accepted unit of measure for quantifying compressed air stream contaminants. Namely Solid Particulates, Moisture, and Oil.

### STANDARDS PER ISO 8573.1

Quality Classes	Solid Contaminants (maximum particle size in microns)	Max. Pressure Dew Points °F (°C)	Maximum Oil Content (droplets, aerosols, & vapor ppm w/w (MG/M <sup>3</sup> ))
0	as specified	as specified	as specified
1	0.1	-94 (-70)	0.008 (0,01)
2	1	-40 (-40)	0.08 (0,1)
3	5	-4 (-20)	0.8 (1)
4	15	38 (3)	4 (5)
5	40	45 (7)	21 (25)
6	-	50 (10)	-

CRN Series packages deliver:

### ISO 8573.1 QUALITY CLASS RATINGS

CRN Seriesw	Solids	Moisture	Oil
As Standard	3	4–5	5
with Cold Coalescer Option	1	4–5	1
with an optional external Grade G CFF Filter (shown attached)	1	4–5	0*

\*Quality Class 0 reflects "as specified" level of cleanliness. The addition of an optional external Grade G Filter achieves 0.003 ppm w/w for technically Oil-Free air.



# Built to Perform



Extended Warranty available: contact your local distributor for more details.

## PACKAGE DESIGN

At first glance, the ruggedness and ease of serviceability engineered into CRN Series becomes apparent. Fabricated from solid steel, the corrosion resistant epoxy powder paint and the fit and finish of the cabinet, foretell of the quality to be found within. At the touch of a button, quick fasteners release each lift out door panel. Easy interior access and user-friendly serviceability translate to reduced maintenance costs.

## PROVEN PERFORMANCE

All models use reliable refrigeration compressors and environmentally friendly refrigerants. Models through CRN500 use proven reciprocating refrigeration compressors. CRN600 through CRN3000 incorporate rugged scroll compressors. You benefit from long component life, and exceptional around-the-clock performance.

## CRN 10-15

The patented static condenser technology eliminates the need for a cooling fan. Models include an on/off power switch, 8 foot power cord and no air loss float drain. Outlet air is reheated to eliminate pipe line sweat.

## HEAT TRANSFER

CRN models 10-15 benefit from our smooth handcrafted all copper heat exchangers. Multiple tube-on-tube designs achieve the low pressure drop, high heat transfer.

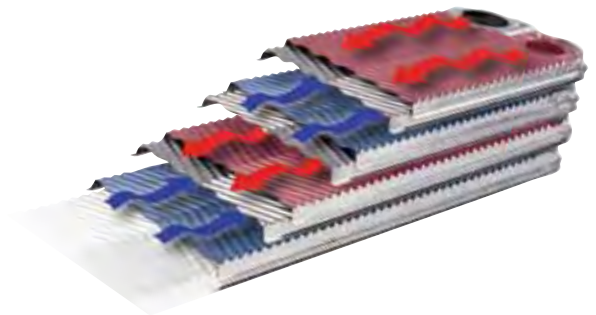
CRN Series models 25-300 incorporate heat exchangers crafted from multiple offset layers of press formed AISI 316 stainless steel. Press forming creates peaks and valleys that form media channels that are rich in fluid turbulence. This prevents fouling and maximizes energy efficiency.

## MAXIMUM EXTRACTION SEPARATOR/FILTER

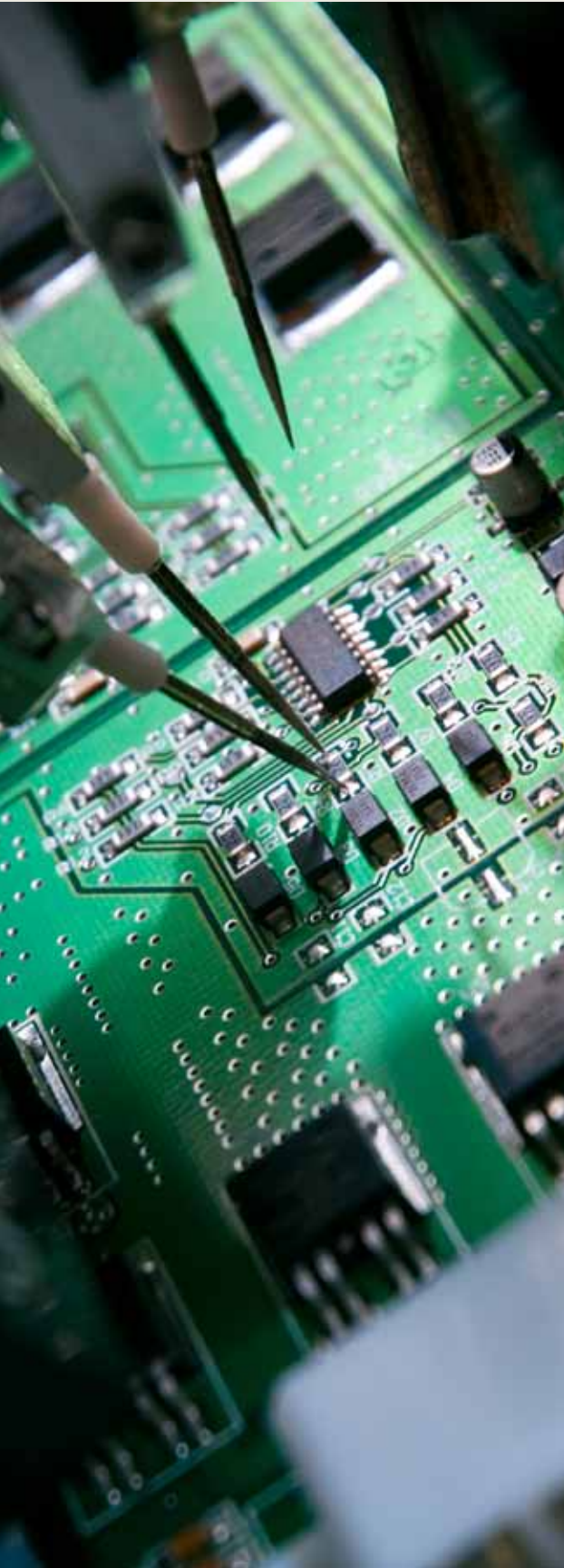
Effective moisture removal at all flow rates is the key to preserve dew point stability. CRN25 and larger includes Grade B two-stage cold filtration to ensure maximum water extraction even under low flow conditions. Stage one mechanically entraps solids >10 microns with dual stainless steel orifice tubes. Stage two utilizes in-depth fiber media to coalesce water droplets and retain solid particles 3 microns and larger.

## GET CONNECTED

The extended inlet/outlet connections on CRN dryers (CRN25-CRN750) were engineered with foresight to readily accept all CFF Series Filters without the need for cumbersome adaptors and fittings. CRN1000 - 3000 inlet/outlet connections on top of unit for ease of installation. You gain the installation flexibility you need today that may help you be prepared to meet the changes of tomorrow.



# Take Control



CRN Series dryers are equipped with control schemes that are designed to provide you with the most value delivered within each flow range. Engineered with industry leading features, each I-Controller package provides just the right level of benefits to appeal to the most demanding applications and discriminating customers.

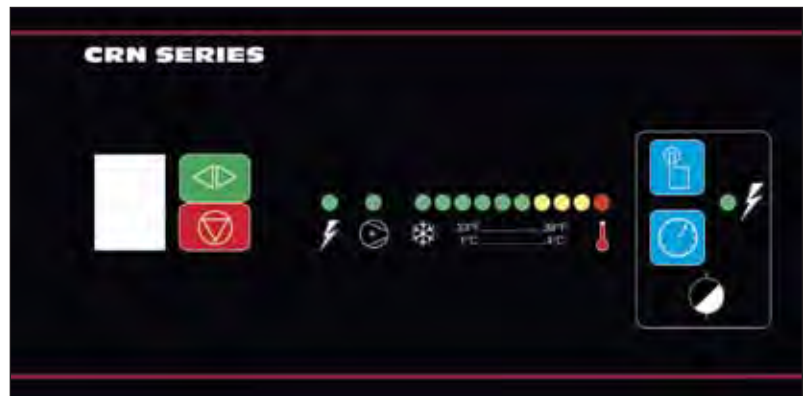
## INSTRUMENTATION

Power-on LED and 6 foot grounded power cord are standard on all single-phase 115-volt units. Easy view angular instrumentation panels prominently display all I-Controllers instrumentation packages



## I-CONTROLLER LEVEL 1

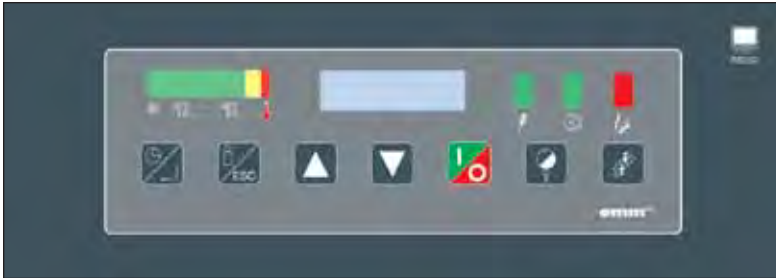
On/Off rocker switch, green power on light, temperature indicator and pneumatic, pilot-operated drain trap. Easy to monitor display panel.



## I-CONTROLLER LEVEL 2

Standard equipment\* on models CRN125 through CRN750 includes: "Power-on" LED, "Compressor-on" LED, On/Off rocker switch, dew point bar graph LED display. Timed solenoid drain trap with push-to-test button and secondary manual drains complete with by-pass valves and drain lines are standard equipment. This helps keep the surrounding area clean and dry and helps you avoid having to shutdown the dryer during drain valve maintenance.

# Compare these Features— Unmatched in the Industry!

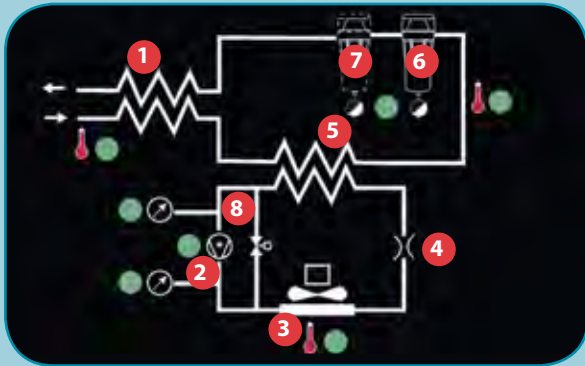


## I-CONTROLLER LEVEL 4

Standard equipment on models CRN1000 through CRN3000 includes: manual mode, schedule mode to synchronize operation to your workday, auto restart, text display window that displays current time, operating mode, total operating hours, hours to service, dew point bar graph LED display, initializes alarm relay, display, compressor-on light, power-on light, temperature indicator, alarm/service light, reset button, set/run button, programming buttons, on/off button, drain push-to-test button, English, Spanish, German, French and Italian language selectable, RS-232 communication capable, fault condition diagnostics with text display, dry contacts for high dew point remote alarm at 55° F.



# Refrigeration Circuit



- Precooler/Reheater **1**
- Refrigeration Compressor **2**
- Condenser **3**
- Thermal Expansion Valve **4**
- Evaporator **5**
- Moisture Separator/3 micron Filter **6**
- Optional Cold Coalescing Oil Removal Filter **7**
- Suction-side **8**

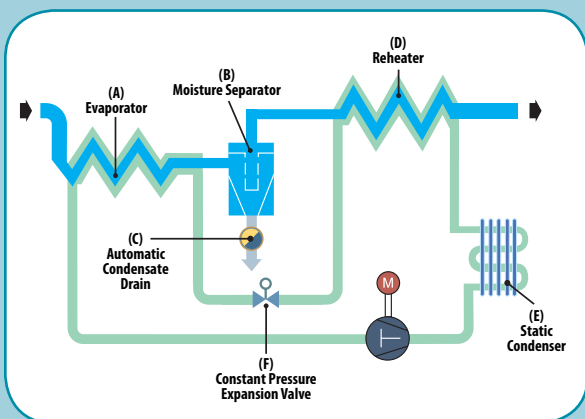
## CRN 25-3000

Series dryers enlist proven components and modern materials to deliver the durability you expect from Champion. Hot, moist incoming compressed air enters the Precooler/Reheater **(1)** where it is pre-cooled by the cold dehydrated airstream. Environmentally friendly low-pressure refrigerant gas is pressurized in the refrigeration compressor **(2)**. Once compressed into a high-pressure gas, it then flows through the condenser **(3)** and changes to a cold 35° F liquid. The thermal expansion valve **(4)** precisely meters the cold liquid refrigerant into the evaporator **(5)** where the work is done. Hot, saturated compressed air enters the evaporator at the end opposite the incoming liquid refrigerant. The compressed air is chilled as they cross paths. Water is condensed out of the cold exiting air and is efficiently removed in the Separator/3 micron Filter **(6)**. The cold air stream then flows through **(7)** the Cold Coalescing Oil Removal Filter (optional on models CRN25–CRN3000) where oil droplets and aerosols to 0.008 ppm w/w are captured and removed. The exiting cold, dry compressed air then reenters the Precooler/Reheater **(1)** where it is reheated by the hot incoming air to prevent pipe sweating in your plant. Finally, the warm refrigerant is now a low-pressure gas and returns to the suction-side **(8)** of the refrigeration compressor to continue the process.

## CRN 10-15

Warm saturated air enters the Evaporator **(A)**, where it is cooled by an air-to-refrigerant process. Water vapor condenses into a liquid for removal at the moisture separator **(B)** by an Automatic Drain **(C)**. The cold, dry air is reheated as it passes through the Reheater **(D)** while the patented Static Condenser **(E)** radiates waste heat to ambient. This eliminates the need for a cooling fan and prevents pipeline sweating at the air outlet.

A Constant Pressure **(F)** Expansion Valve (CPEV) modulates the flow of liquid refrigeration to the Evaporator **(A)**. This eliminates freeze-ups and assures continuous, automatic dew point control. The CPEV responds to pressure changes as the refrigerant leaves the Evaporator. This maintains the proper cooling rate under all load conditions. The CPEV is adjusted at the factory to deliver automatic operation.

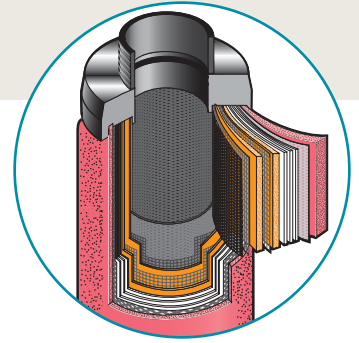


- Evaporator **A**
- Moisture Separator **B**
- Automatic Drain **C**
- Reheater **D**
- Static Condenser **E**
- Constant Pressure Expansion Valve **F**

# System Options

## INSTRUMENTATION

Power-on LED and 6 foot grounded power cord are standard on all single-phase 115-volt units. Easy view angular instrumentation panels prominently display all I-Controllers instrumentation packages.



## OPTION FEATURE OVERVIEW

Control Version	LED Indicator lights			Drain Valves			System Upgrades	
	Power-on	Compressor-on	Dew Point Temperature Indicator	Pneumatic Pilot-Operated	Timed Drain w/ Push-to-test*	Demand Drain w/ Push-to-test*	Cold Coalescing Oil Removal Filter	Vacuum Fluorescent Text Display
I-Controller Level 1	S	S	S	S	-	-	0	-
I-Controller Level 2	S	S	S	-	S	-	0	-
I-Controller Level 4	S	S	S	-	-	S	0	S

S = Standard Feature

O = Optional Feature

\* Secondary manual drains complete with by-pass valves are standard equipment and only available on packages with Level 2, and Level 4 I-Controllers. This helps keep the area clean and dry and helps you avoid dryer shutdown during drain valve maintenance.

**OIL REMOVAL...** this option integrates our factory installed Grade E Cold Coalescing Oil Removal Filter. Oil droplets and aerosols are extracted from the air stream in cleaning it down to 0.008 ppm w/w and solids are retained down to 0.01 micron. CRN Series dryers that include the Cold Coalescing Oil Removal Filter option are also equipped with a dedicated drain trap. Drain trap is consistent with the type provided with your chosen I-Controller. Available on models CRN25–CRN3000.

**GAUGES...** four panel mounted gauges: air inlet temperature, air outlet pressure, refrigerant suction pressure and refrigerant head pressure.

**DRY CONTACTS...** remote bulb temperature switch with "C"-form contacts; mounted inside cabinet.

**AIR-BYPASS PIPING...** Three valve block and bypass; mounts to inlet/outlet connections; shipped loose. MWP 200 psig



## CRN SERIES REFRIGERATED DRYER-FILTER SPECIFICATIONS

Model CRN	Rated Flow (1)	Standard Controller (2)	Connection [inches] (3)	Dimensions [inches]			Weight [lbs]	w/Oil Remo R [lbs]	Voltages [v/ph/Hz]	kW	Dryer Model Number	Kits for Dryers Mfg. Before June 15, 2006	Kits for Dryers Mfg. After June 15, 2006
				H	W	D (4)							
10 15	10 15	On/Off Switch	3/8 OD 3/8 OD	15 15	12.6 12.6	12.6 12.6	64 69		115/1/60	1/7 1/7	CRN 25, 35 CRN 25, 35 w/ OPTION F CRN 50	CRNKM2 CRNKM12 CRNKM3	CRNKM2 CRNKM12 CRNKM3
25 35 50 75 100	25 35 50 75 100	I-Controller Level 1	1/2 NPT 1/2 NPT 1/2 NPT 3/4 NPT 1 NPT	26 26 26 26 38	20.5 20.5 20.5 20.5 29	18 18 18 18 20	86 90 95 106 251	147 151 157 216 258	115/1/60 208-230/1/60 220-240/1/50	.21 .25 .41 .59 .93	CRN 50 w/ OPTION F CRN 75, 100 CRN 75, 100 w/ OPTION F CRN 100 CRN 100 w/ OPTION F CRN 125, 150	CRNKM13 CRNKM4 CRNKM14 N/A N/A CRNKM5	CRNKM13 SEE BELOW SEE BELOW CRNKM22S CRNKM42S CRNKM23S
125	125		1 NPT	38	29	20	273	281		1.28	CRN 125, 150 w/ OPTION F CRN 200, 250 CRN 200, 250 w/ OPTION F	CRNKM15 CRNKM6 CRNKM16	CRNKM43S CRNKM24S CRNKM44S
150 200 250 300 400 500 600 750	150 200 250 300 400 500 600 750	I-Controller Level 2	1 NPT 1-1/2 NPT 1-1/2 NPT 1-1/2 NPT 2 NPT 2-1/2 NPT 2-1/2 NPT 2-1/2 NPT	38 39 39 46 46 58 58 58	29 34 34 35 35 32 32 32	20 32 32 32 32 42 42 42	279 425 463 527 571 684 646 734	287 438 476 540 603 716 691 804		1.30 1.26 1.96 2.00 2.03 2.68 3.06 4.32	CRN 300 UNITS MFG BEFORE 12/19/02 CRN 300 w/ OPTION F UNITS MFG BEFORE 12/19/02 CRN 300 CRN 300 w/ OPTION F CRN 400, 500 CRN 400, 500 w/ OPTION F	CRNKM7 CRNKM17 CRNKM8 CRNKM8 CRNKM8 CRNKM18	SEE BELOW SEE BELOW CRNKM25S CRNKM45S CRNKM26S CRNKM46S
1000 1250 1500 1750 2000 2500 3000	1000 1250 1500 1750 2000 2500 3000	I-Controller Level 4	3" ANSI Flg. 4" ANSI Flg. 6" ANSI Flg. 6" ANSI Flg. 6" ANSI Flg. 6" ANSI Flg.	85 85 85 85 85 85	49 49 55 55 55 55	41 51 60 60 60 60	1146 1521 1547 1940 1986 2315 2646	1173 1548 1574 1994 2040 2369 2700	208-230/3/60 460/3/60 575/3/60 575/3/60 380-420/3/50	6.3 7.29 9.47 11.3 11.5 15.0 19.7	CRN 600 CRN 600 w/ OPTION F CRN 750 CRN 750 w/ OPTION F CRN 1000, 1250, 1500 CRN 1000, 1250, 1500 w/ OPTION F CRN 1000, 1250, 1500 MFG 1/15/02 - 6/14/06 CRN 1000, 1250, 1500 w/ OPTION F CRN 1750, 2000, 2500, 3000 CRN 1750, 2000, 2500, 3000 w/ OPTION F CRN 1750, 2000, 2500, 3000 MFG 1/15/02 - 6/14/06	N/A N/A CRNKM9 CRNKM10 CRNKM20 CRNKM10-5 CRNKM20 CRNKM11 CRNKM21 CRNKM11-5	CRNKM27S CRNKM47S CRNKM28S CRNKM48S CRNKM29S CRNKM49S CRNKM29S CRNKM49S CRNKM30S CRNKM50S CRNKM30S

**TABLE 1 - Correction Factors (Multipliers)  
for Inlet Air Temperature and Pressure**

INLET PRESSURE (PSIG)	INLET TEMPERATURE				
	80° F (27° C)	90° F (32° C)	100° F (38° C)	110° F (43° C)	130° F (54° C)
50	1.35	1.05	0.84	0.69	0.44
80	1.50	1.17	0.95	0.79	0.52
100	1.55	1.23	1.00	0.82	0.56
125	1.63	1.31	1.07	0.91	0.61
150	1.70	1.37	1.13	0.95	0.64
175	1.75	1.42	1.18	0.99	0.66
200	1.80	1.47	1.22	1.03	0.68

To adjust dryer capacity for conditions other than rated, use Correction Factors (multipliers) from Tables 1, 2 and 3.

**Example:** What is the capacity of a model CRN100 when the compressed air at the inlet to the dryer is at 150 psig and 100° F, the ambient temperature is 90° F

**Answer:** 100 scfm (rated flow from Specifications Table) x 1.13 (correction factor for inlet temperature and pressure from Table 1) x 1.06 (correction factor for ambient temperature from Table 2) = 147 scfm

**TABLE 2 - Correction Factors for Ambient Temperature**

AMBIENT TEMPERATURE	80° F (27° C)	90° F (32° C)	100° F (38° C)	110° F (43° C)
Multiplier	1.12	1.06	1.00	0.94

- \* Consult your local Distributor for information on complete maintenance kits  
Refrigerant: CRN10-CRN750 use R-134a, models CRN1000-CRN3000 use R-404a  
Maximum operating pressure: 232 PSIG  
Maximum operating temperature: 130° F
- (1) Rated Flow Capacity - Conditions for rating dryers are in accordance with CAGI (Compressed Air and Gas Institute) Standard ADF100: Refrigerated Compressed Air Dryers - Methods for Testing and Rating. Conditions for rating above dryers are: compressed air at dryer inlet: 100 psig and 100° F saturated; ambient temperature: 100° F; operating on 60 Hz power supply. For dew point performance ratings, models RNC200-RNC1000, request a CAGI data sheet from your local distributor.
- (2) I-Controller Level 4 is standard on CRN1000-CRN3000  
I-Controller Level 2 is standard on CRN125-CRN750  
I-Controller Level 1 is standard on CRN25-CRN100
- (3) OD connection is tubing: NPT connections are male
- (4) Add 2 inches for Inlet/Outlet connections (does not apply to CRN10-CRN15 or CRN1000-CRN3000)

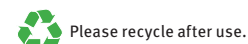
### NOTES

- (1) CSA and CE certified  
(2) NEMA 1 standard  
a. An additional drain valve, consistent with type supplied with package I-Controller, is supplied when Cold Coalescing Oil Removal Filter option is specified.  
b. Units are air-cooled as standard. Contact your local Distributor if water-cooled versions are required.

**CHAMPION®**

www.ChampionPneumatic.com

1301 North Euclid Avenue  
Princeton, Illinois 61356 USA  
www.ChampionPneumatic.com/ContactUs.aspx  
866-276-4330





# Objet260 Connex3

## Multi-color, multi-material or versatility?

### Choose all three for your office.

Unleash your creativity with the most advanced office 3D printer: The Objet260 Connex3™. The Connex3 empowers you to 3D print brilliantly colored prototypes to fit your application needs. The Objet260 Connex3 boasts the widest range of material properties for its class, from rigid to flexible, transparent to opaque, neutral to vibrant, standard to bio-compatible and durable to high temperature. With Connex3, incorporate dozens of colors into one prototype, from vivid opaque to stained glass-like translucent, with hundreds of blended hues in between. Objet Studio™ software makes it simple to build high-quality, accurate 3D models.



LEARN MORE ABOUT THE OBJET260 CONNEX3 AT [STRATASYS.COM](http://STRATASYS.COM)



# Objet260 Connex3

## Driven by powerful PolyJet™ technology

Proven PolyJet 3D Printing is famous for smooth surfaces, fine precision and diverse material properties. It works a bit like inkjet document printing, but instead of jetting drops of ink onto paper, the print head jets microscopic layers of liquid photopolymer onto a build tray and instantly cures them with UV light. The fine layers build up to create a prototype or production part.

Along with the selected model material, the 3D printer features two support material options: SUP705, removed with a WaterJet; and SUP706, which is easily removed and soluble for automated post-processing and increased geometric freedom to print complex and delicate features and small cavities.

With its astonishingly realistic aesthetics and ability to deliver special properties such as transparency, flexibility and even bio-compatibility, PolyJet 3D Printing offers a competitive edge in consumer products prototyping, precision tooling and specialized production parts.

## 3D Printer Specifications

<b>Model Materials</b>	Rigid Opaque: VeroPureWhite™, VeroWhitePlus™, VeroBlackPlus™, VeroGray™, VeroBlue™, VeroCyan™, VeroMagenta™, VeroYellow™ Rubber-like: Agilus30™, TangoPlus™, TangoBlackPlus™, TangoBlack™, TangoGray™ Transparent: VeroClear™ and RGD720 Simulated Polypropylene: Rigur™ and Durus™ High Temperature Bio-compatible
<b>Digital Materials</b>	Vibrant blended colors in Rigid Opaque Translucent colored tints Rubber-like materials in a variety of Shore A values Digital ABS Plus™ for durability, including blends with rubber Simulated polypropylene materials with improved heat resistance
<b>Material Options</b>	Over 1,000
<b>Maximum Materials per Part</b>	82
<b>Support Material</b>	SUP705 (WaterJet removable) SUP706 (soluble)
<b>Maximum Build Size (XYZ)</b>	255 x 252 x 200 mm (10.0 x 9.9 x 7.9 in.)
<b>System Size and Weight</b>	87 x 120 x 73.5 cm (34.2 x 47.2 x 29 in.); 264 kg (581 lbs.) Material Cabinet: 33 x 117 x 64 cm (13 x 46.1 x 25.2 in.); 76 kg (168 lbs.)
<b>Resolution</b>	X-axis: 600 dpi; Y-axis: 600 dpi; Z-axis: 1600 dpi
<b>Accuracy</b>	Up to 200 microns for full model size (for rigid materials only, depending on geometry, build parameters and model orientation)
<b>Minimum Layer Thickness</b>	Horizontal build layers as fine as 16 microns (.0006 in.)
<b>Build Modes</b>	Digital Material: 30-micron (.001 in.) resolution High Quality: 16-micron (.0006 in.) resolution High Speed: 30-micron (.001 in.) resolution
<b>Software</b>	Objet Studio intuitive 3D printing software
<b>Workstation Compatibility</b>	Windows 7 or Windows 8
<b>Network Connectivity</b>	LAN - TCP/IP
<b>Operating Conditions</b>	Temperature 18-25°C (64-77°F); relative humidity 30-70% (non-condensing)
<b>Power Requirements</b>	110-240 VAC 50/60Hz; 1.5 kW single phase
<b>Regulatory Compliance</b>	CE, FCC

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STRATASYS.COM  
ISO 9001:2008 Certified

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# The Stratasys F123 Series

## SMARTER PROTOTYPING FOR BUSINESS

### Smarter prototyping for your entire office.

Now there's a more capable, more affordable professional rapid prototyping solution for your entire office — from the leader in 3D printing. The Stratasys F123 series combines powerful FDM technology with design-to-print GrabCAD software for the most versatile and intelligent solution available. Produce fast, effective prototypes for concept development, as well as highly accurate and robust parts for design validation and functional performance. Share projects between multiple users. Get your new product designs to market faster. And do it all without the need for dedicated expert staffing. **It's just one more way we shape what's next.**

STRATASYS F123 SERIES

**stratasys**





# The Stratasys F123 Series

## User-Friendly, Office-Friendly

The new Stratasys F123 series is easy to operate and maintain for all levels of experience. And, it's adept at every prototyping stage, from concept verification to design validation to functional performance.

A variety of the most commonly used CAD file formats can be imported directly into the software. The three printers in the platform, the Stratasys F170™, F270™ and Stratasys F370™, support a broad range of capabilities and budgets for every stage of prototyping.

**Minimal setup** means you can simply plug and play to give your entire office access to professional 3D printing.

**Auto-calibration** ensures you spend less time troubleshooting and more time prototyping.

**Fast and easy material swaps** to help maximize your design team's productivity.

## Smarter Software

GrabCAD Print™ software simplifies the entire 3D printing process with an intuitive CAD-like application anyone on your team can use. And with features like detailed reporting and remote monitoring, you can easily manage your print jobs from outside the office. Combined with the ability to seamlessly share projects between users, it all adds up to a more streamlined, efficient workflow.

## Versatility and Performance

The Stratasys F123 series lets you print everything from fast, low-cost concept models to durable assemblies. And the Stratasys F123 series gives the option of up to four different materials, along with our easy-to-remove soluble support material.\* Create complex parts and assemblies with no compromise on accuracy, detail and repeatability. Even for your earliest design iterations, you can expect Stratasys quality and dependability.

\*The Stratasys F170 and F270 models support PLA, ABS-M30 and ASA materials; the Stratasys F370 supports PLA, ABS-M30, ASA and PC-ABS materials. PLA uses breakaway support only.

**stratasys**

## More Efficiency

The Stratasys F123 series also features **the all-new fast-draft mode** to produce initial design concepts quickly and economically. Now you can print twice as fast as standard build mode while consuming just a third of the material on average. For even more efficiency and savings, choose PLA. A thermoplastic made from renewable resources, PLA gives you the speed of fast-draft mode while keeping material expenses down. Spend less, create more. That's smarter 3D printing.

## Exceptional Value

The all-in-one power of the Stratasys F123 series gives you value all around — with expanded capabilities and unprecedented accessibility. New and improved features save time and material. Incredible ease of use with both the hardware and the software means you don't need special 3D printing expertise. Super quiet and office friendly. Reliable, consistent printing ensures less waste. Designed for the way you work, it's a smart business move.



## PRODUCT SPECIFICATIONS

System Size and Weight	1626 x 864 x 711 mm (64 x 34 x 28 in.) 227 kg (500 lbs) with consumables			
Noise Specification	46 dB maximum during build, 35 dB when idle			
Model Capabilities		Stratasys F170	Stratasys F270	Stratasys F370
	Maximum Build Size (XYZ)	254 x 254 x 254 mm (10 x 10 x 10 in.)	305 x 254 x 305 mm (12 x 10 x 12 in.)	355 x 254 x 355 mm (14 x 10 x 14 in.)
	Model Materials	PLA*, ABS-M30™, ASA, QSR support material	PLA*, ABS-M30, ASA, QSR support material	PLA*, ABS-M30, ASA, PC-ABS, QSR support material
Layer Thickness		0.013 in. (0.330 mm)	0.010 in. (0.254 mm)	0.007 in. (0.178 mm)
				0.005 in. (0.127 mm)
	PLA		X	
	ABS	X	X	X
	ASA	X	X	X
	PC-ABS	X	X	X
Accuracy	Parts are produced within an accuracy of +/- .200 mm (.008 in), or +/- .002 mm/mm (.002 in/in), whichever is greater.			
Material Delivery Options	Stratasys F170 = 2 material spool bays, 1 for model, 1 for support located in a drawer on the front of the unit Stratasys F270/F370 = 4 material spool bays, 2 for model, 2 for support located in a drawer on the front of the unit			
Network Connectivity	Wired: TCP/IP protocols at 100 Mbps minimum 100 base T, Ethernet protocol, RJ45 connector Wireless: IEEE 802.11n, g, or b; Authentication: WPA2-PSK, 802.1x EAP; Encryption: CCMP, TKIP			
Software	GrabCAD Print (download): Stratasys F170, F270 and F370 Insight software license: Stratasys F370 only			
System Requirements	Windows 7, 8, 8.1 and 10 (64bit only) with a minimum of 4GB RAM (8GB or more recommended)			
Operating Environment	Operating: Temperature: 59-86°F (15-30°C), Humidity: 30-70% RH Storage: Temperature: 32-95°F (0-35°C), Humidity: 20-90% RH			
Power Requirements	100-132V/15A or 200-240V/7A. 50/60 Hz			
Regulatory Compliance	CE, FCC, EAC, EMC (low-voltage directive), TUV, FCC, RC, RCM, RoHs, WEEE, Reach			

\*PLA does not utilize soluble support material. The supports are made of breakaway PLA.

# The Stratasys F123 Series

**SMARTER PROTOTYPING FOR BUSINESS**

The Stratasys F123 series is the ultimate, all-in-one rapid prototyping solution. Our platform is backed by 25 years of experience with over 20,000 loyal Stratasys customers worldwide. As the world's leader in 3D printing, Stratasys provides unrivalled levels of support, application knowledge, and industry collaboration. Which puts you at the **forefront of what's next.**

**DISCOVER MORE AT [STRATASYS.COM](http://STRATASYS.COM)**

[STRATASYS.COM](http://STRATASYS.COM)

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THE 3D PRINTING SOLUTIONS COMPANY™

ISO 9001:2008 Certified

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APPLICATION:

30

JOB NAME:

QUANTITY:

ITEM NO.

PRODUCT NAME:

EXPOSED REEL RINSE WALL  
MOUNTED WITH SPRAY VALVE

☐ SPECIAL CONFIGURATION  
☐ CHECK BASE MODEL AND OPTIONS

MODEL:

■ 2980

OPTIONS OR MODIFICATIONS:

☐ BRUSH

☐ OTHER \_\_\_\_\_

FEATURES

REEL

- \* SELF-LOCKING
- \* EXPOSED HOSE
- \* 35' LENGTH REEL HOSE
- \* 19" LENGTH INLET HOSE
- \* 3 PLY FIBER REINFORCED RUBBER HOSE
- \* ADJUSTABLE BALL STOP

PRO SPRAY VALVE

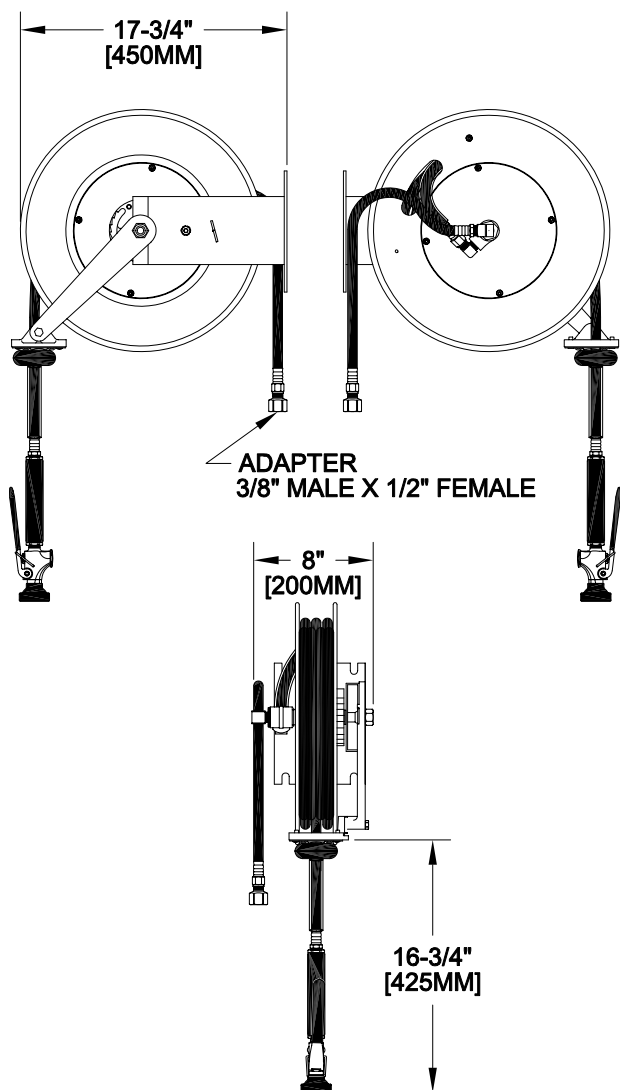
- \* NOZZLE THREADED INTO VALVE
- \* 2.65 GPM AT 80 PSI
- \* SHOWER SPRAY PATTERN

SYSTEM LIMITS

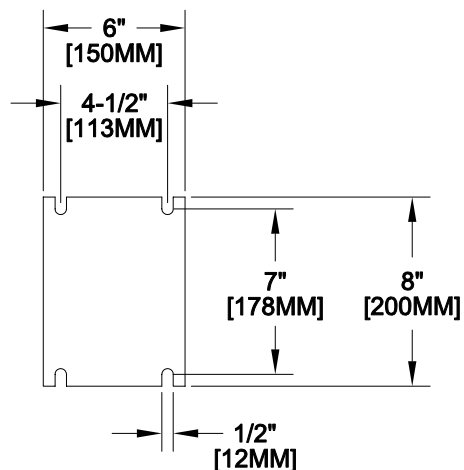
- \* TEMP: 40°F MIN. TO 140°F MAX.
- \* PRESSURE: 200 PSI MAX. STATIC

SHIPPING WEIGHT

- \* 34.0 LBS



ROUGH-IN: SEE MOUNTING PLATE BELOW



ANSI/A112.18.1M

**FISHER**

FISHER MANUFACTURING COMPANY

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SPEC. 2980 REV. D



# Dimension 1200es

THINK IN 3D AND GIVE YOUR IDEAS NEW DIMENSION.

## Print large, durable 3D models right in your office.

See your designs come to life with the Dimension SST 1200es™ and BST 1200es 3D Printers. They turn 3D CAD files into functional, durable 3D models that you can not only discuss but test.

The large build capacity of Dimension 1200es 3D Printers gives you the room to print models at the size you need. And they're simple to operate: Just click "print" to prep the CAD file and print the model, then remove the support material to reveal your design in three dimensions.

## Bundle & Save

Order the Dimension 3D Print Pack and you'll get everything you need to start printing 3D models affordably – as soon as you unbox it.

You get a:

- Dimension 1200es SST 3D Printer
- SCA-1200 support removal system
- Startup supply of materials



LEARN MORE ABOUT DIMENSION 1200ES AT [STRATASYS.COM](http://STRATASYS.COM)



# Dimension 1200es

THINK IN 3D AND GIVE YOUR IDEAS NEW DIMENSION

## PRODUCT SPECIFICATIONS

### Model material:

ABSP<sub>plus</sub> in ivory, white, black, red, olive green, nectarine, fluorescent yellow, blue or gray

### Support material:

Soluble Support Technology (SST) or Breakaway Support Technology (BST)

### Build size:

254 x 254 x 305 mm (10 x 10 x 12 in)

### Layer thickness

.254 mm (.010 in) or .330 mm (.013 in) of precisely deposited ABSP<sub>plus</sub> model and support material

### Workstation compatibility:

Windows 10  
Windows 8.1  
Windows 8  
Windows 7  
Windows Vista

### Network connectivity:

Ethernet TCP/IP 10/100Base-T

### Size and weight:

838 x 737 x 1143 mm (33 x 29 x 45 in)  
148 kg (326 lbs)

### Power requirements:

110–120 VAC, 60 Hz, minimum 15A dedicated circuit; or 220–240 VAC 50/60 Hz, minimum 7A dedicated circuit

### Regulatory compliance:

CE/ETL

### Special facility requirements:

None

## PRINT 3D MODELS THAT ARE BIG, TOUGH AND FUNCTIONAL.

### Print models in production-grade thermoplastic.

Dimension 1200es 3D Printers use ABSP<sub>plus</sub><sup>TM</sup> modeling material, a production-grade thermoplastic that is durable enough to perform virtually the same as production parts. Models printed with Dimension 3D Printers have customer-proven toughness – from commercial sprayers tested at pressures up to 60 psi, to final parts on M1 tanks normally machined in aircraft-grade aluminum

### At the core of every model: FDM<sup>®</sup> Technology.

Stratasys FDM (Fused Deposition Modeling) technology is the foundation for all Dimension 3D Printers. Models are printed from the bottom up with precisely deposited layers of modeling and support material. There's no waiting for models to "cure" — they're ready for support removal right from the printer. The SST 1200es uses Soluble Support Technology which dissolves the supports in a water-based solution. The BST 1200es uses Breakaway Support Technology in which the supports are simply snapped off to reveal the final model. Then, models can be drilled, tapped, sanded and painted.

### A tool for today's fast-track product development.

You'll dramatically improve your product development process with Dimension 1200es 3D Printers. They print models that help you check form, fit and function, and correct errors, before your product goes into production. And they're versatile enough to produce functional models, molds, patterns, customized tools and fixtures. To shorten product development cycles and accelerate time-to-market, start with Dimension 1200es 3D Printers — and bring your ideas to life.

# stratasys<sup>®</sup>

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AMT-6030M (SHOWN WITH OPTIONAL SHELF &amp; CASTERS)



AMT-6030S



## PRODUCT

## Fab-Lab Workbench

## DESCRIPTION

Flexibility is the key component of this workbench. The bench is perfect for Makerspaces and Fab-Labs. It can be adjusted in height from 24"H to 34"H. Add the optional 5" locking casters and you'll add another 6" in height. The legs are 12 gauge steel and have 14 gauge stringers for strength and stability. The steel base is finished with a gray baked enamel finish. The static weight capacity is 2000 lbs. and the dynamic load is 500 lbs, proving just what a work horse this bench is! Need storage? Add the 14 gauge 12"D shelf. Choose from a 1-3/4 thick maple work surface or the 1-1/2" thick ShopTop®. The bench is 30"D and available in three lengths: 60"W, 72"W or 96"W.

ITEM #	PRODUCT	SIZE	TOP
AMT-6030S	Fab-Lab Workbench	60"W	ShopTop®
→ AMT-6030M	Fab-Lab Workbench	60"W	Maple
AMT-7230S	Fab-Lab Workbench	72"W	ShopTop®
AMT-7230M	Fab-Lab Workbench	72"W	Maple
AMT-9630S	Fab-Lab Workbench	96"W	ShopTop®
AMT-9630M	Fab-Lab Workbench	96"W	Maple
252208	Castors, Set of 4	N/A	N/A
252205	60"W Shelf for Workbench	N/A	N/A
252206	72"W Shelf for Workbench	N/A	N/A
252207	96"W Shelf for Workbench	N/A	N/A



- 1 Back Brace
- Made in the USA

View even more [Wire Shelving](#) from Lyon

Tags: [24 Inch Deep Shelving Units](#), [Shelving Units with 6 Shelves](#)

## DETAILS

Overall Dimensions	48"w x 24"d x 84"h
Number Of Levels	6
Capacity Per Level	350 lbs
Starter Or Add On	Starter

## DOWNLOADS

[Available Color Options](#)

[Assembly Instructions](#)

[T-Post Specifications](#)

[Shelf Weight Capacities](#)

## STANDARD FEATURES



- 1 Back Brace
- Made in the USA
- GREENGUARD Certified

View even more [8000 Series with Box W Shelves](#) from Lyon

Tags: [24 Inch Deep Shelving Units](#), [Shelving Units with 5 Shelves](#)

## DETAILS

Overall Dimensions	36"w x 24"d x 84"h
Number Of Levels	5
Capacity Per Level	600 lbs
Shelf Gauge	22
Starter Or Add On	Starter

## DOWNLOADS

[Available Color Options](#)

[Assembly Instructions](#)

[T-Post Specifications](#)

[Shelf Weight Capacities](#)



# MACH<sup>TM</sup>SERIES

MOBILE COLUMN LIFTS



POWERED BY

**RedFire**

ROTARY LIFT  
THE WORLD'S MOST TRUSTED LIFT



Shown: MCHF419U1A00 / Wireless remote-controlled model

[www.rotarylif.com](http://www.rotarylif.com)



# MACH™ SERIES

## MOBILE COLUMN LIFTS

**Keep your bays productive, your revenue streaming and your trucks back on the road.**

**Productivity is the key for any shop** and reliable Rotary lifts are packed with features that help your technicians get vehicles up on the lift and back on the road faster and easier than anyone else. Rotary's **NEW MACH FLEX** lifts powered by **Red Fire** are the industry's ultimate mobile column lifting system. Versatile, wireless **MACH FLEX** lifts are an easy to operate **remote-controlled system** with an increased lifting capacity. The hand-held remote shortens our already fast set up time giving you the mobility to make repairs anywhere in your shop while moving around the vehicle during operation.

### MACH SERIES features:

- Wireless columns communicate without cables increasing technician set up times.  
(MCHFLEX19 / MCHFLEX14 / MCHW18 models)
- Exclusive column control console allows the lift to be fully controlled from any column.  
(MCHW18 / MCH18 / MCH13 models)
- DC battery power creates the fastest lift cycle times while requiring no power cords creating an open work area free of interference.
- Direct hydraulic cylinder lifting. The cylinder and chrome piston rod is protected inside the carriage from debris and damage. No required monthly maintenance.
- The exclusive automatic steering and braking system requires no manual operation saving time on every set up.
- Lifts and components are cycle tested for at least 20,000 cycles **at rated load**, giving you a robust, proven and quality tested lift that won't let you down.
- The MACH system remembers its location and channel reading - no need to reconfigure columns.

### Environmentally-friendly:

- Surface mounted and portable - no excavation or site prep
- Battery operated with an onboard 110v charger
- Optional high efficiency LED lighting saves electricity
- Compatible with all bio fluid hydraulic oils
- More than 98% recyclable

**Trusted MACH Series lifts are gold certified** and meet the ANSI/ALI ALCTV 2011 standard, including the required third party validation.



