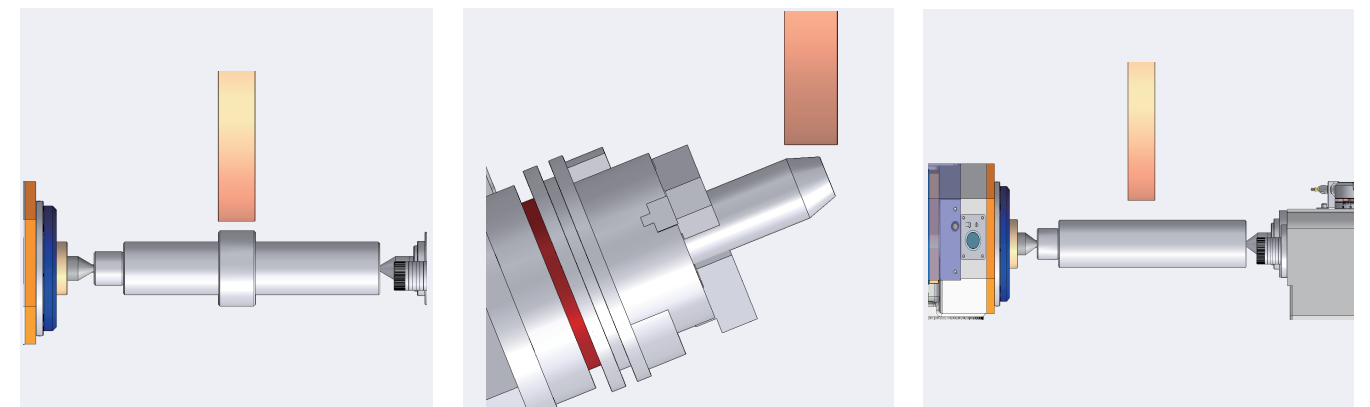


Your Source for Grinding Solutions

CYLINDRICAL GRINDER G25/32/38P-NC Series



Supertec Machinery, Inc.

6435 Alondra Blvd
Paramount, CA 90723

Tel: (562) 220-1675

Email: info@supertecusa.com

Website: supertecusa.com

CYLINDRICAL GRINDER

G25/32/38P-NC Series

The Supertec Cylindrical grinder has been developed for between-center, 5C collet, and chucking applications. Available in automatic infeed (NC models), this series of grinders offers a 10", 12.6" or 15" swing and a choice of 20", 24", 40", 60" or 80" center distance for various grinding applications.

The application is further extended when the optional swing down internal grinding attachment is supplied for internal grinding capability.



Control and Software

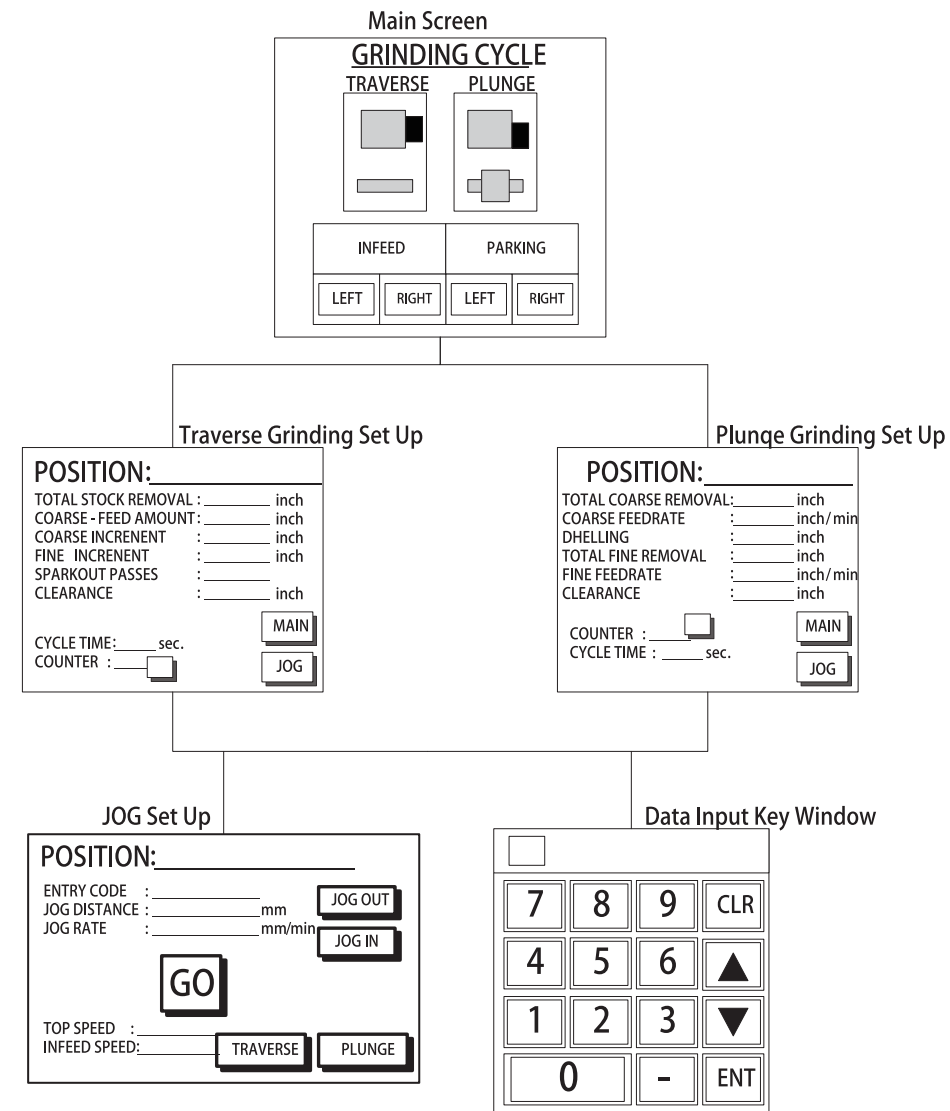
PLC Control uses a menu-driven LCD touch screen technology for simple operation.

