

SUPERTEC UNIVERSAL CYLINDRICAL GRINDERS

G20P-45M+5C	Universal Cylindrical Grinder (8"x18", Manual Infeed).....	\$ 19,990.00
G20P-45CII+5C	Universal Cylindrical Grinder (8"x18", Automatic Infeed)	\$ 23,990.00
G20P-50M+5C	Universal Cylindrical Grinder (8"x20", Manual Infeed)	\$ 24,990.00
G20P-50CII+5C	Universal Cylindrical Grinder (8"x20", Automatic Infeed)	\$ 29,990.00
G25P-50H+5C	Universal Cylindrical Grinder (10"x20", Manual Infeed)	\$ 29,990.00
G25P-50CII+5C	Universal Cylindrical Grinder (10"x20", Automatic Infeed)	\$ 34,990.00

FEATURES

- Sturdy rigid-designed workhead offers four selectable speeds from 150 to 483 rpm and swivels $\pm 45^\circ$ for various grinding operations.
- The design of the tailstock is both rigid and robust. Housed in a cast body, the hardened nitralloy steel sleeve is designed to carry a MT3 center.
- Cartridge type wheel spindle is equipped with four super precision angular contact class 7 (ABEC) bearings ensure high accuracy.
- One V and one flat hand-scraped guideways are Turcite coated and incorporated with an automatic lubrication system and micro-stepping motor. Smooth movement of the wheelhead delivers longer way life with superior positioning accuracy and repeatability.
- Universal table with variable speeds can swivel $+3^\circ/-5^\circ$ (G20P) and $+7^\circ/-9^\circ$ (G25P) for cylindricity corrections and taper grinding applications.
- Slideways, leadscrews are continuously lubricated by an auto-lube system to ensure long service life and maintain maximum accuracy.
- Optional internal grinding attachment swings down into working position easily and quickly. It can grind workpieces with bores ranging from $3/5''-2\ 3/4''$ and depth up to $2\ 3/4''$.
- Optional hydraulic tailstock with foot pedal is available for easy loading and unloading of parts.
- Mitsubishi PLC control uses a menu-driven LCD touch screen is easy to learn and easy to set. Simply fill in the blanks to set total grinding amount, rough increment, fine increment, sparkout passes, feeding direction, parking position, and retracting clearance, and press cycle start to complete automatic grinding cycle. (CII models only)

STANDARD ACCESSORIES

- Grinding wheel w/flange
- Balancing arbor
- Coolant System
- Auto lubrication system
- Tool box with adjusting tools
- Dressing attachment (fixed at tailstock)
- Carbide tip center
- Leveling screws w/blocks
- Wheel extractor
- 5C level type collet closer
- Operation manual with parts list

SPECIFICATIONS:

GENERAL CAPACITY

Distance Between Centers:	G20P-45M/CII	18"
	G20P-50M/CII	20"
	G25P-50H/CII	20"
Swing Over Table:	G20P-45M/CII	8"
	G20P-50M/CII	8"
	G25P-50H/CII	10"
Max. Grinding Diameter:	G20P-45M/CII	8"
	G20P-50M/CII.....	8"
	G25P-50H/CII	10"
Max. Load Held Between Centers:	G20P-45M/CII.....	176 lbs
	G20P-50M/CII.....	176 lbs
	G25P-50H/CII	176 lbs

WHEELHEAD

Swivelling Angle (R&L):	G20P-45M/CII	FIXED
	G20P-50M/CII	FIXED
	G25P-50H/CII	± 30°
Infeed/Handfeed Travel:	G20P-45M/CII.....	6-1/3"
	G20P-50M/CII.....	6-1/3"
	G25P-50H/CII	6-1/3"
Hydraulic Rapid Traverse:	G20P-45M/CII	N/A
	G20P-50M/CII	N/A
	G25P-50H/CII	1-3/4"
Automatic Infeed Increment: (CII model):	G20P/G25P	0.0001"~4"

Infeed of Handwheel		
Per Graduation:	G20P/G25P	ø0.0001"
Per Revolution:	G20P/G25P	ø0.01"

GRINDING WHEEL

Wheel Diameter		
(Dia. x Width x Bore):	G20P-45M/CII	14"x1-1/2"x ø5"
	G20P-50M/CII.....	14"x1~2"x ø5"
	G25P-50H/CII	14"x1-1/2"x ø5"
Wheel Speed (50/60Hz):	G20P/G25P.....	1960 rpm