Shown: MCHW618U100  
Wireless model shown with optional cord reels  
**108,000 lbs. CAPACITY**

## Rotary DESIGN ADVANTAGE

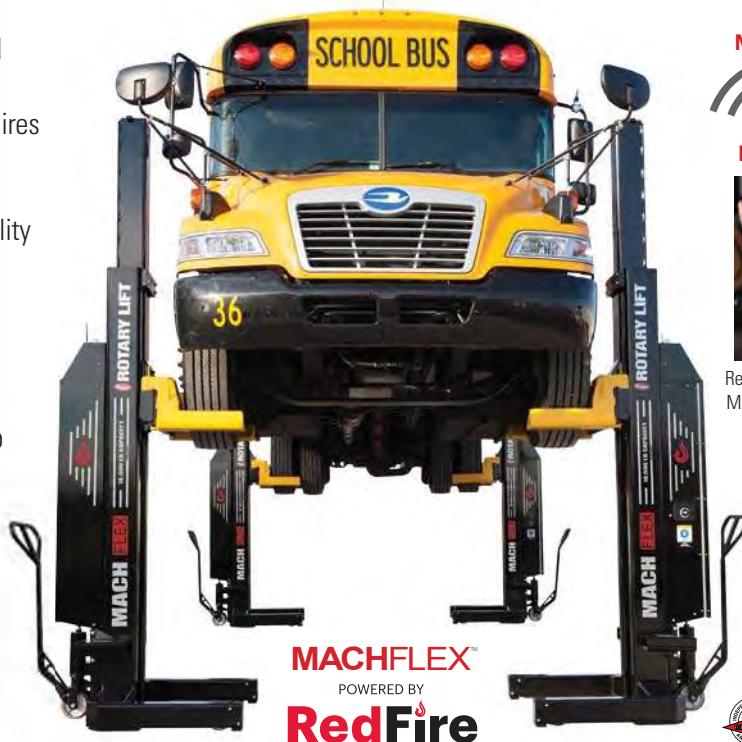
### PRODUCTIVITY & PERFORMANCE

**Faster** set-up times and lifting speed beats the competitor hands down!

**Easier** with fewer steps required by the technician to put the lift in service!

**Safer** with adjustable forks for different wheel sizes - lift with confidence!

**Two, four, six or eight column sets** with a capacity range of 13,000 lbs to over 150,000 lbs!



Remote-controlled MACH FLEX LIFTS

**MACHFLEX™**  
POWERED BY  
**RedFire**



Shown: MCHF419U1A00 / Remote-controlled model  
**75,200 lbs. CAPACITY**

## Government agencies, municipalities, truck repair centers and commercial fleets all find what they need in Rotary mobile lifts.

*"We wanted a product that was worth the cost and easy to use and supported our core value of safety. What we found with the Rotary lift system is that it **helped reduce the number of knee injuries, back injuries and hand injuries**. We did a time study on the drive line repairs and compared that to other shops that were not using the Rotary Lift system and **we found a 10 to 15% difference in cycle times**."*

- **James Enright**, Regional Maintenance Director  
Schneider National



*"Clovis Unified School District purchased the MACH Wireless Lift System and have used these lifts continuously on our bus fleet. **The combination of ease of setup, maneuverability, and speed have greatly increased the production in our shop. We own other wireless lifts and they do not compare.** These lifts are much more user-friendly and combined with the corded feature, we are always assured that we will not be left up in the air. Utilizing these in a bay that was not originally equipped with an in-ground lift system has made what was once dead space, efficient space."*

- **Lee A. Peterson**, Manager, Vehicle Maintenance  
Clovis Unified School District

*"After extensive testing of multiple mobile column lifts, I chose the Rotary MACH4 as **having the most advanced design, most options and ease of relocating being the best choice** for the city. After receiving the lifts, **Rotary's customer service and local distributor experience was exceptional.** Not only did they answer my questions, but they went above & beyond in addressing any issues I had with the lifts. **Between the product and the company, you can't go wrong.**"*

- **Daniel S. Corbin**, Fleet Operations Manager  
Town of Summerville, South Carolina

## ROTARY MOBILE COLUMN LIFTS INCREASE TECH PRODUCTIVITY SAVING YOUR FACILITY TIME AND INCREASING YOUR BOTTOM LINE.

### EX: ANNUAL LABOR SAVINGS CALCULATION

- 1** Cost Per Labor Hour: **\$75.00**
- 2** Required Hours For Typical RO: **5**  
Time Savings with a MACH Lift: **15%**  
Labor Savings Per RO: **\$112.50**
- 3** Monthly ROs Per Bay Per Month: **20**  
Hours Saved / Month: **15**  
Monthly Labor Cost Savings / Lift: **\$1,125**
- 4** How Many Bays? **8**

Time Savings  
Per RO:  
**.75 Hours**

Hours Saved  
Per Year:  
**180 Hours**

Annual Labor Cost  
Savings Per Lift:  
**\$13,500.00**

**ANNUAL POTENTIAL  
LABOR SAVINGS OF \$108,000**



**SCAN THIS CODE TO CALCULATE YOUR  
TOTAL POTENTIAL LABOR SAVINGS!**

[www.rotarylif.com/LIFTS/Mobile-Columns/](http://www.rotarylif.com/LIFTS/Mobile-Columns/)



# MACHFLEX™ WIRELESS MOBILE COLUMN LIFT WITH INCREASED COLUMN CAPACITY

**FASTER, EASIER, MORE POWERFUL**  
MACH FLEX™ powered by RedFire gives you  
unmatched lifting versatility, mobility and flexibility!

**REMOTE CONTROL TECHNOLOGY** with  
exclusive software means **FASTER SETUP**  
and **EASY OPERATION**.

Remote-controlled system gives you the mobility to make service repairs anywhere in your shop while technicians follow control commands. Not waiting at each column to sync before moving to the next column saves critical set up time on every lift. Remote control auto detects and connects when communicating to the columns. Handheld controls allows user to move around vehicle and observe the entire bay during operation.



NO CABLES



NO CORDS

**New industrial grade controller** shows each lift column with yellow indicator light while pairing, and green light once columns are ready to go.

**Controller includes:**

- On/off power button
- Info screen
- 2-speed joystick control for up /down movement
- Single lower-to-lock button
- E-stop control
- Remote battery indicator
- Convenient auto resume
- Press Protect™ eliminates accidental button presses and preserves battery life
- Audible warning when operator is getting out of operational range



**TILE™ TECHNOLOGY COMPATIBLE**

Controller is compatible with this commercially available application which helps locate and recover a missing remote.



**MACHFLEX™**  
POWERED BY  
**RedFire**



Shown: MCHF419U1A00 / Remote-controlled model

**75,200 lbs. CAPACITY**

35

**The NEW MACH FLEX includes these standard features:**

- Column capacities at 18,800 lbs. and 14,000 lbs.
- Ergonomic wireless hand-held remote control
- 99 system IDs to eliminate communication interference
- Software upgrades can be made wirelessly
- Height and weight digital display gauge displays

**1 BATTERY OPERATED WITH ON-BOARD CHARGER**

During lift use, there are no power cords to clutter up the service bay.

Batteries purchased separately for international use

**2 PROTECTED HYDRAULIC CYLINDER ROD**

The hydraulic cylinder is inverted inside the carriage and the chrome piston rod is protected from debris and damage. This extends the life of the column and reduces maintenance frequency and cost.

**3 EASY TO MOVE ADJUSTABLE FORKS**

Improves set up time without the need to install reducer sleeves - adjustment range: 9.25" to 22"

**4 SPRING LOADED STEERING AND BRAKING SYSTEM**

No need to manually operate the jacks to raise and move columns saving set up time. Prevents movement on sloped floors.

**5 FORKLIFT POCKETS**

Provides a fast and convenient way to relocate columns within your shop.

**6 TOUGH RUBBER-COATED STEEL WHEELS**

Easily roll over dirt and debris that can jolt other lifts to a stop - wheels automatically retract under load

**7 LOCK LIGHT™ LOCK INDICATOR**

Rotary's exclusive LockLight indicates when a column is on it's mechanical safety locks.

**8 UPDATED SINGLE COLUMN CONTROLS**

Easy to use control panels on the columns include a large information screen.



Industrial control buttons for the toughest shop environments.

**MCH14FLEX**

14,000 lbs. capacity column



Shown: MCHF214U1A00

**MCH19FLEX**

18,800 lbs. capacity column



Shown: MCHF219U1A00

**MCHFLEX / 18,800 lb. / 14,000 lb. COLUMN CAPACITIES**

MOBILE LIFT	MCHF419	MCHF619	MCHF414	MCHF614
Column configuration*	4	6	4	6
Capacity per set	75,200 lbs.	112,800 lbs.	56,000 lbs.	84,000 lbs.
Rise	70" (1778 mm)		69" (1760 mm)	
Column width	45.5" (1156 mm)		43" (1092 mm)	
Wheel Rim Size	9"to 24" (228 to 610 mm)			
Clearance from fork to column	10" (254 mm)			
Speed of rise	78 seconds		68 seconds	
Charging voltage	110v charger** (2.5 amps max.)			

\* Two, four, six and eight column configurations are available. See accessories page for 2-column lifting kits.

\*\* Call factory for alternate voltage

Height of unit is **8'-6"** per mfr. Revit model  
<https://market.bimsmith.com/product/Rotary-Lift/revit-bim-MCHF14-FLEX-Mobile-Lifting-System-3214>

# MCHW18 WIRELESS MOBILE COLUMN LIFT

18,000 LBS. COLUMN CAPACITY

Rotary's versatile MCHW18 Wireless mobile column lift gives you the power and mobility to make your repairs anywhere in your shop.

### EXCLUSIVE WIRELESS OPERATION BENEFITS:

**Wireless column communication** eliminates communication cables creating a faster setup reducing technicians' setup time by 75%.

**Position memory** - no need to configure columns for each lifting cycle...set it and forget it.

**Automatically re-establishes communication** between columns if signal is dropped - no need to reset communication errors.

**On-board diagnostics** with easy-to-read LEDs.

**Forward compatible / programmable** with quick, easy software updates  
- retrofit older non-wireless MCH18 units.

### WIRED MODELS FEATURE

#### RETRACTABLE CORD REELS

With quick lock connections providing easy one-handed connectivity between columns, don't waste time handling cables every time you use the lift.

**STANDARD ON WIRED UNITS**



#### INNOVATIVE HORSESHOE WIRING

While other mobile column lifts are connected by four cables, the wired MACH columns use just three (forming a horseshoe), so the front or back of the lift is always open. Vehicles can be driven in and out of the bay without having to disconnect and reconnect cables.

#### AC POWERED LIFT OPTION

Operate your mobile lifting system without the use of batteries.  
*Consult factory representative for details.*



ENVIRONMENTALLY-FRIENDLY



Shown: MCHW618U100 / Wireless model shown with optional cord reels

**108,000 lbs. CAPACITY**

## MCHW18 FEATURES

**Two, four, six or eight column configurations can accommodate heavy duty trucks up to 144,000 pounds!**

### 1 BATTERY OPERATED WITH ON-BOARD CHARGER

During lift use, there are no power cords to clutter up the service bay.

Batteries purchased separately for international use

### 2 PROTECTED HYDRAULIC CYLINDER ROD

The hydraulic cylinder is inverted inside the carriage and the chrome piston rod is protected from debris and damage. This extends the life of the column and reduces maintenance frequency and cost

### 3 WIRELESS COLUMN COMMUNICATION

### 4 EASY TO MOVE ADJUSTABLE FORKS

Improves set up time without the need for reducer sleeves - adjustment range: 9.25" to 22"

### 5 SPRING LOADED STEERING AND BRAKING SYSTEM

No need to manually operate a pallet jack to move the columns  
- saves precious time *every time you move*

### 6 FORKLIFT POCKETS

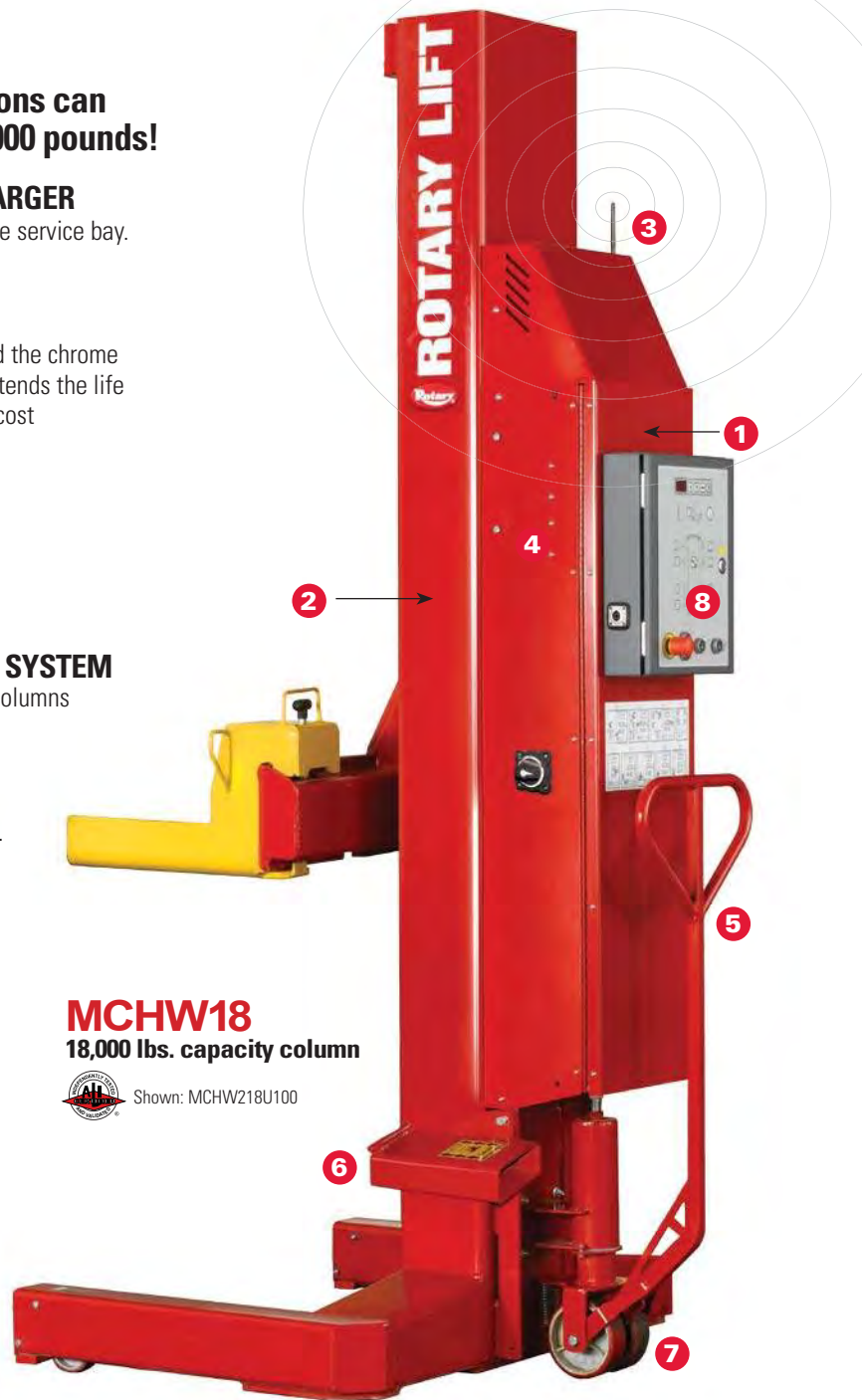
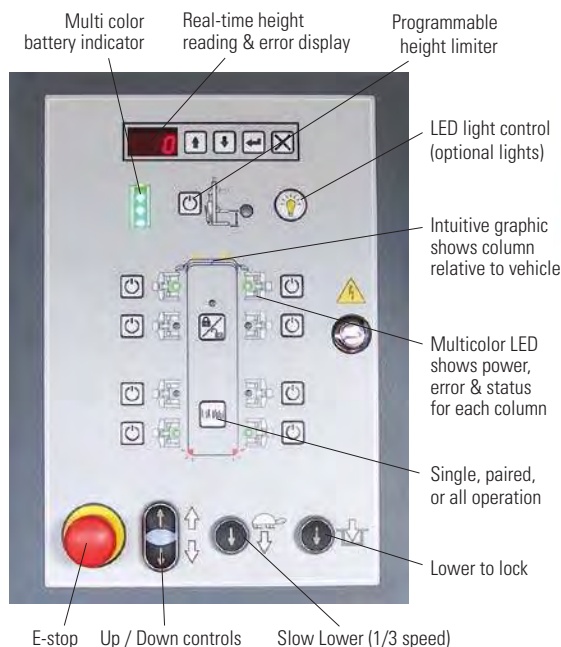
Provides a fast and convenient way to relocate columns.

### 7 TOUGH RUBBER-COATED STEEL WHEELS

Easily roll over dirt and debris that can jolt other lifts to a stop - wheels automatically retract under load

### 8 INTUITIVE CONTROL CONSOLE

Rotary's exclusive control console allows the lift to be fully controlled from any column



## MCHW18 18,000 lbs. capacity column

Shown: MCHW218U100

## MCHW18 / 18,000 lb. COLUMN CAPACITY

MOBILE LIFT	MCHW418	MCHW618	MCHW818
Column configuration*	4	6	8
Capacity per set	72,000 lbs.	108,000 lbs.	144,000 lbs.
Rise	70" (1778 mm)		
Column width	45.5" (1156 mm)		
Wheel Rim Size	9" to 24" (228 to 610 mm)		
Clearance from fork to column	10" (254 mm)		
Speed of rise	78 seconds		
Charging voltage	110v charger* (2.5 amps max.)		

\* Two, four, six and eight column configurations are available. See accessories page for 2-column lifting kits.

\*\*Call factory for alternate charging voltage / Contact factory for wired model specifications

# MCH13 WIRED MOBILE COLUMN LIFT

## 13,000 LBS. COLUMN CAPACITY

Two, four, six or eight column configurations can accommodate heavy duty trucks up to 104,000 pounds!

**MACH13 mobile column lifts give you the option of not being tied to a bay. Easy to use design gives techs the option to control lift from any column.**

Boasting most of the same great features as the MCH18, this wired mobile lift is the perfect combination of capacity, features and value. Lift trucks and light duty vehicles with speed and ease.



Shown: MCH413U1A00  
**52,000 lbs. CAPACITY**

### MCH13 WIRED FEATURES

#### 1 BATTERY OPERATED WITH INTERNAL CHARGER AND LIGHTED STATUS DISPLAY

During use, there are no power cords improving portability.

#### 2 PROTECTED HYDRAULIC CYLINDER ROD

The hydraulic cylinder is inverted inside the carriage and the chrome piston rod is protected from debris and damage. This extends the life of the column and reduce maintenance frequency and cost

#### 3 SPRING-LOADED STEERING / BRAKING SYSTEM

No need to manually operate a pallet jack up to move the columns in and out saving time on every set up. Rubber-coated steering wheels easily roll over dirt and debris.

#### 4 EASY TO MOVE ADJUSTABLE FORKS

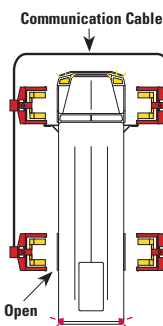
Improves set up time without the need for reducer sleeves. Adjustment range is 6.3" to 23.6" to accommodate approximate wheel rim sizes of 9" to 24".

#### 5 FORKLIFT POCKETS

Provides a fast and convenient way to relocate columns within your shop.

#### 6 QUICK CONNECT CABLES / HORSESHOE WIRING

Included with the lift, these lightweight and easy to connect cables are 33 feet long. While other mobile column lifts are connected by four cables, the wired MACH Series columns use just three (forming a horseshoe), so the front or back of the lift is always open. Vehicles can be driven in and out of the bay without wasting time to disconnect and reconnect cables.



#### 7 INTUITIVE CONTROL CONSOLE

Rotary's exclusive control console allows the lift to be fully controlled from any column. Exclusive featured equipment for both MCH18 and MCH13 series lifts.



Shown: MCH213U1A00

### MCH13 / 13,000 lb. COLUMN CAPACITY

MOBILE LIFT	MCH413	MCH613	MCH813
Column configuration*	4	6	8
Capacity per set	52,000 lbs.	78,000 lbs.	104,000 lbs.
Rise	69" (1760 mm)		
Column width	43" (1092 mm)		
Wheel Rim Size	9" to 24" (228 to 610 mm)		
Clearance from fork to column	10" (254 mm)		
Speed of rise	68 seconds		
Charging voltage	110v - 240v / 50/60Hz charger		

\* Two, four, six and eight column configurations are available. See accessories page for 2-column lifting kits.

# MACH4<sup>TM</sup> PLUS RUNWAY LIFTING SYSTEMS

## 36,000 / 50,000 / 60,000lbs. CAPACITIES

*Convert your MCH18 or MCH13  
SERIES lifts into a heavy duty  
drive-on lift for vehicle  
inspection and service!*



Shown: MCH418U100 with  
M140015 runway system attached  
Shown with optional cord reels

**60,000 lbs. CAPACITY**



BATTERY  
OPERATED



ENVIRONMENTALLY  
FRIENDLY

### MACH4 PLUS FEATURES

**Super fast battery operation** No power? No problem.

**Drive on runways** accommodate wheelbases up to 33' (396")

**Fully hydraulic operation** with low electrical usage and controls at all 4 columns

**Fewer moving parts** - no cables or sheaves to maintain equals less maintenance and wear

**Internal airlines** included for optional rolling jacks and air tools

### OPTIONAL ROLLING BRIDGE JACKS

Air operated rolling  
bridge jacks can be  
attached to the  
runways creating  
additional lifting  
options to make  
these lifts  
even more  
versatile.



#### FOR 36,000 lbs. CAPACITY LIFTS

#RJ140LBK - 14,000 lbs. capacity jack

#RJ22001LBK - 22,000 lbs. capacity jack

#### FOR 50,000 lbs. / 60,000 lbs. CAPACITY LIFTS

#RJ25001L - 25,000 lbs. capacity jack

#RJ30001L - 30,000 lbs. capacity jack

### MACH4 PLUS HEAVY-DUTY DRIVE-ON RUNWAYS

Lifting Capacity	35,900 lbs. (16,283kg) †	50,000 lbs. (22679kg) ††	60,000 lbs. (27215kg) ††
Maximum Wheelbase	25' (300" / 7,620mm)* 30' (360" / 9,144mm)*	28' (336" / 8534mm) **	33' (396" / 10058mm)**
Max. Rise / Floor to top of runway	79" (2,007mm)	78" (1981mm)	78" (1981mm)
Length Overall	33' 11-3/4" (10,358mm) 38' 11-3/4" (11,882mm)	35' 7-1/2" (10858mm)	40' 7-1/2" (12382mm)
Width Overall - outside controls	16' 3-3/8" (4963mm)	15' 11" (4851mm)	15' 11" (4851mm)
Height of Columns when raised	89" (2260mm)	144 - 3/4" (3677mm)	144 - 3/4" (3677mm)
Width of Runways	28" (711mm)	28" (711mm)	28" (711mm)
Drive Thru Between Columns	12'-4" (3607mm)	11'-10" (3607mm)	11'-10" (3607mm)
Runway Spacing	45" (1143mm)	45" (1143mm)	45" (1143mm)
Rise Time	68 seconds	78 seconds	78 seconds
Ramp Angle	7 degrees	10 degrees	10 degrees
Power Usage	Battery powered Charges on 110V	Battery powered Charges on 110V	Battery powered Charges on 110V

†WITH MCH13 SERIES LIFTS ††WITH MCH18 SERIES LIFTS

\*BOTH 25' AND 30' RUNWAY LENGTH MODELS ARE AVAILABLE AS 35,900 LBS. CAPACITY LIFTS.

\*\*BOTH 28' AND 33' RUNWAY LENGTH MODELS ARE AVAILABLE AS 50,000 AND 60,000 LBS. CAPACITY LIFTS

# PORTABLE CROSS BEAM KITS

21,000 lbs. to 32,000 lbs. CAPACITIES

## M140070

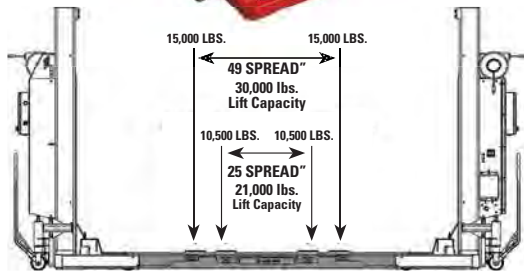
### LOW PROFILE CROSS BEAM KIT

30,000 / 21,000 lbs. CAPACITIES

SUPPLIED WITH TWO (2) SUPPORT BLOCKS PER BEAM



Shown: MCH418U100



30,000 lbs. at 49" adapter spread / 15,000 LBS. per adapter  
21,000 lbs. at 25" adapter spread / 10,500 LBS. per adapter

**ALI THIRD-PARTY GOLD CERTIFIED**

## FRAME ENGAGING CROSS BEAM KITS

Pick up buses, RVs and more with wheels-free, frame-engaging cross beam kits. Beam vehicle spotting allows technicians to service wheels and tires with ease.

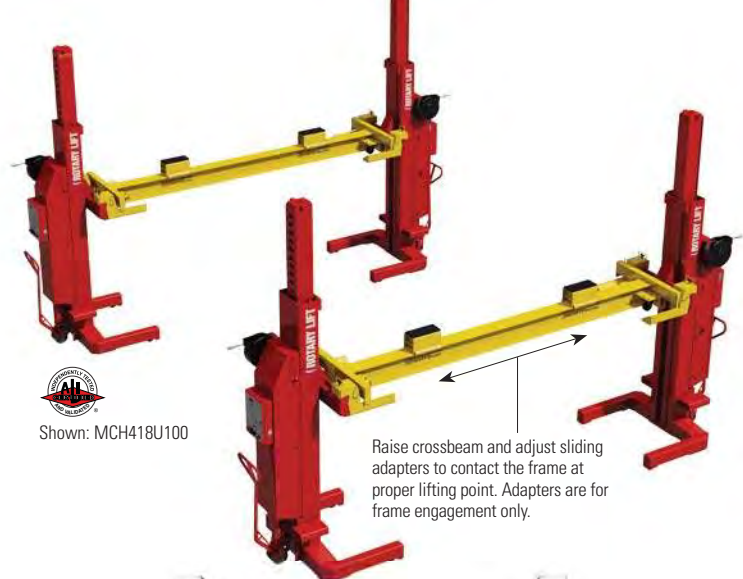
**FOR USE WITH MODELS THAT HAVE A COLUMN CAPACITY OF 18,000 LBS. OR GREATER.**

## ML41

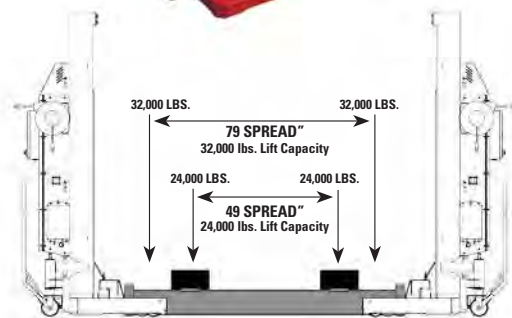
### SADDLE CROSS BEAM KIT

32,000 / 24,000 lbs. CAPACITIES

SUPPLIED WITH TWO (2) SUPPORT BLOCKS PER BEAM



Shown: MCH418U100



32,000 lbs. at 79" adapter spread / 16,000 LBS. per adapter  
24,000 lbs. at 49" adapter spread / 12,000 LBS. per adapter

**ALI THIRD-PARTY GOLD CERTIFIED**



Shown: M140070 low profile cross beam with optional jack stands

ALSO AVAILABLE

## FD2353KIT

### RAMP STYLE CROSS BEAM KIT FOR RV SERVICE

**FOR USE WITH MODELS THAT HAVE A COLUMN CAPACITY OF 18,000 LBS. OR GREATER.**

**22,000 lbs. CAPACITY**

**FRAME ENGAGING LIFTING KITS**

Fore and aft, frame-engaging end lift enables lifting by the front and rear of the vehicle using stacking adapters. For use with two MCH18 or MCH13 series columns.



**SERVICE TWO VEHICLES AT ONCE  
USING A SINGLE SET OF 4 COLUMNS!**

#M140005 / **15,000 lbs. capacity**

**MCH18 FRAME-ENGAGING LIFTING KIT**

For use with two MCH18 series columns only.

#M140079 / **12,000 lbs. capacity**

**MCH13 FRAME-ENGAGING LIFTING KIT**

For use with two MCH13 series columns only.

**STORAGE CART  
FOR LIFTING KITS**

#M110108BK

Cart for fore and aft lifting kits. For storing and moving kits.

**JACK STANDS**

**Always use jack stands when installing or removing heavy components.**

Spring loaded caster wheels for easy positioning and portability. Height adjustment in 1" increments with 4" fine-tuning. All jack stands meet the required ASME PASE-2014 requirements for portable service equipment.

**18,000 lbs. and 36,000 lbs. CAPACITIES**

**MW-500 TIRE LIFT**

500 lbs. capacity air operated tire and wheel lift. Provides maneuverability and adjustable lifting and lowering speeds. Reduces risk of shoulder and back injuries while limiting potential worker's comp claims.

- Quick transfers to tire balancers
- Air operated - no batteries
- Easy positioning of the tire / wheel
- Air hose and auxiliary air tool connection
- Includes pressure regulator

**MW-200**

200 lbs. capacity model available

**MCH18 FORK LIFT KIT**

Make servicing fork lifts easy using two MCH18 columns. Kit readily attaches to the base of the column giving the clearance needed to raise Class II fork lifts with a capacity of 18,000 lbs. Drive-on / back-off operation.

Column lifts shown with M14012YRD Forklift Ramp Kit 18,000 lbs. capacity

**EXTENDED FORK KITS**

Longer forks and support legs available to support inboard tires on dual-wheeled axles. Also for use with M140004 forklift ramp kit and M140005 truck frame kit. For use on the MCH18 Series only.

22" Forks and 8" Legs: #M140001RD

20" Forks and 6" Legs: #M140041RD



Shown: M140001

**LED LIGHTING**

High-efficiency service lamps with single touch operation provide convenient hands-free lighting from the lift's control panel. Operates on the column's battery power.



Shown: M140148BK

**OPTIONAL WEIGHT GAUGE**

Know what you are lifting instantly with this column gauge. These gauges approximate the weight being lifted by one column - converting pressure into a weight.

#M140019RD / Analog gauge for MCH18

#M140041RD / Analog gauge for MCH13



Shown: M140019RD

**LARGE WHEEL KIT**

Larger tires are raised on ramps to allow for proper fork placement. MCH18 and MCH13 approved.



Shown: M120304

**LOCK LIGHT™**

Featured on each column, light indicates when lift is set on its locks. (PATENT PENDING)

#M140112 / DC versions for MCH18/ MCH13

#M140115 / For AC mobile columns and MCH columns with installed pressure gauges





## CLASS 1

Under 6,000 lbs. GVW



## CLASS 2

6,001 to 10,000 lbs. GVW



### CLASS 3

10,001 to 14,000 lbs. GVW



### CLASS 4

14,001 to 16,000 lbs. GVW



**CLASS 5**

16,001 to 19,500 lbs. GVW



**CLASS 6**

19,501 to 26,000 lbs. GVW



**CLASS 7**

26,001 to 33,000 lbs. GVW



## CLASS 8

33,001 lbs. and over GVW

[illegible]

## Assistance for Government Purchasing

Government Sales: 800.445.5438 X5655



Lit# MACH SERIES\_HD Brochure\_2017.07 (SUPERSEDES Lit# MACH SERIES\_HD Brochure\_2016.02)  
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Corporation and its affiliates.

MACH Series lifts are manufactured using the following patents: US Patent No. 6983196 / US Patent No. 8083034



## Rotary Lift

2700 Lanier Drive  
Madison, IN 47250, USA



### North / South America Contact Information

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e [userlink@rotarylift.com](mailto:userlink@rotarylift.com)  
Tech. Support: p 800.445.5438  
e [techlink@rotarylift.com](mailto:techlink@rotarylift.com)

## Global Contact Information

USA: 1.812.273.1622  
Canada: 1.905.812.9920  
Latin America / Caribbean: 1.812.273.1622  
Brazil: +55.11.4534.1995

For additional world wide contact information and a complete guide to our product offering, visit us on the web at **rotarylift.com**.

Our customers say they choose us for:

LOW PRICES

36

# Canon ImageRunner Advance C5535i II Color Copier

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SPECS



Model No.:0605C039AA

Condition:New

Availability: In Stock

Shipping:Ask About Free Shipping!

The Canon ImageRunner Advance C5535i II Copier will print, copy, scan and has a fax option. The Canon C5535i features 35 ppm print speed, 1200 dpi resolution, various finishing options, mobile printing and a 10.1" intuitive touchscreen. With My ADVANCE, the ImageRunner C5535i will give you a unique experience tailored to your individual preferences.

Quantity:

\$5490.00

Add To Cart

\*\*\* All options and supplies in stock, please call 888.298.3095 to speak to a customer representative.

\$151 / mo

## Product Details

## Specifications

## Accessories

## Reviews

## Product Details

## Specifications

MAIN UNIT  
TYPE

CORE FUNCTIONS

PROCESSOR

CONTROL PANEL

MEMORY

HARD DISK DRIVE

Color Laser Multifunctional  
Standard: Print, Copy, Scan, Send, Store  
Optional: Fax  
Canon Dual Custom Processor (Shared)  
10.1" TFT LCD WSVGA Color Flat-panel  
4.0 GB RAM  
Standard: 250 GB  
Maximum: 1 TB

**MIRRORING HARD DISK DRIVE**

Optional: (250 GB, 1 TB)

Method: Raid1

Network: 1000Base-T/100Base-TX/10Base-T, Wireless LAN (IEEE 802.11 b/g/n)

**INTERFACE CONNECTION**

Others

Standard: USB 2.0 x2 (Host), USB 3.0 x1 (Host), USB 2.0 x1 (Device)

Optional: Serial Interface, Copy Control Interface

**PAPER CAPACITY (LTR, 20LB BOND)**

Standard: 1,200 Sheets

Maximum: 6,350 Sheets

Standard: Dual 550-sheet Paper Cassettes, 100-sheet Stack Bypass

**PAPER SOURCES (LTR, 20LB BOND)**

Optional: Dual 550-sheet Paper Cassettes (CASSETTE FEEDING

UNIT-AM1), 2,450-sheet High-Capacity Paper Cassette (HIGH CAPACITY CASSETTE FEEDING UNIT-A1), 2,700-sheet Paper Deck (PAPER DECK UNIT-F1)

**PAPER OUTPUT CAPACITY (LTR, 20LB BOND)**

Standard: 250 Sheets

Maximum: 3,450 Sheets (with External Finisher and Copy Tray)

Standard: Collate, Group

**FINISHING CAPABILITIES**

With Inner Finisher: Collate, Group, Offset, Staple, Hole Punch, Staple-Free Staple, Staple On Demand

With External Finishers: Collate, Group, Offset, Staple, Booklet, Hole Punch, Staple-Free Staple, Staple On Demand

Paper Cassettes (1/2): Thin, Plain, Recycled, Color, Heavy, Pre-punched, Letterhead, Bond, Transparency, Tab, Envelope

Stack Bypass: Thin, Plain, Recycled, Color, Heavy, Pre-punched, Labels, Letterhead, Bond, Coated, Transparency, Tab, Tracing, 1 Envelope

**SUPPORTED MEDIA TYPES**

CASSETTE FEEDING UNIT-AM1: Thin, Plain, Recycled, Color, Heavy, Pre-punched, Letterhead, Bond, Transparency

HIGH CAPACITY CASSETTE FEEDING UNIT-A1: Thin, Plain, Recycled, Color, Heavy, Pre-punched, Letterhead, Bond

PAPER DECK UNIT-F1: Thin, Plain, Recycled, Color, Heavy, Pre-punched, Letterhead, Bond

Paper Cassette 1: Letter, Executive, Statement-R, Envelope [No.10 (COM10), DL, ISO-C5], Custom Size (3-7/8" x 5-7/8" to 11-3/4" x 8-1/2")

Paper Cassette 2: 12" x 18", 11" x 17", Legal, Letter, Letter-R, Executive, Statement-R, Envelope [No.10 (COM10), Monarch, DL, ISO-C5], Custom Size (3-7/8" x 7-1/8" to 12" x 18")

Stack Bypass: 12" x 18", 11" x 17", Legal, Letter, Letter-R, Executive, Statement, Statement-R, Envelope [No.10 (COM10), Monarch, DL, ISO-C5], Envelope Custom Size (3-7/8" x 3-7/8" to 12-5/8" x 18"), Custom Size (3-7/8" x 5-1/2" to 12-5/8" x 18"), Free Size (3-7/8" x 5-1/2" to 12-5/8" x 18")

CASSETTE FEEDING UNIT-AM1: 12" x 18", 11" x 17", Legal, Letter, Letter-R, Executive, Statement-R, Custom Size (3-7/8" x 7-1/8" to 12" x 18")

HIGH CAPACITY CASSETTE FEEDING UNIT-A1: Letter

PAPER DECK UNIT-F1: Letter

**SUPPORTED MEDIA WEIGHTS**

Cassettes: 14 lb. Bond to 140 lb. Index (52 to 256 g/m2)

Stack Bypass: 14 lb. Bond to 110 lb. Cover (52 to 300 g/m2)

Duplexing: 14 lb. Bond to 80 lb. Cover (52 to 220 g/m2)

**WARM-UP TIME**

From Power On: 30 Seconds

From Sleep Mode: 10 Seconds

Quick Startup Mode: 4 Seconds2

**DIMENSIONS (W X D X H)**

24-3/8" x 29-1/4" x 37-3/8"(620 mm x 742 mm x 950 mm)3

**INSTALLATION SPACE (WxD)**

Basic: Stack Bypass + Cassette drawers open: 37-1/8" x 46-3/8" (943 mm x 1,176 mm)3

**WEIGHT**

Approx. 313.1 lb. (142 kg)4

**PRINT SPECIFICATIONS****PRINT SPEED (BW and Color)**

Up to 35 ppm (Letter)

Up to 23 ppm (Letter-R)

Up to 21 ppm (Legal)

Up to 18 ppm (11" x 17")

**PRINT RESOLUTION**

1200 dpi x 1200 dpi, 600 dpi x 600 dpi

**STANDARD PAGE DESCRIPTION LANGUAGES**

UFR II, PCL®6, Adobe® PS® 3

**DIRECT PRINT**

Available from USB, Advanced Box, Remote UI, and Web Access5

**SUPPORTED FILE TYPES**

PDF, TIFF, JPEG, EPS, 6 XPS

**PRINTING FROM MOBILE AND CLOUD**

A range of software and MEAP-based solutions are available to provide printing from mobile devices or Internet-connected devices and cloud-based services depending on your requirements.

**FONTS**

PCL fonts: 93 Roman, 10 Bitmap fonts, 2 OCR fonts, Andalé Mono WT J/K/S/T (Japanese, Korean, Simplified and Traditional Chinese), 7 Barcode Fonts<sup>8</sup>  
PS fonts: 136 Roman

**OPERATING SYSTEM9**

UFR II: Server 2003/Server 2003 R2/Windows Vista®/Server 2008/Windows® 7/Server 2008 R2/Windows 8/Server 2012/Windows 8.1/Server 2012 R2/Windows 10, MAC OS X (10.6.8 or later)  
PCL: Server 2003/Server 2003 R2/Windows Vista/Server 2008/Windows 7/Server 2008 R2/Windows 8/Server 2012/Windows 8.1/Server 2012 R2/Windows 10  
PS: Server 2003/Server 2003 R2/Windows Vista/Server 2008/Windows 7/Server 2008 R2/Windows 8/Server 2012/Windows 8.1/Server 2012 R2/Windows 10, MAC OS X (10.6.8 or later)

**PRINT FEATURES**

Suspend Job Timeout, Subset Finishing (PS only), Profile Settings, Secured Print, Forced Hold Printing, Watermark, Page Border, Header/Footer, Page Layout, Two-sided Printing, Collating, Booklet Printing, Grouping, Mixed Paper Sizes/Orientations, Offsetting, Printing on Transparencies, Front/Back Covers, Toner Reduction, Poster Printing

**COPY SPECIFICATIONS****COPY SPEED (BW and Color)**

Up to 35 ppm (Letter)  
Up to 23 ppm (Letter-R)  
Up to 21 ppm (Legal)  
Up to 18 ppm (11" x 17")

**FIRST-COPY-OUT-TIME**

As fast as 4.9 seconds (BW)/ 7.4 seconds (Color)

**COPY RESOLUTION**

Reading: 600 dpi x 600 dpi  
Printing: 1200 dpi x 1200 dpi

**MULTIPLE COPIES**

Up to 9,999 copies

**COPY EXPOSURE**

Up to 9,999 copies

**MAGNIFICATION**

25%-400% (1% Increments)

**PRESET REDUCTIONS**

25%, 50%, 64%, 73%, 78%

**PRESET ENLARGEMENTS**

121%, 129%, 200%, 400%

**BASIC COPY FEATURES**

Preset Reduction/Enlargement Ratios by Area, Paper Setting, Previous Settings, Favorite Settings, Finishing, Two-Sided, Density Adjustment, Original Type Selection, Interrupt Mode, Setting Confirmation/Cancel Book to Two Pages, Two-sided Original, Finishing, Booklet, Job Build, N on 1, Add Cover, Insert Sheets, Different Size Originals, Density Adjustment, Original Type Selection, Transparency Cover Sheets, Page Numbering, Copy Set Numbering, Sharpness, Erase Frame, Secure Watermark, Print Date, Shift, Gutter, Print & Check, Negative/Positive, Repeat Images, Merge Job Blocks, Job Done Notice, Mirror Image, Print on Tab, Store in Mail Box, Superimpose Image, Copy ID Card, Detect Feeder Multi Sheet Feed, Free Size Original, Color Balance, Adjust One-Touch Color, Area Designation

**SPECIAL COPY FEATURES****SCAN SPECIFICATIONS****TYPE**

Color Platen and Single-pass Duplexing Automatic Document Feeder

**DOCUMENT FEEDER PAPER CAPACITY**

150 Sheets (20 lb. Bond)

**DOCUMENT FEEDER SUPPORTED MEDIA SIZES**

11" x 17", Legal, Letter, Letter-R, Statement, Statement-R

**DOCUMENT FEEDER SUPPORTED MEDIA WEIGHT**

BW Original: 13 lb. Bond to 58 lb. Cover (50 to 157 g/m<sup>2</sup>)

CL Original: 17 lb. Bond to 58 lb. Cover (64 to 157 g/m<sup>2</sup>)

**PLATEN ACCEPTABLE ORIGINALS**

Sheet, Book, 3-Dimensional Objects [Up to 4.4 lb. (2 kg)]

**PULL SCAN**

Color Network ScanGear2 for both Twain and WIA Supported OS: Windows Vista/7/8/8.1/10 Windows Server 2003/Server 2003 R2/ Server 2008/Server 2008 R2/Server 2012/Server 2012 R2

**SCAN RESOLUTION**

600 x 600 dpi, 400 x 400 dpi, 300 x 300 dpi, 200 x 400 dpi, 200 x 200 dpi, 200 x 100 dpi, 150 x 150 dpi, 100 x 100dpi

**SCAN TO MOBILE DEVICES AND CLOUD-BASED SERVICES**

A range of solutions is available to provide scanning to mobile devices and cloud-based services depending on your requirements.

**SCAN SPEED (LETTER)**

Single-sided Scanning (BW): 80 ipm (300 dpi)/80 ipm (600 dpi)  
Single-sided Scanning (Color): 80 ipm (300 dpi)/60 ipm (600 dpi)

Double-sided Scanning (BW): 160 ipm (300 dpi)/150 ipm (600 dpi)  
 Double-sided Scanning (Color): 160 ipm (300 dpi)/80 ipm (600 dpi)

## SEND SPECIFICATIONS

### DESTINATION

E-mail/Internet Fax (SMTP), SMB, FTP, WebDAV, Mail Box, Super G3 Fax (Optional), IP Fax (Optional)

### COLOR MODE

Automatic-Color Select (Full Color/Grayscale), Automatic-Color Select (Full Color/Black-and-White), Full color, Grayscale, and Black-and-White

### ADDRESS BOOK

LDAP (2,000)/Local (1,600)/Speed dial (200)

### SEND RESOLUTION

600 x 600 dpi, 400 x 400 dpi, 300 x 300 dpi, 200 x 400 dpi, 200 x 200 dpi, 200 x 100 dpi, 150 x 150 dpi, 100 x 100dpi

### COMMUNICATION PROTOCOL

File: FTP, SMB, WebDAV

E-mail/I-Fax: SMTP, POP3, I-Fax (Simple, Full)

### FILE FORMAT

Standard: TIFF, JPEG, PDF(Compact, Searchable, Apply policy, Optimize for Web, PDF A/1-b), XPS (Compact, Searchable), Office Open XML (PowerPoint®, Word)

Optional: PDF (Trace & Smooth, Encrypted), PDF/XPS (Digital Signature)

### UNIVERSAL SEND FEATURES

Original Type Selection, Two-sided Original, Book to Two Pages, Different-size Originals, Density Adjustment, Sharpness, Copy Ratio, Erase Frame, Job Build, Direct Send, Delayed Send, Preview, Finished Stamp, Job Done Notice, File Name, Subject/Message, Reply-to, E-mail Priority, TX Report, Original Content Orientation, Skip Blank Originals, Detect Feeder Multi Sheet Feed

## FAX SPECIFICATIONS

### MAXIMUM NUMBER OF LINES

4

### MODEM SPEED

Super G3: 33.6 kbps

G3: 14.4 kbps

### COMPRESSION METHOD

MH, MR, MMR, JBIG

### RESOLUTION

400 x 400 dpi, 200 x 400 dpi, 200 x 200 dpi, 200 x 100 dpi

### SENDING / RECORDING SIZE

Statement-R to 11" x 17"

### FAX MEMORY

Up to 30,000 pages

### SPEED DIALS

Max. 200

### GROUP DIALS / DESTINATIONS

Max. 199 dials

### SEQUENTIAL BROADCAST

Max. 256 addresses

### MEMORY BACKUP

Yes

### FAX FEATURES

Original Type Selection, Two-sided Original, Book to Two Pages, Different-size Originals, Density for Scanning, Sharpness, Copy Ratio, Erase Frame, Job Build, Specifying the Sender's Name (when sending fax), Sender's Name (TTI), Select Line, Selecting the Telephone Line (when sending fax), Direct Send, Delayed Send, Preview, Finished Stamp, Job Done Notice, TX Report, Detect Feeder Multi Sheet Feed

## STORE SPECIFICATIONS

### MAIL BOX (NUMBER SUPPORTED)

100 User In-boxes, 1 Memory RX In-box, 50 Confidential Fax In-boxes, 30,000 Maximum Pages Stored

### ADVANCED BOX

Communication Protocol: SMB or WebDAV

Supported Client PC: Windows (Windows Vista/7/8/8.1/10)

Concurrent Connections (Max.)

