

SUPERTEC CNC CYLINDRICAL GRINDERS

STRAIGHT WHEELHEAD

G20P-50CNC	CNC Universal Cylindrical Grinder (8"x20")	\$ 69,900.00
G32P-50CNC	CNC Universal Cylindrical Grinder (12.6"x20")	\$ 102,500.00
G32P-75CNC	CNC Universal Cylindrical Grinder (12.6"x30")	\$ 113,500.00
G32P-100CNC	CNC Universal Cylindrical Grinder (12.6"x40")	\$ 124,500.00
G32P-150CNC	CNC Universal Cylindrical Grinder (12.6"x60").....	\$ 143,500.00
G38P-50CNC	CNC Universal Cylindrical Grinder (15"x20")	\$ 105,900.00
G38P-75CNC	CNC Universal Cylindrical Grinder (15"x30")	\$ 116,500.00
G38P-100CNC	CNC Universal Cylindrical Grinder (15"x40")	\$ 127,500.00
G38P-150CNC	CNC Universal Cylindrical Grinder (15"x60").....	\$ 146,500.00

ANGULAR WHEELHEAD

G32A-35CNC	CNC Angular Cylindrical Grinder (12.6"x14")	\$ 107,900.00
G32A-50CNC	CNC Angular Cylindrical Grinder (12.6"x20")	\$ 118,900.00
G32A-80CNC	CNC Angular Cylindrical Grinder (12.6"x32")	\$ 129,500.00
G38A-35CNC	CNC Angular Cylindrical Grinder (15"x14")	\$ 111,500.00
G38A-50CNC	CNC Angular Cylindrical Grinder (15"x20")	\$ 121,900.00
G38A-80CNC	CNC Angular Cylindrical Grinder (15"x32")	\$ 132,900.00

**Other sizes are available upon request

FEATURES

- FANUC CNC control, drives and servo motors, with 2 year FANUC warranty.
- Heavily ribbed box-type base is made of Meehanite castings, providing excellent rigidity to ensure machine stability. Table is fully supported in the full travel to avoid overhang.
- Hydraulics, coolant and lubrication systems are separated from machine to eliminate vibration and dissipate heat.
- Generously proportioned, the enlarged and properly sloped drainage troughs underneath the wheelhead base provides rapid coolant drainage needed during heavy duty grinding and prevents thermal distortion of base.
- Sturdy rigid-designed workhead is electronically controlled giving variable spindle speeds. Workhead swivels 90°CCW to 30°CW for various grinding operations. A dual oil seal and cover prevents coolant seepage into the workhead.
- 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 MT4 center for G32/G38 and a MT3 Center for G20.
- Optional hydraulic tailstock with foot pedal is available for easy loading and unloading of parts.
- A combination of hydrostatic and hydrodynamic bearings, surrounded by a high pressure oil film, eliminates metal to metal contact to provide high rigidity as well as high vibration damping performance. (Except G20P)
- A pressure switch interlock prevents spindle start-up until oil pressure is established. This pressure switch interlock also stops the spindle if oil pressure fails.
- One V and one flat hand-scraped guideways are Turcite coated and incorporated with an automatic lubrication system, precision ballscrew, AC servo motor and a 0.000020" linear feedback system to ensure smooth movement of the wheelhead for superior positioning accuracy and repeatability.
- Rigid table with box-type structure travels on a cushion of oil with no metal-to-metal contact. Z-axis positioning accuracy and repeatability is assured with an AC servo motor and high precision, pre-tensioned ballscrews.
- A swiveling table dial indicator enables rapid cylindrical corrections and taper grinding applications.
- Slideways, ballscrews and spindle are continuously lubricated by an auto-lube system to ensure long service life and maintain maximum accuracy.
- A highly-automated grinding system can be customized with a wide selection of optional equipments...including an automatic OD sizing device, gap control, crash control and touch probe for axial positioning.