TABLE

Swivelling Angle (R&L):	G20P-45M/CII	+3° /-5°
	G20P-50M/CII	±7°
	G25P-50H/CII	+7°/-9°
Traverse Speed:	G20P-45M/CII.....	3.0"/5.5"/9.0" in/min.
	G20P-50M/CII.....	2.8/4.9/8.3 in/min.
	G25P-50H/CII	N/A
Traverse Speed:		
(Inf. Var.-Hydraulic)	G20P-45M/CII.....	N/A
	G20P-50M/CII.....	N/A
	G25P-50H/CII	2"~40"
Handwheel Per Revolution:	G20P-45M/CII.....	0.35"
	G20P-50M/CII.....	0.35"
	G25P-50H/CII	0.39"

WORKHEAD

Swivelling Angle (R&L):	G20P-45/50M/CII.....	±45°
	G25P-50H/CII.....	+30° /-90°
Center Taper:	G20P/G25P.....	MT3
Spindle Speed:	G20P/G25P.....	150/264/356/480 rpm
Spindle Type:	G20P/G25P	Live and Dead

TAILSTOCK

Center Taper:	G20P/G25P	MT3
Quill Travel:	G20P/G25P.....	1"

INTERNAL GRINDING SPINDLE

Spindle speed:	G20P-45/50M/CII.....	14000 rpm (opt:25000)
	G25P-50H/CII.....	12000/18000 (opt:25000)
Max. Grinding Bore:	G20P-45M/CII.....	ø0.95”~2.76”
	G20P-50M/CII	15/16”~2 ¾”
	G25P-50H/CII.....	ø1.18”~3.94”(opt. ø0.79”~1.97”)
Max. Grinding Length:	G20P-45M/CII.....	2.76”
	G20P-50M/CII.....	2 ¾”
	G25P-50H/CII.....	4.33” (opt.2.17”)
Max. Chucking Length:	G20P-45/50M/CII.....	10-3/4”
	G25P-50H/CII.....	12-2/5”
Max. Chucking Diameter:	G20P-45/50M/CII.....	ø4-1/3”
	G25P-50H/CII.....	ø6”

MOTOR

Wheel Spindle Motor:	G20P-45/50M/CII.....	3 HP
	G25P-50H/CII.....	5 HP
Workhead Motor:	G20P-45/50M/CII.....	¼ HP
Coolant Motor:	G20P/G25P.....	1/8 HP
Hydraulic Pump:	G20P-45/50M/CII.....	N/A
	G25P-50H/CII.....	1 HP
Internal Grinding Motor:	G20P-45/50M/CII.....	½ HP
	G25P-50H/CII.....	2 HP

MACHINE

Net weight:	G20P-45M/CII	3410 lbs
	G20P-50M/CII.....	3600 lbs
	G25P-50H/CII.....	4510 lbs
Gross weight:	G20P-45M/CII.....	4510 lbs
	G20P-50M/CII.....	4770 lbs
	G25P-50H/CII.....	5610 lbs
Packing dimension:	G20P-45M/CII.....	85”x57”x73”
(L X W X H)	G20P-50M/CII.....	82”x47”x78”
	G25P-50H/CII.....	89”x65”x75”

SPECIAL ACCESSORIES & REPLACEMENTS:

I. BACK PLATE & SCROLL CHUCKS

OG2-4201	3-Jaw chuck (4") (must order with OG2-4301 back plate)	\$	440.00
OG2-4202	4-Jaw chuck (4") (must order with OG2-4301 back plate)		440.00
OG2-4301	5C Back plate (4")		275.00
OG1-4201	3-Jaw chuck (5") (must order with OG1-4301 back plate)		500.00
OG1-4202	4-Jaw chuck (5") (must order with OG1-4301 back plate)		500.00
OG1-4301	5C Back plate (5")		275.00