SMB: 64

WebDAV: 3 (Active Sessions)

### ADVANCED BOX AVAILABLE DISC SPACE

Approx. 16 GB (Standard HDD)

Approx. 480 GB (1 TB HDD)

### ADVANCED BOX FEATURES

Disabling Advanced Box, Storage Filtering, Authentication for Advanced Box Log-in, Search Function, Sort Function, Printing a PDF File with a Password, imageWARE Secure Audit Manager Support

### MEMORY MEDIA

Standard: USB

## SECURITY SPECIFICATIONS

### AUTHENTICATION

Standard: Universal Login Manager, User Authentication, Department ID Authentication, Access Management System, Device and Function

DATA	Level Log-in Optional: uniFLOW Standard: Trusted Platform Module (TPM), Hard Disk Password Lock, Hard Disk Drive Erase, Mail Box Password Protection, Hard Disk Drive Encryption(FIPS140-2 Validated) Optional: Hard Disk Drive Mirroring, Hard Disk Drive removal, IEEE 2600.2 Common Criteria Certification, Data Loss Prevention (Requires uniFLOW)
NETWORK	Standard: IP/Mac Address Filtering, IPsec, TLS Encrypted Communication, SNMP V3.0, IEEE 802.1X, IPv6, SMTP Authentication, POP Authentication before SMTP Standard: Secure Print, Adobe LiveCycle® Rights Management ES2.5 Integration Optional: Encrypted PDF, Encrypted Secure Print, User and Device signatures, Secure Watermarks, Document Scan locking
DOCUMENT	

## ENVIRONMENTAL SPECIFICATIONS

OPERATING ENVIRONMENT	Temperature: 50 to 86 °F Humidity: 20 to 80 % RH (no condensation)
POWER REQUIREMENTS PLUG (MAIN UNIT)	120-127V AC, 60 Hz, 10 A NEMA 5-15P
POWER CONSUMPTION	Maximum: Approx. 1.8 kWh Standby: Approx. 66.2 W Sleep Mode: Approx. 0.8 W10 Typical Electricity Consumption (TEC) Rating: 1.6 kWh
STANDARDS	ENERGY STAR® Certified Rated EPEAT® Gold11 RoHS Compliant

## CONSUMABLES

TONER	GPR-55 Toner12
TONER YIELD (ESTIMATED @ 5% COVERAGE)	Black: 69,000 Images Color (C,M,Y):12 60,000 Images

## FOOTNOTES

- 1 Some types of tracing paper cannot be used.
- 2 Time from device power-on to when copy jobs can be programmed.
- 3 Includes main unit and either Cassette Feeding Unit-AM1, High Capacity Cassette Feeding Unit-A1, or Cabinet Type-N.
- 4 Includes main unit, consumables, and Cassette Feeding Unit-AM1.
- 5 PDF print from Web sites is supported.
- 6 EPS can be printed directly only from the Remote User Interface.
- 7 Requires the optional PCL International Font Set-A1.
- 8 Requires the optional Barcode Printer Kit-D1.
- 9 Other operating systems and environments including AS/400, UNIX, Linux and Citrix may be supported. Some of these solutions are chargeable.
- SAP Device Types are available via the SAP Market Place. For more information, contact your sales representative.
- 10 0.8 W sleep mode not available in all circumstances due to certain settings.
- 11 For current EPEAT rating (Gold/Silver/Bronze), please visit [www.epeat.net](http://www.epeat.net).
- 12 GPR-55L Toner also available for Color (C, M, Y). Yield (estimated @ 5% coverage) is 26,000 images.

↓ [Download Manufacturer Specifications](#)

## Accessories

## Reviews



[Canon ImageRunner Advance C5535i Color Copier](#)

[\\$6,490.00](#)



# FLAMMABLE SAFETY CABINETS

Flammable Safety Cabinets provide protection for your employees and property with proper storage of flammable liquids. Available with Manual or Self-Closing doors.

## SPECIFICATIONS:

- All steel parts are manufactured from cold rolled steel
- Flush-mounted paddle handle design allows easy fingertip operation and features a double key set and can be padlocked (*padlock not included*)
- All cabinets meet NFPA Code 30 and OSHA standards



- Fully welded construction with 18-gauge double wall construction with 1.5" insulating airspace
- The fail-safe closing mechanism utilizes a three-point stainless steel bullet latching system



### Self-Closing Doors

Latch holds door open when in use and will release to close door automatically when temperatures reach 165°F

R5444N



R5445N

R5445N

1-800-323-0082  
[lyonworkspace.com](http://lyonworkspace.com)





R5444N

R5445N



R5440N

R5474



R5472

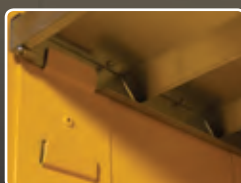
R5471

 add prefix 74 for color yellow

Capacity	W x D x H	No. of Shelves	Cat. No. Manual-Closing	Cat. No. Self-Closing	Cat. No. Extra Shelf	Cat. No. Mounting Brackets	Cat. No. Optional Shelf Tray	Cat. No. Optional Bottom Tray
<b>Standard</b>								
30 gal.	43" x 18" x 44"	1	R5440N	R5441N	5449	N/A	5550	5550
45 gal.	43" x 18" x 65"	2	R5444N	R5445N	5449	N/A	5550	5550
60 gal.	32" x 32" x 65"	2	R5460	R5461	N5450	N/A	N/A	N/A
<b>Compact</b>								
4 gal.	17" x 17" x 22"	1	R5470	N/A	N5478	5480	N/A	N/A
12 gal.	23-1/4" x 18" x 35"	1	R5473	N/A	N5476	N/A	N/A	N/A
12 gal.	43" x 18" x 18"	—	R5471	N/A	N/A	5479	N/A	N/A
15 gal.	23-1/4" x 18" x 44"	1	R5474	N/A	N5476	N/A	N/A	N/A
17 gal.	43" x 18" x 24"	1	R5472	N/A	N5449N	5479	N/A	N/A
17 gal.	43" x 18" x 24"	1	R5465*	N/A	N5449N	included	N/A	N/A
20 gal.	43" x 12" x 44"	2	R5466*	N/A	N5477	included	N/A	N/A
20 gal.	43" x 12" x 44"	2	R5469	N/A	N5477	5479	5552	5552
<b>Under-Counter</b>								
22 gal.	35" x 22" x 35"	1	R5467	N/A	N5468	N/A	5568	5568

Note: not recommended for Phenol, Sulfuric or Nitric Acids.

\*Includes brackets for wall-mounting.



Heavy-duty ribbed galvanized steel shelves have a 350 lb. shelf capacity and are adjustable on 3" centers





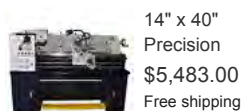
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## People who viewed this item also viewed



14" x 40"  
Precision  
\$5,483.00  
Free shipping



G0824 14" x  
40" Gunsmith  
\$6,250.00  
+ \$375.00



New  
Birmingham  
\$6,400.00  
+ Shipping



HOT 10x  
MGMN300  
\$18.10  
+ \$0.29



GRAZIANO  
SAG 14" x 40"  
\$4,599.99  
+ Shipping

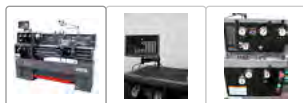
**CLARK 1440 14" x 40" Precision Gap-Bed Lathe with DRO - NEW!** **1 viewed per hour**Be the first to [write a review](#).Condition: **New**Quantity: **Last one / 5 sold**Price: **US \$6,690.00**  
\$322 for 24 months \***Buy It Now****Add to cart****Add to watch list****Last item available**

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Shipping: Freight - Read the item description or contact the seller for  
details | [See details](#)  
Item location: Chatsworth, California, United States  
Ships to: United States

Delivery: **Varies**

Payments:

**PayPal CREDIT**

\*\$322 for 24 months. Minimum purchase required. [Apply Now](#) |  
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Returns: 30 day returns. Buyer pays for return shipping | [See details](#)**Description****Shipping and payments**[Report item](#)

Seller assumes all responsibility for this listing.

Last updated on Mar 06, 2018 14:33:00 PST [View all revisions](#)

eBay item number: 172061278912

**Item specifics**Condition: New: A brand-new, unused, unopened, undamaged item in its original packaging (where packaging is ... [Read more](#)

Brand: CLARK

Model: 1440

**MACHINERY**  
EXCHANGE**BUY - SELL - TRADE**  
machineryexchange@gmail

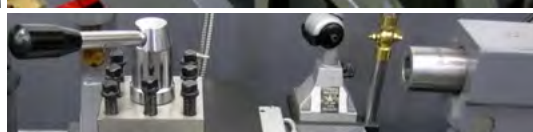
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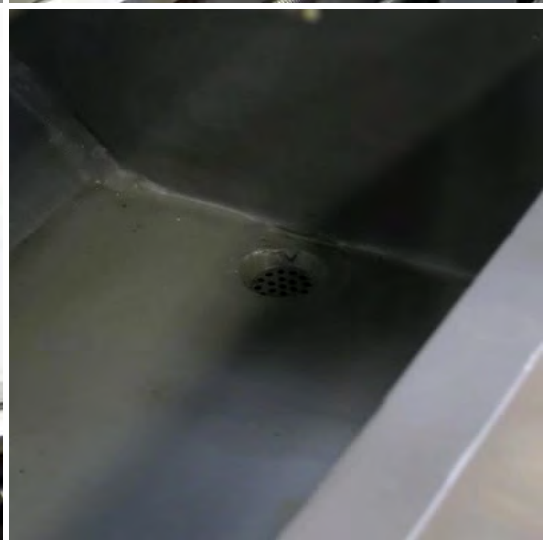
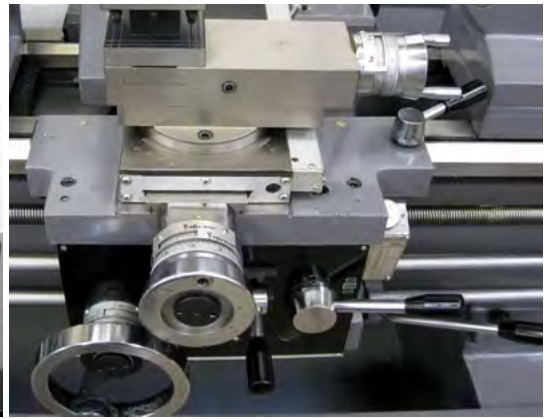
# Clark

## NEW! 1440 Gap-bed Lathe (14" x 40")



Clark bench lathes are especially suitable for machining, tool rooms and repairing workshops to machine shafts, spindle, sleeves, and disc workpiece of middle or small types. They can also be used to cut imperial, diametral, and module thread, and with compact construction and reasonable composition, they can cut very well. They are easy and reliable to operate, convenient to repair, high in efficiency, and low noise.







## FEATURES

- 2-Axis DRO
- D1-4 Camlock spindle is supported by precision tapered roller bearings
- Headstock gears are made from high tensile steel, hardened and ground
- Bedways are induction hardened and ground to a Rockwell 65 C-Scale
- Headstock gears run on splined shafts
- Machine built to imperial and metric system

SPECIFICATION MODEL: CLARK - 1440		INCH	METRIC
CAPACITY & DIMENSIONS	SWING OVER BED	14"	355mm
	SWING OVER CROSS SLIDE	8-1/2"	216mm
	SWING THROUGH GAP	20"	508mm
	LENGTH OF GAP	9-3/8"	238mm
	DISTANCE BETWEEN CENTERS	40"	1016mm
HEADSTOCK	HOLE THROUGH SPINDLE	1-1/2"	38mm
	SPINDLE NOSE	D1-4	
	TAPER IN SPINDLE NOSE	MT-5	
	SPINDLE TAPER ADAPTER	MT-3	
	SPINDLE BEARING TAPER	TAPER ROLLER BEARING	
	NUMBER OF SPINDLE SPEEDS	12	
	RANGER OF SPINDLE SPEEDS	40-1800 RPM	
GEARBOX	RANGER OF LONGITUDINAL FEEDS (Inch/Rev.)	0.0012"-0.0294"	
	RANGER OF CROSS FEEDS (Inch/Rev.)	0.0003"-0.0100"	
	NUMBER OF INCH THREADS	40	
	RANGER OF INCH THREADS	4-112 T.P.I.	
	NUMBER OF METRIC THREADS	22	
	RANGER OF METRIC THREADS	0.45-7.5mm	
	LEADSCREW	7/8" x 49-1/2"	22 x 1257mm
	FEED ROD DIAMETER	3/4"	19mm
COMPOUND & CARRIAGE	MAXIMUM TOOL SIZE	5/8" x 5/8"	16 x 16mm
	MAXIMUM COMPOUND SLIDE TRAVEL	3-1/2"	90mm
	MAXIMUM CROSS SLIDE TRAVEL	6-3/8"	162mm
	MAXIMUM CARRIAGE TRAVEL	37-1/2"	953mm
TAILSTOCK	TAILSTOCK SPINDLE TRAVEL	4-3/4"	121mm
	DIAMETER OF TAILSTOCK SPINDLE	1-25/32"	45mm
	TAPE IN TAILSTOCK SPINDLE	MT-3	
MISCELLANEOUS	OVERALL DIMENSIONS	75-3/4"L x 29-1/2"W x 47-1/4"H	
	MAIN MOTOR	3HP, 3Ph, 230V/460V prewired 230V	
	SHIPPING WEIGHT (approx.)	2,491 lbs.	

STANDARD ACCESSORIES:			OPTIONAL ACCESSORIES:	
1. 3-jaw chuck.	6. Work light.	11. DRO system.	1. Face plate.	
2. 4-jaw chuck.	7. Coolant system.	12. Manual.	2. Quick change tool post.	
3. 4-way tool post.	8. Foot brake.		3. SC Collet closing attachment.	
4. Steady rest.	9. Center sleeve and centers.		4. Taper attachment.	
5. Follow rest.	10. Tool box.		5. Adjustable machine mounts.	

This machine is BRAND NEW from the manufacturer. Every new Clark machine is thoroughly tested by the manufacturer before its ships. These machines have proven to be solid performers for our local customers. We are confident in the Clark brand and are proud to offer them nationally with a 30-day satisfaction guarantee. Clark backs their machines with a one year warranty. See the "Terms" section below for detailed warranty information.

## Shipping

Shipping is the responsibility of the buyer; however, Machinery Exchange has a large network of freight carriers to help you find the best price. If you would like a freight quote for this item please click "Contact Seller" or "Ask Question" at the bottom of the listing and provide us with your city, state and zip code. Or contact us via telephone at [phone removed by eBay].

Machines are covered in protective cosmoline coating for shipment. A forklift will be required to remove the machine from the truck. The cosmoline can be removed using a light kerosene/water mixture.

#### Tooling:

Below are directions on how you can calculate shipping for items under 150lbs. That **does not** qualify for USPS Flat Rate.

#### Pick up/Will Call:

All our items are available for pick up Monday thru Friday from 9am to 4:30. Arrangements can be made for Saturday pick up. We do not charge loading fees for loading machines or tooling unless we have to bring in special equipment or call a mover.

**Note: Most of our listings are marked Freight shipping. We ship via FEDEX and USPS for item(s) 150lbs or lighter. The cost of shipping will be sent via invoice. We encourage all customers to log into the FedEx website to calculate shipping. Listed on every item are the directions and information needed to do so.**

#### OPEN-BED FREIGHT:

- Items over 1000 lbs. less than 3000 lbs. will be sent via open-bed freight. Open-bed freight trucks allow the item to be secured to the truck bed. For an open-bed freight quote please email us with: item #, name, zip code, and destination type [commercial or residential]. We forward your emails to a freight broker who networks with all the major freight companies to find you the best rate.
- We can act on your behalf for shipping quotation but shipping arrangement and charges are your responsibility. We will send you the freight broker's contact info to schedule pick up.
- We will not palletize, skid or crate an item over 1000 lbs. These items are prepared for transit by wrapping the item's electrical components with stretch wrap and spraying down any exposed metal surfaces with protective oil.
- These items are within our forklifts capacity and we will load them on to an open-bed freight truck at no charge. We may charge a rigging fee if we do not feel comfortable loading the item and contract machinery movers to load for us. This is usually the case with top-heavy items, such as grinding machines.
  - **MACHINE DIMENSIONS: 80" x 30" x 50"H (inches) approximate.**
  - **MACHINE WEIGHT: 2,491 lbs. approximate.**
  - **RIGGING: NO CHARGE**

#### Payment

**We accept Check, Credit Card, or PayPal. We accept all major credit cards except American Express.**

*Payment is due within 5 days of purchase. Orders are not processed until they're paid in full.* Our invoice will include a subtotal of item(s) purchased, sales tax for in-state purchases [CA], and a rigging/packaging charge if applicable. Please wait for a complete invoice with estimated shipping price before sending payment.

Machinery Exchange reserves the right to open an Unpaid Dispute against buyers who do not pay or contact us in regards to payment.

**Machinery Exchange reserves the right to re-list or re-sell a purchased item if we do not receive payment.**

#### Terms

**Listed Items-** Items listed on eBay are available for immediate purchase through our showroom as they are advertised through various trade publications. This item is subject to prior sale. We reserve the right to end an auction early if the item sells through another outlet. We will not end an auction if it has less than eight hours remaining or the item reserve has been met.

**Machinery Turn-around Time** - Your order is processed after it is paid for in full. Average turn-around time varies depending on the item you have purchased. Many factors come in to play when purchasing industrial equipment. Machines must be 'blocked' for shipment before they can be removed from our showroom and loaded on to a freight truck. We hire an outside technician to prepare the machine for shipment. Machinery movers may also be contracted to remove the machine from our showroom and load it on to a freight truck. Our turn-around time depends on the schedules of these outside sources. Generally an item can be ready to ship within five business days of purchase. Please contact us if you need detailed information on this item's availability. We will do our best to expedite an order if you make the request prior to purchase.

**Refunds & Returns-** As proud MDNA (Machinery Dealers National Association) members, we offer an exclusive thirty-day return privilege. If you are not satisfied with your purchase, simply send the item back in its original condition for a full refund. This return privilege is not a warranty. Option to repair at dealer's discretion. Machinery Exchange is not responsible for third party charges, such as: rigging, shipping, installation, and service work. All third-party charges are not refundable.

**\*RETURN PRIVILEGE DOES NOT APPLY TO CONSIGNMENT OR DISCOUNTED ITEMS.**

**Damages-** We go above and beyond to assure your item arrives safely but there have been cases when an item still gets damaged during transit. We will not be held accountable for an item damaged during transit unless it was packaged improperly. Always insure your shipment when making shipping arrangements. This allows you to make a claim against the shipping company for the amount of loss. If an issue arises during transit we will do our best to represent you as our customer and resolve the issue. Ultimately shipping is a contract between you and another company. Machinery Exchange is not held responsible for freight costs, transit times, etc.

**Feedback** - eBay has advised sellers to use the feedback system as a tool to know customers are completely satisfied with their purchase. The final step of the transaction is leaving you positive feedback. Machinery Exchange goes to great lengths to make sure our customers are satisfied. If you feel we have earned anything less than a positive remark please contact us and we will resolve your issue as best we can.

You are buying from a MDNA professional. We specialize in reliability, quality, and we back our equipment with a thirty day return privilege to assure your satisfaction. So, Bid With Confidence!

**Contact Info-** Feel free to contact us for more information regarding our eBay listings. You can contact us through eBay's email system. Contact us through eBay first if you would like to email us direct, otherwise your email will not get past our spam guard.

**Call us Monday through Friday 9am-5pm PST [phone removed by eBay]**

**Our address is 20933 Plummer Street Chatsworth, CA 91311**





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Financing.**

**Simple & Fast  
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Direct Capital provides equipment financing for our customers across the U.S. for both new and used equipment. Click the Direct Capital logo on the left to be redirected to the Equipment Financing Center.

Jason Adler is our dedicated Finance Manager. Speak to him directly to find the program that best fits your business.

**Jason Adler [phone removed by eBay] [email removed by eBay]**



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More from this seller 1/2

Feedback on our suggestions



**NEW! CLARK 2VS**  
Variable Speed 9" x 49"

**\$6,690.00**

+ Shipping

**Popular**



**2001 GANESH 16"x40"**  
MANUAL PRECISION

**\$9,500.00**

+ Shipping



**DA-180 Collets Inch Lot**  
of 14 - Mill - ToolHolding -

**\$75.00**

Free shipping



**15" Bench Center - 6"**  
Swing x 15" Between

**\$1,000.00**

+ Shipping



**PHASE II 8" - 10"**  
Adjustable Tailstock with

**\$200.00**

+ Shipping



**MITUTOYO 12.5"**  
HEIGHT GAUGE /

**\$500.00**

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## NEW GoldPro® \ Clark B3VD Milling Machine



Inventory Number: B3VE

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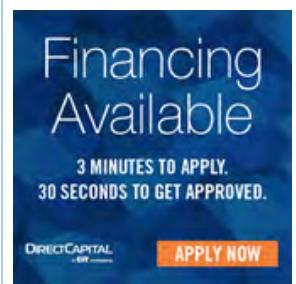
- Meehanite Casting
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**Sharp Mill with Proto 2  
Axis TrakCNC DRO, Yr  
2004  
Contact Us**

- Depth 79 Inches
- Width 104 Inches
- Table: 9"x49"
- Longitudinal Travel: 36"
- Cross Travel: 12"
- Vertical Knee Travel: 16"
- Ram Travel: 12"
- T-Slot Number, Size: 3, 5/8"
- Main Motor: 3 HP Spindle Speed: 60-2400

#### **Equipped With:**

- Draw bar
- Slideway Cover
- One Shot Lubrication System
- Operation Manual
- Tools and Tool Box
- Digital Readout System
- Power Feed Unit

#### **Optional Accessories:**

- Air Draw Bar Equipment
- Electrical Control Box or Panel
- Splash Guard
- 6" Precision Swivel Milling Vise: \$425.00
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3000**



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Machines**



**500 Ton Ferrara  
Hydraulic  
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**Neutec Vacuum  
Induction Casting  
Machine Model J15  
1 of 2**

Availability:  
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Price: \$ 9450.00 [Check the latest exchange rate](#)

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**Industrial Grinders****600E**

Cast aluminum wheel guards can be exhausted or left closed. 8-foot power cord. Base mounted on/off switch. Rubber feet minimize vibration.

Hp	RPM	Wheel Size	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Style	Agency Approval	Notes
1/3	3600	6"x3/4"x1/2"	<b>600E</b>	247	G1	30	115	Grinder	UL	a,c
1/3	3600	6"x3/4"x1/2"	<b>602E</b>	247	G1	27	115	Grinder/Buffer	UL	b,c

Cast aluminum non-exhaust type wheel guards. 8-foot power cord. Base mounted on/off switch. Rubber feet to minimize vibration.

Hp	RPM	Wheel Size	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Style	Agency Approval	Notes
1/3	3600	6"x3/4"x1/2"	<b>612</b>	280	G1	30	115	Grinder	UL, CSA	a,c
1/3	3600	6"x3/4"x1/2"	<b>662</b>	280	G1	29	115	Grinder/Buffer	UL, CSA	b,c

**623E**

Cast iron exhaust type wheel guards. 8-foot power cord. Base mounted on/off switch. Rubber feet to minimize vibration.

Hp	RPM	Wheel Size	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Style	Agency Approval	Notes
1/4	1800	6"x3/4"x1/2"	<b>632E</b>	392	G1	47	115	Grinder		a,d
1/3	3600	6"x3/4"x1/2"	<b>612E</b>	347	G1	44	115	Grinder	UL, CSA	a,c
1/3	3600	6"x3/4"x1/2"	<b>623E</b>	392	G1	47	115	Grinder	UL	a,d
1/3	3600	6"x3/4"x1/2"	<b>623ED</b>	530	G1	61	115	Grinder		a,d,e
1/3	3600	6"x3/4"x1/2"	<b>662E</b>	347	G1	43	115	Grinder/Buffer	UL, CSA	a,c
1/3	3600	6"x3/4"x1/2"	<b>673E</b>	392	G1	45	115	Grinder/Buffer	UL	a,d

**7306**

Cast iron exhaust type wheel guards. 8-foot power cord. Base mounted on/off switch. Rubber feet to minimize vibration.

Hp	RPM	Wheel Size	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Style	Agency Approval	Notes
1/2	3600	7"x1"x5/8"	<b>712</b>	414	G1	45	115	Grinder	UL, CSA	a,c,f
1/2	3600	7"x1"x5/8"	<b>762</b>	414	G1	42	115	Grinder/Buffer	UL, CSA	b,c,f
1/2	3600	7"x1"x5/8"	<b>712E</b>	488	G1	69	115	Grinder	UL, CSA	a,c
1/2	3600	7"x1"x5/8"	<b>762E</b>	488	G1	66	115	Grinder/Buffer	UL, CSA	b,c
1/2	1800	7"x1"x5/8"	<b>7306</b>	534	G1	71	115/230	Grinder	UL	a,d,g
1/2	3600	7"x1"x5/8"	<b>7307</b>	534	G1	70	115/230	Grinder	UL, CSA	a,d,g
1/2	3600	7"x1"x5/8"	<b>7351</b>	534	G1	68	115/230	Grinder/Buffer	UL, CSA	b,d,g
1/2	1800	7"x1"x5/8"	<b>7308</b>	534	G1	71	208-230-4600	Grinder	UL, CSA	a,d,h
1/2	3600	7"x1"x5/8"	<b>7309</b>	534	G1	70	208-230-4600	Grinder	UL, CSA	a,d,h
1/2	1800	7"x1"x5/8"	<b>7306D</b>	688	G1	84	115/230	Grinder	UL	a,d,e,g
1/2	3600	7"x1"x5/8"	<b>7307D</b>	688	G1	84	115/230	Grinder	UL	a,d,e,g
1/2	3600	7"x1"x5/8"	<b>7309D</b>	688	G1	87	208-230/460	Grinder	UL, CSA	a,d,e,h
1/2/1/3	1800/3600	7"x1"x5/8"	<b>7312D</b>	864	G1	90	115	Grinder	UL	a,d,e

**NOTES:**

- (a) Supplied with 36 & 60 grit wheels.
- (b) Supplied with 36 grit and 0.014 wire wheel.
- (c) Stamp steel tool rests.
- (d) Cast iron tool rests.
- (e) Deluxe model includes water pot, tool tray and lighted eyeshields.
- (f) Non-exhaust type wheel guards.
- (g) Factory connected for 115 volts, power cord supplied.
- (h) Factory connected for 208-230 volts, no power cord.

### Industrial Grinders



**8100W**



**8100WD**



**1022W**



**1022WD**

All models have cast iron tool rests and exhaust type wheel guards. 8-foot power cord. Base mounted on/off switch. Rubber feet to minimize vibration.

Hp	RPM	Wheel Size	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Style	Agency Approval	Notes
3/4	1800	8"x1"x3/4"	<b>8100W</b>	860	G1	99	115/230	Grinder	UL	a,g
3/4	1800	8"x1"x3/4"	<b>8100WD</b>	982	G1	110	115/230	Grinder	UL	a,e,g
3/4	3600	8"x1"x3/4"	<b>8107W</b>	860	G1	99	115/230	Grinder	UL	a,g
3/4	3600	8"x1"x3/4"	<b>8107WD</b>	982	G1	111	115/230	Grinder	UL	a,e,g
3/4	3600	8"x1"x3/4"	<b>8250W</b>	860	G1	97	115/230	Grinder/Buffer	UL	b,g
3/4	1800	8"x1"x3/4"	<b>8102W</b>	833	G1	98	208-230/460	Grinder	UL,CSA	a,h
3/4	1800	8"x1"x3/4"	<b>8102WD</b>	967	G1	111	208-230/460	Grinder	UL,CSA	a,e,h
3/4	3600	8"x1"x3/4"	<b>8123W</b>	833	G1	99	208-230/460	Grinder	UL,CSA	a,h
3/4	3600	8"x1"x3/4"	<b>8123WD</b>	967	G1	112	208-230/460	Grinder	UL,CSA	a,e,h
3/4	3600	8"x1"x3/4"	<b>8252W</b>	833	G1	95	208-230/460	Grinder/Buffer	UL	b,h
3/4	3600	8"x1"x3/4"	<b>8125W</b>	833	G1	99	575	Grinder	UL	a,i

All models have cast iron tool rests and exhaust type wheel guards. Base mounted on/off switch. Rubber feet to minimize vibration.

Hp	RPM	Wheel Size	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Style	Agency Approval	Notes
1	1800	10"x1"x7/8"	<b>1022W</b>	1,098	G1	133	115/230	Grinder	UL	a,J
1	1800	10"x1"x7/8"	<b>1022WD</b>	1,257	G1	145	115/230	Grinder	UL	a,e,J
1-1/2	1800	10"x1"x7/8"	<b>1021W</b>	1,082	G1	134	208-230/460	Grinder	UL,CSA	a,h
1-1/2	1800	10"x1"x7/8"	<b>1021WD</b>	1,239	G1	146	208-230/460	Grinder	UL,CSA	a,e,h
1-1/2	1800	10"x1"x7/8"	<b>105W</b>	1,082	G1	133	575	Grinder	UL,CSA	a,i

#### NOTES:

- (a) Supplied with 36 & 60 grit wheels.
- (b) Supplied with 36 grit and 0.014 wire wheel.
- (e) Deluxe model includes water pot, tool tray and lighted eyeshields.
- (g) Factory connected for 115 volts, power cord supplied.
- (h) Factory connected for 208-230 volts, no power cord.
- (i) 575 volt, 50//60 Hz.
- (J) Factory connected for 115 volts, no power cord.

**BALDOR****Industrial Grinders  
12 Inch**

**BALDOR**  
Catalog #1215W  
with #GA20 Pedestal

Cast iron tool rests & exhaust type wheel guards. Manual starter with overload protection. Also includes lighted eyeshield (bulb not included). All three-phase units are suitable for 50/60 Hz, 1500/1800 RPM operation. Wheels sold separately. See chart below.

Hp	RPM	Wheel Size	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Style	Agency Approval	Notes
2	1800	12"X2"X1-1/4"	<b>1215W</b>	2,469	G1	253	208-230/460	Grinder	UR	k
3	1800	12"X2"X1-1/4"	<b>1216W</b>	2,557	G1	254	208-230/460	Grinder	UR	k
2	1800	12"X2"X1-1/4"	<b>1217W</b>	2,615	G1	259	115/230	Grinder	UR	J
3	1800	12"X2"X1-1/4"	<b>129W</b>	2,557	G1	256	575	Grinder	UR	i

Cast iron tool rests & exhaust type wheel guards. Magnetic starter with overload protection. Also includes lighted eyeshields (bulbs not included). Suitable for 50/60 Hz operation. Wheels sold separately. See chart below.

Hp	RPM	Wheel Size	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Style	Agency Approval	Notes
5	1800	14"X3"X1-1/4"	<b>1406W</b>	3,168	G1	359	230	Grinder	UR	m
5	1800	14"X3"X1-1/4"	<b>1410W</b>	3,168	G1	362	460	Grinder	UR	m
5	1800	14"X3"X1-1/4"	<b>1408W</b>	3,168	G1	358	575	Grinder	UR	m
7-1/2	1800	14"X3"X1-1/4"	<b>1407W</b>	3,456	G1	372	230	Grinder	UR	m
7-1/2	1800	14"X3"X1-1/4"	<b>1411W</b>	3,456	G1	381	460	Grinder	UR	m
7-1/2	1800	14"X3"X1-1/4"	<b>1409W</b>	3,456	G1	374	575	Grinder	UR	m

**14 Inch**

**BALDOR**  
Catalog #1407W  
with #GA20 Pedestal

**Wheels for 12-Inch and 14-Inch Grinders**

High quality aluminum oxide and silicon abrasive in a premium vitrified system

Catalog Number	List Price	Mult. Sym.	Diameter	Face	Bore	Grit	Shpg. Wgt.
<b>B125</b>	188	A8	12"	2"	1-1/4"	30	22
<b>B126</b>	190	A8	12"	2"	1-1/4"	46	22
<b>B147</b>	356	A8	14"	3"	1-1/4"	30	42
<b>B148</b>	356	A8	14"	3"	1-1/4"	46	41

**NOTE:** When installing new wheels, check wheels for possible damage. Do not use a damaged wheel. With new wheel installed, all safety guards in place and operator standing away from front of grinder, run grinder for one minute before apply work. (Wear safety glasses). **Exercise caution.**  
Designed to comply with OSHA standards under normal usage.

**NOTES:**

- (i) 575 volt, 50//60 Hz.
- (J) Factory connected for 115 volts, no power cord.
- (K) Factory connected for 230, manual starter, specify voltage when ordering.
- (m) Factory connected for 230, magnetic starter must be changed for other voltages

**Industrial Tool Grinders****Diamond Wheel Grinder**

Catalog #522

Baldor Diamond Wheel Tool Grinders feature all cast iron construction. Precision built, they have locked double row bearings and a maximum runout of .002 for precise tool and die work. Accommodates cup wheels with 1-1/4" center hole. Large tool tables with protractor type tool support. Light and water pot with spout and faucet that can be moved to either side are standard equipment. Diamond wheels sold separately. See chart below.

Hp	RPM	Cup Wheel Size	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Style	Agency Approval	Notes
1/2	3600	6"x1"x1-1/4"	<b>522</b>	1,381	G1	108	115	Tool Grinder	UL	g
1/2	3600	6"x1"x1-1/4"	<b>532</b>	1,381	G1	109	208-230/460	Tool Grinder	UL	h

**NOTE:** Rough service bulb is suggested.

**EQUIP. #41****Carbide Tool Grinder**

Catalog #500

Baldor Carbide Tool Grinders feature all cast iron construction. Accommodates cup wheels with 1-1/4" center hole. Large tool tables with protractor type tool support. Light and water pot with spout and faucet that can be moved to either side are standard equipment. Wheels sold separately. See chart below.

Hp	RPM	Wheel Size	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Style	Agency Approval	Notes
1/2	3600	6"x1"x1-1/4"	<b>500</b>	1,228	G1	109	115	Tool Grinder	UL	g
1/2	3600	6"x1"x1-1/4"	<b>510</b>	1,228	G1	109	208-230/460	Tool Grinder	UL	h

**NOTE:** Rough service bulb is suggested

**Wheels and Accessories**

Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Face	Grit	Description
<b>D501</b>	789	A8	5	3/4"	120	General Purpose Diamond Wheel
<b>D502</b>	789	A8	2	3/4"	220	Fine Finish Diamond Wheel
<b>C61</b>	121	A8	5	1"	60	Silicone Carbide
<b>C121</b>	121	A8	3	1"	120	Silicone Carbide
<b>S46</b>	112	A8	3	1"	46	Aluminum Oxide
<b>S61</b>	112	A8	3	1"	60	Aluminum Oxide
<b>GA8</b>	133	A8	1	Wheel Dresser with Diamond NIB		
<b>GA7</b>	80	A8	1	Diamond NIB for GA8 (7/16 diameter x 1" long)		

**NOTE:** When installing new wheels, check wheel for possible damage. Do not use a damaged wheel. With new wheel installed and all safety guards in place, and operator is standing away from front of grinder, run grinder for one minute before applying work. **(Wear safety glasses). Exercise caution.**

**NOTES:**

(g) Factory connected for 115 volts, power cord supplied.

(h) Factory connected for 208-230 volts, no power cord.



Catalog #D501



Catalog #C61



GA8

GA7



## Industrial Abrasive Belt Sanders

Baldor offers several options when it comes to industrial belt sanders, fixed and tiltable belts, grinder/sanders and even an adjustable speed sander for increased flexibility. All units come with a base mounted on/off switch and your choice of 2"x36" 100 grit belt or 2"x48" 80 grit belt.



Catalog #602E-MT



Catalog #248-151D



Catalog #248-181TD



Catalog #248-151TD



Catalog #248-151AS

Hp	RPM	Tiltable belt	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Style	Agency Approval	Notes
1/3	3600	Multi-Position	<b>602E-MT</b>	656	G1	24	115	Grinder/Belt Sander	UL	g, n
1-1/2	3600	Fixed	<b>2048-151D</b>	1,322	G1	88	115/230	Belt Sander	UL	g
1-1/2	3600	Fixed	<b>2048-153D</b>	1,279	G1	76	208-230/460	Belt Sander	UL	h
1-1/2	3600	Three positions	<b>248-151TD</b>	1,448	G1	95	115/230	Belt Sander	UL	g
1-1/2	3600	Three positions	<b>248-153TD</b>	1,405	G1	84	208-230/460	Belt Sander	UL	h
1-1/2	3600	Three positions	<b>248-181TD</b>	1,702	G1	138	115/230	Grinder/Belt Sander	UR	J, I
1-1/2	3600	Three positions	<b>248-183TD</b>	1,654	G1	128	208-230/460	Grinder/Belt Sander	UL	h, I
1-1/2	0-3600	Three positions	<b>248-151AS</b>	1,560	G1	105	115	Adjustable Speed	UR	g, J, I

## Industrial Buffers

Buffers are designed for use with soft cloth wheels **ONLY**. Specific buffing applications may require the addition of operator safety devices. Consult with a safety engineer before installation. Price includes flanges and nuts but **does not** include wheels.



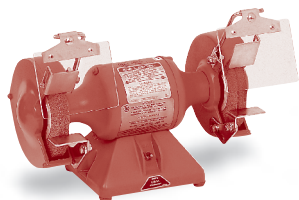
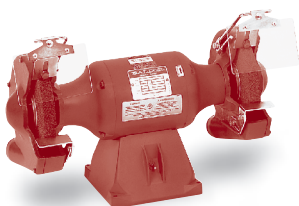
Catalog #333B

Catalog #1458  
with #GA20 Pedestal

Hp	RPM	Max. Wheel Size	Shaft Diameter	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Agency Approval	Notes
1/4	1800	6"	1/2"	<b>114</b>	312	G1	24	115	UR	g
1/3	3600	6"	1/2"	<b>111</b>	312	G1	25	115	UR	g
3/4	1800	8"	3/4"	<b>332B</b>	614	G1	55	115/230	UR	g
3/4	3600	8"	3/4"	<b>333B</b>	614	G1	56	115/230	UR	g
3/4	1800	8"	3/4"	<b>334B</b>	600	G1	54	208-230/460	UR, CSA	h
3/4	3600	8"	3/4"	<b>330B</b>	600	G1	56	208-230/460	UR, CSA	h
1	1800	10"	7/8"	<b>407B</b>	815	G1	60	115/230	UR	j
1-1/2	3600	10"	7/8"	<b>410B</b>	801	G1	61	115/230	UR	j
1-1/2	1800	10"	7/8"	<b>409B</b>	782	G1	59	208-230/460	UR, CSA	h
1-1/2	3600	10"	7/8"	<b>412B</b>	782	G1	62	208-230/460	UR, CSA	h
2	1800	12"	1-1/4"	<b>1250</b>	1,889	G1	164	115/230	UR	k
2	3600	12"	1-1/4"	<b>1251</b>	1,834	G1	160	115/230	UR	k
3	1800	12"	1-1/4"	<b>1252</b>	1,734	G1	156	208-230/460	UR, CSA	k
3	3600	12"	1-1/4"	<b>1253</b>	1,685	G1	156	208-230/460	UR, CSA	k
5	1200	14"	1-1/4"	<b>1457</b>	2,532	G1	228	230	UR, CSA	m
5	1800	14"	1-1/4"	<b>1458</b>	2,155	G1	218	230	UR, CSA	m
7-1/2	1800	14"	1-1/4"	<b>1454</b>	2,408	G1	229	230	UR, CSA	m
7-1/2	3600	14"	1-1/4"	<b>1453</b>	2,278	G1	223	230	UR, CSA	m

**NOTES:**

- (g) Factory connected for 115 volts, power cord supplied.
- (h) Factory connected for 208-230 volts, no power cord.
- (j) Factory connected for 115 volts, no power cord.
- (k) Factory connected for 230, manual starter, specify voltage when ordering.
- (l) Supplied with 8"x1"x3/4" 36 grit wheel and 80 grit belt.
- (m) Factory connected for 230, magnetic starter must be changed for other voltages
- (n) Supplied with 0.014 wire wheel and 36" x 2" 100 grit belt

**Big Red Grinders****600RE****812RE**

Big Red Grinders are available with 6", 7" or 8" wheels, equipped with base mounted on/off switch and 8 foot cord with plug. Rubber mounting feet help minimize vibration. Models ending in "E" have exhaust type wheel guards.

Hp	RPM	Wheel Size	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Style	Agency Approval	Notes
1/3	3600	6"x3/4"x1/2"	<b>600RE</b>	247	G1	29	115	Grinder	UL	a,c
1/3	3600	6"x3/4"x1/2"	<b>602RE</b>	247	G1	27	115	Grinder/Buffer	UL	b,c
1/3	3600	6"x3/4"x1/2"	<b>612R</b>	280	G1	30	115	Grinder	UL,CSA	a,c,f
1/3	3600	6"x3/4"x1/2"	<b>662R</b>	280	G1	29	115	Grinder/Buffer	UL,CSA	b,c,f
1/2	3600	7"x1"x5/8"	<b>712R</b>	414	G1	44	115/230	Grinder	UL,CSA	a,c,f
1/2	3600	7"x1"x5/8"	<b>762R</b>	414	G1	43	115/230	Grinder/Buffer	UL,CSA	b,c,f
1/2	3600	7"x1"x5/8"	<b>712RE</b>	488	G1	68	115/230	Grinder	UL,CSA	a,c
1/2	3600	7"x1"x5/8"	<b>762RE</b>	488	G1	67	115/230	Grinder/Buffer	UL,CSA	b,c
3/4	3600	8"x1"x3/4"	<b>812RE</b>	813	G1	99	115/230	Grinder	UL	a,c,g
3/4	3600	8"x1"x3/4"	<b>862RE</b>	813	G1	95	115/230	Grinder/Buffer	UL	a,c,g

**Big Red Accessories****Pedestals****GA16R****GA14R****Lighted Eyeshields****GA9R****GA9SR**

Catalog Number	Description	List Price	Mult. Sym.	Shpg. Wgt.
<b>GA16R</b>	Cast iron pedestal can be used on all Big Red Grinders Height is 32-7/8"	387	A8	62
<b>GA16RE</b>	Light industrial version, all steel construction for use on 6" & 7" only, height is 34"	252	A8	36
<b>GA20RE</b>	Light industrial version, all steel construction for use on 8" only, height is 34"	292	A8	54
<b>GA14R</b>	Fabricated steel pedestal with storage shelves can be used on all Big Red Grinders, height is 34-1/2"	292	A8	64
<b>GA9R</b>	2) Lighted eyeshield, 5-1/2" x 3-3/4" viewing area, 8-ft cord with plug, mounts to any Big Red Grinder	163	A8	5
<b>GA9SR</b>	2) Lighted eyeshield with on/off switch, 5-1/2" x 3-3/4" viewing area, 8-ft cord with plug, mounts to any Big Red Grinder	181	A8	5

**NOTES:**

- (a) Supplied with 36 & 60 grit wheels.
- (b) Supplied with 36 grit and 0.014 wire wheel.
- (c) Stamp steel tool rests.
- (d) Cast iron tool rests.
- (f) Non-exhaust type wheel guards.
- (g) Factory connected for 115 volts, power cord supplied.

## Accessories

### Dust Control Units for Baldor Grinders



Catalog #1022W  
with DC10 and GA16

115 Volt, Single Phase, 60 Hz.

Catalog Number	Dust Control Unit Price	Mult. Sym.	Grinding Wheel Maximum		Cubic Ft/Min		Air Control Valves	Shpg. Wgt.
			Dia.	Width	Total Cap.	Required Per Wheel By OSHA <sup>(o)</sup>		
DC7	1,162	A8	7"	1"	440	220	Yes	60
DC8	1,162	A8	8"	1"	440	220	Yes	62
DC10	1,162	A8	10"	1"	440	390	Yes <sup>(p)</sup>	60
DC12	1,263	A8	12"	2"	440	390	Yes <sup>(p)</sup>	62
DC12-3	1,263	A8	12"	2"	440	390	Yes <sup>(p)</sup>	57
DC14-3 <sup>(n)</sup>	2,062	A8	14"	3"	700	590	Yes <sup>(p)</sup>	73

<sup>(n)</sup> DC14-3 powered with 1Hp TEFC 208-230/460 volt, three phase motor, less cord, switch, and lug.

<sup>(o)</sup> From ventilation section 1910.94 table G-4 Federal register vol. 37 #202, 10-18-72.

<sup>(p)</sup> Air control valve required to direct total CFM of collector to only the wheel being used to meet OSHA CFM requirements on 10" and larger grinders.

### Replacement Filter Bags

Catalog Number	List Price	Mult. Sym.	Dust Control Unit	Shpg. Wgt.
ARB-1	80	A8	DC7, 8, 10, 12, 12-3	1
ARB-2	112	A8	DC14-3	2

**NOTE:** Do not collect potentially reactive materials without consulting (NFPA) National Fire Protection Association Standards.

Powered by a 1/2 Hp TEFC single phase Baldor motor with cord, switch, and plug.

230 volt single phase units are available and supplied less switch, cord, and plug. Specify for 230 volt single phase operation.

Collectors with three phase motor less cord, switch, and plug are available. For 208-230/460 volt three phase, add suffix -3 to catalog number. Add \$30.00 to list price.

Mount dust control units with Grinder and GA16 or GA20 pedestal.

## Accessories

### Grinder and Buffer



Item Number	Catalog Number	Description	List Price	Mult. Sym.	Shpg. Wgt.
A	GA16	Pedestal "Cast Iron"	387	A8	62
	GA16E	"Steel"	252	A8	36
B	GA14	Pedestal "Steel"	292	A8	64
C	GA20	Pedestal "Cast Iron"	637	A8	125
	GA20E	"Steel"	292	A8	54
D	GA24	Water Pot	42	A8	1
E	GA3	Water Pot	65	A8	9
F	GA25	Tool Tray	42	A8	7
G	GA4	Tool Tray	66	A8	6
H	GA11	Eyeshield	53 pr	A8	2
I	GA10	Eyeshield	48 pr	A8	1
J	GA9	Lighted Eyeshield (less on/off switch)	163 pr	A8	5
J-1	GA9-1	same as GA9 except packed 1 unit per carton	89 ea	A8	3
K	GA9S	Lighted Eyeshield (with on/off switch)	181 pr	A8	6
L	GA13	Eyeshield for 6" Grinders	41 pr	A8	2
M	AB248	Abrasive Belt 2" x 48" - 80 Grit	24	A8	1

**(A) GA16 Pedestal** for 6", 7", 8" and 10" grinders, carbide and diamond wheel grinders, 1/4 Hp through 1-1/2 Hp buffers and belt grinders. Height 32 7/8".

**GA16RE** for 6" & 7" grinders "all steel construction". Height 34".

**(B) GA14 Pedestal** - fabricated steel, for 6", 7", 8" and 10" grinders, 1/4 Hp through 1 1/2 Hp buffers. Height 34 1/2".

**(C) GA20 Pedestal** for 8", 10", 12" and 14" grinders and 3/4 through 7-1/2 Hp buffers. Height 30".

**GA20RE** for 8" & 10" grinders "all steel construction". Height 34".

**(D) GA24 Water Pot** for 623E, 673E, 612E, 662E, and 7" (except #712, #712R, #762, & #762R), 8" and 10" grinders. Supplied with mounting bracket and swivel arm. Capacity 1-1/2 pints.

**GA3 Water Pot** for GA20 pedestal. Capacity 3 pints.

**(F) GA25 Tool Tray** for 623E, 632E, 673E, 612E, 662E and 7" (except #712, #712R, #762, & #762R), 8" and 10" grinders. Supplied with mounting bracket and swivel arm. Diameter 8". Area 48 square inches.

**(G) GA4 Tool Tray** for GA20 pedestal. Dimensions 12" x 6".

**(H) GA11 Eyeshield** - 6" x 4" shatter resistant Plexiglas®. Fits Baldor grinders 7" through 14".

**(I) GA10 Eyeshield** - 5" x 4" shatter resistant Plexiglas®. Fits Baldor 6" grinders and #712, #712R, #762 and #762R.

**(J) GA9 Lighted Eyeshield** - 5 1/2" x 3 3/4" viewing area made of shatter resistant Plexiglas®. Supplied with 8 foot 3 conductor cord with plug. Accommodates standard 115 volt 60 watt bulb. Supplied less bulb and on/off switch. Mounts to Baldor grinders except tool and belt grinders. Adjusts horizontally and vertically. U.L. listed/CSA certified.