- The hinged, swing-down internal grinding attachment (optional) swings down into working position easily and quickly. A patented locking device adds safety as it prevents the ID attachment from swinging down abruptly. (Except G32A/38A Series)

STANDARD ACCESSORIES:

- FANUC OGC CNC Controller
- Table dial gauge
- Halogen lamp
- Infinite variable workhead
- Semi-enclosed splash guard
- Carbide tip centers
- Operation manual with parts list
- Coolant system w/ magnetic separator
- Diamond dresser
- Wheel extractor
- Balancing stand w/ arbor
- Grinding wheel w/ flange
- Leveling screws w/ blocks
- Tool box w/ adjusting tools
- Lube oil temperature regulator (G32A/G38A)

SPECIFICATIONS:

GENERAL CAPACITY

Swing over table:

G20P-50CNC	8"
G32P-50/75/100CNC,G32A-35/50/80CNC	12.6"
G38P-50/75/100/150CNC,G38A-35/50/80CNC	15"

Distance between centers:

G32A/G38A-35CNC	14"
G20P/G32P/G38P/G32A/G38A-50CNC	20"
G32P/G38P-75CNC.....	30"
G32A/G38A-80CNC	32"
G32P/G38P-100CNC	40"
G32P/G38P-150CNC	60"

Max. grinding diameter:

G20P-50CNC	8"
G32P-50/75/100CNC, G32A-35/50/80CNC	12"
G38P-50/75/100/150CNC, G38A-35/50/80CNC	14"

Max. load between centers:

G20P-50CNC	176 lbs
G32/G38P-50/75/100/150CNC, G32A/G38A-35/50/80CNC	330 lbs

GRINDING WHEEL

Diameter x Width x Bore:	G20P-50CNC.....	14"x1"~2"x5"
	G32P/G38P-50/75/100/150CNC.....	18"x2"~4"x6"
	G32A/G38A-35/50/80CNC.....	20"x2"~4"x6"
Wheel speed:	G20P-50CNC.....	1940 rpm
	G32P/G38P-50/75/100/150CNC, G32A/G38A-35/50/80CNC	1390 rpm
Max. peripheral speed:	G20P-50CNC	118 ft/sec
	G32P/G38P-50/75/100/150CNC	109 ft/sec
	G32A/G38A-35/50/80CNC	121 ft/sec

WHEELHEAD

Sliding angle:	G20P-50CNC, G32P/G38P-50/75/100/150CNC	90 degrees
	G32A/G38A-35/50/80CNC.....	60 degrees
Automatic rapid traverse:	G20P-50CNC.....	236 in/min
	G32P/G38P-50/75/100/150CNC, G32A/G38A-35/50/80CNC	393 in/min
Infeed travel:	G20P-50CNC.....	6"
	G32P/G38P-50/75/100/150CNC, G32A/G38A-35/50/80CNC	9"
Min. increment infeed:	.....	0.0001"

TAILSTOCK:

Quill Travel:	.....	1"
Center taper:	G20P-50CNC	MT3
	G32P/G38P-50/75/100/150CNC, G32A/G38A-35/50/80CNC.....	MT4(option MT5)

WORKHEAD

Spindle speed (variable):	G20P-50CNC	50-500 rpm
	G32P/G38P-50/75/100/150CNC, G32A/G38A-35/50/80CNC	30-350 rpm
Center taper:	G20P-50CNC	MT3
	G32P/G38P-50/75/100/150CNC, G32A/G38A-35/50/80CNC	MT4(option MT5)

Spindle type:	.....	Fixed & Rotary
Diameter of bore:	G20P-50CNC	0.79"
	G32P/G38P-50/75/100/150CNC,	
	G32A/G38A-35/50/80CNC	0.91"

INTERNAL GRINDING SPINDLE

Spindle speed:	G20P-50CNC.....	14000 rpm or 25000 rpm
Max. grinding bore:	G20P-50CNC.....	15/16"~ 2 3/4"
Max. grinding length:	G20P-50CNC.....	2 3/4"
Max. chucking length:	G20P-50CNC.....	10 3/4"
Max. chucking diameter:	G20P-50CNC.....	4 1/3"
Spindle speed:	G32P/G38P	12000/18000 rpm or 25000 rpm
Max. grinding bore:	G32P/G38P	1.18"-3.94" or 0.79"-1.97"
Max. grinding length:	G32P/G38P	4.33" or 2.17"
Max. chucking length:	G32P/G38P	8"~12 2/5"
Max. chucking diameter:	G32P/G38P	6"

TABLE:

Swiveling angle (C.C.W):	G20P/G32A/G38A-50/80CNC, G32P/G38P-75/100/150CNC	7 degrees
	G32P-50CNC, G32A/G38A-35CNC	9 degrees
Rapid feedrate:	G20P-50CNC	0-315 in/min
	G32P/G38P-50/75/100/150CNC, G32A/G38A-35/50/80CNC	0-393 in/min
Min. increment feed:	.....	0.0001"

