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 Price List # STC001

**SUPERTEC CENTERLESS GRINDERS**

STC-12	Precision Centerless Grinder (0.04”~2”) .....	\$ 27,500.00
STC-12CII	Single Axis Automatic (Regulating Wheel) Centerless Grinder.....	\$ 36,500.00
STC-20	Precision Centerless Grinder (0.04”~4”) .....	\$ 45,500.00
STC-20CII	Single Axis Automatic (Regulating Wheel) Centerless Grinder.....	\$ 55,500.00

CII models utilize a Mitsubishi PLC menu-driven LCD touch screen control that is easy operate, along with a servo motor for the regulating wheel. Simply fill in the blanks to set total grind amount, rough grind amount, fine grind amount, dwell times, and retracting clearance, then press cycle start to complete the automatic grinding cycle.

**FEATURES**

- Both grinding & regulating wheel spindles are made of NI-CR-MO alloy steel, which is normalized and carbonized hardened and ground for longer life and better accuracy.
- Hydrostatic Babbitt bearings type spindle with a 3-point support design, surrounded by a high pressure oil film, eliminates metal-to-metal contact to provide heavy duty grinding capability as well as high vibration damping performance.
- 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 for longer spindle life.
- The regulating wheel travels on double V ways are hand-scraped and Turcite coated for precise and smooth movement to ensure high accuracy and longer way life.
- Both grinding & regulating wheels equip with hydraulic dressing unit. Dressing speed is infinitely variable. Various profile dressing can be achieved with optional template.
- Hydraulic dressing unit for the regulating wheel can be rapidly and precisely swiveled up to ±3° for grinding taper in infeed grinding and for providing better contact between workpiece and grinding wheel to achieve better surface roughness, roundness, & cylindricity.
- All gears in the gearbox are made of Chrome-Molybdenum alloy steel (SNCM-21), are hardened and precision-ground for smooth running and low noise.
- The hydraulic system is air cooled to maintain constant oil temperature and separated from machine to eliminate vibration and dissipate heat.
- The optional servo driven variable speed regulating wheel helps to achieve optimal surface speed for a better cutting capability and a superior surface finish.

- Optional automatic loading & unloading for infeed & thrufeed can be custom-built to meet your requirements, allowing the machine can run unattended, at a high production rate, while maintaining a tight tolerance.

**STANDARD ACCESSORIES:**

- Grinding wheel with flange
- Regulating wheel with flange
- Wheel balancing arbor
- Levelling bolts with blocks
- Maintenance tools & tool box
- Heat exchanger for hydraulic system
- Coolant system
- Diamond tools
- Standard thrufeed blade
- Standard thrufeed workrest
- Wheel extractor

**SPECIFICATIONS:**

**GRINDING CAPACITY**

Work diameter (with standard workrest):	STC-12 .....	0.04”~1.18”
	STC-20 .....	0.04”~2”
Work diameter (with special workrest):	STC-12 .....	1.18”~2”
	STC-20 .....	2”~4

**GRINDING WHEEL**

Wheel size (Diameter x Width x Bore):	STC-12 .....	12”x 6”x 5”
	STC-20 .....	20”x 8”x 12”
Spindle speed:	STC-12 .....	1900 rpm
	STC-20 .....	1070 rpm
Dressing increment (per graduation):	STC-12/20.....	0.0005”
Dressing increment (per revolution):	STC-12 .....	0.05”
	STC-20 .....	0.0625”

**REGULATING WHEEL**

Wheel size (dia x width x bore):	STC-12 .....	8”x 6”x 3.5”
	STC-20 .....	12”x 8”x 5”
Spindle speeds (10 steps):	STC-12 .....	15~310 rpm
	STC-20 .....	15~308 rpm
Handwheel per graduation:	STC-12/20.....	0.002”
Handwheel per revolution:	STC-12/20.....	0.2”
Swivelling angle:	STC-12/20.....	±5°
Inclining angle:	STC-12/20 .....	±5°
Dressing increment per graduation:	STC-12/20 .....	0.0005”
Dressing increment per revolution:	STC-12 .....	0.05”
	STC-20 .....	0.0625”
Rapid feeding of saddle handwheel per graduation:	STC-12 .....	0.00125”
	STC-20 .....	0.002”

per revolution:	STC-12/20.....	0.25"
Micro feeding of saddle handwheel		
per graduation:	STC-12/20 .....	0.000050"
per revolution:	STC-12 .....	0.01"
	STC-20 .....	0.00625"

**MOTORS**

Grinding wheel motor:	STC-12 .....	10 HP
	STC-20 .....	20 HP
Hydraulic motor:	STC-12 .....	1 HP
	STC-20 .....	2 HP