**(J-1) GA9-1** - Same as GA9 except packed 1 per carton. 115 volt only.

**(K) GA9S Lighted Eyeshield with On/Off Switch** - 115 volt only.

**(L) GA13 Eyeshield for 600 Series 6" Grinders**

**(M) AB248 Abrasive Belt** - 2" x 48" - 80 Grit.

### Accessories Wheels for Grinders



6" 7" 8" 10" 12" 14"

### Sewed Cotton Buffing Wheels



6" 8" 10"

### Wire Brush Wheels

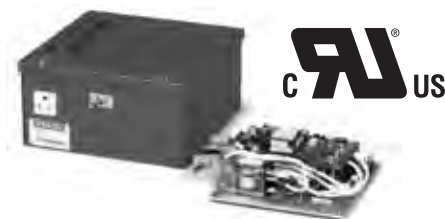


6" 7" 8"

**NOTE:** When installing new wheels, check wheel for possible damage. Do not use a damaged wheel. With new wheel installed and all safety guards in place, and operator standing away from front of grinder, run grinder for one minute before applying work. **(Wear safety glasses).**

#### Exercise Caution.

### Single Phase Electronic Motor Brake



Extremely durable aluminum oxide abrasive grain. Excellent for steels and alloy steels. Ideal for numerous general purpose applications.

Catalog Number	List Price	Mult. Sym.	Diameter	Face	Bore	Grit	Shpg. Wgt.
B66	33	A8	6"	3/4"	1/2"	36	2
B67	33	A8	6"	3/4"	1/2"	60	2
B73	46	A8	7"	1"	5/8"	36	4
B74	46	A8	7"	1"	5/8"	60	3
B80	55	A8	8"	1"	3/4"	36	5
B81	55	A8	8"	1"	3/4"	60	4
B102	83	A8	10"	1"	7/8"	36	8
B103	83	A8	10"	1"	7/8"	60	6
B125	188	A8	12"	2"	1-1/4"	30	22
B126	190	A8	12"	2"	1-1/4"	46	22
B147	356	A8	14"	3"	1-1/4"	30	42
B148	356	A8	14"	3"	1 1/4"	46	41

**Features:** Wheels are muslin cloth, spiral sewn. These bore sizes will fit shafts 1/8" greater diameter than bore.

Catalog Number	List Price	Mult. Sym.	Diameter	Face	Bore	Shpg. Wgt.
A65	18	A8	6"	1/4"	1/2"	1
A82	29	A8	8"	1/4"	3/4"	1
A103	35	A8	10"	1/4"	7/8"	1

**NOTE:** Cotton wheels are supplied in sections 1/4" wide. Two (or more) sections may be put together to make up wheel of desired width.

**Features:** Wheels are crimped, carbon steel wire.

Catalog Number	List Price	Mult. Sym.	Diameter	Face	Bore	Diameter of Wire	Shpg. Wgt.
W64	41	A8	6"	5/8"	1/2"	0.014	1
W70	48	A8	7"	5/8"	5/8"	0.014	1
W82	54	A8	8"	3/4"	3/4"	0.014	1

**NOTE:** Baldor 6", 7" & 8" grinders equipped with grinding wheels can be converted to have wire brush wheels. To properly fit the wire brush wheels, flat washers or spacer must be placed on both sides of the wheel flanges. This will accommodate the width differences between the wire brush wheel and the original grinding wheel. Order washers/spacers as follows:  
6" (3) HW1000A50, 7" (2) HA2047A01, 8"(4) HW1000A75

**Applications:** Efficient alternative to mechanical brakes, suitable for woodworking machinery, machine tools, bench grinders and buffers. Ideal for OEM equipment or for retrofitting into an existing application.

**Features:** Automatic braking for single-phase motors. User adjustable torque and brake time. Prevents restarts after power has been removed for 7 seconds. Accommodates frequent start/stop applications. Available in panel mount for system integration or with line cord, plug and receptacle in a NEMA 1 enclosure for easy installation.

Catalog Number	Horsepower	Amps	Voltage (60 Hz only)	List Price	Mult. Sym.
<b>Panel Mount</b>					
BQ1-015-CP	1	15	110-125 VAC	660	E7
BQ2-015-CP	2	15	208-230 VAC	660	E7
<b>NEMA 1</b>					
BQ1-015-CC	1	15	110-125 VAC	852	E7
BQ2-015-CC	2	15	208-230 VAC	852	E7

**SUFFIX:** CP = 6"x5"x3" module without cord, receptacle, switch or enclosure.  
CC = 8"x8"x4.5" NEMA 1 enclosure with 9ft. cord, receptacle and switch.

## Polishing Lathes, Chucks

**340****353T****380WCT****LPL50**

Baldor polishing lathes have features preferred by Dentists, dental lab technicians, jewelers, lapidary and other for precision, trouble-free polishing. All lathes are supplied with 8-foot cord with plug, rubber feet and heavy construction to minimize vibration, provisions for mounting to a laboratory bench are provided as well.

Hp	RPM	Shaft Diameter/Taper	Catalog Number	List Price	Mult. Sym.	Shpg. Wgt.	Voltage	Style	Agency Approval	Notes
1/4	3600/1800	0.375 / 0.250	<b>340</b>	383	G1	32	115	Dual Speed	UR, CSA	q
1/4	3000/1500	0.375 / 0.250	<b>342</b>	383	G1	31	220-240	Dual Speed	UR, CSA	r
1/4	3600/1800	0.375 / 0.250	<b>353T</b>	420	G1	35	115	Dual Speed	UL, CSA	q
1/2	3600	0.375 / 0.250	<b>359T</b>	421	G1	36	115	Single speed	UL, CSA	q
1/3	3600/1800	0.375 / 0.250	<b>380T</b>	468	G1	42	115	Dual Speed	UL, CSA	q
1/3	3600/1800	0.375 / 0.250	<b>380WCT</b>	1,077	G1	47	115	Dual Speed	UL, CSA	q,s
1/2	3600	0.625 / straight	<b>LPL50</b>	409	G1	43	115	Single speed	UR	q,t
3/4	3600	0.625 / straight	<b>LPL75</b>	499	G1	48	115/230	Single speed	UR	q,t

**NOTES:**

(q) Factory connected for 115 volts, power cord supplied.

(r) Factory connected for 220-240 volts, power cord without plug.

(s) Right side equipped with Wells Dental "Super Quick" chuck, 2 mandrels, 2 stone, 1 arbor band, 1 soft wheel chuck.

(t) Single shaft, right side.

## Baldor True-Running Chucks

Made to close-tolerance specifications, keeps vibration to an absolute minimum. All chuck guaranteed to match Baldor lathes and other make with standard tapered shaft. Mounting hole 0.370" tapered 0.250 per foot.

**R1 R2 L3 L4 R5A R6 L7**

Catalog Number	List Price	Mult. Sym.	Description	Shpg. Wgt.
<b>R1</b>	22	A8	Hard Wheel, Right Hand, Brass	1
<b>R2</b>	24	A8	Soft Wheel, Right Hand, Brass	1
<b>L3</b>	22	A8	Hard Wheel, Left Hand, Brass	1
<b>L4</b>	24	A8	Soft Wheel, Left Hand, Brass	1
<b>R5A</b>	78	A8	Burr Chuck, Right Hand,	1
<b>R6</b>	41	A8	Arbor Band, Right Hand, Brass	1
<b>L7</b>	45	A8	Burr Chuck, Left Hand, Stainless	1

**NOTE:** R1 & L3 hard wheel chucks accommodate up to 1/4" wide wheel with 1/4" arbor hole.

R6 arbor band chuck accommodates 1/2" wide x 3/4" diameter arbor band.

## Dust Collector Bags

Catalog Number	List Price	Mult. Sym.	Description	Shpg. Wgt.
<b>DA1</b>	45	A8	Dust Collector Bag (1 per carton). For Baldor D60 and D61 Dust Collectors	1

### FULL THREE YEAR WARRANTY

Baldor polishing lathes are warranted against burnouts, defective materials, and workmanship for three full years. Warranty covers all parts except those subject to normal wear. "Wells Quick Chuck" warranted one year by manufacturer.



## Product Information Packet

# 600E

20S 2P GRNDR

Part Detail							
Revision:	X	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	G6WG0050	CD Diagram:	CD0185A03	Mfg Plant:	
Mech. Spec:		Layout:	G6-0443-0050	Poles:	02	Created Date:	08-09-2007
Base:		Eff. Date:	12-12-2018	Leads:	2#18		

Specs			
Nameplate Output:	.33		
Product Style:	GRINDER		

Nameplate NP0523L					
CAT.NO.	600E	HP	.33	HZ	60
VOLTS	115	AMPS	3.1		
SPEC.	G6-0443-0050				
RPM	3600	SER.			

Parts List		
Part Number	Description	Quantity
SA161399	SA G6-0443-0050	1.000 EA
RA149954	RA G6-0443-0050	1.000 EA
RE1020SP	C.S.RELAY 3CR-738-169(TI)	1.000 EA
G6BA3000BG	G6-264 BASE, W/ BATTLE SHIP GRAY POWDER	1.000 EA
60XM2520A12	SCREW,PAN TORX 1/4-20X.750 THREAD FORMIN	2.000 EA
HW1000A25	1/4 SAE FLAT WASHER (FS)	2.000 EA
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	1.000 EA
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	1.000 EA
HW1023A25	WASHER, 1/4 INT/EX TH LK, ZN X	2.000 EA
LD0090B120	LD,01 6.5" BLK W/INSU FLAG TERM	1.000 EA
51XN0832A08	08-32 #10 & SMALLER HEX WASHER HEAD, SL	1.000 EA
LD0158A02	CORD & PLUG ASSY 18-3 SJT 8' LONG	1.000 EA
WD4102A01	SR-6L-1 HEYCO STRN RELIEF OR 23MPO6L10 M	1.000 EA
SP9017SP	SWITCH 758OK8 (C-H)	1.000 EA
HA3205A50	U550-N SWITCH NUT/CARLING	1.000 EA
HW1003A50	LOCKWASHER,1/2",EXT.TOOTHZINC PLATED	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
G6CB4501L	BASE COVER PLATE 6" GRINDER BLACK	1.000 EA
RM1012	6" GRINDER FOOT	4.000 EA
11XT1032A06	10-32 X 3/8 HX WSHR HD SLTD TYPE 23	2.000 EA
G6EP3900A01BG	EP,G6AC DE CL 6203 W/BATTLE SHIP GRAY	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
HA3107A03	10-32 X 5.375 THRUBOLT OHIO	2.000 EA
G6EP3900A01BG	EP,G6AC DE CL 6203 W/BATTLE SHIP GRAY	1.000 EA

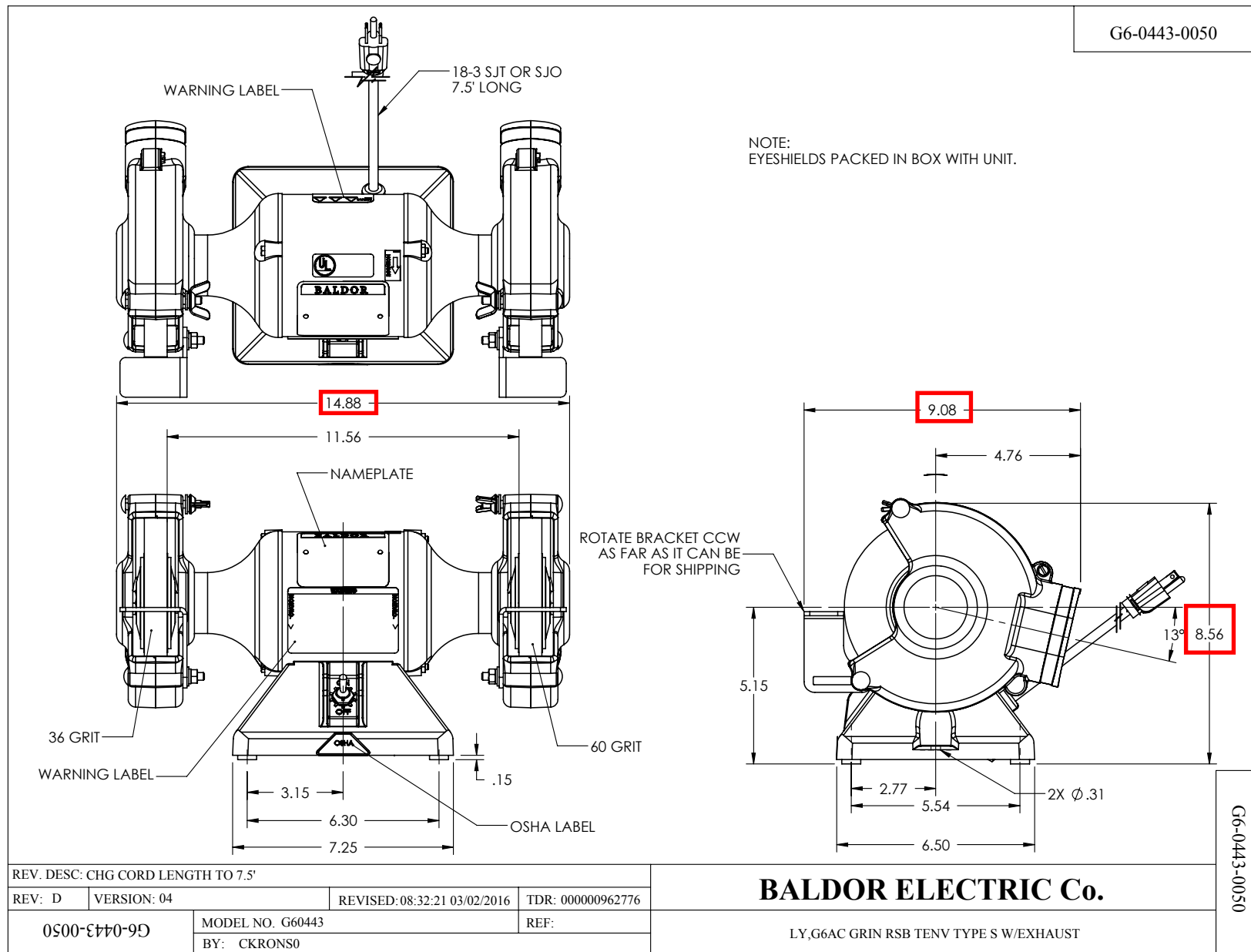
Parts List (continued)		
Part Number	Description	Quantity
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	2.000 EA
G6FH3804A01BG	GRINDER GUARD COVER BATTLE SHIP GRAY	1.000 EA
51XF1032A08	10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED	4.000 EA
G6FH3804A01BG	GRINDER GUARD COVER BATTLE SHIP GRAY	1.000 EA
51XF1032A08	10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED	4.000 EA
HA6113SP	GRINDER FLANGE, STAMPED ZINC PLATED	2.000 EA
G6AP3000A02	A60N6V10 6X3/4X1/2 60GRITB67	1.000 EA
XY5020A12SP	1/2-20 NUT R.H. HEX (NF)	1.000 EA
HA6113SP	GRINDER FLANGE, STAMPED ZINC PLATED	2.000 EA
B66	A36N5V10 6X3/4X1/2 36GRITB66	1.000 EA
XY5020A62SP	1/2-20 NUT L.H. HEX (NF)X	1.000 EA
G6FH3804BG	GRINDER GUARD COVER BATTLE SHIP GRAY	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
G6AP1012A02ZP	GRINDER TOOL REST,PU END/RH, ZINC PLATED	1.000 EA
83XN2520A40	1/4-20 X 2 1/2" LONG CARRIAGE BOLT	1.000 EA
HW1023A25	WASHER, 1/4 INT/EX TH LK, ZN X	1.000 EA
HW1023A25	WASHER, 1/4 INT/EX TH LK, ZN X	1.000 EA
HW1023A25	WASHER, 1/4 INT/EX TH LK, ZN X	1.000 EA
HW1023A25	WASHER, 1/4 INT/EX TH LK, ZN X	1.000 EA
HW1000A25	1/4 SAE FLAT WASHER (FS)	1.000 EA
83XN2520A40	1/4-20 X 2 1/2" LONG CARRIAGE BOLT	1.000 EA
HW1000A25	1/4 SAE FLAT WASHER (FS)	1.000 EA
XY2520A03	NUT, WING 1/4-20	1.000 EA

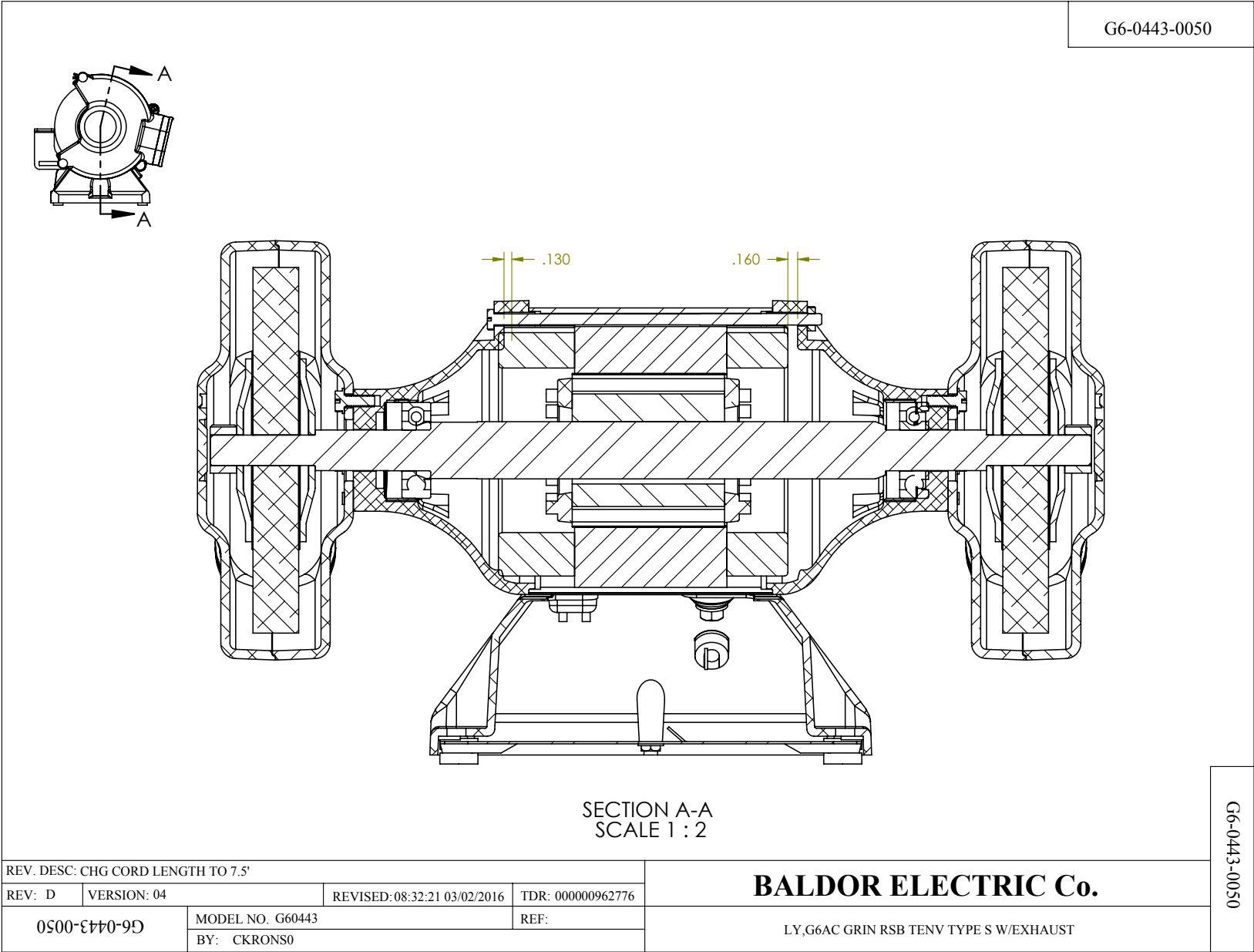
Product Information Packet: 600E - 20S 2P GRNDR

G6FH3804BG	GRINDER GUARD COVER BATTLE SHIP GRAY	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
G6AP1012A01ZP	GRINDER TOOL REST,FR END/LH, ZINC PLATED	1.000 EA
83XN2520A40	1/4-20 X 2 1/2" LONG CARRIAGE BOLT	1.000 EA
HW1000A25	1/4 SAE FLAT WASHER (FS)	1.000 EA
83XN2520A40	1/4-20 X 2 1/2" LONG CARRIAGE BOLT	1.000 EA
HW1000A25	1/4 SAE FLAT WASHER (FS)	1.000 EA
XY2520A03	NUT, WING 1/4-20	1.000 EA
G6AP1013	GRINDER GUARD EXHAUST PLATE	2.000 EA
NP0523L	ALUM NO LOGO'S 6" GRINDER - BUFFER	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
G6AP5002A02	EYE SHIELD GLASS ASSEMBLY FOR 6" GRINDER	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1307	LABEL, WARNING	1.000 EA
LB1030	LABEL, OSHA (ON ROLLS)	1.000 EA
LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 EA
LB1008	LABEL, UL	1.000 EA
MN903	INSTR MANUAL FOR GRINDERS 9/03	1.000 EA
27PA1001	PKG GRP, PRINT      PK1027A06	1.000 EA

Accessories		
Part Number	Description	Multiplier
GA16E	PEDESTAL LIGHT INDUSTRIAL,STEEL	A8
GA16	PEDESTAL INDUSTRIAL, CAST IRON 6" - 10"	A8
B66	6" 36 GRIT GRINDING WHEEL	A8
B67	6" 60 GRIT GRINDING WHEEL	A8
GA14	PEDESTAL FABRICATED STEEL W/SHELVES	A8
GA13	EYE SHIELD GLASS ASSEMBLY FOR 6" GRINDER	A8
BQ1-015-CC	1PH Brake, NEMA 1,110-125 VAC, 50/60Hz	P1
BQ1-015-CP	1PH Brake, Panel 110-125 VAC, 50/60 Hz	P1

No performance data has been  
assigned to this product.





D

C

B

A

ITEM NO.	PART NUMBER	G6-0443-0017/QTY.
1	G6SB0015A00	1
2	G6SH1024	1
3	33RC4120-00	1
4	G6EP3900A01	2
5	HA3107A03	2
6	XY1032A02	2
7	XY5013A12	2
8	XY2520A12	2
9	G6BA3000	1
10	19XX2510A10	2
11	HW1000A25	6
12	HW1001A25	6
13	sp9017	1
14	HA3205A50	1
15	HW1003A50	1
16	G6CB4501	1
17	51XW1032A06	2
18	G6FH3804A01	2
19	A08	8
20	HA6113	4
21	G6AP3000A02	2
22	G6FH3804	2
23	51XB1016A07	4
24	G6AP1012A02	1
25	83XN2520A40	4
26	XY2520-03	2
27	G6AP1012A01	1
28	NP0523_33Frame	1
29	LB1119	1
30	G6_Flex	1
31	85XU0208A02	2
32	LB1030	1
33	LD0158A01	1
34	BG6203	2
35	HW5100A03	2
36	WD4102A01	1
37	RM1012	4

REV. DESC: CHG CORD LENGTH TO 7.5'

REV: D    VERSION: 04    REVISED: 08/32/21 03/02/2016    TDR: 000000962776

MODEL NO. G60443    REF:

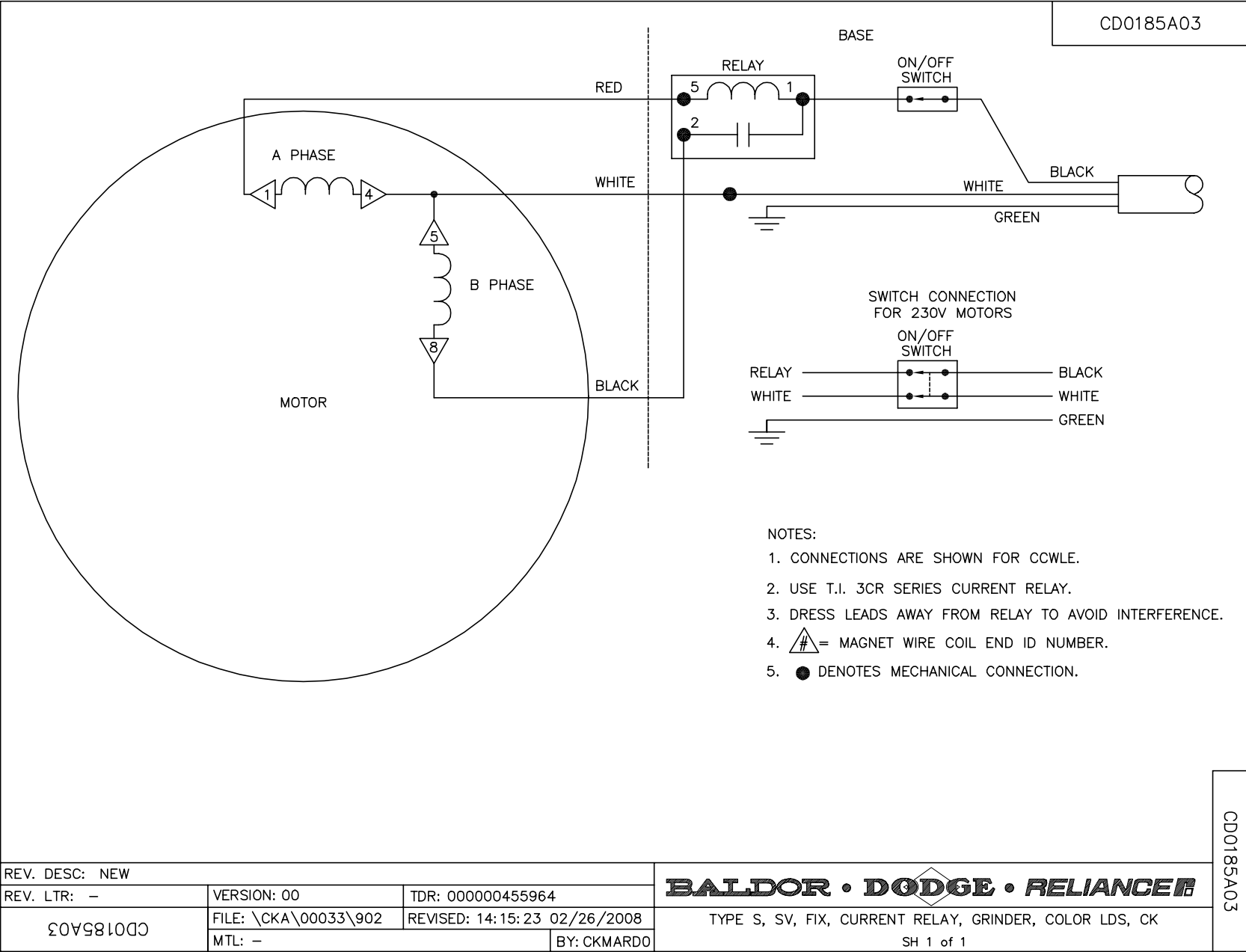
BY: CKRONSO

**BALDOR ELECTRIC Co.**

LY,G6AC GRIN RSB TENV TYPE S W/EXHAUST

G6-0443-0050

B



- NOTES:
1. CONNECTIONS ARE SHOWN FOR CCWLE.
  2. USE T.I. 3CR SERIES CURRENT RELAY.
  3. DRESS LEADS AWAY FROM RELAY TO AVOID INTERFERENCE.
  4. = MAGNET WIRE COIL END ID NUMBER.
  5. DENOTES MECHANICAL CONNECTION.



## Product Information Packet

# 500

.5HP,3600RPM,1PH,60HZ,3524C,3524C,TENV

Part Detail							
Revision:	BH	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	G9WG0343	CD Diagram:	CD0285	Mfg Plant:	
Mech. Spec:	A-559	Layout:	ALY0559	Poles:	02	Created Date:	08-08-2007
Base:	RG	Eff. Date:	12-18-2018	Leads:	3#18		

Specs			
Nameplate Output:	.5		
Product Style:	GRINDER		

Nameplate NP3118			
CAT.NO.	500		
HP	.5	VOLTS	115
PHASE	1	AMPS	5
HZ	60	RPM	3600
SER.NO			
SPEC.	A-559-343		

Parts List		
Part Number	Description	Quantity
SA037565	SA A-559-343	1.000 EA
RA033590	RA A-559-343	1.000 EA
OC3012F12SP	CYL OIL CAP 12MFD/370V	1.000 EA
G8BA3000A02	BASE, MACH	1.000 EA
19XX2510A14	1/4-10 X 7/8 HEX HD PLASTITE SCREW	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
HA6053A01ZP	CLAMP, CAPACITOR 2" DIA, WHITE ZINC PLAT	1.000 EA
51XN1032A04	10-32 X 0.25 HX WS SL SR	3.000 EA
XY1032A01	10/32 SQUARE NUT	3.000 EA
HW1001A10	WASHER, #10 SPLT LK, ZN X	3.000 EA
WD4102A04	SR 7P-2 HEYCO STRN RELIEF OR 22MP07P20 M	1.000 EA
LD5001A01	CORD & PLUG SET 18/3 SJTOW 105C 300V 8'	1.000 EA
WD4006A01	WIRE JOINT,T&B RB-4 OR RB-44	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW1001A10	WASHER, #10 SPLT LK, ZN X	1.000 EA
SP9019SP	SWITCH 7563K6 (EATON)	1.000 EA
HW1003A50	LOCKWASHER,1/2",EXT.TOOTHZINC PLATED	1.000 EA
WD1000A02	41202 AMP RECP.(11M/REEL)NON-CANCELABLE/	4.000 EA
G8CB4500A02	G8-272 BASE COVER,STPD X PLATED	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
G9EP1900A02	ENDPLATE, MACH	1.000 EA
HW5100A04	WAVY WASHER, 204 BRG	1.000 EA
G9EP1900A03	ENDPLATE, MACH	1.000 EA
51XN1032A18	10-32 X 1 1/8 HX WS SL SR (ESKAY)	4.000 EA

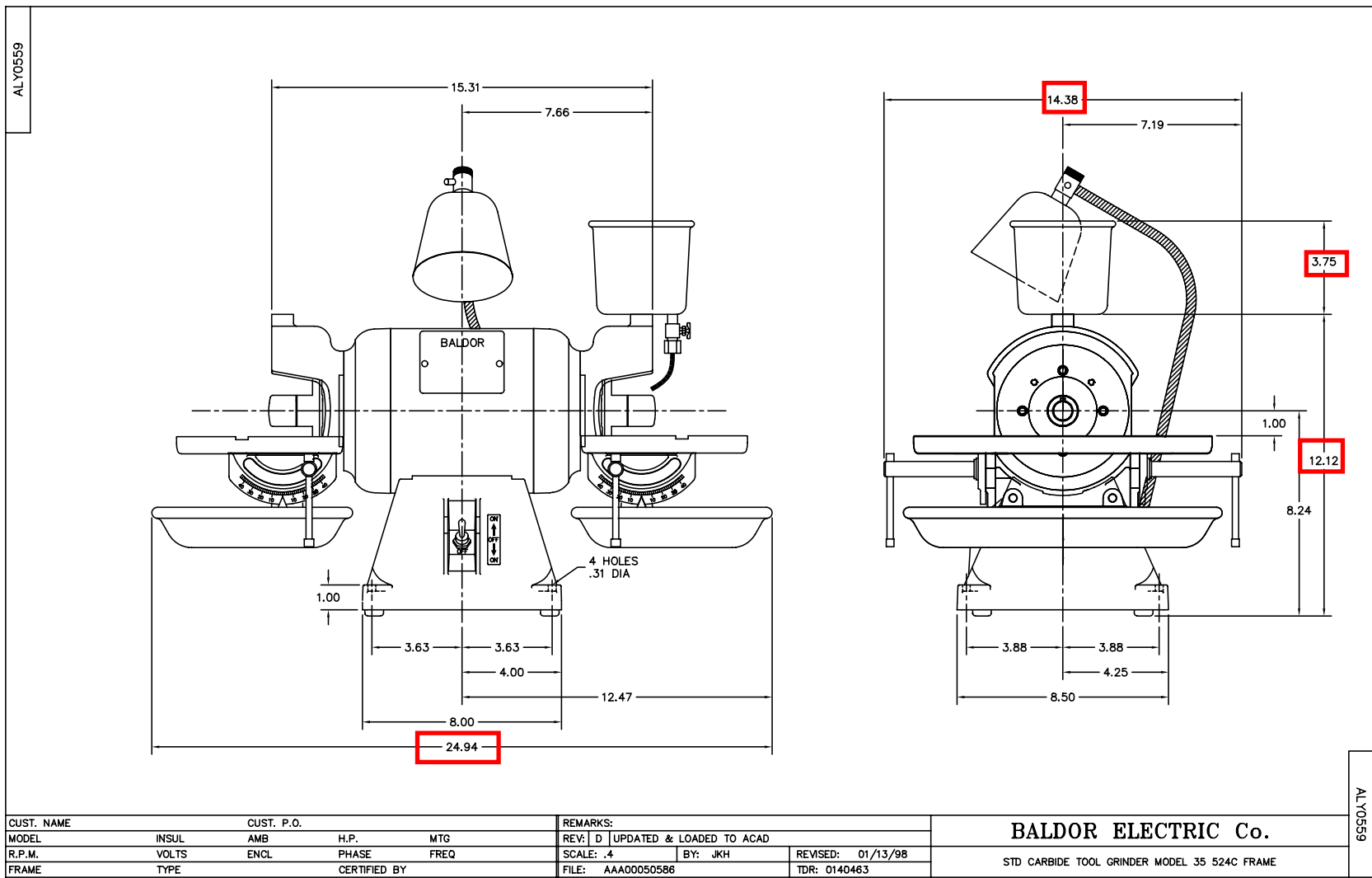
Parts List (continued)		
Part Number	Description	Quantity
HA3100A45	THRUBOLT 10-32 X 8.875	4.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
G9FH1800A01	GRINDER GUARD, MACH	1.000 EA
HA3212A01	DR-1895D TABLE GUIDE PLMS(AUTO.MACH)	4.000 EA
10XN2520A14	1/4 20X7/8 HX HD CAP	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
G9FH1800A01	GRINDER GUARD, MACH	1.000 EA
HA3212A01	DR-1895D TABLE GUIDE PLMS(AUTO.MACH)	4.000 EA
10XN2520A14	1/4 20X7/8 HX HD CAP	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
G9AP1003A01	TABLE CLAMP, MACH AMB	4.000 EA
HA5001A01	HA5001A01 TABLE CL.SCREW WELKER	4.000 EA
HW1000A38	WASHER, 3/8" FLAT, SAE Z/P	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
G9AP1000A01	TABLE, TOOL GR, MACH	2.000 EA
G9AP1001A01	WATER TRAY, 153 CARBIDE TOOL GRINDER	2.000 EA
HA3405A01	DR-798A STUD(AUTO.MACH)	4.000 EA
G9AP1005A02	DR799B LH ANGLE INDICATOR ZINC PLATED	2.000 EA
51XN1032A06	10-32 X .38 HEX SLOTTED SERRATED WASHER	4.000 EA
HA3407A01	DR-780 TABLE STUD(AUTO)	2.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	2.000 EA
G9AP1005A01	DR799A RH ANGLE INDICATOR PLATED	2.000 EA
51XN1032A06	10-32 X .38 HEX SLOTTED SERRATED WASHER	4.000 EA
HA3407A01	DR-780 TABLE STUD(AUTO)	2.000 EA

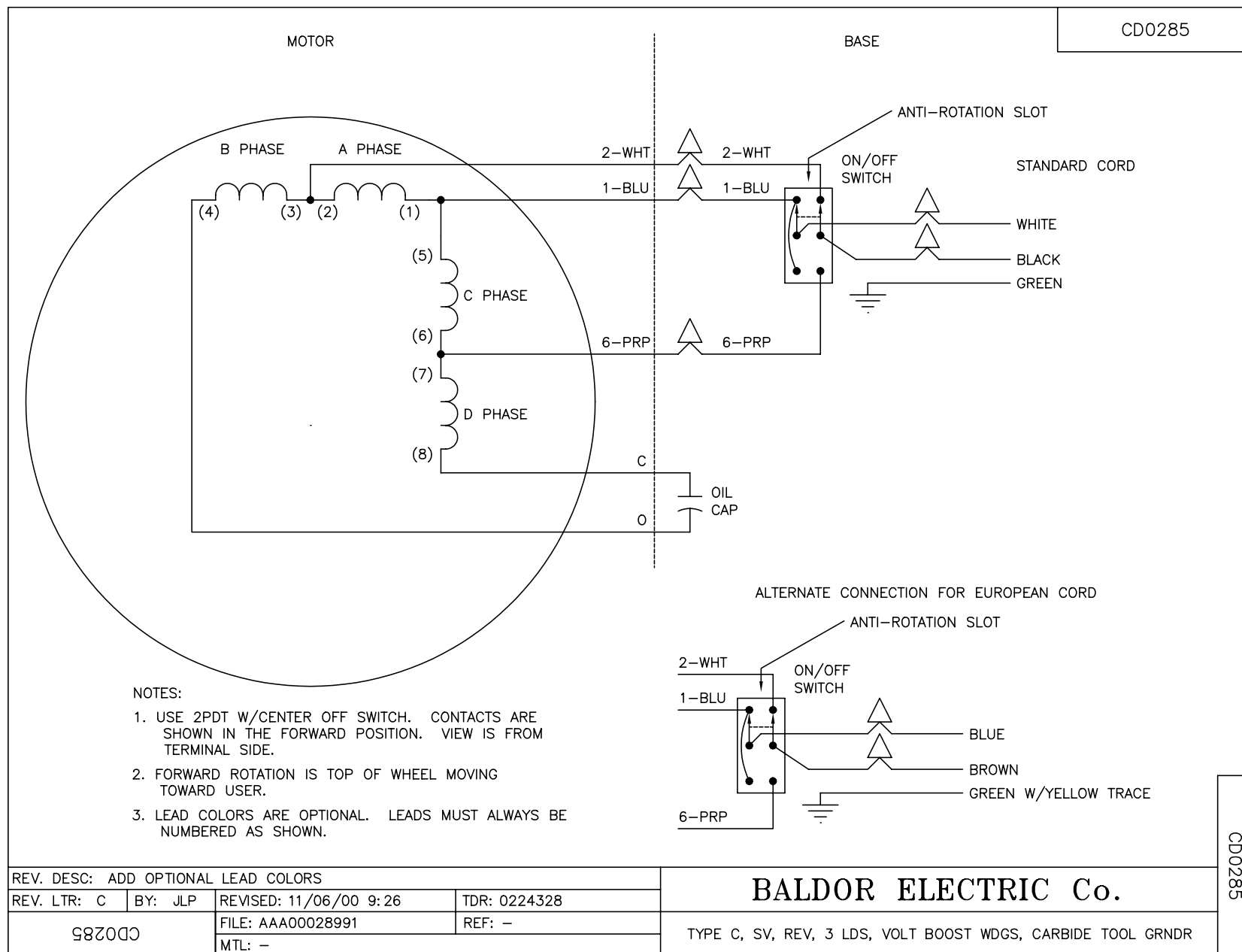
Product Information Packet: 500 - .5HP,3600RPM,1PH,60HZ,3524C,3524C,TENV

XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	2.000 EA
G9AP5000A01SP	TOOL REST ASSEMBLY	1.000 EA
HA6104A01SP	WHEEL FLANGE, MACH	2.000 EA
HA3007A01SP	DR8218 SCREW (WELKER) AISI-1018	8.000 EA
HA3203A12	3/4-16HEX JAM NUT(RH)MACH	2.000 EA
G9AP1008A01	HUB PROTECTOR FOR GRINDER 3.88"OD	2.000 EA
G9AP1008A02	HUB PROTECTOR FOR GRINDER 4.425"OD	2.000 EA
RM1010A06	VNYL CAP 1.125-14 701-89 BLACK S/R Q=	2.000 EA
G9AP5001A01	WATER POT ASSEMBLY	1.000 EA
HA3406A01	DR-798B STUD (AUTO)	2.000 EA
G9AP1006A01SP	GRINDER LIGHT VIMCO	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 EA
HA1005A03SP	SLINGER, OD 1.750, ID .938, 205 BRG	2.000 EA
LB1008	LABEL, UL	1.000 EA
LB1015	LABEL, UL APP CARBIDE GDR	1.000 EA
LB1034	LABEL, "ON" AND "OFF" X	1.000 EA
85XU0407A04	#4-7 X 1/4 DRIVE PIN	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000G01	MUNSELL 5.93PB 3.81/ 2.71	0.017 GA
WD1000A29	3-520140-4 AMP TRM=3.4M/R	6.000 EA
NP3118	ALUM GRINDERS-BUFFERS NO LOGO'S	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
07PA1007	PKG GRP, PRINT PK1156A06	1.000 EA
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS 5,400/RL	0.001 EA
PK1114	CARTON(OPF)GRINDER PARTS,13-1/4X8-1/4X2	2.000 EA
MN905	Inst. Manual for Tool Grinders 9/03	1.000 EA

Accessories		
Part Number	Description	Multiplier
GA16	PEDESTAL INDUSTRIAL, CAST IRON 6" - 10"	A8
GA14	PEDESTAL FABRICATED STEEL W/SHELVES	A8
GA20	PEDESTAL INDUSTRIAL, CAST IRON 8"-14"	A8
GA20E	PEDESTAL LIGHT INDUSTRIAL,STEEL	A8
GA7	DIAMOND NIB FOR GA8	A8
GA8	WHEEL DRESSER	A8
C61	60 GRIT CARBIDE GRINDING WHEEL	A8
C121	120 GRIT CARBIDE GRINDING WHEEL	A8
S46	46 GRIT GRINDING WHEEL/ALUM OXIDE	A8
S61	60 GRIT GRINDING WHEEL/ ALUM. OXIDE	A8
BQ1-015-CC	1PH Brake, NEMA 1,110-125 VAC, 50/60Hz	P1
BQ1-015-CP	1PH Brake, Panel 110-125 VAC, 50/60 Hz	P1

No performance data has been  
assigned to this product.





# BLACK GRANITE SURFACE PLATES

ASME B89.3.7-2013 Fed Spec GGG-P-463c  
Plates smaller than 12" x 18" made to Manufacturer's Spec

TRACEABLE TO NIST

or equivalent natl or intl organization

TWO ACCURACY CERTIFICATION INCLUDED

ISO 17025 accredited cert available at extra charge



0-LEDGE



2-LEDGE



4-LEDGE

## SURFACE PLATES AA GRADE (LABORATORY)

SIZE INCHES W x L x T	0-LEDGE		2-LEDGE		4-LEDGE		OVERALL ACCURACY	REPEAT READING	SHIP WT LB
	\$	Item#	\$	Item#	\$	Item#			
8 x 12 x 2	132.00	8x12x2-AA0	N/A		N/A		.000050"	.000035"	28
9 x 12 x 3	155.00	9x12x3-AA0	N/A		N/A		.000050"	.000035"	40
12 x 12 x 3	177.00	12x12x3-AA0	N/A		N/A		.000050"	.000035"	54
12 x 18 x 3	219.00	12x18x3-AA0	256.00	12x18x3-AA2	292.00	12x18x3-AA4	.000050"	.000035"	81
18 x 18 x 4	376.00	18x18x4-AA0	434.00	18x18x4-AA2	488.00	18x18x4-AA4	.000050"	.000035"	156
18 x 24 x 4	462.00	18x24x4-AA0	508.00	18x24x4-AA2	582.00	18x24x4-AA4	.000075"	.000035"	208
24 x 24 x 4	630.00	24x24x4-AA0	678.00	24x24x4-AA2	728.00	24x24x4-AA4	.000075"	.000045"	278
24 x 36 x 6	944.00	24x36x6-AA0	1,017.00	24x36x6-AA2	1,114.00	24x36x6-AA4	.0001"	.000045"	601
24 x 48 x 6	1,305.00	24x48x6-AA0	1,389.00	24x48x6-AA2	1,584.00	24x48x6-AA4	.000150"	.000045"	802
30 x 48 x 6	1,654.00	30x48x6-AA0	1,775.00	30x48x6-AA2	1,874.00	30x48x6-AA4	.000175"	.000045"	1,002
36 x 36 x 6	1,379.00	36x36x6-AA0	1,516.00	36x36x6-AA2	1,662.00	36x36x6-AA4	.000150"	.000045"	902
36 x 48 x 6	1,930.00	36x48x6-AA0	2,052.00	36x48x6-AA2	2,316.00	36x48x6-AA4	.0002"	.000045"	1,203
36 x 60 x 8	2,414.00	36x60x8-AA0	2,607.00	36x60x8-AA2	2,894.00	36x60x8-AA4	.000250"	.000060"	1,966
36 x 72 x 10	2,966.00	36x72x10-AA0	3,255.00	36x72x10-AA2	3,618.00	36x72x10-AA4	.0003"	.000060"	2,914
48 x 48 x 8	2,757.00	48x48x8-AA0	2,888.00	48x48x8-AA2	3,101.00	48x48x8-AA4	.0002"	.000060"	2,097
48 x 60 x 8	3,136.00	48x60x8-AA0	3,495.00	48x60x8-AA2	3,738.00	48x60x8-AA4	.0003"	.000060"	2,621
48 x 72 x 10	3,712.00	48x72x10-AA0	3,931.00	48x72x10-AA2	4,219.00	48x72x10-AA4	.000350"	.000060"	3,885
48 x 96 x 12	6,210.00	48x96x12-AA0	6,357.00	48x96x12-AA2	6,658.00	48x96x12-AA4	.0005"	.000075"	5,920

## SURFACE PLATES A GRADE (INSPECTION)

SIZE INCHES W x L x T	0-LEDGE		2-LEDGE		4-LEDGE		OVERALL ACCURACY	REPEAT READING	SHIP WT LB
	\$	Item#	\$	Item#	\$	Item#			
8 x 12 x 2	105.00	8x12x2-A0	N/A		N/A		.0001"	.000060"	28
9 x 12 x 3	126.00	9x12x3-A0	N/A		N/A		.0001"	.000060"	40
12 x 12 x 3	146.00	12x12x3-A0	N/A		N/A		.0001"	.000060"	54
12 x 18 x 3	185.00	12x18x3-A0	219.00	12x18x3-A2	256.00	12x18x3-A4	.0001"	.000060"	81
18 x 18 x 3	295.00	18x18x3-A0	333.00	18x18x3-A2	414.00	18x18x3-A4	.0001"	.000060"	121
18 x 24 x 3	351.00	18x24x3-A0	389.00	18x24x3-A2	424.00	18x24x3-A4	.000150"	.000060"	162
24 x 24 x 3	486.00	24x24x3-A0	552.00	24x24x3-A2	630.00	24x24x3-A4	.000150"	.000070"	216
24 x 36 x 4	668.00	24x36x4-A0	745.00	24x36x4-A2	843.00	24x36x4-A4	.0002"	.000070"	416
24 x 48 x 6	1,064.00	24x48x6-A0	1,146.00	24x48x6-A2	1,282.00	24x48x6-A4	.0003"	.000070"	802
30 x 48 x 6	1,339.00	30x48x6-A0	1,456.00	30x48x6-A2	1,558.00	30x48x6-A4	.000350"	.000070"	1,002
36 x 36 x 6	1,138.00	36x36x6-A0	1,275.00	36x36x6-A2	1,353.00	36x36x6-A4	.0003"	.000070"	902
36 x 48 x 6	1,545.00	36x48x6-A0	1,653.00	36x48x6-A2	1,798.00	36x48x6-A4	.0004"	.000070"	1,203
36 x 60 x 6	2,004.00	36x60x6-A0	2,124.00	36x60x6-A2	2,341.00	36x60x6-A4	.0005"	.000080"	1,503
36 x 72 x 8	2,607.00	36x72x8-A0	2,799.00	36x72x8-A2	3,136.00	36x72x8-A4	.0006"	.000080"	2,359
48 x 48 x 6	2,105.00	48x48x6-A0	2,235.00	48x48x6-A2	2,448.00	48x48x6-A4	.0004"	.000080"	1,603
48 x 60 x 6	2,773.00	48x60x6-A0	3,014.00	48x60x6-A2	3,270.00	48x60x6-A4	.0006"	.000080"	2,004
48 x 72 x 8	3,088.00	48x72x8-A0	3,304.00	48x72x8-A2	3,618.00	48x72x8-A4	.0007"	.000080"	3,145
48 x 96 x 10	5,404.00	48x96x10-A0	5,544.00	48x96x10-A2	5,822.00	48x96x10-A4	.001"	.0001"	4,933

Custom and Larger Sizes, Inserts, and Holes Quoted on Request

**\$140.00 ORDER MINIMUM**

01012019PG4200

Effective January 1, 2019

Page 2 of 10

EXPORT HANDLING FEE WILL APPLY FOR SHIPMENTS OUTSIDE OF USA

HEAT TREATED WOOD PACKAGING QUOTED ON REQUEST

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

MADE IN USA

## STEEL STANDS



The ASME B89.3.7-2013 and Fed. Spec. GGG-P-463c recommends three fixed points to support the surface plate and minimize sag and warp. **PRECISION GRANITE®** plates are marked on the bottom of the plate to coincide with the supports on the top of the stand. When aligned with each other they uphold the accuracy of the plate.