MOTOR

Wheel spindle motor:	G20P-50CNC	5 HP
	G32P/G38P-50/75/100/150CNC	7.5 HP
	G32A/G38A-35/50/80CNC.....	10 HP
Workhead motor:	G20P-50CNC	1/4 HP
	G32P/G38P-50/75/100/150CNC, G32A/G38A-35/50/80CNC.....	2 HP

Hydraulic pump:	G20P-50CNC.....	1 HP
	G32P/G38P-50/75/100/150CNC,	
	G32A/G38A-35/50/80CNC.....	2 HP
Lubrication pump:	G32P/G38P-50/75/100/150CNC,	
	G32A/G38A-35/50/80CNC.....	1/4 HP
Coolant pump:	G20P-50CNC.....	1/8 HP
	G32P/G38P-50/75/100/150CNC,	
	G32A/G38A-35/50/80CNC.....	1/4 HP
Wheelhead (X axis) Motor [Fanuc]:	.....	0.8 HP
Table (Z Axis) Motor [Fanuc]:	.....	0.8 HP

MACHINE

Net weight (Semi-enclosed):	G20P-50CNC.....	4400 lbs
	G32P-50CNC, G32A-35CNC.....	9240 lbs
	G32P-75CNC, G32A-50CNC.....	10120 lbs
	G32P-100CNC, G32A-80CNC	10560 lbs
	G38P-150CNC	11960 lbs
Gross weight:	G20P-50CNC.....	5500 lbs
	G32P-50CNC, G32A-35CNC.....	10120 lbs
	G32P-75CNC, G32A-50CNC.....	10560 lbs
	G32P-100CNC, G32A-80CNC.....	11660 lbs
	G38P-150CNC	13060 lbs
Packing dimension:	G20P-50CNC	110"x69"x81"
(L x W x H)	G32P-50CNC, G32A-35CNC	137"x92"x82"
	G32A-50CNC	145"x92"x82"
	G32P-75CNC	152"x92"x82"
	G32P-100CNC, G32A-80CNC	175"x86"x88"
	G38P-150CNC	209"x85"x89"

SPECIAL ACCESSORIES/REPLACEMENTS:

I. AUTOMATION SYSTEMS

OG1-4003*	Hydraulic tailstock for G20P	\$ 2,420.00
OG3-4003*	Hydraulic tailstock for G32P/ G38P/ G32A/ G38A	2,420.00
OLG-8001*	SBS Dynamic balance system (include factory installation)	9,350.00
OGC-8002*	MARPOSS Crash control	6,600.00
OGC-8003*	MARPOSS Gap control	6,600.00
OGC-8004*	MOVOMATIC Auto sizing device (0.4" - 2.4")	15,400.00
OGC-8005*	MARPOSS Auto sizing device (0.4" - 3.15")	15,400.00
OGC-8006*	MARPOSS Touch probe for G32P/G32A/G38P/G38A	8,250.00
OGC1-8006*	MARPOSS Touch probe for G20P	8,250.00

II. BACK PLATE & SCROLL CHUCKS

OG2-4201	3-Jaw scroll chuck (4") (must order with 4" back plate)	440.00
OG1-4201	3-Jaw scroll chuck (5") (must order with 5" back plate)	500.00
OG3-4201	3-Jaw scroll chuck (6") (must order with 6" back plate)	550.00
OG3-4202	3-Jaw scroll chuck (8") (must order with 8" back plate)	660.00
OG3-4203	4-Jaw independent chuck (8") (must order with 8" back plate)	600.00
OG3-4204	4-Jaw independent chuck (6") (must order with 6" back plate)	600.00
OG2-4301	5C Back plate (4") for G20P	275.00
OG2-4302	Back plate (4") for G20P	275.00
OG1-4301	5C Back plate (5") for G20P	275.00
OG1-4302	Back plate (5") for G20P	275.00
OG3-4302	Fixed back plate (6") for G32P/G32A/G38P/G38A	330.00
OG3-4304	Fixed back plate (8") for G32P/G32A/G38P/G38A	750.00