II. COLLETS

OLG-4002*	Royal manual lever type 5C collet closer		1,400.00
OLG-4102*	Royal air-operated 5C collet closer (must order with air control)		1,750.00
	Installation charge	(Net)	165.00
OLG-4103*	Kit w/hand-operated valve for air 5C (must order with air 5C)		285.00
OLG-4104*	Kit w/foot-operated valve for air 5C (must order with air 5C)		450.00
OLG-4401	Lyndex 5C collets (sizes are from 3/64" – 1 1/8" by 1/16")		
	Sizes: 3/64"	(Each)	28.00
	Sizes: 1/16" – 7/64", 1 1/64" – 1 1/8"	(Each)	26.00
	Sizes: 1/8" – 1"	(Each)	23.00

III. COOLANT SYSTEM

** The following prices are additional charge when exchanging standard coolant system

OG2-2002	Coolant system w/magnetic sep. & paper filter (20L/min, 80L)	2,200.00
OG2-2003	Coolant system w/magnetic separator (20L/min, 46L)	715.00
OG2-2004	Coolant system w/paper filter (20L/min, 80L)	1,420.00

VI. DRESSING & GRINDING ATTACHMENT

OG1-3004	Radius dressing attachment	690.00
OG1-3005	Angle dressing attachment	600.00
OG1-4001	Internal grinding attachment (14000rpm) for G20P	3,720.00
OG1-4101	Internal grinding attachment (25000rpm) for G25P	4,270.00
OG2-4402	Chuck for ID attachment (Arbor type, ER-11)	500.00

V. SONY DIGITAL READOUT SYSTEM

OLG1-8008	Two axis (X & Z axis) digital readout for G20P/G25P	2,150.00
OLG2-8009	One axis (wheelhead) digital readout for G20P/G25P	1,275.00
	Installation charge: Single/Double axis	(Net) 250.00/400.00

VI. STEADY REST

OG2-3006	2-Point steady rest (0.78" - 2")	400.00
OG1-3006	2-Point steady rest (1.2" - 2.8")	400.00
OG1-3007	2-Point steady rest (4.8")	530.00
OG1-3008	3-Point steady rest (0.3" - 1.1")	530.00
OG1-3009	3-Point steady rest (1.1" - 2.4")	660.00
OG3-3006	2-Point steady rest (0.78"~2.8") for G25P	440.00
OG3-3007	2-Point steady rest (2.8"~4.8") for G25P	500.00
OG3-3008	3-Point steady rest (1.6"~4") for G25P	530.00
OG3-3009	3-Point steady rest (3.2"~5.5") for G25P	630.00

VII. OTHER ACCESSORIES

OG2-1001	Balancing stand (straight type)	210.00
OG1-1002	Spare Grinding wheel (14"x1 1/2"x5")	140.00
OG3-1003	Spare wheel flange for	330.00
OG1-3010*	Table dial gauge attachment for G20P	330.00
OG1-4003*	Hydraulic tailstock for G20P	2,420.00
OG1-4005*	Variable spindle speeds for wheelhead (230V/3ph/3hp)	1,925.00
OG1-4006*	Variable spindle speeds for wheelhead (460V/3ph/3hp)	2,250.00
OG2-4013	Variable spindle speeds for wheelhead (230V/3ph/5hp)	2,150.00
OG2-4014	Variable spindle speeds for wheelhead (460V/3ph/5hp)	2,530.00
OG2-4007*	Variable spindle speeds for I.D. attachment (230V/3ph/0.5hp)	880.00
OG2-4008*	Variable spindle speeds for I.D. attachment (460V/3ph/0.5hp)	1,050.00
OG3-4007*	Variable spindle speeds for I.D. attachment (230V/3ph/2hp)	1,760.00
OG3-4008*	Variable spindle speeds for I.D. attachment (460V/3ph/2hp)	2,035.00
OG2-4009*	Variable spindle speeds for workhead (230V/3ph/0.5hp)	880.00
OG2-4010*	Variable spindle speeds for workhead (460V/3ph/0.5hp)	1,050.00
OG2-4011*	Variable table speeds (230V/3ph/0.5hp)	880.00
OG2-4012*	Variable table speeds (460V/3ph/0.5hp)	1,050.00

*Factory installation required

Price is F.O.B Paramount, CA.

Prices and specifications subject to change without prior notice.

Our responsibility ceases when delivery is made to the carrier.

Any claim for loss or damage must be handled by purchaser against carrier.

Set-up and training is available upon request for an additional charge.

One year parts and labor warranty. Standard color of machine is GRAY and WHITE.