**PRECISION GRANITE®** standard stands are manufactured to support the weight of the surface plate plus 50 pounds per square foot load. Stands are made for each plate to meet a 36" working height unless specified otherwise.

43

36 YEARS

(/)

0

(/cart)

Grizzly | SKU: G3155 | Model # G3155

8" x 20" Surface Grinder  
G3155

Be the First to Write a review

Grizzly G3155 - 8" x 20" Surface Grinder

\$4,950<sup>00</sup>  
In Stock

Add to Cart



tap to zoom



\$4,950<sup>00</sup>  
+\$375<sup>00</sup> Freight ⓘ

Available to Ship

Qty ▼  
1

Add to Cart

Starting at \$173/month with **affirm**. Prequalify now

⚠ California Proposition 65 Warning (<https://cdn0.grizzly.com/prop65/prop65message1.html>)

♥ Add to Wish List

Close



Related Items:

[View All \(https://www.grizzly.com/products/G3155/related\)](https://www.grizzly.com/products/G3155/related)

Grizzly | SKU: G3155 | **Model # G3155**

**8" x 20" Surface Grinder**

(<https://www.grizzly.com/products/Rotary-Phase-Converter-5-HP>)

Rotary Phase Converter - 5 HP

(<https://www.grizzly.com/products/Black-Grease-Resistant-Mat-32-x-32-x-1/4>)

Black Grease Resistant Mat 32" x 32" x 1/4"

(<https://www.grizzly.com/products/20-Amp-250V-NEMA-Lock-Plug>)

20 Amp 250V NEMA Lock Plug

~~\$969<sup>00</sup>~~

**\$795<sup>00</sup>**

~~\$4,950<sup>00</sup>~~

**\$3,349<sup>95</sup>**

**In Stock**

**Add to Cart**

Item# G5844

Item# H6572

Item# T28420

Product Resources >

In the Catalog >

Documents

Overview

This is the big brother to the G3104 surface grinder for those who need more capacity. Heavy castings, smooth operation, and dependable precision are built into this well-made unit. Check out the specs below and you will see this is an incredible value for a machine of this quality.

Features:

- ▶ Flood coolant system
- ▶ Column dial
- ▶ Cross feed dial
- ▶ Cast iron cabinet
- ▶ One-shot lubrication
- ▶ Power indicator lights
- ▶ Work light
- ▶ 7-7/8" x 15-3/4" magnetic chuck
- ▶ Grinding wheel balancing kit
- ▶ Dressing diamond with mount
- ▶ Cast iron construction
- ▶ Includes 24-grit grinding wheel



Specifications:

▶ Motor: 3 HP, 200V, 3-phase, 6.8A



3/4"

1/8"

Grizzly | SKU: G3155 | Model # G3155

## 8" x 20" Surface Grinder

Distance to wheel: 13-7/8"

Spindle, 7/8" head

▶ Grinding wheel: 1-1/4" B x 3/4" W x 8" D

▶ Maximum grinding area: 10" x 21-1/2"

▶ Overall dimensions: 66" W x 43" D x 64" H

▶ Column size: 9-1/4" x 12-3/4"

▶ Spindle diameter: 1-1/4"

▶ Spindle speed: 3450 RPM

▶ Approximate shipping weight: 1898 lbs.

\$4,950<sup>00</sup>  
In Stock

Add to Cart

### Comparisons

### Reviews

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[Contact \(/contact\)](/contact)

## Baldor 602E 6" Grinder/Buffer, 3,600 RPM - Stamp Steel Tool Rest, Exhaust Type



Brand : Baldor

\$249.00

1

ADD TO CART



SKU:

BAL602E

Shipping:

Calculated in Cart

PRODUCT DESCRIPTION

PRODUCT REVIEWS

### Baldor 6" Industrial Grinder Cast


Cast aluminum wheel guards can be exhausted or left closed. 8-foot power cord. Base mounted on/off switch. Rubber feet minimize vibration.

#### Features:

- Supplied with one 6" X ¾" X ½" 36 grit wheel and one wire brush wheel
- Exhaust type wheels guards can be connected to a standard 3.00" shop vacuum hose.
- Furnished with GA13 eyeshields. U.L. Listed, Designed to comply with OSHA standards under normal usage.
- Built for heavy-duty grinding, powered by 1/3 HP Baldor split-phase motor. Slim design provides extra clearance for grinding odd shaped pieces. Gate exhaust-type guards accommodate a standard 3" shop vacuum hose.
- Adjustable stamp-steel tool rest, spark breaks and eyeshields. Wheels are 6" diameter.

CLICK HERE

## For More Baldor Options

Offline. Leave a Message. 

- Includes 8 ft. 3 conductor power cord. Base mounted on/off switch and rubber feet to minimize vibration
- Shipping Weight: 27 lbs, UL Agency Approval, Supplied with 36 grit and 0.014 wire wheel, Stamp Steel Tool Rests

Applications:

General purpose grinding. Used for shaping objects by removing material. Sharpen small tools.

*Manufacturer's Warranty Only*

*Most Baldor grinders in stock and usually ship in 24 hours.*


Specifications:

Catalog Number:	602E
Specification Number:	G6-0444-0017
Horsepower:	1/3
Voltage:	115
Hertz:	60
Phase:	1
Amps:	3.1
RPM:	3600
Insulation:	
Baldor Type:	3320S
Max Wheel Size:	6 inches
Bearings:	6203
Mechanical Specification Number:	G6LY0444
Electrical Specification Number:	G6WG0017
UL Listed:	Yes
CSA Certified:	No

RELATED PRODUCTS

<

>

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Baldor

Baldor GAgS Lighted  
Eyeshields (With On/Off  
Switch)

**\$159.00**

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Baldor GA10 Eyeshields (pair)

**\$69.00**

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Baldor

Baldor GA14 Pedestal

**\$239.00**

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Baldor

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## WHAT'S NEW

### BVA Cylinders | Aluminum vs. Steel, What's right for you?

Aluminum vs. Steel BVA  
Cylinders Aluminum cylinders  
provide a great alternative to the  
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### Price Matching

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## Product Information Packet

# 600RE

20S 2P GRNDR (RED PAINT)

Part Detail							
Revision:	Q	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	G6WG0050	CD Diagram:	CD0185A03	Mfg Plant:	
Mech. Spec:		Layout:	G6-0443-0050	Poles:	02	Created Date:	10-10-2008
Base:		Eff. Date:	12-12-2018	Leads:	2#18		

Specs			
Nameplate Output:	.33		
Product Style:	GRINDER		

Nameplate NP0523L					
CAT.NO.	600RE	HP	.33	HZ	60
VOLTS	115	AMPS	3.1		
SPEC.	G6-0443-0050G1				
RPM	3600	SER.			

Parts List		
Part Number	Description	Quantity
SA176377	SA G6-0443-0050G1	1.000 EA
RA164454	RA G6-0443-0050G1	1.000 EA
RE1020SP	C.S.RELAY 3CR-738-169(TI)	1.000 EA
G6BA3000BR	G6-264 BASE, CAST RED POWDER COAT	1.000 EA
60XM2520A12	SCREW,PAN TORX 1/4-20X.750 THREAD FORMIN	2.000 EA
HW1000A25	1/4 SAE FLAT WASHER (FS)	2.000 EA
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	1.000 EA
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	1.000 EA
HW1023A25	WASHER, 1/4 INT/EX TH LK, ZN X	2.000 EA
LD0090B120	LD,01 6.5" BLK W/INSU FLAG TERM	1.000 EA
51XN0832A08	08-32 #10 & SMALLER HEX WASHER HEAD, SL	1.000 EA
LD0158A02	CORD & PLUG ASSY 18-3 SJT 8' LONG	1.000 EA
WD4102A01	SR-6L-1 HEYCO STRN RELIEF OR 23MPO6L10 M	1.000 EA
SP9017SP	SWITCH 758OK8 (C-H)	1.000 EA
HA3205A50	U550-N SWITCH NUT/CARLING	1.000 EA
HW1003A50	LOCKWASHER,1/2",EXT.TOOTHZINC PLATED	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
G6CB4501L	BASE COVER PLATE 6" GRINDER BLACK	1.000 EA
RM1012	6" GRINDER FOOT	4.000 EA
11XT1032A06	10-32 X 3/8 HX WSHR HD SLTD TYPE 23	2.000 EA
G6EP3900A01BR	EP,G6AC DE CL 6203 BIG RED POWDER COATIN	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
HA3107A03	10-32 X 5.375 THRUBOLT OHIO	2.000 EA
G6EP3900A01BR	EP,G6AC DE CL 6203 BIG RED POWDER COATIN	1.000 EA

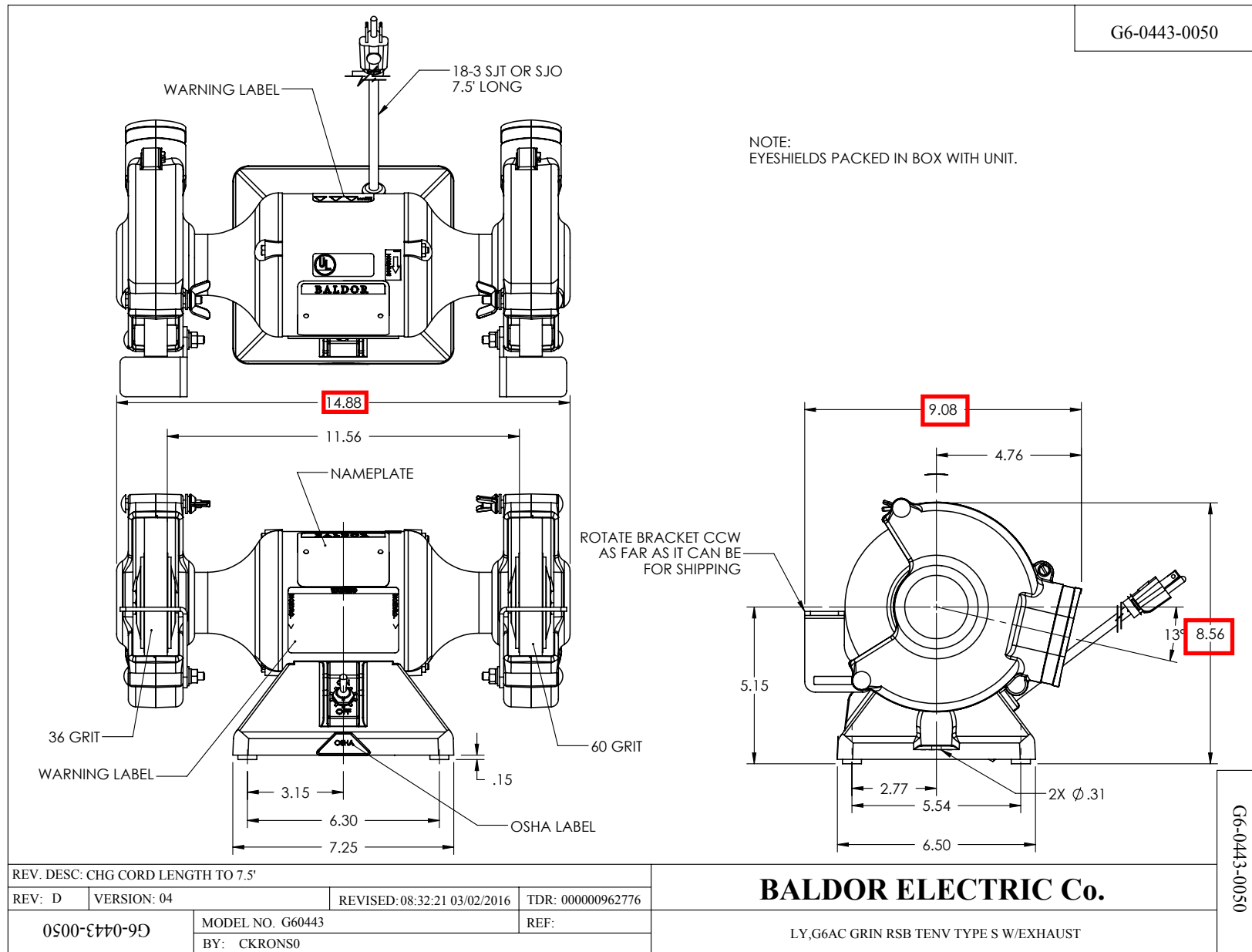
Parts List (continued)		
Part Number	Description	Quantity
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	2.000 EA
G6FH3804A01BR	GRINDER GUARD COVER, BIG RED POWDER COAT	1.000 EA
51XF1032A08	10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED	4.000 EA
G6FH3804A01BR	GRINDER GUARD COVER, BIG RED POWDER COAT	1.000 EA
51XF1032A08	10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED	4.000 EA
HA6113SP	GRINDER FLANGE, STAMPED ZINC PLATED	2.000 EA
G6AP3000A02	A60N6V10 6X3/4X1/2 60GRITB67	1.000 EA
XY5020A12SP	1/2-20 NUT R.H. HEX (NF)	1.000 EA
HA6113SP	GRINDER FLANGE, STAMPED ZINC PLATED	2.000 EA
B66	A36N5V10 6X3/4X1/2 36GRITB66	1.000 EA
XY5020A62SP	1/2-20 NUT L.H. HEX (NF)X	1.000 EA
G6FH3804BR	GRINDER GUARD COVER, BIG RED POWDER COAT	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
G6AP1012A02ZP	GRINDER TOOL REST,PU END/RH, ZINC PLATED	1.000 EA
83XN2520A40	1/4-20 X 2 1/2" LONG CARRIAGE BOLT	1.000 EA
HW1023A25	WASHER, 1/4 INT/EX TH LK, ZN X	1.000 EA
HW1023A25	WASHER, 1/4 INT/EX TH LK, ZN X	1.000 EA
HW1023A25	WASHER, 1/4 INT/EX TH LK, ZN X	1.000 EA
HW1023A25	WASHER, 1/4 INT/EX TH LK, ZN X	1.000 EA
HW1000A25	1/4 SAE FLAT WASHER (FS)	1.000 EA
83XN2520A40	1/4-20 X 2 1/2" LONG CARRIAGE BOLT	1.000 EA
HW1000A25	1/4 SAE FLAT WASHER (FS)	1.000 EA
XY2520A03	NUT, WING 1/4-20	1.000 EA

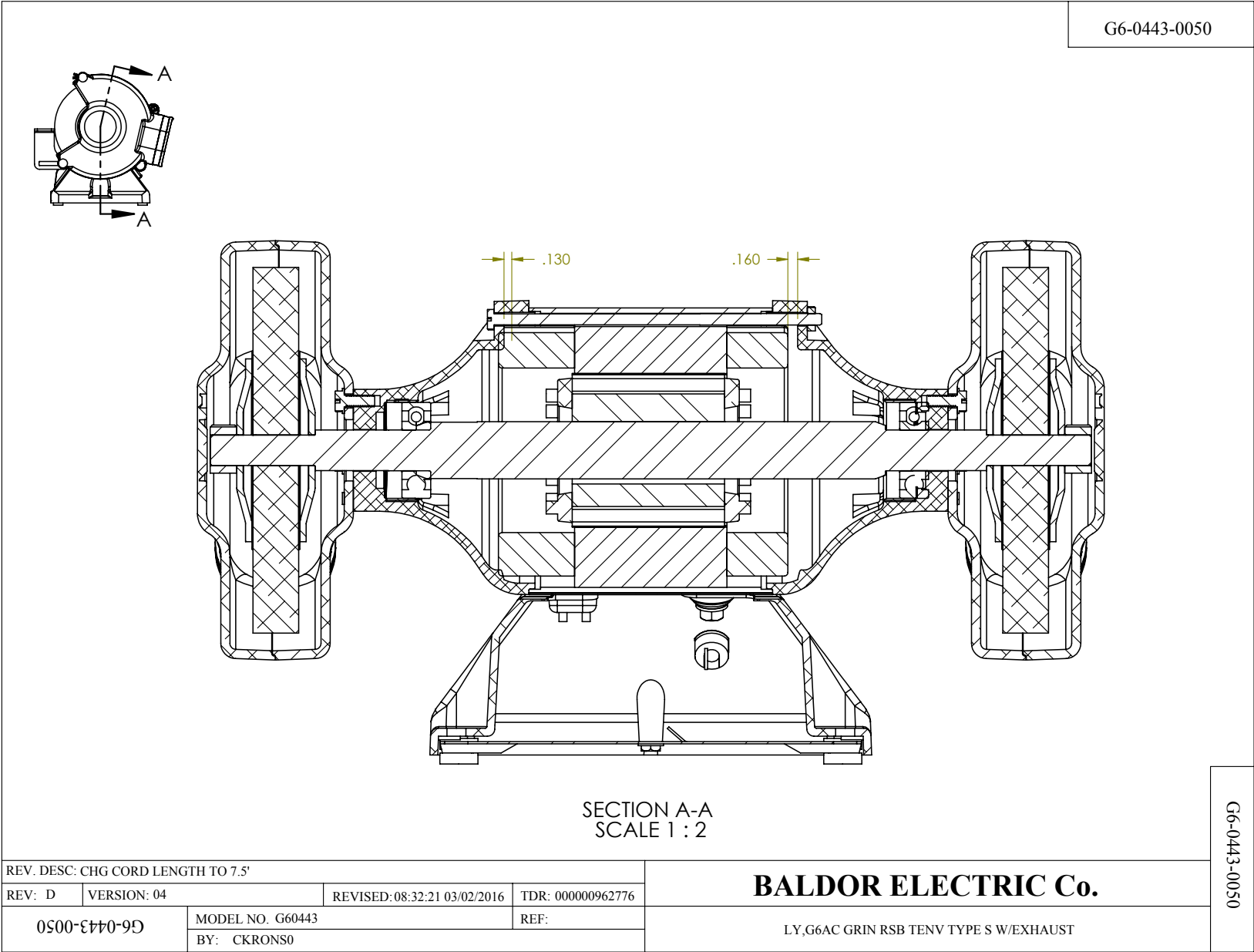
Product Information Packet: 600RE - 20S 2P GRNDR (RED PAINT)

G6FH3804BR	GRINDER GUARD COVER, BIG RED POWDER COAT	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
G6AP1012A01ZP	GRINDER TOOL REST,FR END/LH, ZINC PLATED	1.000 EA
83XN2520A40	1/4-20 X 2 1/2" LONG CARRIAGE BOLT	1.000 EA
HW1000A25	1/4 SAE FLAT WASHER (FS)	1.000 EA
83XN2520A40	1/4-20 X 2 1/2" LONG CARRIAGE BOLT	1.000 EA
HW1000A25	1/4 SAE FLAT WASHER (FS)	1.000 EA
XY2520A03	NUT, WING 1/4-20	1.000 EA
G6AP1013	GRINDER GUARD EXHAUST PLATE	2.000 EA
NP0523L	ALUM NO LOGO'S 6" GRINDER - BUFFER	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
G6AP5002A02	EYE SHIELD GLASS ASSEMBLY FOR 6" GRINDER	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1307	LABEL, WARNING	1.000 EA
LB1030	LABEL, OSHA (ON ROLLS)	1.000 EA
LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 EA
LB1008	LABEL, UL	1.000 EA
MN903	INSTR MANUAL FOR GRINDERS 9/03	1.000 EA
27PA1001	PKG GRP, PRINT      PK1027A06	1.000 EA

Accessories		
Part Number	Description	Multiplier
GA16RE	PEDESTAL LIGHT INDUSTRIAL,STEEL-RED	A8
GA14R	PEDESTAL FABRICATED STEEL W/SHELVES-RED	A8
GA16R	PEDESTAL IND., CAST IRON 6" - 10" RED	A8
GA13	EYE SHIELD GLASS ASSEMBLY FOR 6" GRINDER	A8
B66	6" 36 GRIT GRINDING WHEEL	A8
B67	6" 60 GRIT GRINDING WHEEL	A8
BQ1-015-CC	1PH Brake, NEMA 1,110-125 VAC, 50/60Hz	P1
BQ1-015-CP	1PH Brake, Panel 110-125 VAC, 50/60 Hz	P1

No performance data has been  
assigned to this product.





D

C

B

A

ITEM NO.	PART NUMBER	G6-0443-0017/QTY.
1	G6SB0015A00	1
2	G6SH1024	1
3	33RC4120-00	1
4	G6EP3900A01	2
5	HA3107A03	2
6	XY1032A02	2
7	XY5013A12	2
8	XY2520A12	2
9	G6BA3000	1
10	19XX2510A10	2
11	HW1000A25	6
12	HW1001A25	6
13	sp9017	1
14	HA3205A50	1
15	HW1003A50	1
16	G6CB4501	1
17	51XW1032A06	2
18	G6FH3804A01	2
19	A08	8
20	HA6113	4
21	G6AP3000A02	2
22	G6FH3804	2
23	51XB1016A07	4
24	G6AP1012A02	1
25	83XN2520A40	4
26	XY2520-03	2
27	G6AP1012A01	1
28	NP0523_33Frame	1
29	LB1119	1
30	G6_Flex	1
31	85XU0208A02	2
32	LB1030	1
33	LD0158A01	1
34	BG6203	2
35	HW5100A03	2
36	WD4102A01	1
37	RM1012	4

REV. D

VERSION: 04

REVISED: 08/32/21 03/02/2016

TDR: 000000962776

MODEL NO. G60443

REF:

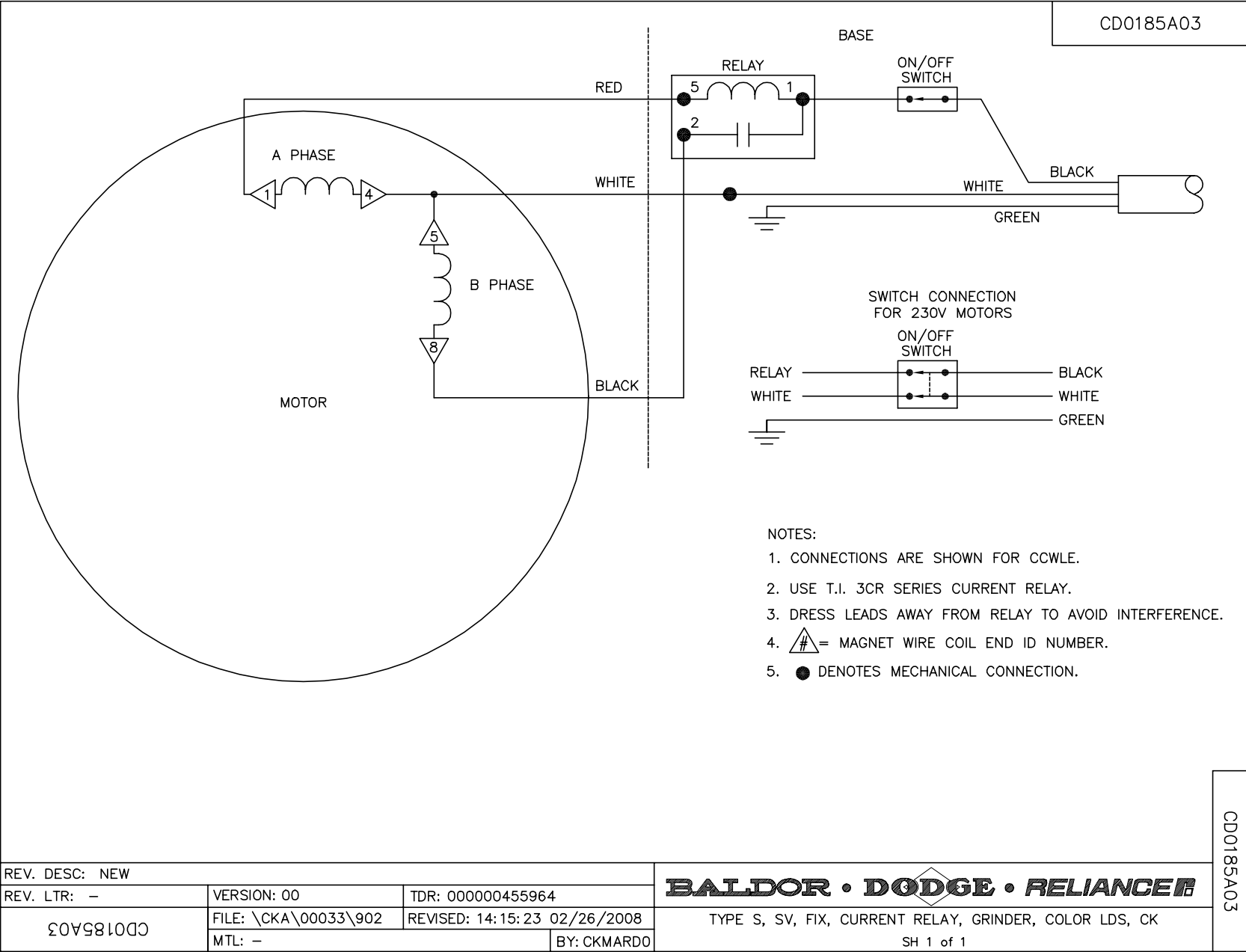
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**BALDOR ELECTRIC Co.**

LY.G6AC GRIN RSB TENV TYPE S W/EXHAUST

G6-0443-0050

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- NOTES:
1. CONNECTIONS ARE SHOWN FOR CCWLE.
  2. USE T.I. 3CR SERIES CURRENT RELAY.
  3. DRESS LEADS AWAY FROM RELAY TO AVOID INTERFERENCE.
  4. = MAGNET WIRE COIL END ID NUMBER.
  5. DENOTES MECHANICAL CONNECTION.



# VBS-2012, 20" VERTICAL BANDSAW

414482

The line of JET Vertical Bandsaws offers machine and fabrication professionals all the power and precision in a package that meets their individual specifications. An exclusive gear box design permits variety of cutting applications. Features you've come to expect, backed by the industry-leading JET Two Year Warranty



## FEATURES

- Heavy-duty bandsaw, can handle large production pieces on its extra-large table
- Multi-tilting worktable
- Easy to read blade tension indicator
- Variable speeds provide proper adjustments for high efficiency cutting
- Bi-Metal blade welder, grinder and cutter
- Work lamp
- Chip blower
- Blade and tire cleaning brush
- Set of tools
- 1/4" x 14/18VT Bi-Metal blade



## JET RED ASSURANCE 2-YEAR WARRANTY

JET warrants every product it sells. If one of our tools needs service or repair, one of our Authorized Service Centers located throughout the United States can give you quick service. In most cases, any of these JPW Industries Authorized Service Centers can authorize warranty repair, assist you in obtaining parts, or perform routine maintenance and major repair on your JET tools. For the name of an Authorized Service Center in your area call 1-800-274-6848.

# STAND BEHIND YOUR WORK

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# VBS-2012, 20" VERTICAL BANDSAW

414482

46

## SPECIFICATIONS

Blade Speeds (SFPM)	65 - 3,280
Height Capacity (Max.) (In.)	12
Throat Capacity (In.)	20
Table Size (L x W) (In.)	24 x 22-1/2
Table Tilt (Deg.)	8 F & B, 15 R & 12 L
Blade Length (In.)	156-1/2
Blade Width (Min.-Max.) (In.)	1/8 - 1
Table Height (In.)	39-1/2
Motor (HP)	2 HP, 230/460V, 3Ph
Overall Dimensions (L x W x H) (In.)	42 x 30 x 79
Weight (Lbs.)	1,244



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# J-2221VS, 20" VARIABLE SPEED DRILL PRESS 115/230V 1PH

354221

All the precision operation and control on a heavy-duty cast iron base. Variable speed spindles, front mounted positive control depth stop and other features that enhance overall operation make these JET 20" Variable Speed Drill Presses a machinist's first choice.

47

## FEATURES

- Heavy-duty steel column for increased precision and rigidity
- Variable spindle speeds from 300 to 2,000 RPM
- Easy-to-read internal depth gauge
- Large production table and T-slotted dish in base
- Table can be raised from front or side
- Table rotates 360° around column
- MT-3 Spindle taper



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INDUSTRY-LEADING WARRANTIES

EXPERT TECHNICAL SERVICE

# J-2221VS, 20" VARIABLE SPEED DRILL PRESS 115/230V 1PH

354221

## SPECIFICATIONS

Style (Type)	Variable
Drills to Center of Circle (in)	20
Drilling Capacity Cast Iron (In.)	1-1/4
Drilling Capacity Mild Steel (In.)	1
Distance Column to Spindle (In.)	10-7/16
Number of Spindle Speeds	Variable
Range of Spindle Speeds (RPM)	300 - 2,000
Column Diameter (In.)	4-1/2
Spindle Taper (In. x TPI)	MT-3
Spindle Travel (In.)	6
Spindle Distance to Base (In.)	43-5/16
Spindle Distance to Table (Max.) (In.)	30-1/4
Table Travel (In.)	18
T-Slots Number and Size (In.)	2 and 5/8
T-Slot Centers (In.)	7-7/16
Table Size (L x W) (In.)	18-1/8 x 14-3/4
Work Table Weight Capacity (Lbs.)	176



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EXPERT TECHNICAL SERVICE



# Operating Instructions and Parts Manual 20-inch Variable Speed Drill Presses

Models: J-2221VS, J-2223VS, J-2232AC, J-2234AC



J-2221VS  
J-2223VS



J-2232AC  
J-2234AC

**JET**  
427 New Sanford Road  
LaVergne, Tennessee 37086  
Ph.: 800-274-6848  
[www.jettools.com](http://www.jettools.com)

**Part No. M-354221**  
Revision E1 06/2017  
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# Warranty and Service

JET warrants every product it sells against manufacturers' defects. If one of our tools needs service or repair, please contact Technical Service by calling 1-800-274-6846, 8AM to 5PM CST, Monday through Friday.

## Warranty Period

The general warranty lasts for the time period specified in the literature included with your product or on the official JET branded website.

- JET products carry a limited warranty which varies in duration based upon the product. (See chart below)
- Accessories carry a limited warranty of one year from the date of receipt.
- Consumable items are defined as expendable parts or accessories expected to become inoperable within a reasonable amount of use and are covered by a 90 day limited warranty against manufacturer's defects.

## Who is Covered

This warranty covers only the initial purchaser of the product from the date of delivery.

## What is Covered

This warranty covers any defects in workmanship or materials subject to the limitations stated below. This warranty does not cover failures due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair, alterations or lack of maintenance. JET woodworking machinery is designed to be used with Wood. Use of these machines in the processing of metal, plastics, or other materials outside recommended guidelines may void the warranty. The exceptions are acrylics and other natural items that are made specifically for wood turning.

## Warranty Limitations

Woodworking products with a Five Year Warranty that are used for commercial or industrial purposes default to a Two Year Warranty. Please contact Technical Service at 1-800-274-6846 for further clarification.

## How to Get Technical Support

Please contact Technical Service by calling 1-800-274-6846. **Please note that you will be asked to provide proof of initial purchase when calling.** If a product requires further inspection, the Technical Service representative will explain and assist with any additional action needed. JET has Authorized Service Centers located throughout the United States. For the name of an Authorized Service Center in your area call 1-800-274-6846 or use the Service Center Locator on the JET website.

## More Information

JET is constantly adding new products. For complete, up-to-date product information, check with your local distributor or visit the JET website.

## How State Law Applies

This warranty gives you specific legal rights, subject to applicable state law.

## Limitations on This Warranty

JET LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

JET SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

JET sells through distributors only. The specifications listed in JET printed materials and on official JET website are given as general information and are not binding. JET reserves the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever. JET® branded products are not sold in Canada by JPW Industries, Inc.

## Product Listing with Warranty Period

90 Days – Parts; Consumable items
1 Year – Motors; Machine Accessories
2 Year – Metalworking Machinery; Electric Hoists, Electric Hoist Accessories; Woodworking Machinery used for industrial or commercial purposes
5 Year – Woodworking Machinery
Limited Lifetime – JET Parallel clamps; VOLT Series Electric Hoists; Manual Hoists; Manual Hoist Accessories; Shop Tools; Warehouse & Dock products; Hand Tools; Air Tools

NOTE: JET is a division of JPW Industries, Inc. References in this document to JET also apply to JPW Industries, Inc., or any of its successors in interest to the JET brand.

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# Warnings

- Misuse of this machine can cause serious injury.
- For safety, machine must be set up, used and serviced properly.
- Read, understand and follow instructions in the Operating Instructions and Parts Manual which was shipped with your machine.

## When setting up machine:

- Always avoid using machine in damp or poorly lighted work areas.
- Always be sure the machine support is securely anchored to the floor or the work bench.

## When using machine:

- Always wear safety glasses with side shields (See ANSI Z87.1)
- Never wear loose clothing or jewelry.

- Never overreach—you may slip and fall.

## When servicing machine:

- Always disconnect the machine from its electrical supply while servicing.
- Always follow instructions in Operating Instructions and Parts Manual when changing accessory tools or parts.
- Never modify the machine without consulting JET.

## You—the stationary power tool user—hold the key to safety.

Read and follow these simple rules for best results and full benefits from your machine. Used properly, JET machinery is among the best in design and safety. However, any machine used improperly can be rendered inefficient and unsafe. It is absolutely mandatory that those who use our products be properly trained in how to use them correctly. They should read and understand the Operating Instructions and Parts Manual as well as all labels affixed to the machine. Failure in following all of these warnings can cause serious injuries.

## Machinery General Safety Warnings

1. Always wear protective eye wear when operating machinery. Eye wear shall be impact resistant, protective safety glasses with side shields which comply with ANSI Z87.1 specifications. Use of eye wear which does not comply with ANSI Z87.1 specifications could result in severe injury from breakage of eye protection.
2. Wear proper apparel. No loose clothing or jewelry which can get caught in moving parts. Rubber soled footwear is recommended for best footing.
3. Do not overreach. Failure to maintain proper working position can cause you to fall into the machine or cause your clothing to get caught, pulling you into the machine.
4. Keep guards in place and in proper working order. Do not operate the machine with guards removed.
5. Avoid dangerous working environments. Do not use stationary machine tools in wet or damp locations. Keep work areas clean and well lit.
6. Avoid accidental starts by being sure the start switch is "OFF" before plugging in the machine.
7. Never leave the machine running while unattended. Machine shall be shut off whenever it is not in operation.
8. Disconnect electrical power before servicing. Whenever changing accessories or general maintenance is done on the machine, electrical power to the machine must be disconnected before work is done.
9. Maintain all machine tools with care. Follow all maintenance instructions for lubricating and the changing of accessories. No attempt shall be made to modify or have makeshift repairs done to the machine. This not only voids the warranty but also renders the machine unsafe.
10. Machinery must be anchored to the floor.
11. Secure work. Use clamps or a vise to hold work, when practical. It is safer than using your hands and it frees both hands to operate the machine.
12. Never brush away chips while the machine is in operation.
13. Keep work area clean. Cluttered areas invite accidents.
14. Remove adjusting keys and wrenches before turning machine on.

15. Use the right tool. Don't force a tool or attachment to do a job for which it was not designed.
16. Use only recommended accessories and follow manufacturer's instructions pertaining to them.
17. Keep hands in sight and clear of all moving parts and cutting surfaces.
18. All visitors should be kept at a safe distance from the work area. Make workshop completely safe by using padlocks, master switches, or by removing starter keys.
19. Know the tool you are using — its application, limitations, and potential hazards.

**Familiarize yourself with the following safety notices used in this manual:**

**CAUTION** This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.

**WARNING** This means that if precautions are not heeded, it may result in serious or even fatal injury.

## General Electrical Cautions

This drill press should be grounded in accordance with the National Electrical Code and local codes and ordinances. This work should be done by a qualified electrician. The saw should be grounded to protect the user from electrical shock.

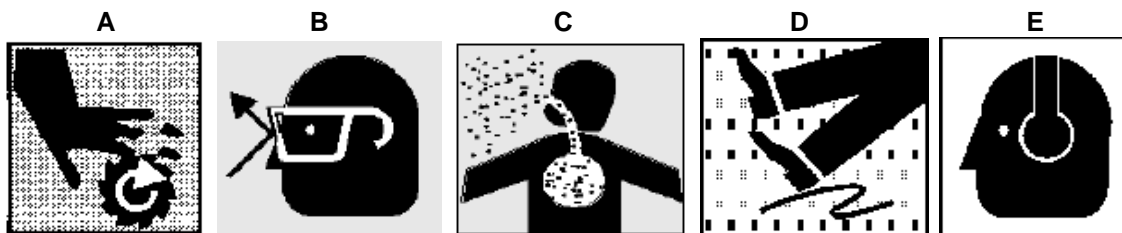
### Wire sizes

**Caution:** For circuits which are far away from the electrical service box, the wire size must be increased in order to deliver ample voltage to the motor. To minimize power losses and to prevent motor overheating and burnout, the use of wire sizes for branch circuits or electrical extension cords according to the following table is recommended.

Conductor Length	AWG (American Wire Gauge) number	
	240 Volt lines	120 Volt lines
0-50 feet	No. 14	No. 14
50-100 feet	No. 14	No. 12
Over 100 feet	No. 12	No. 8

# Safety Instructions for Drill Presses

1. All work shall be secured using either clamps or a vise to the drill press table. It is unsafe to use your hands to hold any workpiece being drilled.
2. Drill press head and table shall be securely locked to the column before operating the drill press. This must always be checked prior to starting the machine.
3. Always use the correct tooling. Tooling shall always be maintained and properly sharpened. All tooling must be run at the proper speeds and feeds as they apply to the job. Use only recommended accessories and follow those manufacturer's instructions pertaining to them. Tooling shall not be forced in to any work piece but fed according to the proper specifications. Failure to follow these instructions will not only ruin the tooling as well as the machine, but can cause serious injury.
4. Never brush away any chips while the machine is in operation. All clean up should be done when the machine is stopped.
5. Keep hands in sight. Do not put hands or fingers around, on, or below any rotating cutting tools. Leather safety gloves should be used when handling any sharp objects or cutting tools. See Figure A.
6. Always wear protective eye wear when operating, servicing or adjusting machinery. Eyewear shall be impact resistant, protective safety glasses with side shields complying with ANSI Z87.1 specifications. Use of eye wear which does not comply with ANSI Z87.1 specifications could result in severe injury from breakage of eye protection. Figure B.
7. When drilling in material which causes dust, a dust mask shall be worn. See Figure C.
8. Avoid contact with coolant, especially guarding the eyes.
9. Non-slip footwear and safety shoes are recommended. See Figure D.
10. Wear ear protectors (plugs or muffs) during extended periods of operation. See Figure E.



## Introduction

This manual is provided by JET covering the safe operation and maintenance procedures for a JET 20-inch Variable Speed Drill Press. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. This machine has been designed and constructed to provide years of trouble free operation if used in accordance with instructions set forth in this manual. If there are any questions or comments, please contact either your local supplier or JET. JET can also be reached at our web site: [www.jettools.com](http://www.jettools.com).

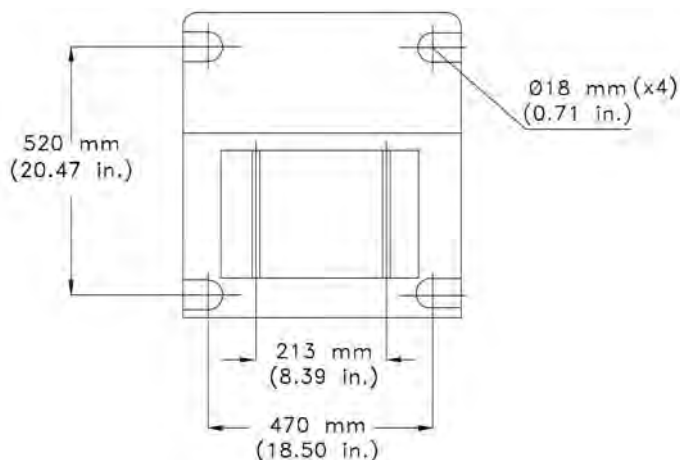
# General Specifications

The JET 20-inch Variable Speed Drill presses Models J-2221VS, J-2223VS, J-2232AC and J-2234AC are available in manual speed control or inverter speed control configuration. Electrical power options are single-phase, 115 and 220 volts; or 3-phase, 440 volts.

	<u>Manual Speed Control Models</u>		<u>Inverter Speed Control Models</u>	
Model .....	<b>J-2221VS</b>	<b>J-2223VS</b>	<b>J-2232AC</b>	<b>J-2234AC</b>
Stock Number .....	354221	354223	354214	354216
Drilling Capacity:				
Cast Iron (in.) .....	1-1/4	1-1/4	1-1/2	1-1/2
Steel (in.) .....	1	1	1-3/8	1-3/8
Spindle to Table Max. (in.) .....	30-1/4	30-1/4	30-1/4	30-1/4
Spindle to Base Max. (in.) .....	44-1/2	44-1/2	44-1/2	44-1/2
Spindle to Column Max. (in.) .....	10-7/16	10-7/16	10-7/16	10-7/16
Motor:				
Rating .....	2HP, 1-Phase	2HP, 3-Phase	2HP, 3-Phase	2HP, 3-Phase
Voltage .....	115/220V	220/440V	220V	440V
Pre-wired Voltage .....	115V	220V	220V	440V
T-Slots (Table/Base):				
Number .....	2	2	2	2
Size (in.) .....	5/8	5/8	5/8	5/8
Column Diameter (in.) .....	4-1/2	4-1/2	4-1/2	4-1/2
Spindle:				
Travel (in.) .....	6	6	6	6
Taper .....	MT-3	MT-3	MT-3	MT-3
RPM (variable) .....	300-2000	300-2000	65-2000	65-2000
Quill:				
Diameter (in.) .....	3	3	3	3
Travel (in.) .....	6	6	6	6
Table:				
Overall Size (in.) .....	22 x 18-3/4	22 x 18-3/4	22 x 18-3/4	22 x 18-3/4
Working Surface (in.) .....	18-1/8 x 14-3/4	18-1/8 x 14-3/4	18-1/8 x 14-3/4	18-1/8 x 14-3/4
Travel (in.) .....	18	18	18	18
Base:				
Overall Size (in.) .....	26 x 19	26 x 19	26 x 19	26 x 19
Working Surface (in.) .....	15-1/4 x 12-1/16	15-1/4 x 12-1/16	15-1/4 x 12-1/16	15-1/4 x 12-1/16
Overall Dimensions:				
Length (in.) .....	34-1/4	34-1/4	36-5/8	36-5/8
Width (in.) .....	27	27	27	27
Height (in.) .....	78	78	78	78
Net Weight .....	715 lbs.(325 kgs.)	715 lbs.(325 kgs.)	792 lbs.(325 kgs.)	792 lbs.(325 kgs.)

The above specifications were current at the time this manual was published, but because of our policy of continuous improvement, JET reserves the right to change specifications at any time and without prior notice, without incurring obligations.

## Hole centers in Base (all models)



The JET Model J-2221VS and J-2223VS drill presses feature manual speed control. Models J-2232AC and J-2234AC have inverter speed control. This manual contains procedures for both speed control versions. The manual provides separate instructions when differences in operation and maintenance exist.

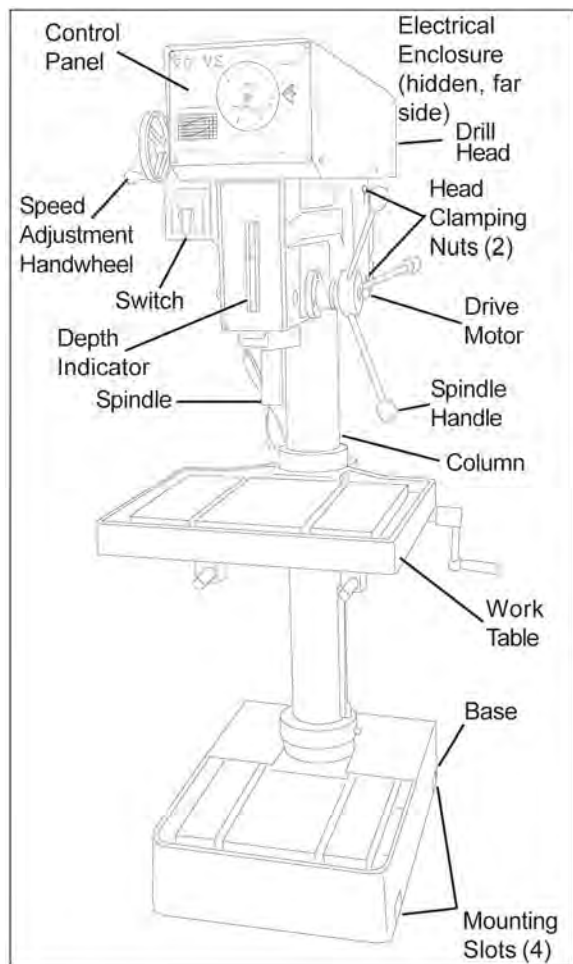
Refer to Figures 1 and 2 for key features of the drill press.