The machine is equipped with a PLC control along with a color touch screen and a user-friendly interface.

The operator can simply set up the grinding amount and start a new grinding cycle.

The last grinding cycle setting will be saved automatically and can be easily repeated by simply pressing the "Cycle Start" button.

Internal Grinding Attachment



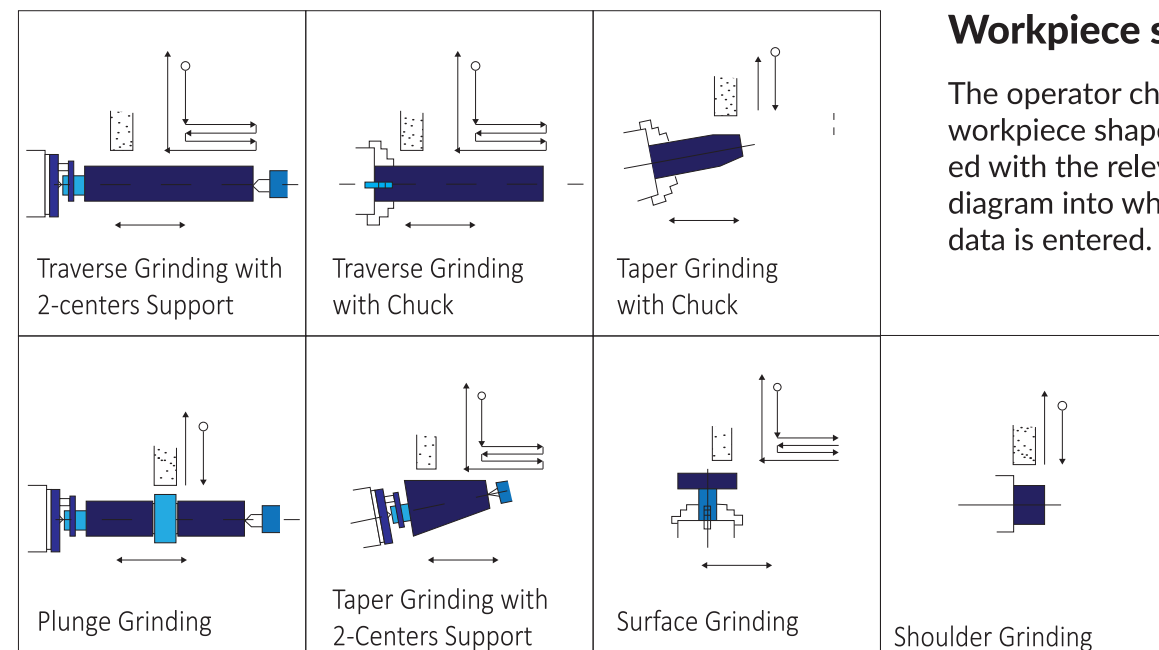
PLC Control Panel

Step 1 : Choose the following functions: Grinding mode selection/Infeed selection/Table parking selection/Jog setting/Next screen.

Step2 : Input data to set total stock removal, total fine grinding amount, rough increment, fine increment, spark-out passes and reset distance, and then press cycle start to complete the automatic grinding cycle.

