

Ecotech-Machine-Tools-SMTW-Manual-Cylindrical-Grinding-Machines-Comparison-Chart

Specifications	GM	GM8	GM12	GM20	GM25	GM32	GMP	GM8P	GM12p	GM20P	GA	GA8	GA12	GA20	GMH	GM25H
Max. grinding diameter with max size wheel		8" (200mm)	12.59" (320mm)	20" (500mm)	24.80" (630mm)	31.49" (800mm)		8" (200mm)	12.59" (320mm)	20" (500mm)		8" (200mm)	12.59" (320mm)	20" (500mm)		24.80" (630mm)
Distance between centers		19.68"/29.52" (500/750mm)	19.68"/29.52"/39.37"/59.05"/78.74"/118.11" (500/750/1000/1500/2000/3000mm)	39.37"/59.05"/78.74"/118.11"/157.48" (1000/1500/2000/3000/4000mm)	78.74"/118.11"/157.48" (2000/3000/4000mm)	78.74"/118.11"/157.48"/196.8" (2000/3000/4000/5000mm)		19.68"/29.52" (500/750mm)	39.37"/59.05"/ (1000/1500mm)	39.37"/59.05"/78.74"/118.11"/157.48" (1000/1500/2000/3000/4000mm)		19.68"/29.52" (500/750mm)	19.68"/29.52"/39.37"/59.05" (500/750/1000/1500)	39.37"/59.05"/78.74"/118.11"/157.48" (1000/1500/2000/3000/4000mm)		78.74"/118.11"/157.48"/196.8 (2000/3000/4000/5000mm)
Swing over table		10.23" (260mm)	13.77" (350mm)	21.00" (535mm)	27.16" (690mm)	38.97" (990mm)		10.23" (260mm)	13.77" (350mm)	21.00" (535mm)		10.23" (260mm)	13.77" (350mm)	21.00" (535mm)		28.74" (730mm)
Max. Workpiece weight between centers		110lbs (50kg)	330lbs (150kg)	2206lbs (1000kg)	2647lbs (1200kg)	6618lbs (3000kg)		110lbs (50kg)	330lbs (150kg)	2206lbs (1000kg)		110lbs (50kg)	330lbs (150kg)	2206lbs (1000kg)		6618lbs (3000kg)
Wheelhead																
Wheel Size dia.x width x bore		16" x 2" x 7.992" (400 x 50 x 203)	24" x 3" x 12" (600 x 75 x 305mm)	30" x 3" x 12" (750 x 75 x 305mm)	30" x 3" x 12" (750 x 75 x 305mm)	36" x 3" x 12" (900 x 75 x 305mm)		16" x 2" x 8" (400 x 50 x 203mm)	24" x 3" x 12" (600 x 75 x 305)	30" x 3" x 12" (750 x 75 x 305mm)		16" x 2" x 8" (400 x 50 x 203)	24" x 3" x 12" (600 x 75 x 305)	30" x 3" x 12" (750 x 75 x 305mm)		30" x 3" x 12" (750 x 75 x 305mm)
Grinding Wheel Max. Surface Speed		6889 sfpm (35m/S)	6889 sfpm (35m/S)	6889 sfpm (35m/S)	6889 sfpm (35m/S)	6889 sfpm (35m/S)		3445/6889 sfpm (17.5/35m/S)	6889 sfpm (35m/S)	6889 sfpm (35m/S)		6889 sfpm (35m/S)	6889 sfpm (35m/S)	6889 sfpm (35m/S)		6889 sfpm (35m/S)
Rapid approach		0.984" (25mm)	1.969" (50mm)	3.937" (100mm)	3.937" (100mm)	3.937" (100mm)		0.984" (25mm)	1.969" (50mm)	3.937" (100mm)		0.984" (25mm)	1.969" (50mm)	3.937" (100mm)		3.937" (100mm)
Min. increment on infeed handwheel		0.0002" (0.00508mm)	0.0002" (0.00508 mm)	0.0002" (0.00508 mm)	0.0002" (0.00508 mm)	0.0002" (0.00508 mm)		0.0002" (0.00508 mm)	0.0002" (0.00508 mm)	0.0002" (0.00508 mm)		0.0002" (0.00508 mm)	0.0002" (0.00508 mm)	0.0002" (0.00508 mm)		0.0002" (0.00508 mm)
Motor Power		5.36hp (4 kw)	15hp (11 kw)	20hp (15 kw)	20hp (15 kw)	26.8hp (20 kw)		5.36hp (4 kw)	15hp (11 kw)	20hp (15 kw)		5.36hp (4 kw)	15hp (11 kw)	20hp (15 kw)		20hp (15 kw)
Pick-Feed		Traverse Grinding	Traverse Grinding	Traverse Grinding	Traverse Grinding	Traverse Grinding				Traverse Grinding						Traverse Grinding
Variable speed (optional)		800~1600rpm	500~1100rpm	400~900rpm	400~900rpm	300~750rpm		800~1600rpm	500~1100rpm	400~900rpm		800~1600rpm	500~1100rpm	400~900rpm		400~900rpm
PLC-hydro Infeed												Plunge and traverse grinding cycle	Plunge and traverse grinding cycle			
Workhead																
Spindle type		Dead	Dead	Dead	Dead	Dead			Dead	Dead		Dead	Dead	Dead		Dead
Bore Taper		Morse #4	Morse #5	Morse #6	Morse #6	ISO 80		Morse #4	Morse #5	Morse #6		Morse #4	Morse #5	Morse #6		ISO 80 metric
Variable speed		40~400 rpm	30~270 rpm	16~160 rpm	20~200 rpm	8~80 rpm		40~400 rpm	30~270 rpm	16~160 rpm		40~400 rpm	30~270 rpm	16~160 rpm		20~200 rpm
Motor power		0.5hp (0.4kw)	2hp (1.5kw)	7.5hp (5.5kw)	10hp (7.5kw)	20hp (15kw)		0.5hp (0.4kw)	2hp (1.5kw)	7.5hp (5.5kw)		0.5hp (0.4kw)	2hp (1.5kw)	7.5hp (5.5kw)		10hp (7.5kw)
Tailstock																
Taper		Morse #4	Morse #4	Morse #6	Morse #6	ISO 80		Morse #4	Morse #4	Morse #6		Morse #4	Morse #4	Morse #6		ISO 80 metric
Quill travel		1.18" (30mm)	1.18" (30mm)	2.75" (70mm)	2.75" (70mm)	2.75" (70mm)		1.18" (30mm)	1.18" (30mm)	2.75" (70mm)		1.18" (30mm)	1.18" (30mm)	2.75" (70mm)		2.75" (70mm)