## Operation and Set-Up

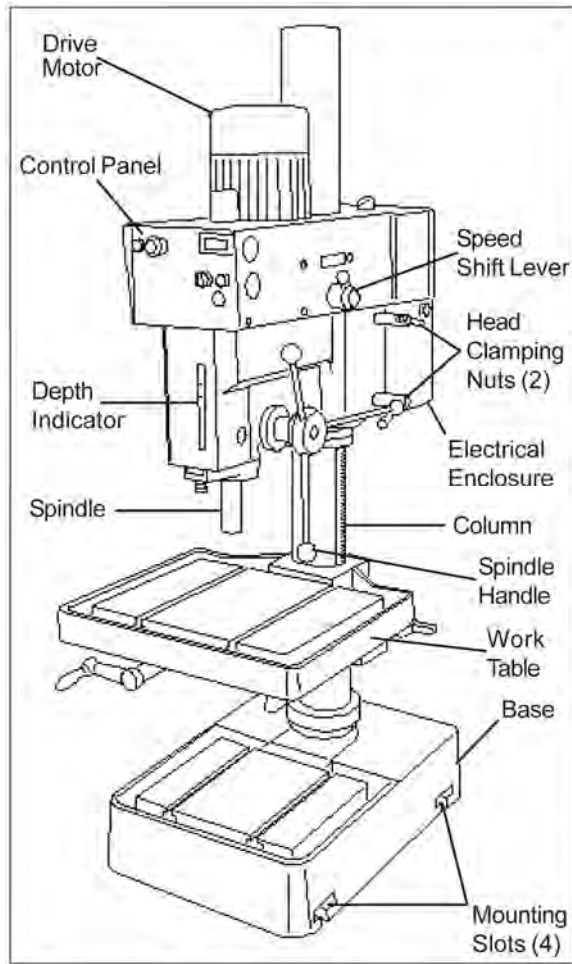
### Securing the Base

The base of the drill press has four mounting slots; two slots on both sides of the base. The drill press should be level and rest solidly on the floor. Place shims under the four mounting slots in the base as needed to level the drill press.

When securing the base to the floor, apply even torque to the fasteners to prevent distortion of the base.



*Figure 1*  
*Drill Press Features*  
*(Manual Speed Control Model)*



*Figure 2*  
*Drill Press Features*  
*(Inverter Speed Control Model)*

## Raising the Drill Head and Table

The drill press is shipped with the table and drill head supported by wooden blocks near the bottom of the column.

The head is raised to the operating position using a strap and hoist, then secured to the column by tightening the hex cap screw. The table is raised to the desired position using the crank handle. See *Adjustments* section for more information.

## Electrical Connection

**⚠ WARNING** Electrical connections must be made by a qualified electrician in compliance with all relevant codes. This machine must be properly grounded to help prevent electrical shock and possible fatal injury.

Refer to the *Wiring Diagram* section for wiring information.

The Drill Press is not supplied with a power cord. To connect power, you may either install a power cord with a UL/CSA listed plug, or hard wire the machine directly to a service panel.

If the drill press is to be hard-wired to a panel, make sure a disconnect is available for the operator. (During hard-wiring of the machine, make sure the fuses have been removed or the breakers have been tripped in the circuit to which the drill press will be connected.)

**Manual control models:** Model J-2221VS (1-Phase) is pre-wired for 110 volts. Model J-2223VS (3-Phase) is pre-wired for 220 volts.

**NOTE:** If rewiring the J-2221VS or J-2223VS for alternate voltage, you must reconnect the wire on the LED display accordingly (Figure 3), in addition to changing the motor leads.

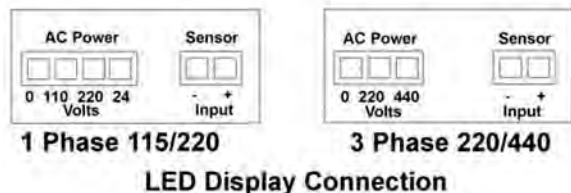


Figure 3

**Inverter control models:** Model J-2232AC (3-Phase) is pre-wired for 220 volt only. The machine can also be run on 1-Phase power by hooking up the ground, L1 and L2 wires, as explained below.

Model J-2234AC (3-Phase) is pre-wired for 440 volt only.

To wire the drill press with inverter control:

If using a power cord, strip back the cord until about 3 to 4 inches of the lead wires are exposed.

Slide a grommet onto the cord to be installed later in the control box hole, to prevent stress to the power cord.

1. Bring the lead wires through the hole in the side of the control box and connect as follows (refer to Figure 3a):
2. If your incoming power is **single phase**, connect the two leads to L1 and L2, and the green ground wire to the grounding screw.

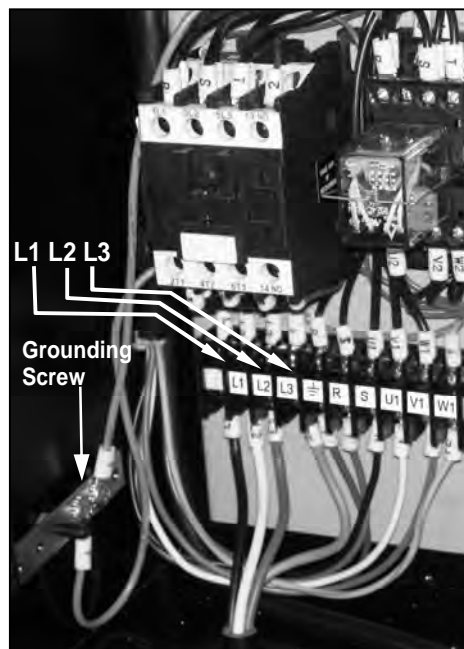


Figure 3a

3. If your incoming power is **three phase**, connect the three leads to L1, L2 and L3, and the green ground wire to the grounding screw.

***This drill press must be properly grounded.*** Make sure the green ground wire is secured to the grounding screw as described.

Make sure the power available matches the power requirement of the drill. When the drill is connected properly, the spindle turns clockwise in a conventional drilling rotation. If the spindle does not turn clockwise, disconnect the drill from the power supply and reverse two of the three power leads (except ground wire *green*).

# Operating Controls

## Manual Speed Control (Models J-2221VS and J-2223VS)

Refer to Figure 4.

### Spindle Selector Switch

A three-position selector switch is provided at the left side of the drill head. It is used to select spindle rotation: reverse (REV), off (OFF), and forward (FWD).

### Speed Control Hand Wheel

**CAUTION** To avoid damage to the speed adjustment mechanism, the drive motor must be operating before attempting to adjust the speed setting.

A speed control hand wheel is provided on the left front of the head (Figure 4). The handle is turned clockwise to increase spindle speed and counterclockwise to reduce speed. To set the speed, the speed control handle is turned until the pointer on the front panel is at the desired speed.

### Speed Indicator

An LED spindle speed indicator is provided on the front panel. The LED indicates speeds from 300 to 2000 rpm.

A selector switch is provided at the left side of the drill head. The two-position switch is used to start and stop the drive motor.

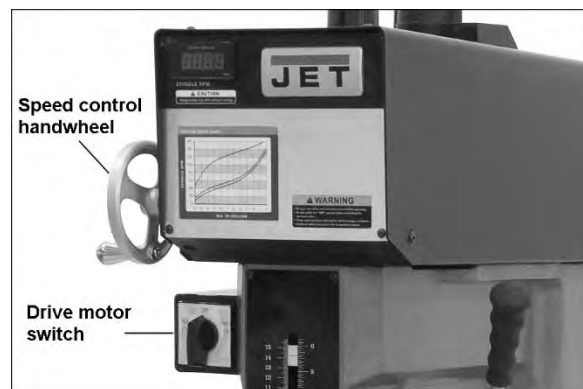


Figure 4  
Control Panel (Manual Speed Control)

## Inverter Speed Control (Models J-2232AC and J-2234AC)

### Speed Shift Lever

**CAUTION** To avoid damage to the speed adjustment mechanism, the drive motor must be operating before attempting to adjust the speed setting.

A speed shift lever is on the right side of the head (refer to Figure 2 for location). The handle is turned clockwise to increase spindle speed and counterclockwise to reduce speed.

### Front Panel

The front panel (Figure 5) is mounted on the front of the drill head. The panel contains all the controls required to operate the drill press. There are additional controls on the inverter mounted on the left side of the drill head. The inverter is pre-programmed at the factory and the settings are not to be changed!

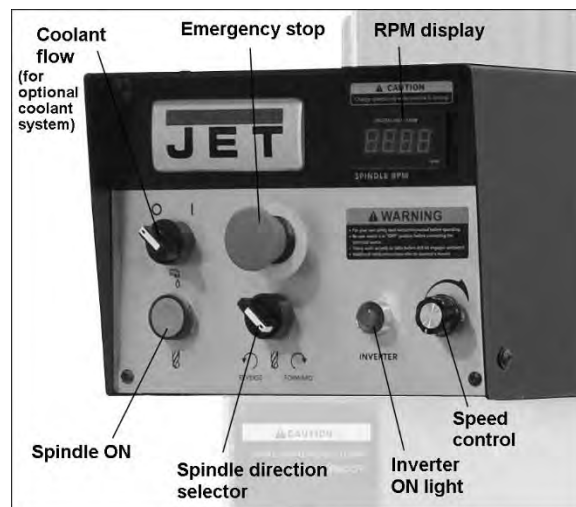


Figure 5  
Control Panel (Inverter Control)

### Inverter On Indicator

The INVERTER ON light indicates that the inverter is powered up.

### Spindle On Pushbutton Switch

The SPINDLE ON pushbutton is used to start the drive motor. To stop the motor, the pushbutton is pressed (the switch toggles on and off).

### Emergency Stop Pushbutton Switch

The mushroom shaped EMG. STOP pushbutton switch provides a quick means of stopping the drive motor. To reset the pushbutton switch, the knob is turned clockwise (as shown on the face of the knob).

### RPM Display

The spindle speed display shows the spindle RPM selected by the speed control knob.

### Spindle Speed Knob

The SPINDLE SPEED knob is used to set the desired spindle speed (clockwise increases).

## Spindle Selector

The SPINDLE selector switch is used to set the desired direction of spindle rotation. The REV. (reverse) setting will provide counterclockwise rotation. The FOR. setting will provide clockwise rotation.

## Drilling Speed Chart

A DRILLING SPEED CHART is provided on the front panel. The chart can be used to select the speed required for various drill sizes (0.196 inch to 1.000 inch — 5 mm to 25 mm) and materials (steel, cast iron, aluminum, and copper). The chart defines spindle speeds from 300 to 2000 RPM.

## Depth Indicator — All Models

Refer to Figure 6.

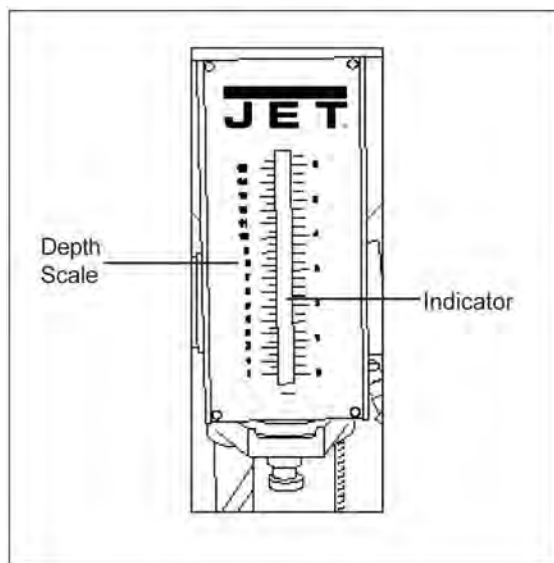


Figure 6

A drilling depth indicator is provided on the front of the drill head. The indicator can be set for depths up to 6.5 inches (16.5 mm). A knurled knob is provided at the front, underside of the head. Before starting the motor, set the end of the drill against the surface into which the hole is to be drilled. The indicator is zeroed out using the knurled knob. The motor is started and the hole drilled until the indicator pointer reaches the desired depth.

## Maintenance

### Replacement of Drive Belt

**⚠ WARNING** Make sure to disconnect electrical power to the drill press to avoid the possibility of inadvertent operation and exposure to potentially lethal voltage levels.

### Manual Speed Control (Models J-2221VS and J-2223VS)

1. Start drill press. Set speed control to highest speed. Stop drill press.
2. Disconnect electrical power by setting drill press circuit breaker to OFF.
3. Remove head cover.
4. Remove belt. (With speed control setting at the highest speed, the belt should be loose enough to remove.)
5. Install the replacement belt. Install the head cover.
6. Set the drill press circuit breaker ON.
7. Operate the drill press to verify correct operation.

### Inverter Speed Control (Models J-2232AC and J-2234AC)

1. Disconnect electrical power by setting drill press circuit breaker to OFF.
2. Remove pan screws from small cover (around column). Remove pan screws and eight bolts from head cover.
3. Loosen set screw and remove shift lever.
4. Remove plastic spindle cup.
5. Remove head cover. Leave small cover in place.
6. Disconnect electrical wiring from motor junction box. Remove motor from mounting plate.
7. Remove motor mounting plate.
8. Remove three screws from pulley covers (discs). Remove used belt. Install the replacement belt.
9. Install pulley covers and secure with three screws in each pulley cover.
10. Install motor mounting plate. Install motor and connect electrical wiring (refer to *Wiring Diagram* section for wiring details).
11. Install the head cover and secure with pan screws and eight bolts.
12. Secure small head cover to head cover using pan screws.
13. Set the drill press circuit breaker ON.
14. Operate the drill press to verify correct operation.

## Replacement of Motor

**⚠WARNING** Make sure to disconnect electrical power to the drill press to avoid the possibility of inadvertent operation and exposure to potentially lethal voltage levels.

**Manual Speed Control** (Models J-2221VS and J-2223VS)

1. Remove drive belt (refer to *Replacement Of Drive Belt*).
2. Disconnect electrical wiring from motor junction box.
3. Remove nuts from mounting studs securing motor to drill head. Remove motor.
4. Remove upper and lower pulleys and related components from motor shaft.
5. Install upper and lower pulleys and related components on replacement motor shaft.
6. Install motor on mounting studs and secure with nuts.
7. Connect electrical wiring (refer to *Wiring Diagram* section for wiring details).
8. Install drive belt (refer to *Replacement Of Drive Belt*).
9. Operate drill press to verify proper operation.

**Inverter Speed Control** (Models J-2232AC and J-2234AC)

Refer to *Replacement Of Drive Belt* for instructions on removal of the drive motor.

## Lubrication

Following are lubrication recommendations for drill press components.

**Manual Speed Control** (Models J-2221VS and J-2223VS)

1. Spindle pulley drive: Lubricate spindle splines occasionally with light grease.
2. Quill and column: Lubricate with light film of oil.
3. Lift rack: Lubricate regularly with SAE 20 oil (clean rack with kerosene before applying oil).
4. Variable drive:
  - a. Speed control fork: service oil hole with SAE 20 oil once a week.
  - b. Countershaft spindle and push rod: Lubricate with SAE 20 oil occasionally.
  - c. Speed control handle cam: Clean and grease with medium cup grease annually.

**Inverter Speed Control** (Models J-2232AC and J-2234AC)

1. Spindle pulley drive: Lubricate spindle splines occasionally with light grease.
2. Quill and column: Lubricate with light film of oil.
3. Lift rack: Lubricate regularly with SAE 20 oil (clean rack with kerosene before applying oil).
4. Variable speed drive:
  - a. Periodically check oil level in sight gauge on (left side of head) (refer to *Figure 7*).
  - b. If level is below centerline of sight gauge, add oil.
  - c. To add oil, remove oil fill tube cover plate. Pull fill tube out of hole in head cover.
  - d. Add SAE 20 oil to bring oil level up to the centerline of the sight gauge.
  - e. Put end of fill tube back through hole in head cover. Install fill tube cover and secure with two screws.

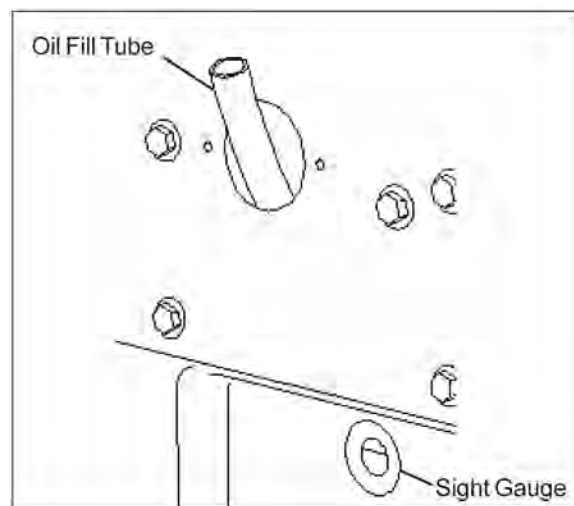


Figure 7

# Adjustments

## Table Adjustment

Refer to Figure 8.

The table can be raised or lowered to accommodate the height of the workpiece. To raise or lower the table, loosen the table lock using the hand crank. Then use the hand crank to move the table to the desired height. Then lock the table in position.

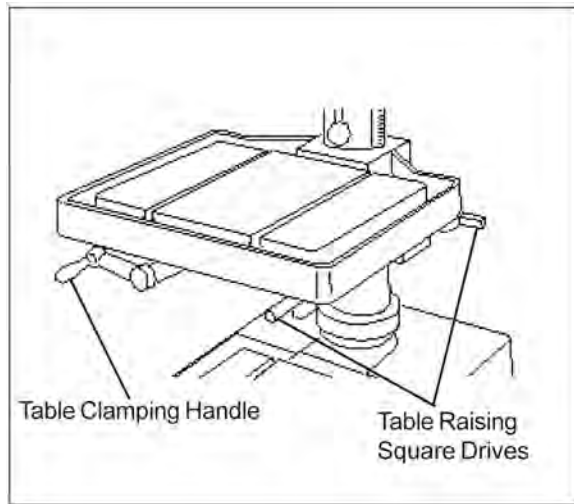


Figure 8

## Radial Head Adjustment (All Models)

**⚠ WARNING** Change the radial position of the drill head only if the drill press base is secured to the floor. Swinging the drill head without the base being secured to the floor will cause the drill press to become unstable and tip over resulting in injury and/or damage to the machine.

The radial position of the drill head can be changed to accommodate the drilling of a hole that may be offset from the center of the table. Reposition the drill head as follows:

1. Loosen the two clamping hex nuts using the hex socket wrench provided with the machine.
2. The swing the drill head to the desired position.
3. Tighten the two clamping nuts.

## Speed Pickup Adjustment (All Models)

1. Loosen screws securing speed pickup (ref. 68A, page 23) to plate (ref. 69A, page 23).
2. Adjust the speed pickup gap to approximately 1/8-inch. Re-tighten screws.

3. Operate drill press to verify that speed readout is operating correctly.

## Operating Precautions

The following operating and safety precautions must be observed in order to avoid harm to the operator or damage to the drill press.

1. The head assembly must be locked to the column so the thrust produced by drilling will not force the head assembly up the column.
2. The work table must be locked to the column so it will not be forced down the column.
3. Before drilling, release the quill lock nut to permit free travel of the quill.
4. Be sure the belt is tightened to the proper tension.
5. **DO NOT** start to drill the workpiece until making certain the workpiece is held down securely.
6. **MAKE SURE THE DRIVE MOTOR IS RUNNING BEFORE** turning the speed control handwheel in either direction.
7. Point of operation protection is required for maximum safety. This remains the responsibility of the user/purchaser since conditions differ between jobs.
8. Make sure the drill is secured in the spindle or chuck before attempting to use the drill press.
9. Make sure the spindle taper is clean and free of burrs, scoring, and galling to assure maximum gripping.

# Drilling Recommendations

## Speeds for Drilling

The speed of a drill is usually measured in terms of the rate at which the outer periphery of the tool moves in relation to the work being drilled. The common term for this is Surface Feet per Minute (SFM). The relationship of SFM is expressed in the following formulas:

$$\text{SFM} = 0.26 \times \text{rpm} \times \text{Drill Diameter (in inches)}$$

$$\text{RPM} = 3.8 \times \frac{\text{SFM}}{\text{Drill diameter (in inches)}}$$

In general, the higher the speed the shorter the drill life. Operating at the low end of the speed range for a particular material will result in longer life. The most efficient speed for operating a drill depends on many variables:

1. Composition and hardness of material.
2. Depth of the hole.
3. Efficiency of the cutting fluid.
4. Type and condition of the drilling machine.
5. Desired quality of the hole.
6. Difficulty of set-up.

## Feeds for Drilling

The feed of a drill is governed by the size of the tool and the material drilled. Because the feed rate partially determines the rate of production and also is a factor in tool life, it should be chosen carefully for each job. In general, the most effective feeds will be found in the following ranges:

<b>Diameter of Drill (inches)</b>	<b>Feed per Revolution (inches)</b>
Under 1/8 .....	0.001 to 0.002
1/8 to 1/4 .....	0.002 to 0.004
1/4 to 1/2 .....	0.004 to 0.007
1/2 to 5/8 .....	0.007 to 0.015

## Indication of Extreme Speeds and Feeds

A drill that splits up the web is evidence of too much feed or insufficient tip clearance at the center as a result of improper grinding. The rapid wearing away of the extreme outer corners of the cutting edges indicates that the speed is too high. A drill chipping or braking out at the cutting edges indicates that either the feed is too heavy or the drill has been ground with too much tip clearance.

## Speeds for High Speed Steel Drills

<b>Material</b>	<b>Speed In SFPM</b>
Alloy Steel — 300 to 400 Brinell .....	20 - 30
Stainless Steel .....	30 - 40
Automotive Steel Forgings.....	40 - 50
Tool Steel, 1.2C .....	50 - 60
Steel, .4C to .5C.....	70 - 80
Mild Machinery Steel, .2C to .3C .....	80 - 110
Hard Chilled Cast Iron .....	30 - 40
Medium Hard Cast Iron.....	70 - 100
Soft Cast Iron .....	100 - 150
Malleable Iron .....	80 - 90
High Nickel Steel or Monel .....	40 - 50
High Tensile Bronze.....	70 - 150
Ordinary Brass and Bronze .....	200 - 300
Aluminum and its Alloys.....	200 - 300
Magnesium and its Alloys .....	250 - 400
Slate, Marble, and Stone .....	15 - 25
Plastics and similar material (Bakelite) ...	100 - 150
Wood.....	300 - 400
Titanium Alloys.....	10 - 25
Titanium Alloy Sheet.....	50 - 60

In cases where carbon steel drills are applicable, the drill should be run at speeds of from 40 to 50 percent of those given above.

# Optional Equipment

## Coolant System Installation

1. Remove the large reservoir cover plate from the machine base. Tap 1/4-20 threads in the 4 pilot holes.
2. Install the cover plate back onto the machine base.
3. Insert the pump into the opening, utilize the screws from the small round cover plate to fasten the pump to the base.
4. Position the power switch and valve bracket on the spindle casting. Mark mounting hole locations and drill holes. (Refer to Figure 8)

**Note:** Mount components near the lower edge of the spindle casting. Do not mount components above the line shown in Figure 9.

5. Install the power switch and valve bracket with the provided fastener hardware.

6. Install the 3/8-inch hose coupling to the coolant pump. If needed, apply a light coat of pipe sealant or thread seal tape to the threads to prevent leakage.
7. Mount the flow valve to the bracket, connect the supply hose to the pump and valve, use hose clamps at the ends.
8. Install the flexible nozzle to the flow valve.
9. Install the 1/2-inch hose coupler to the worktable, and seal threads if needed. Connect the return hose.
10. Connect the power cord to a suitable source and ground (refer to *General Electrical Cautions*).
11. Fill the reservoir with appropriate machining coolant.

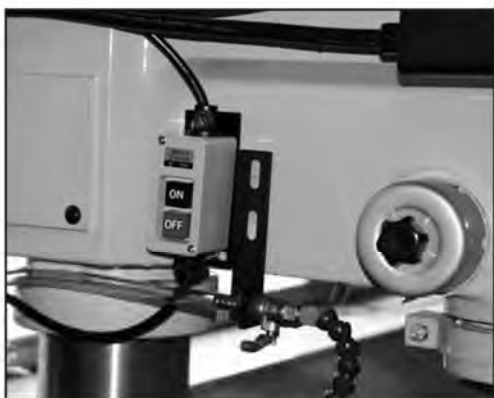


Figure 8 Suggested installation

Do not mount components above this line.

Power switch - mounting plate flush with bottom edge of spindle casting.



Flow valve mounting bracket.

Figure 9: Installation Detail

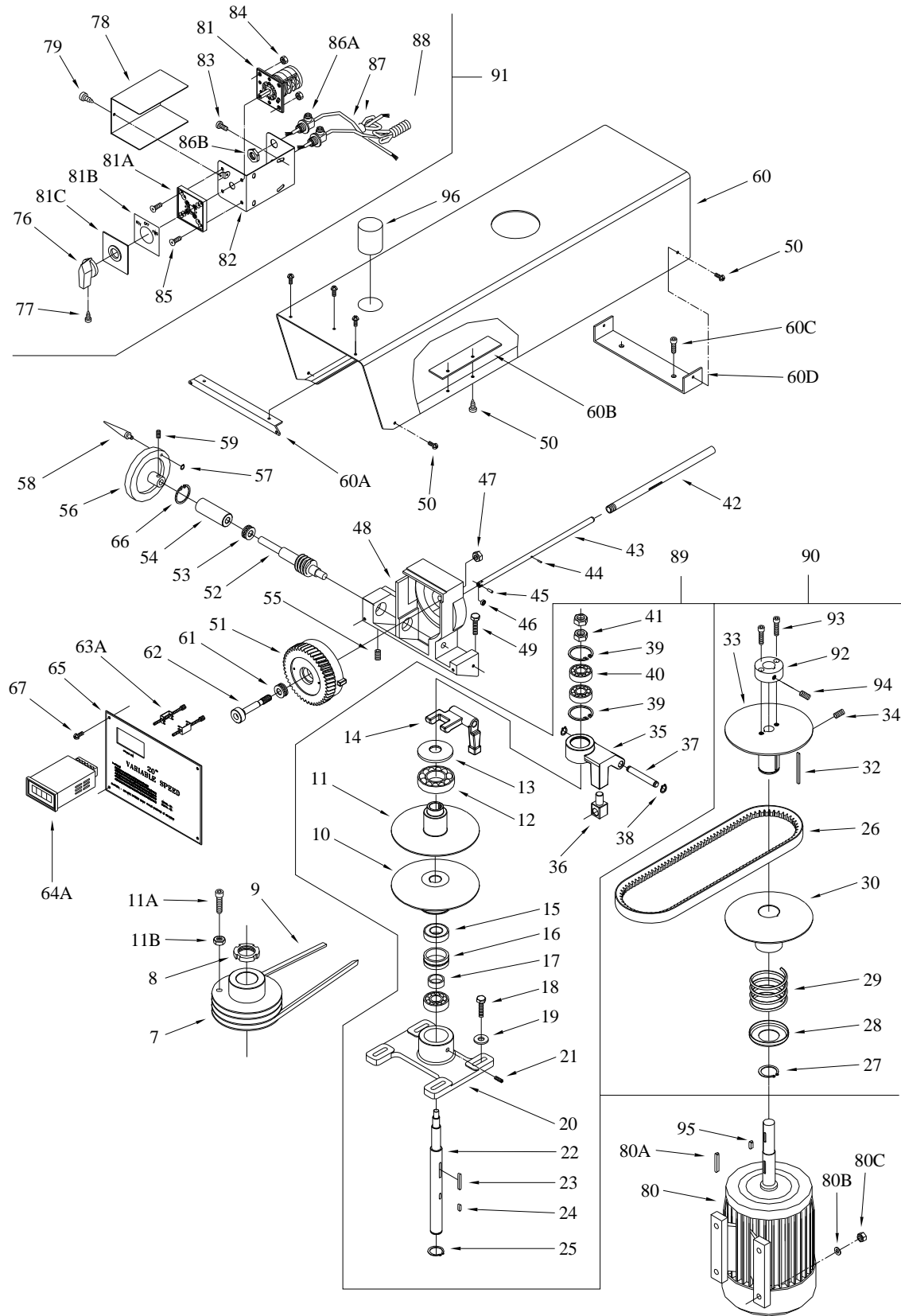
# Troubleshooting

Trouble	Probable Cause	Remedy
Spindle does not turn.	Motor overload protector tripped.	Press motor overload reset button.
	Circuit breaker tripped.	Reset circuit breaker.
	Branch circuit breaker tripped or fuse blown.	Reset branch circuit breaker/replace fuse.
	Open wire in switch circuit.	Repair open circuit.
	Defective switch.	Replace switch.
	Broken drive belt.	Replace drive belt.
Spindle noisy.	Damaged spindle bearings.	Replace bearings.
	Worn spline.	Replace spline.
Drill stalls.	Worn drive belt.	Check condition of belt. Replace if glazed or slipping on pulleys.
	Excessive feed rate for size of drill and material being drilled. No cutting fluid or improper cutting fluid.	Reduce feed pressure or use cutting fluid. Use correct cutting fluid.
Poorly drilled holes.	Drill dull.	Sharpen drill.
	Lack of rigidity in hold-down method.	Check that all T-slot hold-downs are tight and that table-lock and drill head bolts are tight.
	Speed too fast for material and drill size.	Check spindle speed recommendations. Reduce speed if necessary.
	Feed too fast for material and drill size.	Reduce feed rate.
	No or improper cutting fluid or coolant being used.	Use cutting fluid, or change to proper fluid or coolant for material being drilled.
	Improperly ground drill bit.	Check for proper angles and reliefs. Regrind to proper geometry.
Motor overheating.	Electrical circuit fault.	Check current draw in circuit. Make sure current draw is the same as rating on motor plate.
	Oversize drill.	Reduce drill size.
	Excessive feed.	Reduce feed rate.
	No cutting fluid, or wrong fluid.	Use correct cutting fluid for the material and drill.
Table cannot be raised.	Lack of lubrication.	Lubricate.
No speed readout.	Speed pickup out of adjustment or failed.	Adjust gap between speed pickup and post spindle pulley. If there is no readout on the LED speed indicator after adjusting the gap, replace the speed pickup.

## Replacement Parts

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848, Monday through Friday (see our website for business hours, [www.jettools.com](http://www.jettools.com)). Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

## Exploded View – Drill Head – Manual Speed Control (J-2221VS and J-2223VS)

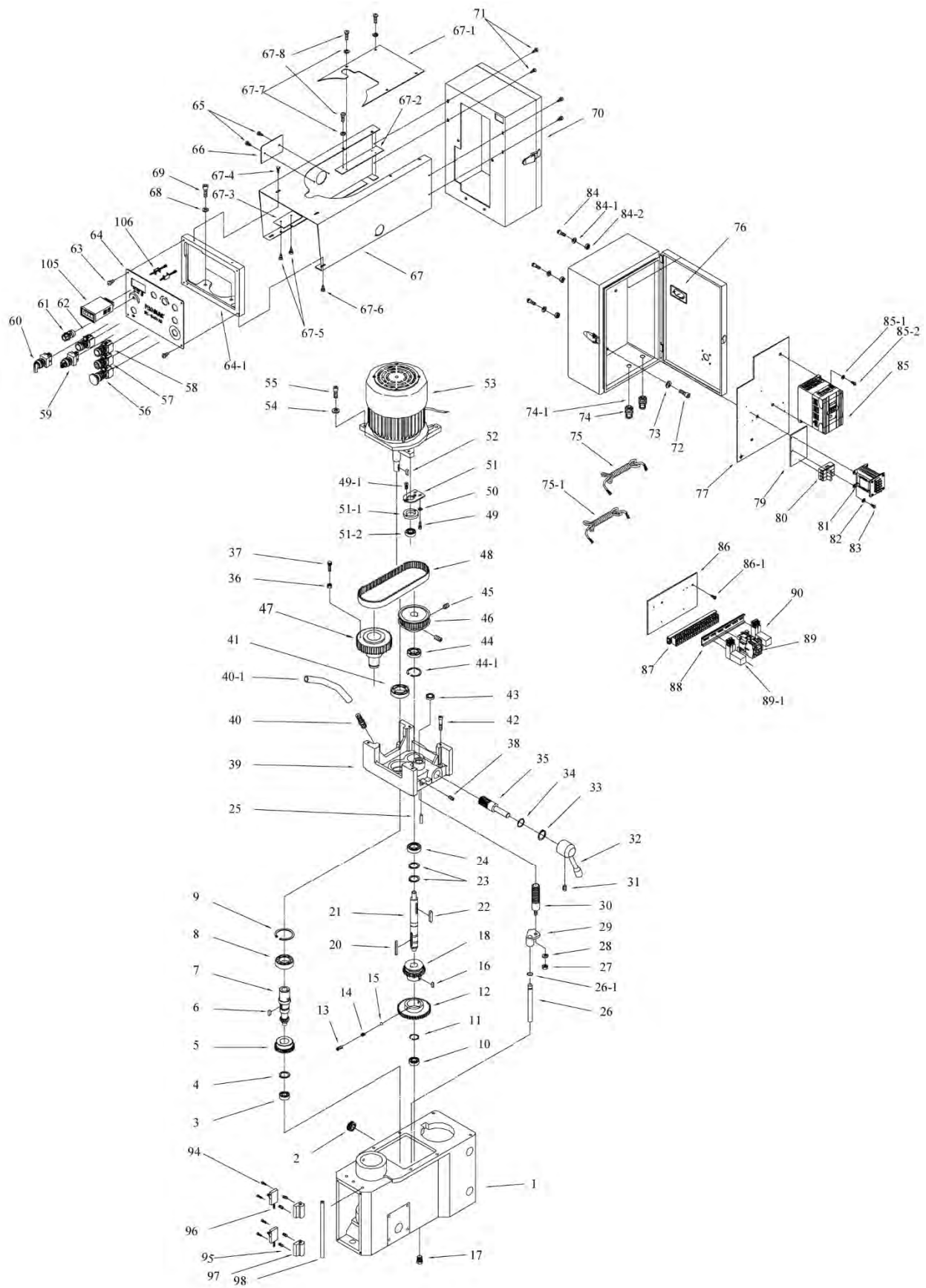


## Parts List – Drill Head – Manual Speed Control (J-2221VS and J-2223VS)

Index No.	Part No.	Description	Size	Qty
7	5510077	Spindle Step Pulley		1
8	5510078	Spindle Nut		1
9	5510079	V-Belt		1
10	5510080	VS Lower Spindle Pulley		1
11	5510081	VS Upper Spindle Pulley		1
11A	5513673	Cap Screw		1
11B	5513674	Hex Nut		4
12	5510082	Ball Bearing		1
13	5510083	Bearing Cover		1
14	5510084	Speed Change Lever		1
15	5510085	Ball Bearing		2
16	5510086	Bushing		1
17	5510087	Bushing		1
18	5510088	Hex Bolt		4
19	5510089	Washer		4
20	5510090	Bearing Housing		1
21	5510091	Set Screw		1
22	5510092	Spindle Mid Shaft		1
23	5510093	Key		1
24	5510094	Key		1
25	5510095	C-Ring (Shaft)		1
26	5510096	Variable Speed Belt		1
27	5510097	C-Ring (Shaft)		2
28	5510098	Spring Cover		1
29	5510099	Spring		1
30	5510100	VS Lower Motor Pulley		1
32	5510102	Key		1
33	5510103	VS Upper Motor Pulley		1
34	5510104	Set Screw		1
35	5510105	Speed Change Bracket		1
36	5510106	Link		1
37	5510107	Shaft		1
38	5510108	C-Ring (Shaft)		1
39	5510109	C-Ring (Hole)		1
40	5510110	Ball Bearing		2
41	5510111	Nut		2
42	5512114	Control Rod Sleeve		1
43	5512115	Control Rod		1
44	5510114	Pin Spring		1
45	5510115	Pin		1
46	5510116	Roller		1
47	5510117	Hex Nut		1
48	5512116	Housing		1
49	5513675	Cap Screw	M8x35	2
50	5513676	Pan Head Screw		6
51	5510121	Helix Gear		1
52	5510122	Worm Gear		1
53	5510123	Thrust Bearing		1
54	5510124	Bushing		1
55	5513677	Set Screw		1
56	5510126	Hand Wheel (includes #58)		1
57	5510127	Retaining Ring		1
58	5510126	Hand Grip		1
59	5510129	Set Screw		1
60	J-5513678	Pulley Cover Assembly (incl 60A,60B,60C,60D)		1
60A	J-5513679	Nameplate Bracket		1
60B	J-5513680	Cover Plate		1
60C	5513681	Cap Screw		2
60D	J-5513682	Plate Bracket		1

Index No.	Part No.	Description	Size	Qty
61	5510131	Thrust Bearing		1
62	5510132	Shaft		1
63A	5513683	Cap Screw		2
64A	5513519	LED Display	115/230/24V	1
	5513736	LED Display	220/440	1
65	5513690N	Face Plate		1
66	5513685	C-Ring (Hole)		1
67	5510137	Round Head Screw		4
76	5511848	Knob		1
77	5514634	Set Screw	M3x8	1
78	5511849	Cover		1
79	5513354	Screw		2
80	J-5510344	Motor	2HP 1PH 115/220V	1
	5510345	Motor	2HP 3PH 220/440V	1
80A	5517320	Square Key		1
80B	5517321	Flat Washer		4
80C	5517322	Hex Nut		4
81	5517323	Fwd/Rev Switch	1 Phase	1
	5517331	Fwd/Rev Switch	3 Phase	1
81A	5517324	Switch Plate		1
81B	5517325	Label		1
81C	5517326	Label Cover		1
82	5513356	Switch Box		1
83	5513357	Screw		2
84	5513358	Hex Nut		4
85	5513359	Screw		4
86A	5517327	Strain Relief		2
86B	5517328	Hex Nut		2
87	5517329	Connection Cord		1
88	5517330	Power Cord		1
89	5513935	VS Spindle Pulley Assembly		1
90	5513934	VS Motor Pulley Assembly		1
91	5513355	Switch Assembly (includes items 76-79,81-85)	1 Phase	1
	5514716	Switch Assembly (includes items 76-79,81-85)	3 Phase	1
92	2221VS-92	Bushing		1
93	TS-1503041	Socket Head Cap Screw	M6 x 16	2
94	TS-1524021	Set Screw	M8 x 10	1
95	2221VS-95	Key	5 x 20 mm	1
96	5515285	Spindle Cap		1

## Exploded View – Drill Head – Inverter Speed Control (J-2232AC and J-2234AC)

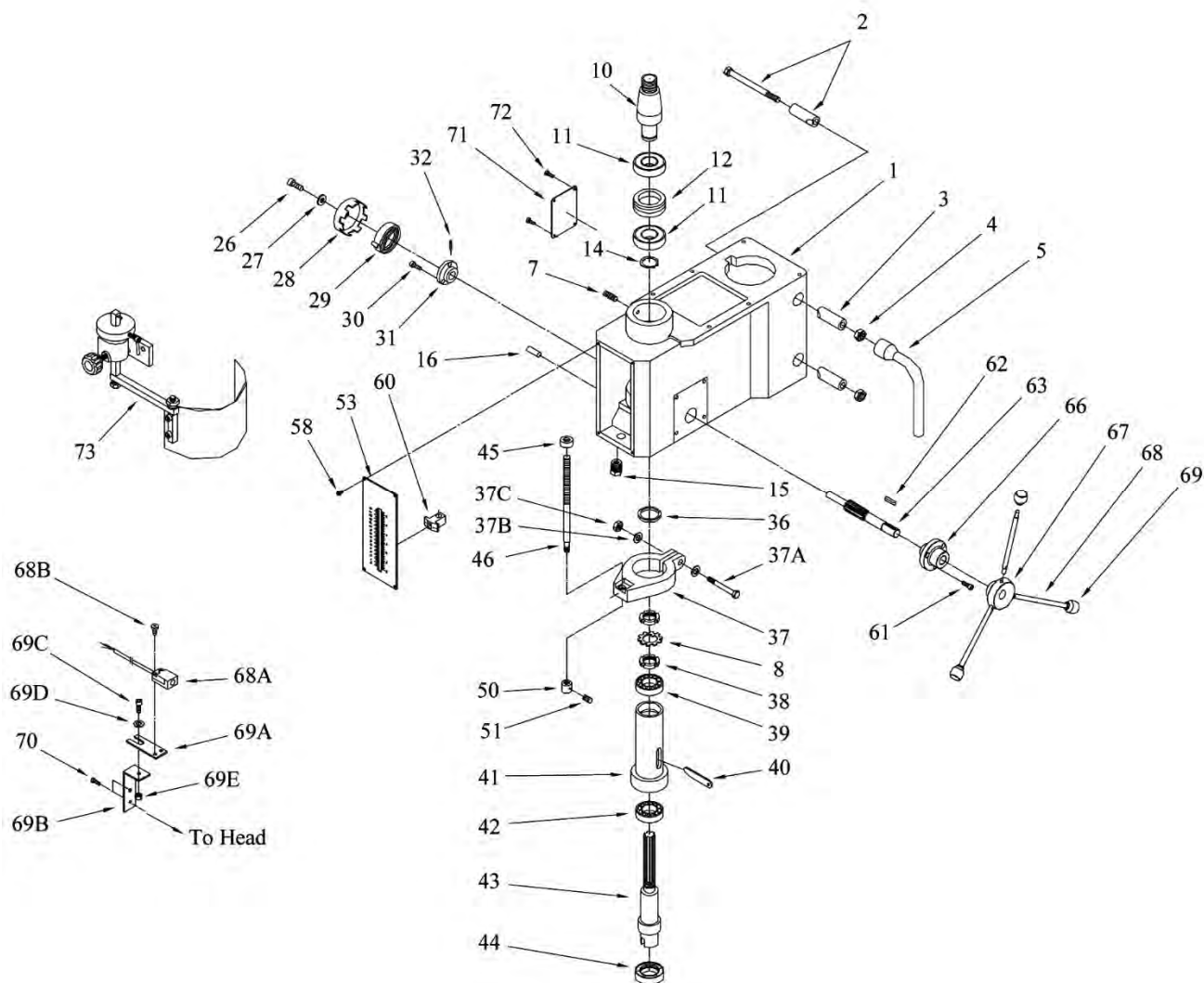


## Parts List – Drill Head – Inverter Speed Control (J-2232AC and J-2234AC)

Index No.	Part No.	Description	Size	Qty
1	J-5517332G	Head Casting	for 2221VS	1
	J-5517332ACG	Head Casting	for 2232AC	1
2	5510142	Oil Window		1
3	5510143	Ball Bearing		1
4	5510144	Retaining Ring		1
5	5510145	Gear	32T	1
6	5510146	Key		1
7	5510147	Drive Shaft	13T	1
8	5510148	Ball Bearing		1
9	5510149	Retaining Ring		1
10	5510150	Ball Bearing		1
11	5510151	Retaining Ring		1
12	5510153	Gear	55T	1
13	5510152	Set Screw		1
14	5510155	Spring		1
15	5510154	Steel Ball		1
16	5510159	Key		1
17	5517333	Drain Plug	3/8 NPT	1
18	5510158	Gear	18T	1
20	5510160	Key		1
21	5510161	Mid Shaft		1
22	5510162	Key		1
23	5510163	Retaining Ring		2
24	5510164	Ball Bearing		1
25	5510165	Pin		1
26	5510166	Bar		1
26-1	5517334	Ring		1
27	5510167	Hex Nut		1
28	5510168	Spring Washer		1
29	5510169	Speed Change Block		1
30	5510170	Gear Bar		1
31	5510171	Set Screw		1
32	5517335	Speed Lever		1
33	5517336	Retaining Ring		1
34	5510173	Oil Seal		1
35	5510177	Gear Shaft	18T	1
36	5517337	Hex Nut		1
37	5517338	Cap Screw		1
38	5510178	Set Screw		1
39	5517339	Gearbox Top Cover		1
40	5510180	Oil Fill Fitting		1
40-1	5517340	Fill Tube		1
41	5510181	Oil Seal		1
42	5510182	Bolt		1
43	5510183	Oil Seal		1
44	5510184	Oil Seal		1
44-1	5517341	Retaining Ring		1
45	5510185	Set Screw		1
46	5510186	Drive Pulley		1
47	5517342N	Spindle Pulley with Driving Sleeve	48T	1
48	5517343	Belt	720x8	1
52	5510192	Key		1
53	J-5517349	Motor	2HP, 3PH, 220V	1
	J-5517350	Motor	2HP, 3PH, 440V	1
54	5510194	Washer		4
55	5510195	Screw		4
56	5510204	E-stop Switch		1
56-1	5510197	Speed Proximity Switch		1
56-2	5510198	Proximity Switch Bracket		1
57	5510201	Indicator Light		1
59	5510199	Pump Selector Switch		1
60	5510200	Forward/Reverse Switch		1

Index No.	Part No.	Description	Size	Qty
61	5510196	Speed Control Potentiometer		1
62	5510202	Green Pushbutton Switch		1
63	5510206	Screw		4
64	5517351G	Control Panel		1
64-1	5517352	Plate Bracket		1
65	5510209	Pan Head Screw		2
66	5510210	Oil Filler Cover		1
67	J-5517353	Pulley Cover		1
67-4	5510215	Pan Head Screw		2
67-6	5517357	Screw		2
68	5510216	Spring Washer		2
69	5510217	Screw		2
70	J-5517359	Enclosure (w/door & latch)		1
71	5510219	Screw		4
72	5510220	Bolt		4
73	5517360	Washer		4
74	5510222	Cable Relief		1
74-1	5517361	Cable Relief		1
75	5510223	Electric Cable		1
75-1	5517362	Electric Cable		1
76	5510224	Window Cover		1
77	5517363	Component Mounting Panel		1
79	5510227	Insulation Board		1
80	5510228	Fuse Block		1
81	5510229	Transformer (for J-2232AC)	230V	1
	5510229-1	Transformer (for J-2234AC)	440V	1
82	5517364	Washer		4
83	5517365	Pan Head Screw		4
84	5517366	Cap Screw		4
84-1	5517367	Lock Washer		4
84-2	5517368	Hex Nut		4
85	5510233-1/3	Delta Inverter, M-type (serial no. 10110090 and higher)	220V, 1/3PH	1
	5512670	Delta Inverter, M-type	440V, 3PH	1
85-1	5517371	Flat Washer		4
85-2	5517372	Screw		4
86	5517373	Sub-Panel		1
86-1	5517374	Screw		4
87	5510235	Terminal Block		1
88	5517375	Mounting Rail		1
89	5510237	Contactor		1
89-1	5510238	Relay		1
90	5510240	Relay		1
94	5510242	Screw		2
95	5510243	Screw		2
96	5510244	Microswitch		2
97	5510245	Microswitch Bracket		2
98	5510246	Microswitch Support Rod		1
99	5514648	Electrical Enclosure Complete	220V, 3PH	1
	5514649	Electrical Enclosure Complete	440V, 3PH	1
105	5513519	LED Display	24V	1
106	5513683	Cap Screw		2
107	5515285	Spindle Cap		1