**MACHINE**

Net weight (Approx.):	STC-12 .....	2640 lbs
	STC-20 .....	6600 lbs
Gross weight (Approx.):	STC-12 .....	3300 lbs
	STC-20 .....	7260 lbs
Packing size (L x W x H):	STC-12 .....	67"x 58"x 61"
	STC-20 .....	89"x 82"x 74"
Floor area (L x W):	STC-12 .....	56"x 53"
	STC-20 .....	78"x 71"

**SPECIAL ACCESSORIES & REPLACEMENT:**

**I. AUTOMATION SYSTEM**

OC1-7003*	Electric eject attachment for STC-12	\$ 1,375.00
OC2-7003*	Electric eject attachment for STC-20	1,375.00
OC1-7004*	Air eject attachment for STC-12	860.00
OC2-7004*	Air eject attachment for STC-20	860.00
OC1-7005*	Hydraulic auto infeed attachment for STC-12	4,125.00
OC2-7005*	Hydraulic auto infeed attachment for STC-20	4,125.00
OC1-7006*	Std. auto vibration feeder (dia. 400mm) for STC-12	4,265.00
OC1-7007*	Automatic loading & unloading attachment for infeed	P.O.R.
OC1-7008*	Automatic loading for thrufeed	P.O.R.
OC1-7009*	Outgoing conveyor & receiver	P.O.R.
OC1-7010	Forming attachment for STC-12	550.00
OC2-7010	Forming attachment for STC-20	660.00

**II. COOLANT SYSTEM**

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

OC1-2002	Coolant system w/mag. sep. & paper filter (20L/min, 80L)	2,200.00
OG3-2002	Coolant system w/mag. sep. & paper filter (60L/min, 140L)	2,475.00
OC1-2003	Coolant system w/magnetic separator (20L/min, 83L)	715.00
OC2-2003	Coolant system w/magnetic separator (40L/min, 172L)	770.00
OG2-2004	Coolant system w/paper filter (20L/min, 80L)	1,420.00
OG3-2004	Coolant system w/paper filter (60L/min, 140L)	1,650.00

**III. WHEEL & FLANGE**

OC1-1002	Grinding wheel (12"x6"x5", 38A) for STC-12	310.00
OC2-1002	Grinding wheel (20"x8"x12", 38A) for STC-20	1,320.00
OC1-1003	Grinding wheel flange for STC-12	485.00
OC2-1003	Grinding wheel flange for STC-20	1,520.00
OC1-1004	Regulating wheel (8"x6"x3.5", A) for STC-12	330.00
OC2-1004	Regulating wheel (12"x8"x5", A) for STC-20	880.00
OC1-1005	Regulating wheel flange for STC-12	330.00
OC2-1005	Regulating wheel flange for STC-20	420.00

**IV. WORKREST & BLADE**

OC1-6001	Thrufeed workrest (0.04" - 1.18") for STC-12	550.00
OC2-6001	Thrufeed workrest (0.04" - 2") for STC-20	965.00
OC1-6002	Special thrufeed workrest (1.18" - 2") for STC-12	715.00
OC2-6002	Special thrufeed workrest (2" - 4") for STC-20	1,600.00
OC1-6003	Infeed workrest (0.04" - 2") for STC-12	440.00
OC2-6003	Infeed workrest (0.04" - 2") for STC-20	530.00
OC2-6004	Special infeed workrest (2" - 4") for STC-20	660.00
OC1-6005	Thrufeed blade (various sizes) for STC-12	(each) 265.00
OC2-6005	Thrufeed blade (various sizes) for STC-20	(each) 400.00
OC1-6006	Infeed blade (various sizes) for STC-12	(each) 265.00
OC2-6006	Infeed blade (various sizes) for STC-20	(each) 310.00

**V. OTHER ACCESSORIES**

OC1-1001	Balancing stand for STC-12 (straight type)	310.00
OC2-1001	Balancing stand for STC-20	530.00
OC1-7001	Input rail & output rail (L: 8"/ea) for STC-12	880.00
OC2-7001	Input rail & output rail (L: 8"/ea) for STC-20	950.00
OC1-7002	Long thrufeed guides (6ft/ea) w/stands for STC-12	3,850.00
OC2-7002	Long thrufeed guides (6ft/ea) w/stands for STC-20	4,125.00
OC1-8001	Servo driven variable speed regulating wheel for STC-12/STC-12CII	9,000.00
OC2-8001	Servo driven variable speed regulating wheel for STC-20/STC-20CII	10,000.00

\*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.