Workpiece shape selection

The operator chooses a common workpiece shape and is then presented with the relevant workpiece diagram into which the necessary data is entered.



CYLINDRICAL GRINDER

Specifications

	G25P-50NC	G32/G38P-60NC	G32/G38P-100NC	G32/G38P-150NC	G32/G38P-200NC
General Capacity					
Distance between Centers	20"	24"	40"	60"	80"
Swing over table	10.2"	12.6"/15"	12.6"/15"	12.6"/15"	12.6"/15"
Max. grinding diameter	9.8"	11.8"/14"	11.8"/14"	11.8"/14"	11.8"/14"
Max. Load held between centers	176 lbs.	330 Lbs.	330 Lbs.	330 Lbs.	330 Lbs.
Wheelhead					
Swivelling angle (R & L)	±30°	±30°	±30°	±30°	±30°
Infeed travel	5.3"	9.6"	9.6"	9.6"	9.6"
Hand feed travel	3.5"	7.8"	7.8"	7.8"	7.8"
Top slide travel	7"	7"	7"	7"	7"
Automatic rapid travel	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"
Auto increment infeed	0.001"~0.1"	0.001"~0.1"	0.001"~0.1"	0.001"~0.1"	0.001"~0.1"
Handwheel per graduation	0.0002"	Ø0.0002"	Ø0.0002"	Ø0.0002"	Ø0.0002"
Handwheel per revolution	0.1"	0.1"	0.1"	0.1"	0.1"
Grinding Wheel					
Diameter x Width x Bore	14"x1.5"x5"	16"x2"x5"	16"x2"x5"	16"x2"x5"	16"x2"x5"
Wheel Speed	1,750 rpm	1,650 rpm	1,650 rpm	1,650 rpm	1,650 rpm
Table					
Swivelling angle (R & L) degree	±8°	±9°	±7°	±5°	±3°
Traverse speed (infinitely variable)	1-1/5"~275"/ min	1-1/5"~275"/ min	1-1/5"~275"/ min	1-1/5"~275"/ min	1-1/5"~275"/ min
Handwheel per revolution	4"	4"	4"	4"	4"
Workhead					
Swivelling angle (R & L) degree	±45°	90°	90°	90°	90°
Center taper	MT3	MT4 (opt. MT5, 5C)	MT4 (opt. MT5, 5C)	MT4 (opt. MT5, 5C)	MT4 (opt. MT5, 5C)
Spindle speed (infinitely variable)	150/264/356/480 rpm	30~350 rpm	30~350 rpm	30~350 rpm	30~350 rpm
Tailstock					
Center taper	MT3	MT4 (opt. MT5)	MT4 (opt. MT5)	MT4 (opt. MT5)	MT4 (opt. MT5)
Quill Travel	1"	1"	1"	–	–
Internal Grinding					
Available Spindle speed	20,000 rpm	20,000 rpm	20,000 rpm	20,000 rpm	20,000 rpm
Max. grinding bore	1.18"- 3.94" or 0.79"-1.97"	1.18"- 3.94" or 0.79"-1.97"	1.18"- 3.94" or 0.79"-1.97"	1.18"- 3.94" or 0.79"-1.97"	1.18"- 3.94" or 0.79"-1.97"
Max. grindind length	4.33" or 2.17"	4.33" or 2.17"	4.33" or 2.17"	4.33" or 2.17"	4.33" or 2.17"
Max. chucking length	12-2/5"	12-2/5"	12-2/5"	12-2/5"	12-2/5"
Max. chucking diameter	6"	6"	6"	6"	6"
Motor					
Wheel spindle Motor	5 HP	7 1/2 HP	7 1/2 HP	7 1/2 HP	7 1/2 HP
Workhead Motor	1/2 HP	2 HP	2 HP	2 HP	2 HP
Hydraulic pump	2 HP	2 HP	2 HP	2 HP	2 HP
Coolant pump	1/8 HP	1/4 HP	1/4 HP	1/4 HP	1/4 HP
Internal grinding motor	2 HP	2 HP	2 HP	2 HP	2 HP
Machine					
Net weight (approx)	4,510 Lbs.	8,580 Lbs.	10,340 Lbs.	11,660 Lbs.	12,540 Lbs.
Gross weight (approx)	5,610 Lbs.	9,460 Lbs.	11,440 Lbs.	12,760 Lbs.	14,520 Lbs.
Packing dimension (L x W x H)	89"x65"x75"	119"x90"x79"	119"x90"x79"	170"x90"x79"	203"x90"79"