## Exploded View – Spindle Components (All Models)

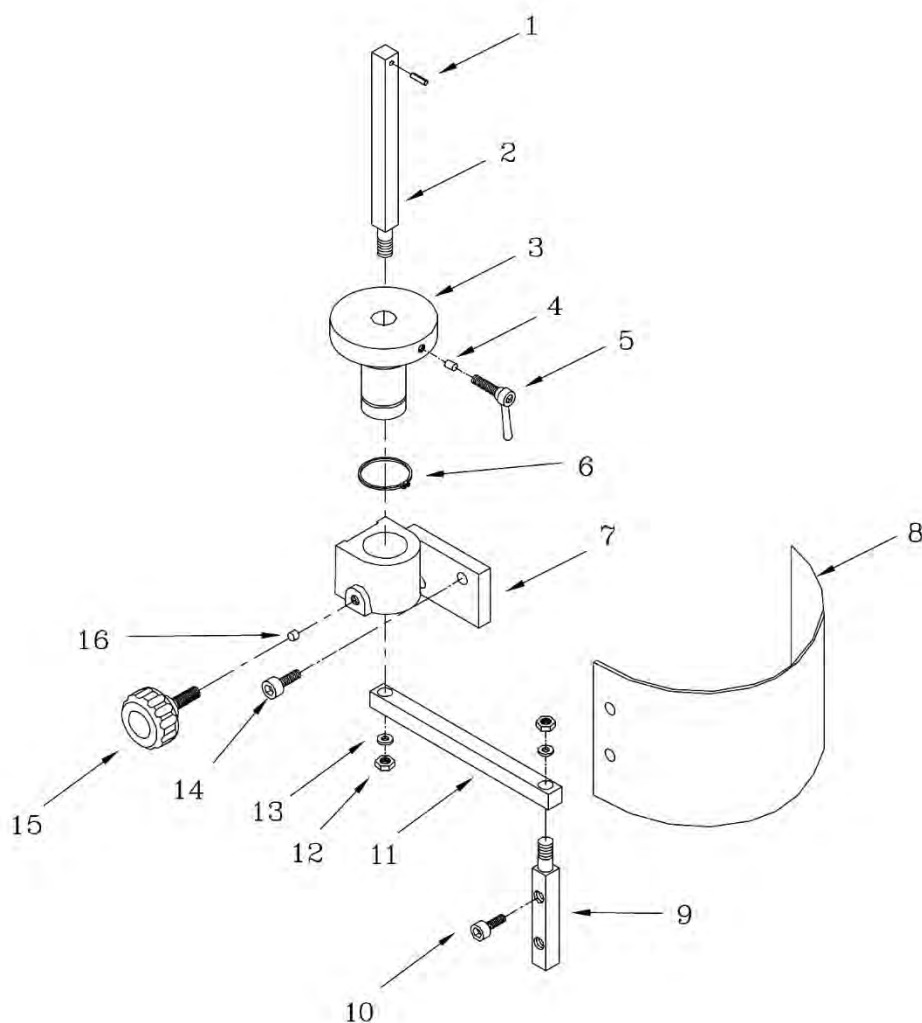


## Parts List – Spindle Components (All Models)

Index No.	Part No.	Description	Size	Qty
1	J-5517332G	Head Casting	for 2221VS	1
	J-5517332ACG	Head Casting	for 2232AC	1
2	5517376	Hex Shoulder Bolt		2
3	5517378	Cam Lock Rod		2
4	5510250	Hex Nut		2
5	5510251	Hex Head Wrench		1
7	5510252	Set Screw		1
8	5517379	External Tooth Washer		1
10	5510253	Driving Sleeve (for J-2221VS, J-2223VS only)		1
11	5510254	Ball Bearing		2
12	5510255	Spacer		1
14	5510256	C-Ring		1
15	5510258	Set Screw		1
16	5510259	Roll Pin		1
26	5510261	Socket Head Screw		1
27	5510262	Washer		1

Index No.	Part No.	Description	Size	Qty
28	5510263	Container (includes #29)		1
29	5510263	Return Spring		1
30	5510265	Phillips Head Screw	3/16x3/4 in.	3
31	5510266	Spring Seat		1
32	5510267	Spring Pin		1
36	5513770	Rubber Washer		1
37	J-5513771G	Quill Band		1
37A	5517380	Hex Shoulder Bolt		1
37B	5517381	Flat Washer		2
37C	5517382	Hex Nut		1
38	5513772	Lock Nut		2
39	5513773	Ball Bearing		1
40	5513774	Drift Pin		1
41	5510268	Quill		1
42	5510269	Ball Bearing		1
43	5510270	Spindle		1
44	5510271	Oil Seal		1
45	5510272	Nut		1
46	5510273	Depth Rod		1
50	5510276	Retainer		1
51	TS-1523011	Set Screw	M6x6	1
53	5510278	Depth Scale		1
58	5510279	Round Head Cap Screw		4
60	5510280	Key		1
61	5510281	Socket Head Screw		3
62	5510282	Key		1
63	5510283	Feed Shaft		1
66	5510284G	Feed Shaft Seat		1
67	J-5510285G	Hub		1
68	5510286	Spoke		3
68A	5513515	Magnetic Pickup		1
68B	5513687	Pan Head Screw		2
69	5510287	Knob		3
	5510286-RHA	Rubber Handle Assembly (includes #68,69)		3
69A	5517383	Adjustable Plate		1
69B	5517384	Mag. Pickup Bracket		1
69C	5513689	Cap Screw		1
69D	5517385	Flat Washer		1
69E	5517386	Hex Nut		1
70	5517387	Screw		2
71	5511849	Cover		1
72	5513354	Screw		4
73	32106A	Safety Shield Assembly (for 20" DP)		1

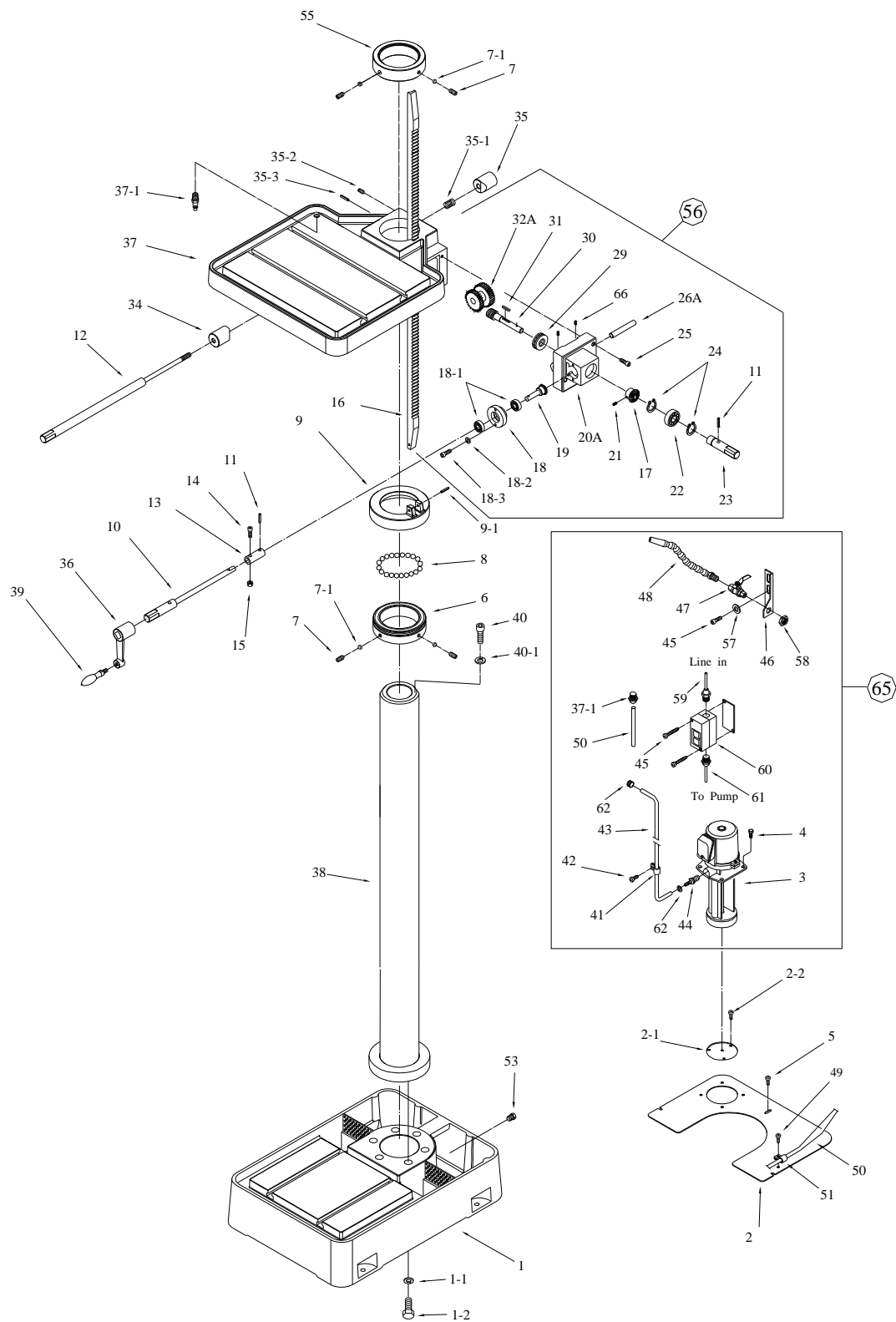
## Exploded View – Safety Shield Assembly (All Models)



## Parts List – Safety Shield Assembly (All Models)

Index No.	Part No.	Description	Size	Qty
	32106A	Safety Shield Assembly (#1 thru 16)		1
1	6293347	Spring Pin	3x16	1
2	32106A-2	Support Bracket Bar		1
3	32106A-3	Bushing		1
4	32106A-4	Spacer		1
5	32106A-5	Lock Handle	M6x20	1
6	32106A-6	C-Clip	S30	1
7	32106A-7	Bracket		1
8	32106A-8	Safety Shield	530x210mm	1
9	32106A-9	Lower Bracket Bar		1
10	TS-1504021	Hex Socket Head Cap Screw	M8x12	1
11	32106A-11	Support Arm		1
12	TS-0640091	Hex Nut	3/8"	1
13	TS-0720091	Spring Washer	3/8"	1
14	TS-1504041	Hex Socket Head Cap Screw	M8x20	1
15	32106A-16	Lock Bolt with Knob	M8	1
16	32106A-17	Spacer		1

## Exploded View – Table and Base (All Models)

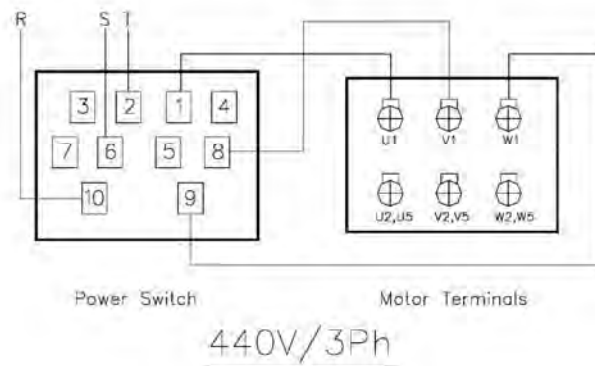
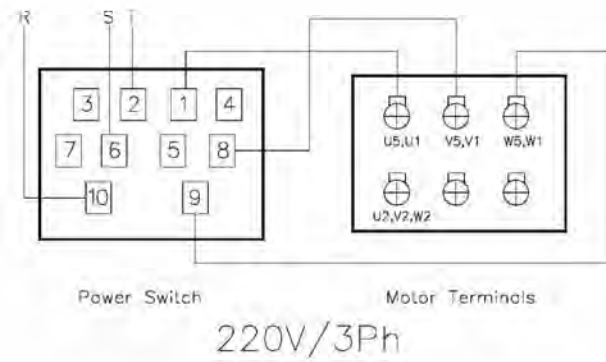
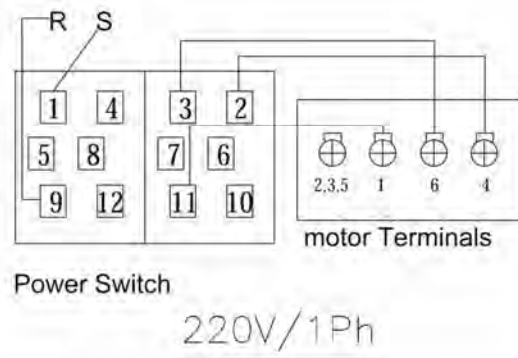
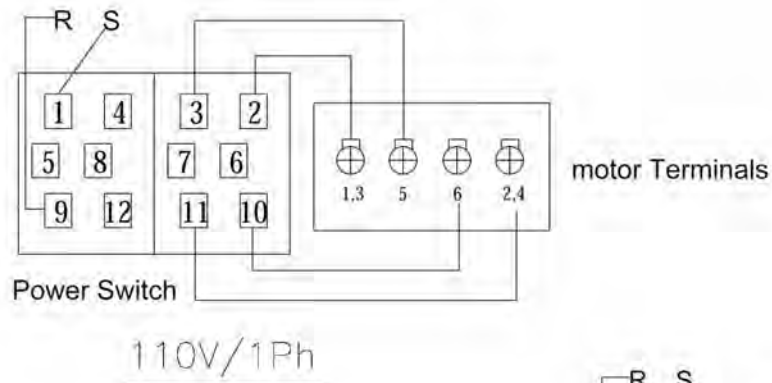


## Parts List – Table and Base (All Models)

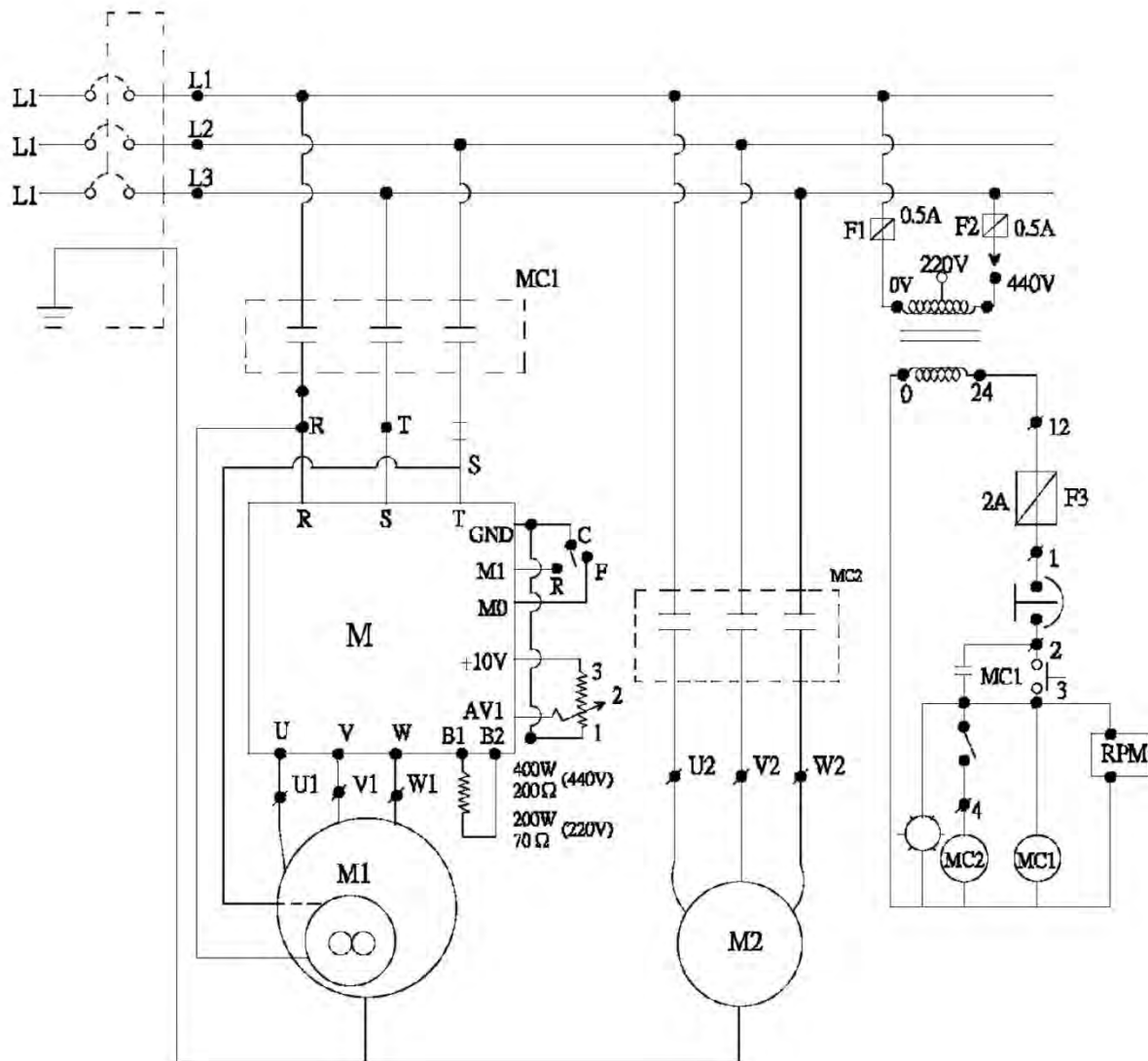
Index No.	Part No.	Description	Size	Qty
1	J-5510288	Base		1
	J-5510288A	Base (serial no. 7090589 and higher for 2221/2223VS (serial no. 7100425 and higher for 2232/2234AC)		1
1-1	TS-0720111	Lock Washer	1/2"	6
1-2	TS-0070031	Hex Cap Screw	1/2" x 1-1/2"	6
2	J-5510289	Coolant Cover Plate		1
2-1	20EVS-C2-1	Small Cover		1
2-2	20EVS-C4	Screw w/Washer	1/4"	3
3	5510456	Coolant Pump	115V, 1P	1
	5512103	Coolant Pump	220/440V, 3P	1
4	5510291	Hex Bolt		4
5	5517388	Pan Head Screw		3
6	5510293	Ball Seat		1
	5510293A	Ball Seat (serial no. 7090589 and higher for 2221/2223VS (serial no. 7100425 and higher for 2232/2234AC)		1
7	5510294	Set Screw		4
7-1	5517389	Brass Block		4
8	5510295	Ball Bearing		1
9	J-5510296	Lock Ring		1
	J-5510296A	Lock Ring (serial no. 7090589 and higher for 2221/2223VS (serial no. 7100425 and higher for 2232/2234AC)		1
9-1	5517390	Pin		1
10	5516859	Table Raiser Shaft		1
11	5510298	Spring Pin		4
12	5516858	Table Clamp Shaft		1
13	5516860	Table Raiser Coupling		1
14	5510300	Socket Head Screw		1
15	5510301	Nut		1
16	5510302	Rack		1
17	5514663	Large Bevel Gear		1
18	5517391	Bearing Housing		1
18-1	5517392	Ball Bearing	6202ZZ	2
18-2	5517393	Washer		2
18-3	5510303	Cap Screw		2
19	5510304	Small Bevel Gear		2
20	J-5510305	Bracket Cover		1
20A	J-5510305A	Bracket Cover (serial no. 10120276 and higher for J-2221/J-2223VS) (serial no. 11010102 and higher for J-2232AC/J-2234AC)		1
21	5510306	C-Ring		1
22	5510307	Ball Bearing		1
23	5510308	Shaft		1
24	5510309	C-Ring		2
25	5510310	Socket Head Screw		4
26	5510311	Shaft		1
26A	5510311A	Shaft (serial no. 10120276 and higher for J-2221/J-2223VS) (serial no. 11010102 and higher for J-2232AC/J-2234AC)		1
29	5510314	Bearing		1
30	5510315	Table Raise Worm		1
31	5510316	Key		1
32	5510317	Worm Gear		1
32A	5510317A	Worm Gear Assembly (serial no. 10120276 and higher for J-2221/J-2223VS) (serial no. 11010102 and higher for J-2232AC/J-2234AC)		1
34	5510319	Front Cam Lock		1
35	5510320	Rear Cam Lock		1
35-1	5517396	Spring		1
35-2	5517397	Cap Screw	M6x25	1
35-3	5517398	Pin	5x25	2

Index No.	Part No.	Description	Size	Qty
36	J-5510321	Table Raise Crank		2
37	J-5510322	Table		1
37-1	5517399	Hose Coupler (Return)	1/2"	1
38	5510323	Column		1
	5510323A	Column (serial no. 7090589 and higher for 2221/2223VS (serial no. 7100425 and higher for 2232/2234AC)		1
	5510323B	Column with Column Base Assembly (serial no. 14101393 and higher for 2221/2223VS) (serial no. 14100286 and higher for 2232/2234AC)		1
39	5510324	Table Raise Handle		1
40	5510325	Hex Head Screw		1
40-1	5510334	Washer		1
41	5510326	Clamp		1
42	5510327	Pan Head Screw		1
43	5510328	Clear Vinyl Hose	3/8"	1
44	5510329	Hose Coupler (Supply)	3/8"	1
45	5512112	Socket Head Cap Screw	#10-32 x 1"	4
46	5510331	Mounting Bracket		1
47	5510332	Valve		1
48	5510333	Flexible Nozzle		1
49	5517400	Pan Head Screw		1
50	5517401	Clear Vinyl Hose	1/2"	1
51	5517402	Hose Clamp		1
53	5517404	Drain Plug	3/8 NPT	1
55	J-5517406	Rack Collar		1
56	5513932	Table Raiser Assembly		1
57	9057451	Flat Washer	#10	2
58	5517488	Hex Nut	1/2"	1
59	5517489	Power Cord		1
60	5517490	Switch Assembly		1
61	5517491	Pump Cord	1 Phase	1
	5517492	Pump Cord	3 Phase	1
62	5517493	Hose Clamp, Rad. Type		2
65	5512104	Coolant System Complete	1/8 HP, 115/220V, 1 Phase	1
	5508071	Coolant System Complete	1/8 HP, 220/440V, 3 Phase	1
66	TS-1522021	Socket Set Screw	M5 x8	2
	J2221-SBCA	Support Bearing Collar Assembly (includes #6,7,7-1,8,9,9-1)		1

## Wiring Diagram – Models J-2221VS and J-2223VS



## Wiring Diagram – Models J-2232AC and J-2234AC



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# HBS-916W, 9" X 16" HORIZONTAL BANDSAW

414468

Large handwheel, built-in gauge, blade guides, quick-positioning vise and removable chip tray are but a few of the features that make this JET Horizontal Bandsaw among the best when compared to the competition. Efficiency, precision and functionality combined to deliver superior results time after time

48



## FEATURES

- Large hand wheel and built-in gauge provides easy blade tensioning
- Quick-positioning vise with fully adjustable jaws, swivels to 45°
- Easy access chip tray allows quick cleanup
- Blade is fully guarded, regardless of blade guide position
- Carbide blade guides feature parallel double-row ball bearing support
- Coolant is distributed through the blade guides
- Built-in, self propelled blade brush extends blade life
- Fully adjustable hydraulic downfeed with separate on/off control valve
- Automatic shut-off after cut
- Coolant system
- Adjustable material stop
- 1" Bi-Metal blade



## JET RED ASSURANCE 2-YEAR WARRANTY

JET warrants every product it sells. If one of our tools needs service or repair, one of our Authorized Service Centers located throughout the United States can give you quick service. In most cases, any of these JPW Industries Authorized Service Centers can authorize warranty repair, assist you in obtaining parts, or perform routine maintenance and major repair on your JET tools. For the name of an Authorized Service Center in your area call 1-800-274-6848.

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# HBS-916W, 9" X 16"

## HORIZONTAL BANDSAW

414468

### SPECIFICATIONS

Cutting Capacity (W x D) (In.)	9 x 16
Round at 90 Degrees (In.)	9
Round at 45 Degrees (In.)	6-1/8
Rectangle at 90 Degrees (In.)	8-1/2 x 14 and 2 x 16
Rectangle at 45 Degrees (In.)	9 x 6-1/8
Vise Swivels (Deg.)	45°
Blade Speeds (SFPM)	82, 132, 170, 235
Blade Wheel Diameter (In.)	13
Blade Length (In.)	119-1/2
Blade Size (In.)	1 x .035 x 119-1/2
Bed Height (In.)	25
Motor (HP)	1-1/2 HP, 115/230V, 1Ph
Weight (Lbs.)	704
Overall Dimensions (L x W x H) (In.)	65 x 28 x 42
Drive	Belt Drive



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# TRAK<sup>®</sup> MACHINE TOOLS

Featuring  
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## TRAK Knee Mills

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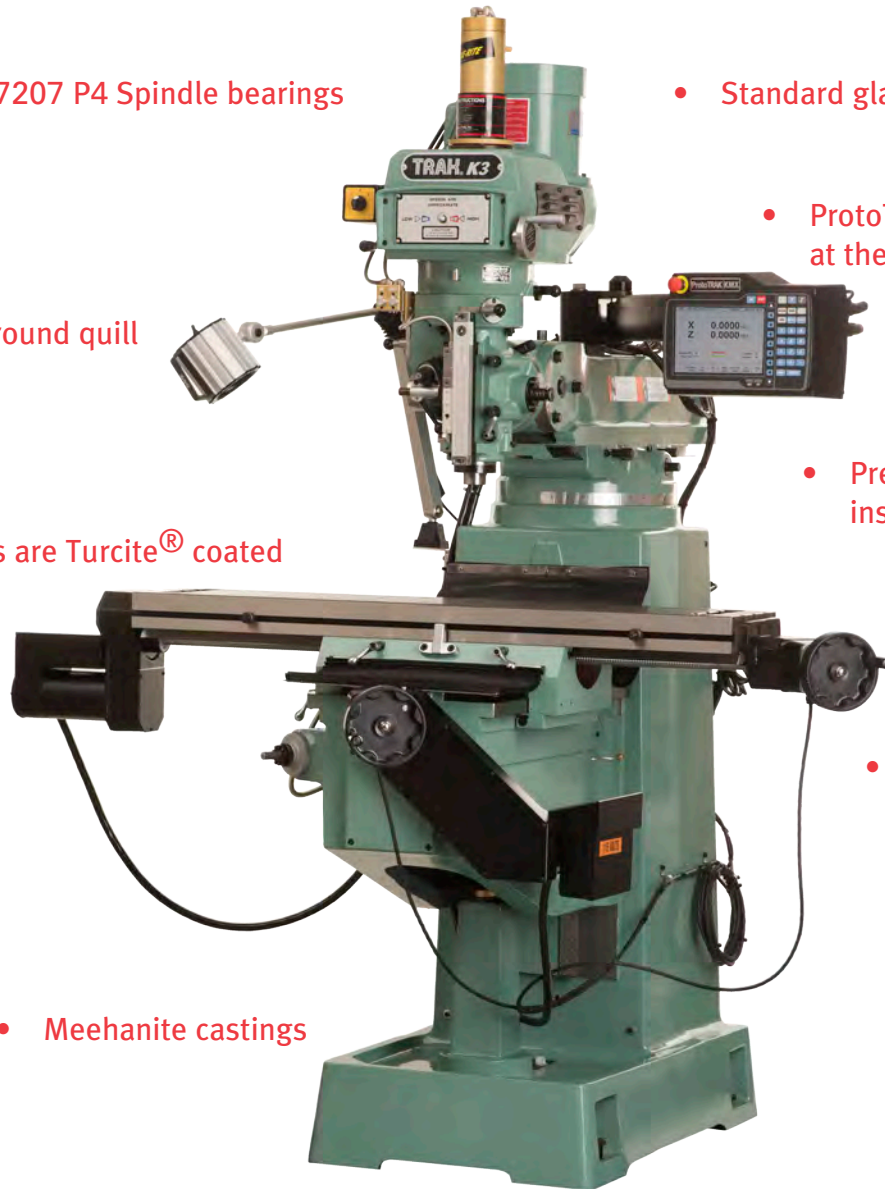


SOUTHWESTERN INDUSTRIES, INC.

# TRAK Knee Mills

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The best built, best supported knee-type milling machines you can buy



- Precision 7207 P4 Spindle bearings
- Standard glass scale for quill Z readout
- Chrome ground quill
- ProtoTRAK CNC integrated at the factory
- Slide ways are Turcite<sup>®</sup> coated
- Precision ground ballscrews installed in the table and saddle
- Wide way surfaces are hardened and ground
- Meehanite castings

## Outstanding Support at no Extra Cost

Only TRAK Knee Mills featuring ProtoTRAK CNCs are factory-integrated by us, the manufacturer of the control. That means an outstanding product and one source of parts and support. You will never be shuffled between machine and CNC supplier – the entire product is our responsibility.

**Our track record proves you can rely on us to live up to our responsibility to you.**

# TRAK Knee Mill Models

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## ProtoTRAK EMX

Easy to use, yet full CNC functionality

*See page 6 for a complete description*

## TRAK-K3 EMX

- 2-axis CNC
- 3-axis DRO



## ProtoTRAK KMX

The best CNC we've ever made for knee mill applications (and that is saying a lot).

*See page 8 for a complete description*

## TRAK-K3 KMX

- 2-axis CNC
- 3-axis DRO

## TRAK-K3 KMX-3

- 3-axis CNC
- 3-axis DRO



## ProtoTRAK SMX

The most versatile CNC in our line with options you may add to configure for your application.

*See page 12 for a complete description*

## TRAK-K3 SMX

- 2-axis CNC
- 3-axis DRO

## TRAK-K3 SMX-3

- 3-axis CNC
- 3-axis DRO



## Three-Axis CNC

TRAK Knee Mills with the SMX and KMX CNC are available as three-axis CNCs, with a quill drive for Z-axis machining. The mill can be run manually, as a two-axis or three-axis CNC. Manual quill control is with our unique Electronic Handwheel.

Note: For most three-axis CNC applications, we highly recommend our TRAK Bed Mills.

# Milling Machine Options



## TRAKing™/Electronic Handwheels

- Converts the mechanical handwheels into electronic handwheels for operating the table and saddle
- Enables the powerful TRAKing® feature
- Useful DRO features
- Not available with the ProtoTRAK EMX CNC



## Power Draw Bar

- A Torque-Rite R8 power draw bar factory installed with push button tool in/out



## Remote Stop/Go Switch

- A hand-held switch to stop and continue program run



## Chip Pan

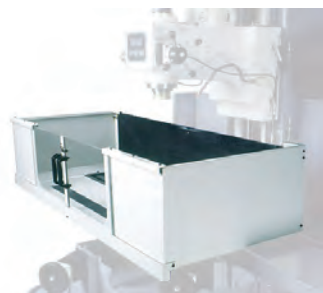


## Knee Power Feed



## Halogen Work Lamp

- Convenient light with bright, long-lasting halogen bulb



## Tableguard

- Provides an enclosed work-space mounted on the table
- The sliding door is switched to prevent operation of CNC Run with door open



## Spray Coolant

- The non-fogging coolant sprayer directs a fine stream of coolant to the tool and workpiece



## Vise

- Model DX6 6" Kurt vise and mounting hardware.



## Glass Scales

- A glass scale mounted on the table and saddle
- Not available on ProtoTRAK EMX products

# Machine Specifications

- Table Size – 50" x 10"
- T-Slots – 5/8" x 3 x 2 1/2"
- Table Travel – 32"
- Saddle Travel – 16"
- Knee Travel – 16"
- Ram Travel – 15"
- Maximum Quill Travel – 5"
- Quill Diameter – 3 3/8"
- Spindle Taper – R8
- Spindle Speed – 60-4200 RPM
- Head Tilt – 45 deg. forward, 45 deg. back, 90 deg. left, 90 deg. right
- Spindle Motor Power - 3HP continuous
- Power Requirements, machine - 220/ 440V;3P; 8.5/4.25A
- Maximum Weight on Table – 850lbs.
- Machine Weight – 2816 lbs.
- Machine dims l, w, h - 71" x 59" x 84"
- Maximum rapid feed – 100IPM
- Way surface type - Dovetail X, Z Square Y
- Precision 7207 CP4 spindle bearings
- Chrome hardened and ground quill
- Meehanite® castings
- Slide ways are Turcite® coated
- Wide way surfaces are hardened and ground

## Additional Options

### Riser Block

- 4", 6" or 8"

### Coolant Pump

- Mounted inside the bed or machine column
- A manual switch is provided when not used with Auxiliary Functions

### Limit Switches

- Switches and brackets to set maximum travel limits
- Tripping the switch will cause servo motors to shut down
- Not available with the ProtoTRAK EMX CNC

### Automatic Lubrication Pump

- Provides lubrication to ways and ballscrews
- Programmable
- Alarms in case of problems

# ProtoTRAK EMX



## ProtoTRAK EMX

- Easy to use yet full CNC functionality
- Easy to learn and remember all the features
- We recommend this control when most of the work for the machine is simple
- Great for shops where different people use the machine occasionally
- Vo Techs love this CNC for teaching conventional milling and introduction to CNC on the same machine

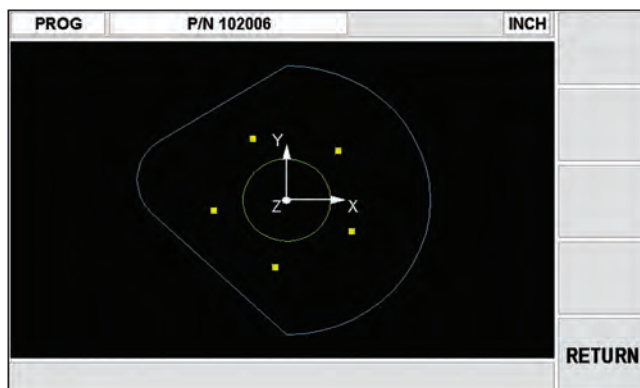
PROG	P/N 102006	INCH
<b>EVENT 1</b>	<b>BOLT HOLE</b>	<b>EVENT 2</b>
# HOLES	5	
X CENTER	0.0000 abs	
Y CENTER	0.0000 abs	
RADIUS	1.2500	
ANGLE	45.0000	
TOOL #	1	
TOOL DIA	0.2500	
Select an event.		

## Programming

- Program easily with simple selections and prompts in plain English
- The ProtoTRAK EMX defines the tool path for you once you define the part geometry

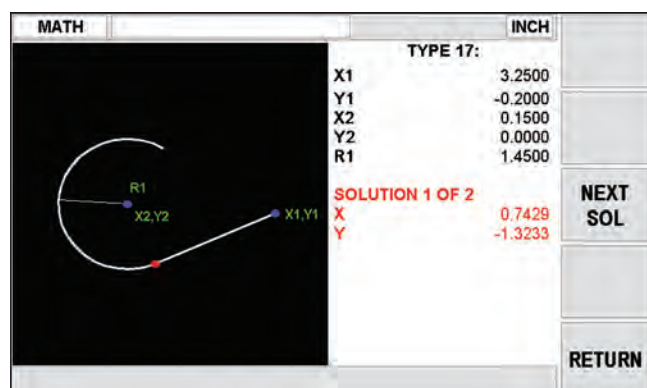
### Canned Cycles

- Posn/ Drill
- Bolt Hole
- Mill
- Arc
- Pocket
- Frame
- Rotate
- Repeat



## Part Graphics

- Press the LOOK key while programming to see programmed events with color graphics



## Math Helps

Quickly calculate intersections, points of tangency, arc centers and more.

## DRO Routines

- View the most useful DRO features in a clear, color display
- Press the Power Feed and Jog Buttons to let the servo motors do most of the work
- Ball screws provide smooth, positive control while hand cranking

## Easy Program Storage and Handling

- Save hundreds of typical programs on the internal flash drive
- Use the USB port to plug in a storage device or move programs between ProtoTRAKs and computers
- Use the optional USB flash drive that is configured to work with ProtoTRAK

## ProtoTRAK EMX Specifications

### Hardware

- Digital Servo Amplifiers – custom designed for ProtoTRAK operation
- D.C. Servo Motors – rated at 280 in-oz. continuous torque
- Precision Ball Screws
- Modular Design – simplifies service and maximizes uptime
- 115V/60Hz
- 10 amps
- Feedrate Override of programmed feedrate and rapid
- Polycarbonate Sealed Membrane Keypad to lock out contamination
- 7.0" Color LCD with adjustable contrast
- On board IDE flash memory storage for part programs
- 2 USB ports for interface with a storage device
- Rugged Industrial PC
- Glass Scale on quill for Z-axis position readout
- Jog button in DRO

### Options

- Remote Stop/Go (RSG) switch
- USB thumb drive for program storage and transfer

### Software

- Diameter Cutter Compensation
- Circular interpolation
- Linear Interpolation
- Conrad – provides automatic corner radius programming
- Incremental and Absolute dimensioning
- Error Messages – to identify programming mistakes
- Fault Messages – for system self-diagnostics
- Parts graphics display
- Look – a single button press to view part graphics
- Machine Tool Error Compensation
- Backlash Compensation
- Selectable Inch/mm measurement readout
- Jog from 1 to 100 inches per minute
- Continue Mill/eliminate repetitive data inputs while programming
- Context help information
- CAM to ProtoTRAK conversational language file conversion
- Teach
- Free offline programming available for download from our website

# ProtoTRAK KMX CNC



## ProtoTRAK KMX

- The best CNC we've ever made for knee mill applications (and that is saying a lot).
- Easy to learn and use with thoughtful features that make work easier
- Improved AGE® capability gives you the power of CAD for finding missing print data while you program!
- Outstanding graphics
- Powerful offline programming for using our Advanced Software Options
- We recommend this ProtoTRAK for most Knee Mill applications due to its amazing combination of price, features and ease of use
- Can handle anything from quick manual jobs to complex profiling

PROG			3 AXIS	INCH
EVENT 1	BOLT HOLE	EVENT 2	MILL	INSERT EVENT
DRILL OR BORE	DRILL	X BEGIN		DELETE EVENT
# HOLES	5	Y BEGIN		PAGE FWD
X CENTER	0.0000 abs	Z RAPID		PAGE BACK
Y CENTER	0.0000 abs	Z BEGIN		
Z RAPID	0.0250 abs	X END		
Z END	-1.1250 abs	Y END		
RADIUS	3.7500	Z END		
ANGLE	45.0000	CONRAD		
# VAR PECKS	2	TOOL OFFSET		
Z FEEDRATE	12.0	Z FEEDRATE		
TOOL #	1	XYZ FEEDRATE		
		TOOL #		
X BEGIN : █				

## Powerful Canned Cycles

- Position
- Drill
- Bolt Hole
- Mill
- Arc
- Face Mill
- Circle Pocket
- Rectangular Pocket
- Irregular Pocket
- Circular Pocket
- Rectangular Profile
- Irregular Profile
- Subroutine Repeat
- Subroutine Rotate
- Subroutine Mirror
- Copy Repeat
- Copy Rotate
- Copy Mirror

PROG			3 AXIS	INCH
EVENT 6	A.G.E. ARC	OK	EVENT 7	A.G.E. ARC Not OK
TANGENT	YES		TANGENT	YES
DIRECTION	CW		DIRECTION	CCW
X BEGIN	3.3055	abs	X END	
Y BEGIN	3.3541	abs	Y END	
X END	1.0985	abs	X CENTER	0.0000 abs
Y END	3.8465	abs	Y CENTER	3.2500 abs
CONRAD			CONRAD	0.0000
RADIUS	1.5000		RADIUS	1.2500
CHORD ANGLE	97.8375		CHORD ANGLE	
Select 1 for YES 2 for NO.				

## AGE™ the Auto Geometry Engine

Program complex profiles easily with the powerful AGE™ feature. Enter the information you have and the AGE™ will calculate missing points for you while you program.

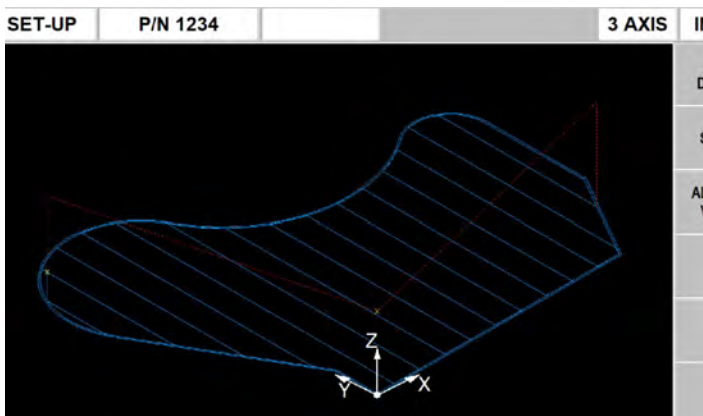
## Advanced File Management

PROG I/O	P/N 1234	3 AXIS	INCH
1.gcd	Run G-code files from your thumbdrive		SAVE
1.PT4			SAVE TEMP
123.gcd	Save programs, tool tables and reference positions for the current program		COLUMN FWD
1234.PT4			COLUMN BACK
2.gcd			SAVE AS MX3
3.cam			
4.gcd			
88.PT4			
888.PT4			
99.PT4			
Program Name : 123			RETURN

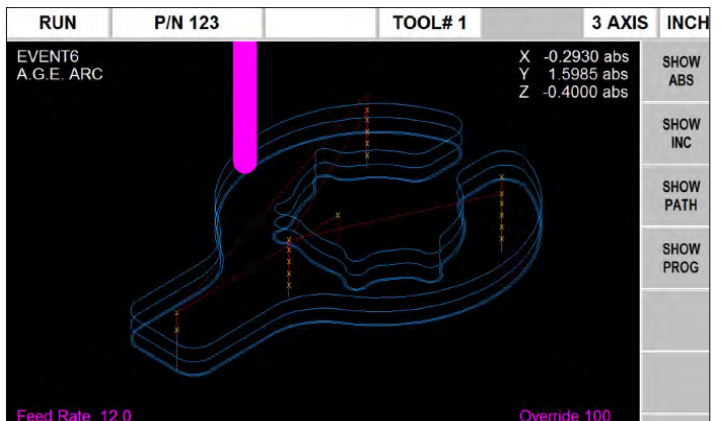
## Convenient Tool Table

SET-UP	P/N 1234	3 AXIS	INCH
TOOL #	DIAMETER	Z OFFSET	Z MODIFIER
Z RETRACT	SET		
1	0.5000	BASE	0.0000
TOOL TYPE			
Finish End Mill			
Enter tool type number and press SET: 1.Drill      6.Counterbore      11.Reamer 2.Center Drill      7.Countersink      12.Thread Mill 3.Rough End Mill      8.Tap      13.Form 4.Finish End Mill      9.Boring Bar      14.Other 5.Face Mill      10.Ball End Mill			
TOOL #1 TOOL TYPE : 4			

## Check your program with convenient graphics

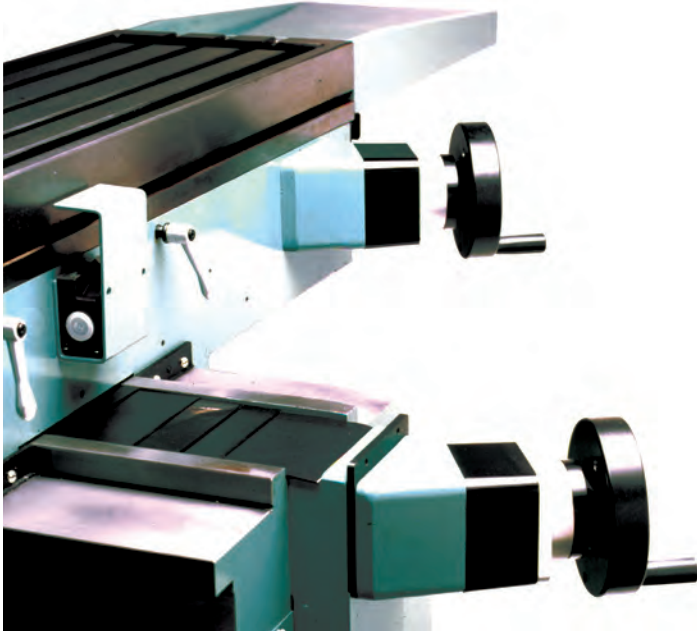


## View your programmed toolpath during program run



# Options for the ProtoTRAK KMX

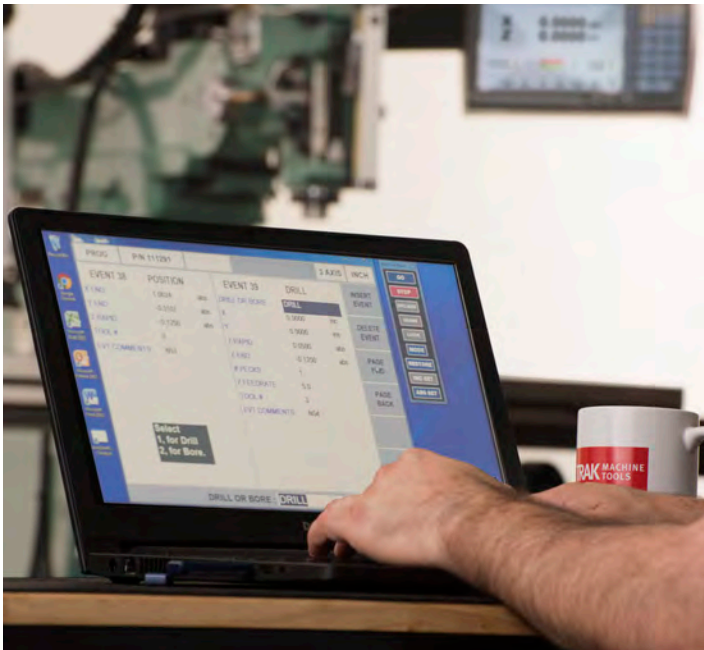
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## TRAKing®/ Electronic Handwheel Option

- Electronic handwheels on X and Y  
(replaces the mechanical handwheels)
- TRAKing® of programs during program run
- GoTo Dimensions
- Selectable Fine/Course handwheel resolution

*Once you use TRAKing®, you will never want to crank manual handles again!*



## KMX Offline Programming

- All features of the ProtoTRAK KMX organized to run on your PC
- Program and setup your jobs and then load into the ProtoTRAK KMX
- Windows® operating system

## Converter Package for Offline

(requires purchase of KMX Offline Programming)

### Verify

- Solid model representation of parts and toolpaths

### DXF File Converter

- Import and convert CAD data
- DXF or DWG files
- Automatic Gap Closing with Chaining
- Layer Control
- Easy, prompted process

### Parasolid File Converter

- Generate ProtoTRAK KMX programs from the data in the solid file
- 3D CAD format
- No specialized knowledge required

# ProtoTRAK KMX Specifications

## ProtoTRAK KMX Hardware

- Two- or three-axis CNC, 3-axis DRO
- 9.0" Color LCD
- Rugged industrial PC
- 2 USB ports for interface with a storage device, keyboard and mouse
- RJ45 Port and Ethernet card for Networking
- 110V, 1P, 10A

## Software Features – General Operation

- Clear, uncluttered screen display
- Prompted data inputs
- English language – no codes
- Soft keys - change with context
- Windows® operating system
- Selectable two or three-axis CNC (3-axis models)
- Color graphics with adjustable views
- Inch/mm selectable
- Convenient modes of operation (see below)

## DRO Mode Features

- Incremental and Absolute dimensions
- Jog at rapid with override
- Powerfeed X, Y or Z (3-axis)
- Teach-in of manual moves
- Servo motor return to 0 Absolute
- Tool offsets from library
- Go To Dimensions (Optional with TRAKing®)
- Fine/Course handwheel resolution (Optional with TRAKing®)

## Program Mode Features

- Auto Geometry Engine
- Geometry-based programming
- Tool Path programming
- Scaling of print data
- 3-axis Geometry conversational programming (3-axis models)
- Incremental and Absolute dimensions

- Automatic diameter cutter comp
- Circular interpolation
- Linear interpolation
- Look – graphics with a single button push
- Event editing within the program
- Conrad – automatic corner radius
- Math Helps with graphical interface
- Tool step over adjustable for pocket routines
- Selectable ramp or plunge cutter entry
- Subroutine repeat of programmed events
- Nesting
- Subroutine Rotate about Z-axis for skewing data
- Subroutine Mirror of programmed events
- Copy repeat for editing of repeated events
- Copy rotate for editing of rotated events
- Copy mirror for editing of mirrored events
- Run Island, Helix, Thread Mill and Engrave events when present in an imported ProtoTRAK program

## Canned Cycles

- Position
- Drill
- Bolt Hole
- Mill
- Arc
- Circle pocket
- Rectangular pocket
- Irregular pocket
- Face Mill
- Circular profile
- Rectangular profile
- Irregular profile

## Set Up Mode Features

- Service Codes
  - Software
  - Machine Setup
  - Advanced Diagnostics and Service logs
  - Operator Defaults and options
- Set pocket and Face Mill step-over (in service codes)
- Tool names

- Tool library
- Tool length offset with modifiers
- Tool path graphics with adjustable views
- Verify – solid model representation of finished part (as programmed)

## Run Mode Features

- TRAKing® (optional)
- 3D CAM file program run
- 3D G-code file run with tool comp
- Real time run graphics with tool icon

## Program In/Out Mode Features

- Program Storage to USB Flash Drives
- CAM program converter
- Converter for prior-generation ProtoTRAK programs
- DXF / DWG file Converter (Offline version only)
- Preview Graphics for unopened files
- Networking
- Save Temp to save current program, tool offsets and home positions for running the next day with minimal setup

# ProtoTRAK SMX CNC

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- The **most powerful** CNC for Toolroom work in the world
- A powerful but easy to use **basic operation** with options you may add to configure your application
- **Optional Parasolid and DXF Converters** save you time by taking the dimensions directly from the drawing
- We recommend this **ProtoTRAK model** for more complex applications such as profiling and pockets

## Easy and Powerful Programming The ProtoTRAK Way

PROG	P/N 0	TOOL# 1	2 AXIS	INCH
<b>EVENT 0</b>		<b>EVENT 1 CIRC PCKT</b>		
PROGRAM NAME 0		X CENTER		
SCALE 1.000		Y CENTER		
AUXILIARY FUNCTION NO		RADIUS		
EVENT COMMENTS NO		DIRECTION		
MULTIPLE FIXTURES NO		FIN CUT		
DIMENSION DEFINITION PART GEO		FEEDRATE		
		FIN FEEDRATE		
		TOOL #		
X CENTER :				
F1	F2	F3	F4	F5
PAGE FWD	PAGE BACK	DATA FWD	DATA BACK	DATA BOTTOM
				INSERT EVENT
				DELETE EVENT

## Powerful Canned Cycles

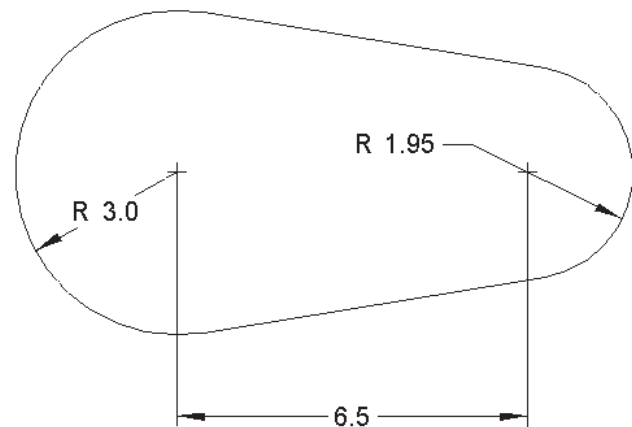
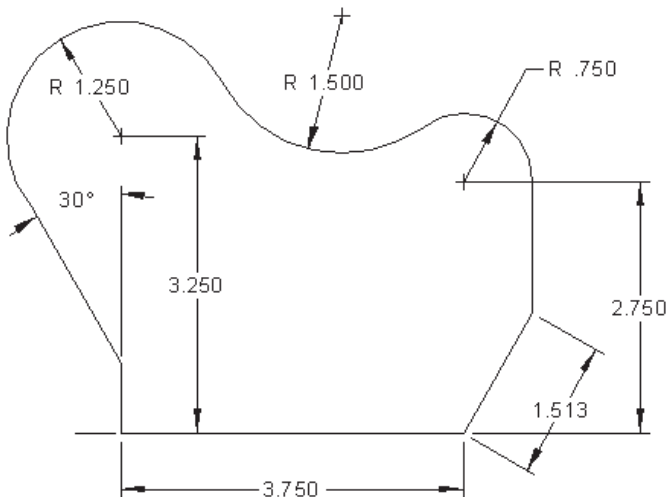
(0 indicates optional)

- Position
- Drill
- Bolt Hole
- Mill
- Arc
- Circle pocket
- Rectangular pocket
- Irregular pocket
- Face Mill
- Circular profile
- Rectangular profile
- Irregular profile (0)
- Circle Island (0)
- Rectangular Island (0)
- Irregular Island (0)
- Helix (0)
- Thread Milling (0)
- Engraving (0)
- Face Mill (0)

## Auto Geometry Engine

The Auto Geometry Engine (A.G.E.) is powerful software that automatically fills in missing print dimensions as you program. It is CAD capability embedded into CNC programming.