III. COOLANT SYSTEM

**The following prices are additional charges when exchanging std. coolant

OGC1-2002	Coolant sys. w/mag. separator & paper filter (20L/min, 80L)	1,650.00
OGC1-2004	Coolant system w/paper filter (20L/min, 80L)	1,100.00
OGC3-2002	Coolant sys. w/mag. separator & paper filter (60L/min, 140L)	2,100.00
OGC3-2004	Coolant system w/paper filter (60L/min, 140L)	1,265.00

IV. COLLETS

OLG-4002*	Royal manual lever type 5C collet closer	1,400.00
OLG-4102*	Royal air-operated 5C collet closer (must order w/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)	29.00
	Sizes: 1/16" – 7/64", 1 1/64" – 1 1/8" (Each)	26.50
	Sizes: 1/8" – 1" (Each)	23.00

V. DRESSING & GRINDING ATTACHMENT

OGC1-3004	2-Point diamond dresser for G20P	1,650.00
OGC1-3005	3-Point diamond dresser for G20P	2,100.00
OGC3-3004	2-Point diamond dresser for G32P/G32A/G38P/G38A	2,000.00
OGC3-3005	3-Point diamond dresser for G32P/G32A/G38P/G38A	2,425.00
OGC1-4001*	Internal grinding attachment for G20P	4,950.00
OGC3-4001*	Internal grinding attachment for G32P	6,600.00
OGC3-4101*	Internal grinding attachment for G38P	6,600.00

VI. STEADY REST

OG1-3006	2-Point steady rest (0.78"~2") for G20P	400.00
OG1-3007	2-Point steady rest (4.8") for G20P	530.00
OG1-3008	3-Point steady rest (0.28"~1.1") for G20P	530.00
OG1-3009	3-Point steady rest (1.1"~2.36") for G20P	660.00
OG3-3006	2-Point steady rest (2.8") for G32P/ G32A	440.00
OG3-3007	2-Point steady rest (4.8") for G32P/ G32A	500.00
OG3-3008	3-Point steady rest (1.6"- 4") for G32P/ G32A	530.00
OG3-3009	3-Point steady rest (3.2"- 5.5") for G32P/ G32A	635.00
OG3-3106	2-Point steady rest (2.8") for G38P/ G38A	530.00
OG3-3107	2-Point steady rest (4.8") for G38P/ G38A	600.00
OG3-3108	3-Point steady rest (1.6"- 4") for G38P/ G38A	600.00
OG3-3109	3-Point steady rest (3.2"- 5.5") for G38P/ G38A	715.00

VII. OTHER ACCESSORIES

OGC1-1002	Grinding wheel (14"x2"x5") for G20P	165.00
OGC3-1002	Grinding wheel (18"x2"x6") for G32P/ G38P	330.00
OGCA-1002	Grinding wheel (20"x2"x6") for G32A/ G38A	600.00
OG3-1003	Spare wheel flange (5") for G20P	330.00
OGC3-1003	Spare wheel flange (5") for G32P/G38P-50/75/100/150CNC	330.00
OGC3-1004	Spare wheel flange (6") for G32P/G38P-50/75/100/150CNC	330.00
OGCA-1003	Spare wheel flange (5") for G32A/G38A-35/50/80CNC	440.00
OGCA-1004	Spare wheel flange (6") for G32A/G38A-35/50/80CNC	440.00
OGC3-8007	Lube oil temperature regulator	3,080.00
OGC-8010	460V Transformer (15KVA) (Net)	1,100.00
OGC1-9001*	Full enclosure splash guard w/oil & mist separator for G20P	13,200.00
OGC3-9001*	Full enclosure splash guard w/oil & mist separator for G32P/G38P-50CNC	14,850.00
OGC4-9001*	Full enclosure splash guard w/oil & mist separator for G32P/G38P-75CNC	15,950.00
OGC5-9001*	Full enclosure splash guard w/oil & mist separator for G32P/G38P-100CNC	17,050.00
OGC6-9001*	Full enclosure splash guard w/oil & mist separator for G32P/G38P-150CNC	17,600.00
OGCA-9001*	Full enclosure splash guard w/oil & mist separator for G32A/G38A-35CNC	14,300.00
OGCA-9002*	Full enclosure splash guard w/oil & mist separator for G32A/G38A-50CNC	14,850.00
OGCA-9003*	Full enclosure splash guard w/oil & mist separator for G32A/G38A-80CNC	15,950.00

*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.