



**SUPERTEC**<sup>®</sup> Since 1954



HYDRAULIC SURFACE GRINDER

**The Finest  
Solution**

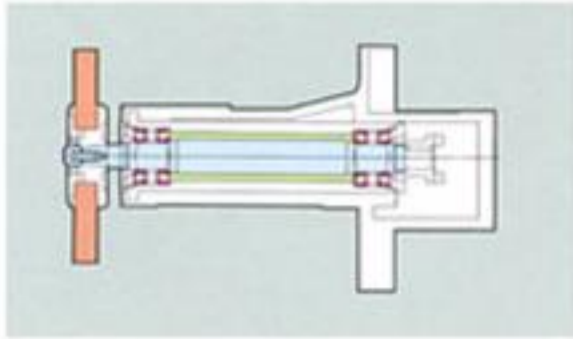
## FEATURES

- **RIGID CONSTRUCTION OF MACHINE :**  
All essential castings are rib reinforced to provide a rigid machine structure for long lasting accuracy and stability.
- **SPINDLE :**  
The precision cartridge spindle equipped with 4 pieces of preloaded class 7 ( p4 ) super precision angular contact ball bearings to ensure high accuracy and superior grinding finish.
- **SLIDEWAYS :**  
All slideways are Turcite-B coated and precisely hand scraped to provide a smooth movement for better accuracy and longer way life.
- **VERTICAL FEED :**  
The rapid wheelhead travels on wide contact hardened and ground guideways and is precisely positioned with a stepping motor to ensure better downfeed repeatability. (ADCII model only)
- **CROSS FEED :**  
Crossfeed mechanism incorporate with a precision leadscrew, AC inverter provides smooth, accurate crossfeed and allows criss-cross grinding for better workpiece finish.
- Hydraulics, coolant systems are separated from machine to eliminate vibration and dissipate heat.
- All moving surfaces and rotating parts are continuously lubricated by an auto-lube system to ensure long service life and maintain maximum accuracy. An alarm light will illuminate if oil pressure drops below pressure.
- 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, spark out passes, feeding direction, parking position, wheelhead retract distance, and press cycle start to complete automatic grinding cycle. (ADCII model only)



Picture shown with optional accessories.

## FEATURES



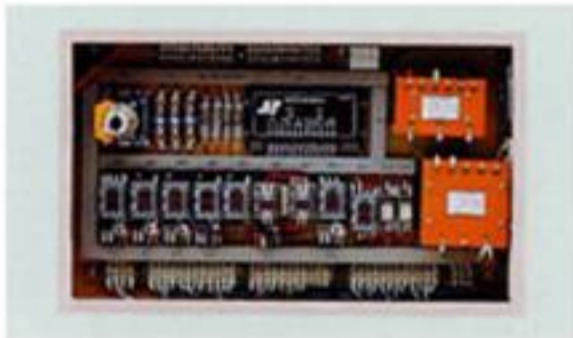
Precision cartridge spindle



Auto downfeed mechanism (AD)



Double V TURCITE slideways



Concise electrical cabinet

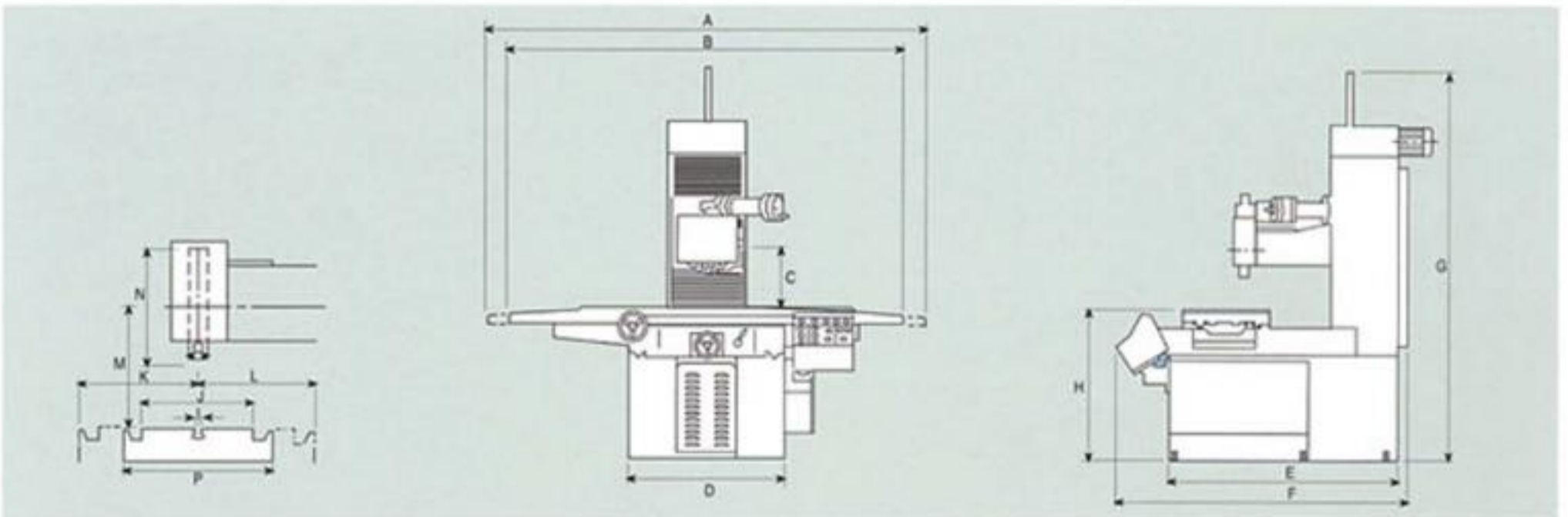


Centralized control panel (ADC II)