With A.G.E. you can make easy work out of programming incomplete prints or part sketches like the ones below. The A.G.E. doesn't take more time to use, it works automatically as you program.



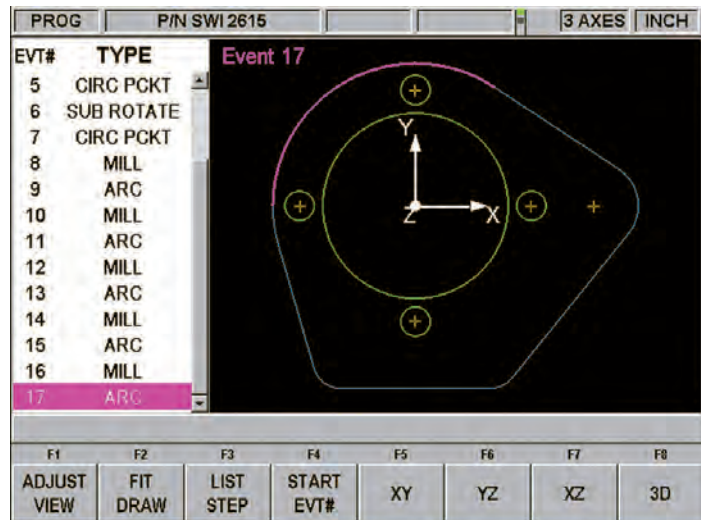
# Powerful Capability

Only in the ProtoTRAK



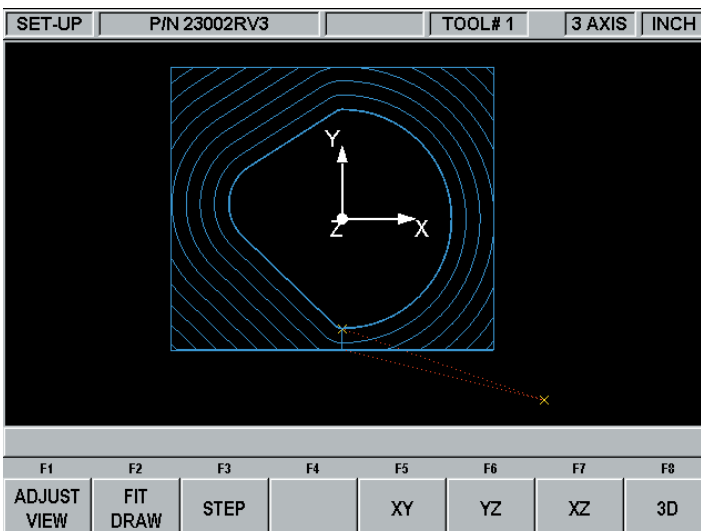
## CNC Power, even when working manually

- Incremental and Absolute Referencing
- Large, easy-to-read dimensions display
- Convenient features such as Jog, Teach and Power Feed



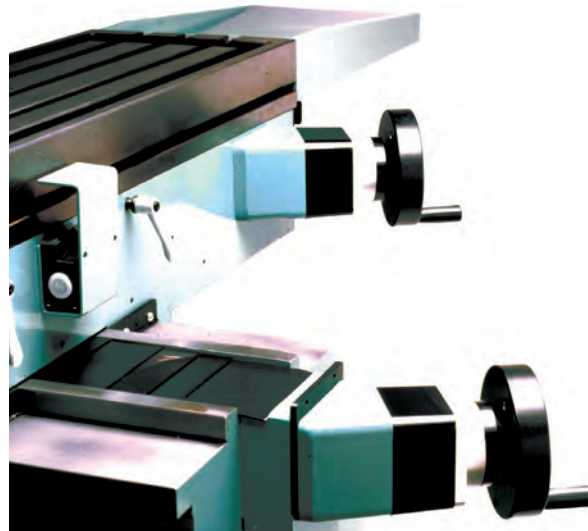
## List-Step Graphics

- See a full screen view of your programming progress with the push of a button
- Use the list step graphics to easily isolate program problems



## Profiles and Pockets

- Easily program pockets and profiles of all shapes with powerful canned cycles



## Electronic Brains in the Handles

- The feel of manual control of real handwheels, but our electronic handwheels bring the power of the CNC to your fingertips through features such as TRAKing and DO ONE.

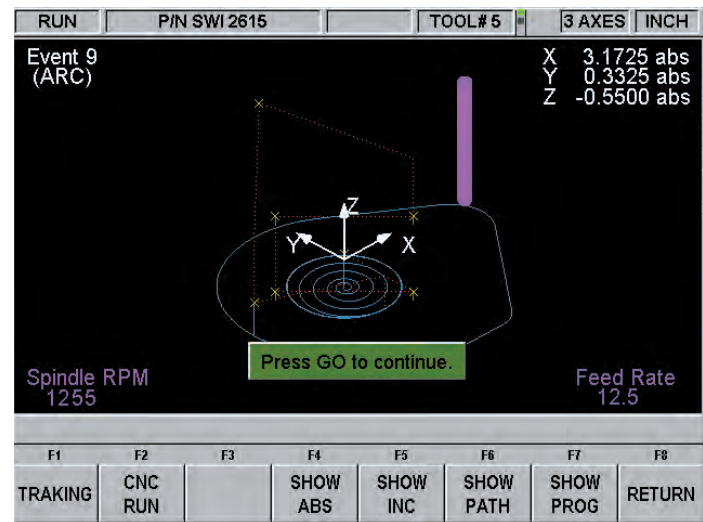
# Powerful Capability

Only in the ProtoTRAK

EDIT	P/N SWI0520			TOOL# 4		INCH	
EVT#	TYPE	TOOL#	FEED RATE	X BEGIN	Z BEGIN	X END	Z END
1	TURN	1	5.000	3.1000 abs	4.0000 abs	0.0000 abs	0.0000 inc
2	TURN	1	5.000	1.5000 abs	4.0000 abs	0.0000 inc	3.5000 abs
3	TURN	1	5.000	0.0000 inc	0.0000 inc	0.0000 inc	3.0000 abs
4	TURN	1	5.000	0.0000 inc	0.0000 inc	0.0000 inc	2.5000 abs
5	ARC	1	5.000	0.0000 inc	0.0000 inc	2.0000 abs	-0.2500 inc
6	TURN	1	5.000	0.0000 inc	0.0000 inc	0.0000 inc	1.5000 abs
7	TURN	1	5.000	0.0000 inc	0.0000 inc	3.0000 abs	0.7500 abs
8	TURN	1	5.000	0.0000 inc	0.0000 inc	0.0000 inc	-0.2500 inc
9	TURN	1	5.000	0.0000 inc	0.0000 inc	0.0000 inc	-0.2500 inc
10	TURN	1	5.000	0.0000 inc	0.0000 inc	0.0000 inc	-0.2500 inc
11	DRILL	3	3.000				1.7000 abs
12	BORE	4	2.000			0.8750 abs	1.9500 abs
TOOL # : 1							
F1	F2	F3	F4	F5	F6	F7	F8
		▼	▲	◀	▶	SORT	CHANGE ALL

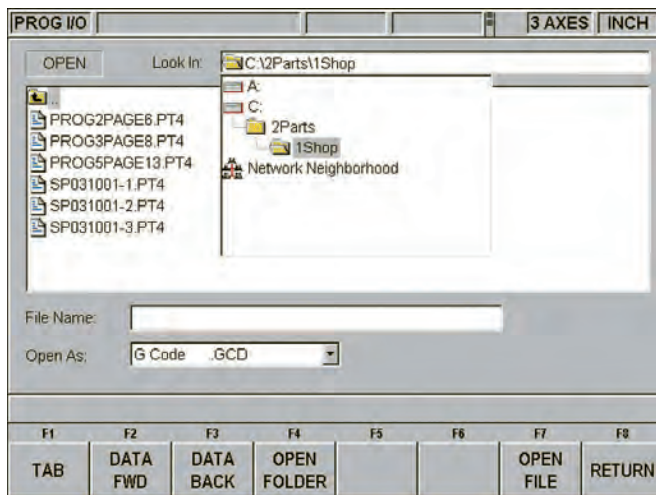
## Spreadsheet Editing

- View data for your whole program at once
- Sort and make changes to a group of events with the press of a button



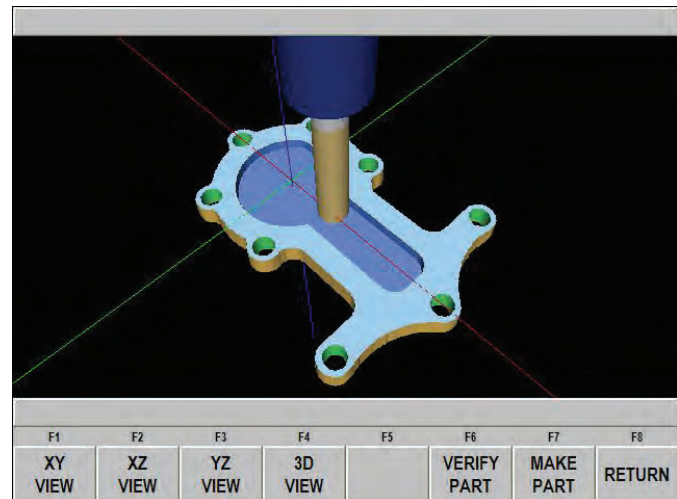
## Tool Path Graphics

- See where the control plans to move the tool prior to machining
- Easily catch mistakes with error messages, colors, and selectable views



## Advanced File Management

- Access different drives, copy and rename files and look at part graphics before opening a file
- Back up programs easily with the automatic back up routine



## Verify Machining Simulation

- Verifies ProtoTRAK or G-Code generated programs for errors
- Watch tools machine and display the finished part

## Networking

- Network your ProtoTRAK with a server or another ProtoTRAK
- File, share, or back-up programs from your machine
- Collaborate easily - centralized file management helps assure revision control

## Run-Time Clock

- Easily see on the ProtoTRAK display how much time remains before the control is programmed to stop for a tool change

Not all features are found on all ProtoTRAK models and some features are optional. See the specifications.

# DXF Converter Option

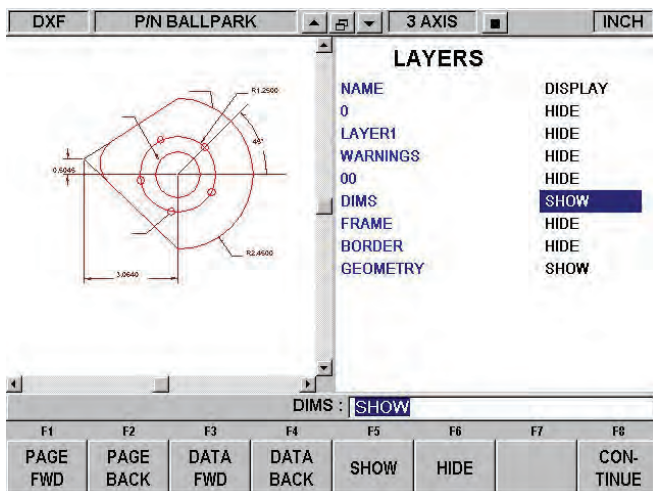
A Simple Process that your machinists control

Easily convert dimensions from a DXF or DWG file into a ProtoTRAK program.

- Works with ProtoTRAK SMX CNCs on the shop floor or with the ProtoTRAK Offline system
- Easy process that ProtoTRAK machinists can learn in minutes
- Milling and turning versions available

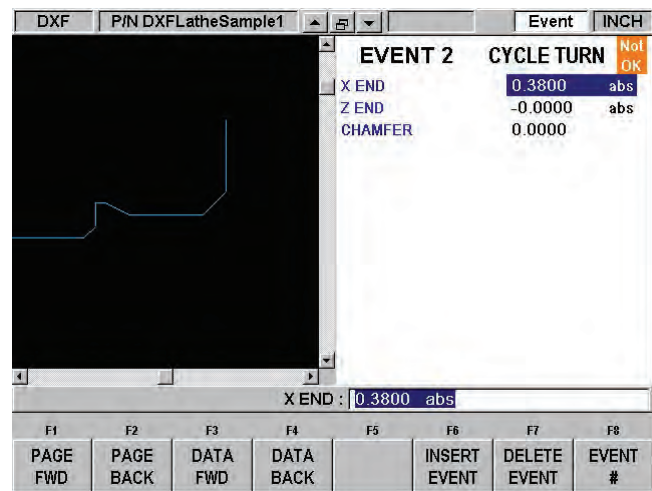
## Layer Selection

- View the entire file and select the layers you want to machine



## Interactive, Prompted Selection of Geometry

- Program events in the order you choose
- Once the event type and dimensions are loaded it's easy to fill in the prompts



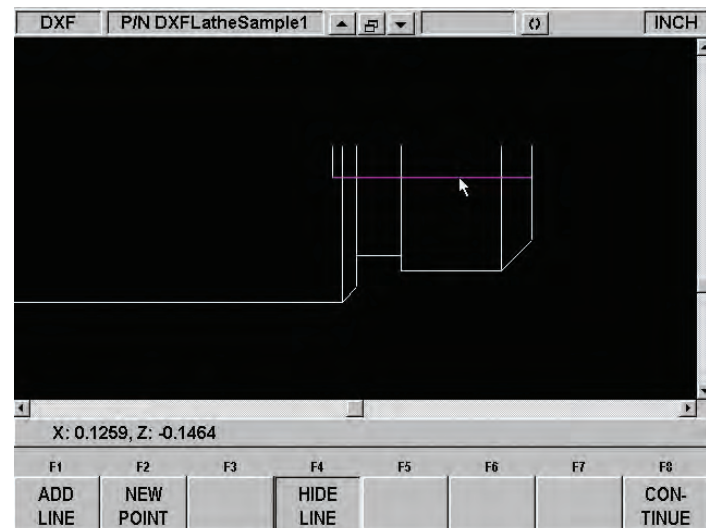
## Chaining

- Program the entire geometry of Pocket or Profile peripheries with just two clicks – tell ProtoTRAK where to start then tell it which direction to go. The rest of the connected events are loaded automatically
- The seven events below were programmed as easily as clicking two lines



## Line Editing

- If lines drawn in a DXF file can't be machined as drawn, the DXF converter enables you to insert or hide lines to get past these problems. No need to go back to the CAD department.



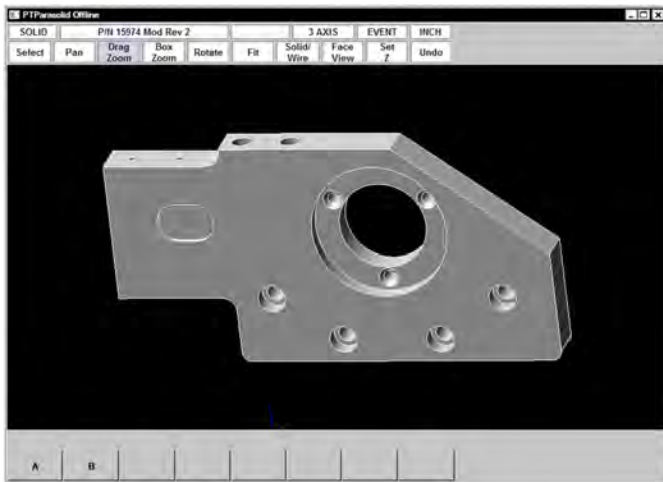
# Parasolid Converter Option

Easily generate ProtoTRAK mill programs from Parasolid 3D CAD files.

- Save ProtoTRAK programming time – easy to do on the shop floor with your ProtoTRAK SMX CNC
- Input .x\_t format (Parasolid) 3D CAD files
- Easy process that ProtoTRAK machinists can learn in minutes

## Intuitive 3D Model

- Powerful viewing tools include Zoom, Pan, and Rotate
- Enhances understanding and facilitates programming



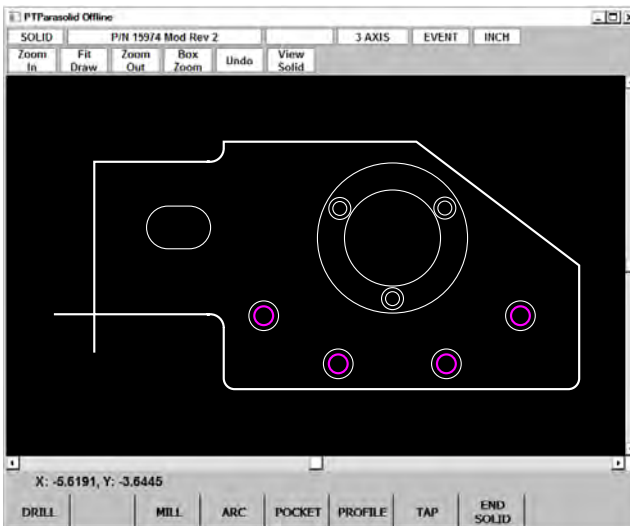
## Interactive, Prompted Selection of Geometry

- Program events in the order you choose – select event type and click on the geometry (excludes geometries with bottom contouring)
- X and Y dimensions loaded automatically
- Point and click to load Z dimensions
- Automatically compensates for drill point length



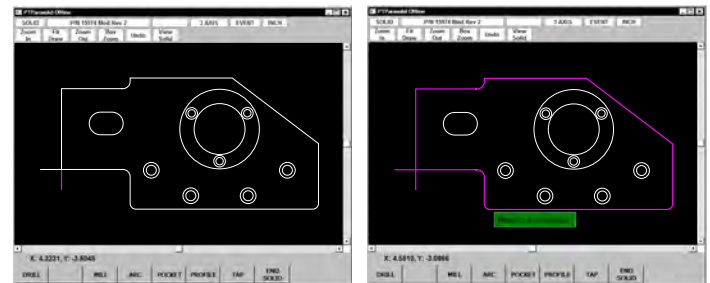
## Event Groups

- Create event groups of items you want to machine the same way
- Click similar circular geometries, create an event, and the data from the first event will automatically fill in for the rest of the events



## Chaining

- Program the entire geometry of Pocket or Profile peripheries with just two clicks – tell ProtoTRAK where to start then tell it which direction to go in. The rest of the connected events are loaded automatically
- The 16 events for the below profile were loaded by simply clicking two lines



# Specifications for the ProtoTRAK SMX for Mills

(O) – optional feature

## Control Hardware

- Two or three-axis CNC, three-axis DRO
- Real handwheels for manual operation
- 10.4" color active-matrix screen
- Industrial-grade Pentium® processor
- 1 GB Ram
- 4 USB connectors
- RJ45 port and Ethernet card (O)
- Override of program feedrate
- Override of program spindle speed (O)
- LED status lights built into display
- USB thumb drive flash memory 512 MB or more
- Uncluttered front panel with few hard keys
- 110V, 1P, 12A

## Software Features – General Operation

- Clear, uncluttered screen display
- Prompted data inputs
- English language – no codes
- Soft keys - change with context
- Windows® operating system
- Selectable two or three-axis CNC
- Color graphics with adjustable views
- Inch/mm selectable
- Convenient modes of operation (see below)

## DRO Mode Features for Manual Machining

- Incremental and absolute dimensions
- Jog at rapid with override
- Powerfeed X, Y or Z
- Do One CNC canned cycle
- Go To dimensions (O)
- Teach-in of manual moves
- Servo motor return to 0 absolute
- Spindle speed setting with override (O)
- Tool offsets from library
- Fine/Course handwheel resolution (O)

## Program Mode Features

- Geometry-based programming
- Tool path programming (O)
- Scaling of print data (O)
- Multiple fixture offsets (O)

- Programmable Auxiliary functions (O)
- Event comments (O)
- Three-axis Geometry conversational programming (O)
- Incremental and absolute dimensions
- Automatic diameter cutter comp
- Circular interpolation
- Linear interpolation
- Look – graphics with a single button push
- List step – graphics with programmed events displayed
- Alphanumeric program names
- Canned cycles:
  - Position
  - Drill
  - Bolt Hole
  - Mill
  - Arc
  - Circle pocket
  - Rectangular pocket
  - Circular profile
  - Rectangular profile
  - Irregular profile (O)
  - Irregular pocket (O)
  - Circle Island (O)
  - Rectangular Island (O)
  - Irregular Island (O)
  - Helix (O)
  - Thread milling (O)
  - Engraving (O)
  - Tapping (O)
  - Face Mill (O)
- Programmable Spindle Speeds (O)
- Program pause
- Conrad – automatic corner radius
- Math Helps with graphical interface
- Auto load of math solutions
- Tool step over adjustable for pocket routines
- Pocket bottom finish pass
- Selectable ramp or plunge cutter entry
- Subroutine repeat of programmed events
- Nesting
- Rotate about Z axis for skewing data
- Mirror of programmed events (O)

- Copy (O)
- Copy Drill to Tap Event (O)
- Copy Rotate (O)
- Copy Mirror (O)
- Auto Geometry Engine™ (O)

## Edit Mode Features

- Clipboard to copy events between programs (O)
- Spreadsheet editing (O)
- Global data change (O)
- G-Code editor (O)

## Set Up Mode Features

- Program diagnostics
- Advanced tool library
- Tool names
- Tool length offset with modifiers
- Advanced diagnostic routines
- Software travel limits
- Tool path graphics with adjustable views
- Program run time estimation clock (O)

## Run Mode Features

- Trial run at rapid
- 3D G Code file run
- Real time run graphics with tool icon
- Countdown clock to next pause or tool change (O)
- TRAKing of programs during program run (O)

## Program In/Out Mode Features

- CAM IN program converter
- CAM OUT converter to run ProtoTRAK programs on different controls (O)
- Converter for prior-generation ProtoTRAK programs
- DXF / DWG Converter (O)
- Selection of file storage locations
- Automatic file back up routine
- Preview Graphics for unopened files
- Networking via RJ45 port (O)
- Program Storage to USB Flash Drives



# Options for the ProtoTRAK SMX

## Advanced Features Option

- Verify Machining Simulation
- Auto Geometry Engine™
- Spreadsheet editing
- Global data change
- Scaling of print data
- Multiple fixture offsets
- Event comments
- 3-axis conversational programming
- G Code editor
- Program run time estimation clock
- Additional Canned Cycles:
  - Irregular Profile
  - Irregular Pocket
  - Circle Island
  - Rectangular Island
  - Irregular Island
  - Helix
  - Thread Milling
  - Engraving
  - Copy Drill to Tap
  - Face Mill
  - Mirror of programmed events
- Copy with or without offsets
- Copy Rotate
- Copy Mirror
- Clipboard to copy events between programs

## DXF File Converter

- Import and convert CAD data into ProtoTRAK programs
- DXF or DWG files
- Chaining
- Automatic Gap Closing
- Layer control
- Easy, prompted process you can do right at the machine

## Networking Option

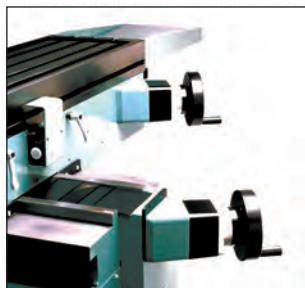
- Networking via RJ45 port

## CAM OUT Converter

- Regenerate a CAM file with revisions from the shop floor

## Auxiliary Functions Option

- Program control of coolant
- Spindle off
- Output to programmable indexer or rotary table



## TRAKing/Electronic Handwheels

### (Our favorite option!)

- TRAKing of programs during program run
- Go To Dimensions
- Selectable Fine/Coarse handwheel resolution

## Parasolid Converter Software

- Generate programs from solid files
- Process commonly used .x\_t files
- Dozens of time-saving features

## Offline Programming

- The ProtoTRAK SMX user interface for Windows® PC
- Program and modify files from current and past ProtoTRAK models



# Retrofit ProtoTRAK CNCs

Make your manual machines more productive

We have transformed thousands of Bridgeport® and similar knee-type milling machines from outdated manual machines to highly productive ProtoTRAK CNCs. With experience earned over 30 years, we know how to give you the best possible outcome.



## ProtoTRAK EMX

- 2-axis CNC retrofits



## ProtoTRAK KMX

- 2 or 3-axis CNC retrofits



## ProtoTRAK SMX CNC

- 2 or 3-axis CNC retrofits



The **Retrofit Kit** includes everything: motors, CNC, hardware, ballscrews, fasteners, and even cable ties.



## Custom and General Kits Are Available for the following brands of machines:

\* note, not all models may be retrofitted – contact your Southwestern Industries representative.

Acer	Birmingham	Enco	Kondia	Pasma	Supermax (YCI)
Acra Mill	Bridgeport	Euro-Mill	Lagun	Royal	Vectrax
Alliant	Chevalier	First	Marina	Santec	Victor
Astro	Classic	Hurco	Merlin	Seiki	Webb
Atlas	Clausing Atlas	Kalamazoo	Microcut	Sharp	Wells Index
Atrump	Comet	Kent	Millport	Siber-Hegner/Santec	Willis
Besmer	Do-All	Kingston	MSC	Southbend	Wilton

# More TRAK Machines for Short Run/Prototype work



## TRAK Bed Mills

- Highly recommended for 3-axis CNC Toolroom and prototyping applications.
- Solid ram moves long the column providing mass for heavy cuts
- 4 models starting at around \$32,000
- Travels up to 60" in X, 23" in Y and 20.5" in Z



## TRAK TRL Lathes

- The world's best CNC lathes for short-run turning.
- Full CNC function but with features that make even manual work easier and more productive
- ProtoTRAK ELX or SLX CNC are always easy to program and run
- 5 models starting at on \$19,995



## ProtoTRAK KMX Upgrades

- Upgrade your older ProtoTRAK CNC with the all new ProtoTRAK KMX
- Upgrades for previous generations of retrofits, TRAK Knee Mills and TRAK Bed Mill starting from only \$4295
- Exciting new features will give you a great boost in productivity!

## Also from TRAK Machine Tools: Unique Solutions for Low Volume/High Mix Production

---



### TRAK 2op

- Productive: Get more from the people you already have!
- Versatile: Reduce your cost of production on a wide variety of jobs



### TRAK LPM VMC

- A complete system that integrates the Control, Tool Setting and Workholding
- Reduce the labor spend in Setup
- Change from job to job in a few minutes

Want to see more? Check out our website or Call (800) 876 - 0601 for demo



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[www.trakmachinetools.com](http://www.trakmachinetools.com)

# Mini Mill- EDU

Mini CNC Vertical Mill Exclusively  
for Education, with 16" x 12" x 10"  
travels

40 / 3 / 4k /  
TAPER AXIS RPM  
1  
TOOL



Haas Mini Mills are the industry standard for compact machining centers. They provide an economical solution for small parts machining in a compact package that is loaded with full-size features. The Mini Mill-EDU is a specially priced education-edition machine that is perfect for schools as a first step into CNC machining and training.

- ✔ Operates on single- or three-phase power
- ✔ Available exclusively for educational institutions
- ✔ Built with the same high-quality components as the standard Mini Mill
- ✔ Includes an education resource package
- ✔ Made in the USA

 3D MODEL (ZIP) |  INSTALLATION GUIDE |  LAYOUT DRAWING |  OWNER'S MANUAL |  MINIMILL SERIES FLYER |  ROTARY FIT CHART

### Introduction to the Mini Mill

This super-popular, small-footprint machine has proved successful in small and large shops alike. Bob and Bryan talk about the improvements made to increase reliability and make the machine even easier to use.

## STANDARD FEATURES

SPINDLES	4000-rpm Spindle
CHIP & COOLANT MANAGEMENT	Window Air Blast
THE HAAS CONTROL	Media Display M-Code; M130 HaasConnect: Remote monitoring Early Power-Failure Detection Module Ethernet Interface Standard Program Memory, 1 GB
PRODUCT OPTIONS	Work Light
SHIPPING	Lifting Provision
WARRANTY	6-Month Standard Warranty

TRAVELS	S.A.E	METRIC
X Axis	16.0 in	406 mm
Y Axis	12.0 in	305 mm
Z Axis	10.0 in	254 mm
Spindle Nose to Table (~ max)	14.0 in	356 mm
Spindle Nose to Table (~ min)	4.0 in	102 mm

SPINDLE	S.A.E	METRIC
Max Rating	7.5 hp	5.6 kW
Max Speed	4000 rpm	4000 rpm
Max Torque	33 ft-lbf @ 1200 rpm	45 Nm @ 1200 rpm
Drive System	Direct Speed, Belt Drive	Direct Speed, Belt Drive
Taper	CT or BT 40	CT or BT 40

TABLE	S.A.E	METRIC
Length	36.0 in	914 mm
Length (Work Area)	28.75 in	730 mm
Width	12.0 in	305 mm
T-Slot Width	0.630 in	16 mm
T-Slot Center Distance	4.33 in	110 mm
Number of Std T-Slots	3	3
Max Weight on Table (evenly distributed)	500 lb	227 kg

FEEDRATES	S.A.E	METRIC
Max Cutting	300 ipm	7.6 m/min
Rapids on X	300 ipm	7.6 m/min
Rapids on Y	300 ipm	7.6 m/min
Rapids on Z	300 ipm	7.6 m/min

AXIS MOTORS	S.A.E	METRIC
Max Thrust X	2000 lbf	8896 N
Max Thrust Y	2000 lbf	8896 N
Max Thrust Z	2000 lbf	8896 N

AIR REQUIREMENTS	S.A.E	METRIC
Air Required	4 scfm @ 100 psi	113 L/min @ 6.9 bar

ELECTRICAL SPECIFICATION	S.A.E	METRIC
Spindle Speed	4000 rpm	4000 rpm
Drive System	Direct Speed, Belt Drive	Direct Speed, Belt Drive
Spindle Power	7.5 hp	5.6 kW
Input AC Voltage (1 Phase)	220 VAC	220 VAC
Full Load Amps (1 Phase)	40 A	40 A
Input AC Voltage (3 Phase) - Low	220 VAC	220 VAC
Full Load Amps (3 Phase) - Low	25 A	25 A
Input AC Voltage (3 Phase) - High	440 VAC	440 VAC
Full Load Amps (3 Phase) - High	13 A	13 A

HIGHER PRODUCTION

LARGER WORK ENVELOPE

HIGHER PRODUCTION



Mini Mill

Mini CNC Vertical Mill with 16" x 12" x 10" travels

40 / 3 / 6k /  
 TAPER    AXIS    RPM

10  
 TOOL  
 CAPACITY



Mini Mill 2

Mini Vertical Mill with 20" x 16" x 14" travels

40 / 3 / 6k /  
 TAPER    AXIS    RPM

20  
 TOOL  
 CAPACITY



Super Mini Mill

Super-Speed Mini Vertical Mill with 16" x 12" x 10" travels

40 / 3 / 10k /  
 TAPER    AXIS    RPM

10  
 TOOL  
 CAPACITY

All prices and specifications are subject to change without notice. Freight, rigging, state and local taxes, installation charges, and dealer installed accessories are extra. **Starting at \$29,995** **Starting at \$36,995** **Starting at \$39,995**  
 included. Not responsible for misprints or typographical errors. All prices are in U.S. dollars. Machines shown with optional equipment. Actual product appearance may differ. **\$28,495.25** **\$35,145.25** **\$37,995.25**



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Value added services  
Outsourcing

# STORAGE RACKS

## Battery Racks

Borroughs gravity-fed Battery Racks offer four levels of battery storage on angled mesh decking, with no rollers to break or seize. A corrosion resistant coating ensures longevity.



- Four levels for storage
- Corrosion resistant coating
- Angled mesh deck
- Gravity fed—no rollers to break or seize
- Starter & adder units available

## Tire Racks

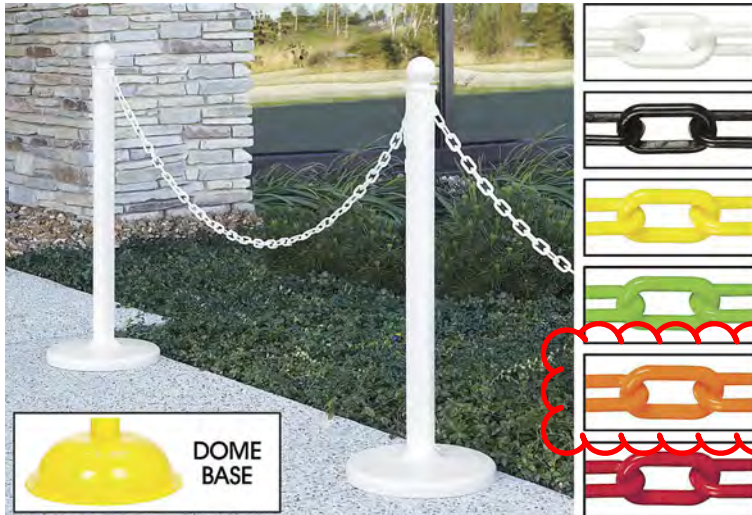
Borroughs Tire Racks are made of Rivet-Span construction, and require no nuts or bolts for assembly. Tires rest on angle beams, keeping them securely in place. Available in single or double-entry units.



## Bumper Racks

Borroughs Bumper Racks save floor space by storing bumpers and bumper covers vertically. Elevated arms with 24" depth adjust in 1" vertical increments. Made from heavy-duty 16 gauge steel. Anti-tip angle iron base can be easily anchored to the floor for extra stability.





## PLASTIC CROWD CONTROL

Direct folks at indoor or outdoor events. Economical, lightweight and portable.

- Weatherproof, durable and UV resistant.
- Fill bases with sand or gravel for added stability.
- Flat Base – Standard-duty stanchion. Fill weight: 6.4 lbs.
- Dome Base – Heavy-duty stanchion. Fill weight: 12 lbs.
- Plastic Chain – Easily cut to size.
- S-Hooks – Connect chains together.

### PLASTIC CROWD CONTROL POSTS

White, Black, Yellow, Lime, Orange or Red

MODEL NO.	DESCRIPTION	HEIGHT	POST DIAM.	BASE DIAM.	WT. (LBS.)	PRICE EACH		ADD TO CART
						1-2	5+	
<a href="#">H-3361</a>	Post with Flat Base	40"	2 1/2"	14"	3	\$37	\$34	<a href="#">Specify Color</a>
<a href="#">H-3362</a>	Post with Dome Base	41"	3"	16"	4	40	37	<a href="#">Specify Color</a>

ORANGE

### PLASTIC CROWD CONTROL CHAINS AND S-HOOKS

White, Black, Yellow, Lime, Orange or Red

MODEL NO.	DESCRIPTION	WT. (LBS.)	PRICE EACH		ADD TO CART
			1-2	5+	
<a href="#">H-3363</a>	8' Bag of Chain – 2" Links (min. 2 bags)	1	\$10	\$8	<a href="#">Specify Color</a>
<a href="#">H-3364</a>	100' Box of Chain – 2" Links	7	80	75	<a href="#">Specify Color</a>
<a href="#">H-5108</a>	500' Box of Chain – 2" Links	33	375	350	<a href="#">Specify Color</a>
<a href="#">S-17974</a>	S-Hooks 12/pk. (min. 2 pks.)	1	6	5	<a href="#">Specify Color</a>

ORANGE

44,000 / 64,000 / 80,000 lbs. HEAVY-DUTY CAPACITIES

**Runway extensions** add the versatility of a 24" wheelbase range adjustment.\*\*



FIVE AVAILABLE RUNWAY LENGTHS

Model Shown: VREX64-48X / 64,000 lbs. capacity drive-on lift / surface mounted

## SPECIFICATIONS

V-REX44 V-REX64 V-REX80

	Capacity*	44,000 lbs.	64,000 lbs.	80,000 lbs.
	Maximum Rise Bottom of base to runway top		77 3/4"	
	Collapsed Height		16 - 1/4"	
	Rise Time		90 seconds	
A.	Runway Lengths**		28', 32', 36"*, 48'	
B.	Overall Lengths With standard 10' approach ramps		38', 42', 46', 58'	
C.	Width of Runway		32"	
D.	Overall Width		109"	
E.	Distance Between Runways		45"	
	Motor		20 hp	
	Electrical Standard		3ph, 208-230/460/575	
	Number of legs		4	
	Minimum Floor Thickness		6"	

\* 44K, 64K and 80K capacities for all runway lengths. with the exception of the 36' runway length. It is available in 44K and 64K capacities only.

\*\* 30' runway available with 2' extension on 28' runway

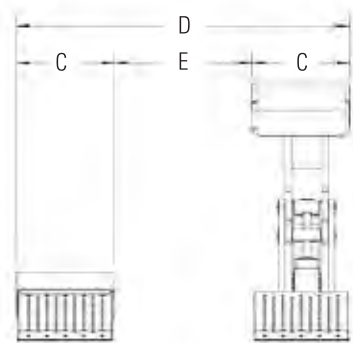
LIFT COLORS  
Runways and Ramps

RAL5005 RAL3002 RAL9005

## Legs and Console

RAL7040

Ten locking positions at convenient and ergonomic working heights.



## OPTIONAL LIFT ACCESSORIES

## Increase bay productivity with these drive-on lift accessories

**Rolling Bridge Jacks** allow the front, rear, or all wheels to be lifted off the runways for brake, tire, alignment and suspension work. Jacks are supported between the runways, not on the top.



Available in 22,000, 32,000 and 36,000 lbs. capacities



## Rolling Bridge Jack Retractable Wheel Kit



Runway wheel kit legs retract for easy rolling jack removal



## LED Runway Lighting Kit

Attach the light wands to runways for effective, efficient lighting where you need it.

- 120V AC input voltage • 60hz

Lighting unit includes 60W power supply unit, 8mm cable and suspensions



## Pendant Controls

The pendant allows for remote operation away from the lift console



## MW-500 Tire Lift

reduces risk of technician injury with this 500 lbs. capacity tire lift. Air operated (100 psi) with no batteries. Includes pressure regulator to prevent overloading.

**Wash Bay Kits** can be installed into wash bays for easy vehicle cleaning with a certified remote stainless steel control panel.



## ADDITIONAL OPTIONS:

- Internal Air Kit connections for Rolling Jacks
- 12' Ramp Kits
- Bolt on Wheel Curbs
- Electronic Height Limiter
- Heavy Duty Turntables for Alignment Service
- Tapeswitches for Inside and Outside of Runways
- Audible Descent Alarm Kit



## V-REX Vertical Rise Drive-On Lifts

HEAVY DUTY PRODUCTIVITY FOR YOUR MAINTENANCE FACILITY

44,000, 64,000 and 80,000 lbs. CAPACITIES

**NEW** V-REX vertical rise lift services the largest vehicles in a new space-saving design.

Powerful V-REX platform lifts offer superior and solid solutions for all of your mechanical and service repairs.



Model Shown:  
VREX80-32X  
80,000 lbs. capacity  
drive-on surface  
mounted lift with 10'  
approach ramps and  
optional rolling jacks



## SAVE BAY SPACE AND MONEY

Designed for facilities with limited bay space, the patent-pending V-REX lift system provides versatile heavy duty vertical lifting.



Proudly built in  
Madison, Indiana, USA



ENVIRONMENTALLY-  
FRIENDLY



**Rotary Lift**  
2700 Lanier Drive  
Madison, IN 47250, USA



## North / South America Contact Information

Sales: p 800.640.5438  
e userlink@rotarylif.com  
Tech. Support: p 800.445.5438  
e techlink@rotarylif.com

## Global Contact Information

USA: 1.812.273.1622  
Canada: 1.905.812.9920  
Latin America / Caribbean: 1.812.273.1622  
Brazil: +55.11.4534.1995

## Assistance for Government Purchasing

Government Sales: 800.445.5438 X5655

For additional world wide contact information and a complete guide to our product offering, visit us on the web at [rotarylif.com](http://rotarylif.com).



Contract No. 061015-RRL



Lit# Rotary V-REX HD Lift Brochure.2016.04

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## Superior by Design

Rotary maintains the industry's largest in-house mechanical, electrical and controls engineering staff using state of the art design, modeling and analysis software to ensure you get a well designed, reliable product.



**KH Industries**  
The Permanent Name in Temporary Lighting  
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## Retractable Cord Reel, RTA Series

**Model #:** RTAN3LW-WDD520-J12F

### ATTRIBUTES:

<b>Cord Length:</b>	25'
<b>Gauge:</b>	12 AWG
<b>Conductor:</b>	3
<b>Max Amps:</b>	20 Amp
<b>Standard:</b>	NEMA 2
<b>Cord Type:</b>	SJOW-Black
<b>Volts:</b>	125 VAC
<b>Feeder End:</b>	5-20P
<b>Payout End:</b>	Blk O/B 20A Duplex/Duplex
<b>Reel Color:</b>	White

### FEATURES:

- NEMA 2 rated for indoor use
- 125 Volt slip ring
- Heavy duty formed steel mounting base for ceiling, wall or bench mount
- 4 position adjustable arm with 4 roller guides
- cULus listed
- Adjustable ball stop included
- 6' feeder cord included
- White, corrosion resistant powder-coat finish
- Made in USA



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## Retractable Cord Reel, RTB Series

**Model #:** RTBB3L-WDD520-J12K

### ATTRIBUTES:

<b>Cord Length:</b>	50'
<b>Gauge:</b>	12 AWG
<b>Conductor:</b>	3
<b>Max Amps:</b>	20 Amp
<b>Standard:</b>	NEMA 2
<b>Cord Type:</b>	SJOW-Black
<b>Volts:</b>	125 VAC
<b>Feeder End:</b>	5-20P
<b>Payout End:</b>	Yellow O/B 20A Duplex/Duplex
<b>Reel Color:</b>	Yellow

### FEATURES:

- NEMA 2 rated for indoor use
- Prewired rubber yellow outlet box with (4) N5-20R
- All steel construction, including mounting base
- 12 position adjustable guide arm
- Adjustable ratchet can be engaged (positive lock) or disengaged (constant tension) as needed
- Adjustable ball stop included
- 6' feeder cord included with molded 5-20P for easy plug and play operation
- Yellow powder-coat finish
- Made in USA