Enforced auto lube system

## FLOOR SPACE



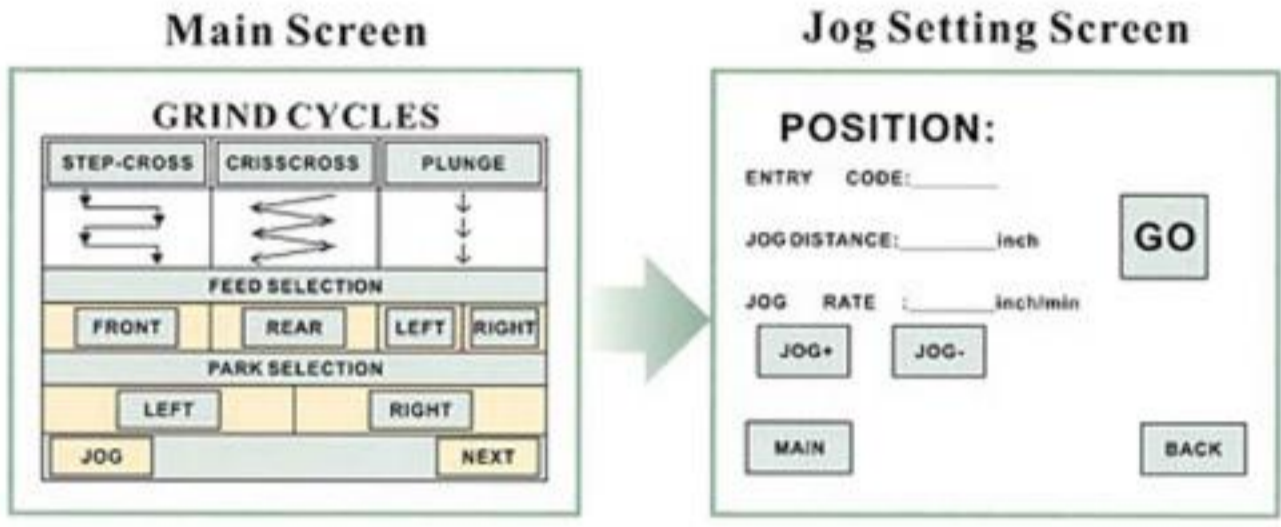
UNIT : mm

MODELS	STP-1022	STP-1428	STP-1834
A	2250	2590	3450
B	1650	1830	2540
C	415	510	465
D	720	770	1010
E	910	1055	1470
F	1370	1795	2255
G	2180	2260	2480
H	1050	960	975
I	14	14	14
J	200	300	400
K	180	255	340
L	165	240	330
M	415	510	465
N	205	305	355
O	22	31	50
P	282	412	550

Mitsubishi PLC control uses a menu-driven LCD touch screen technology for simple operation. (ADCII Model only)

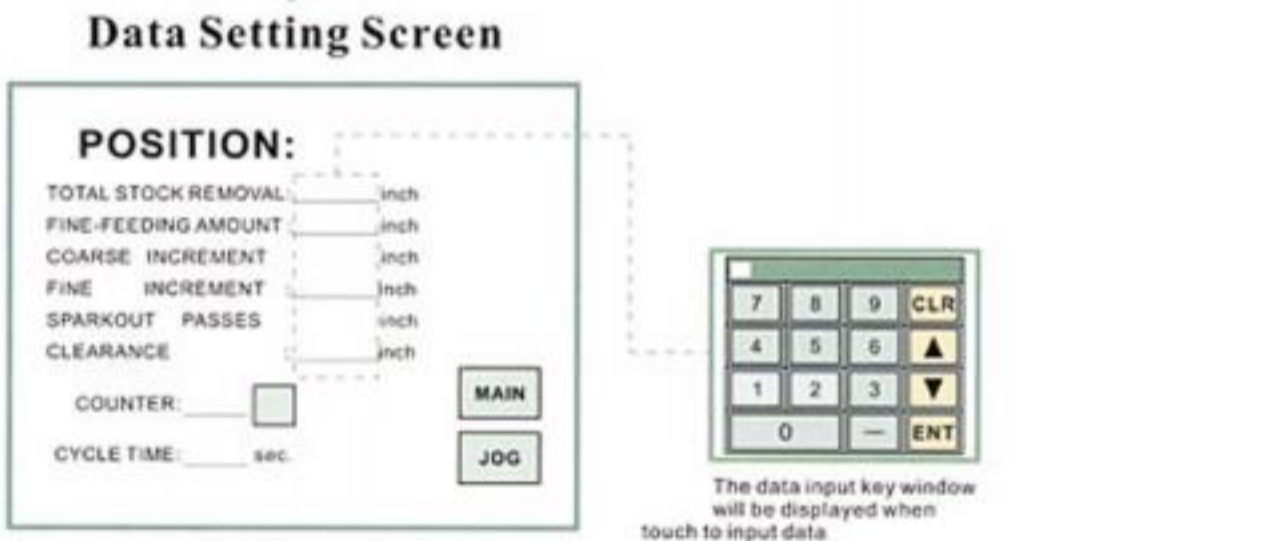
### Step 1

Choose the following functions:  
 Grinding Mode Selection  
 Down Feed Selection  
 Table Parking Selection  
 Jog Setting or Next Screen



### Step 2

Fill in the blanks to set total stock removal, total fine grinding amount, rough increment, fine increment, spark-out passes, & reset height, and press cycle start to complete automatic grinding cycle.



The Finest Solution

### ADCII Grinding Mode

1. Semi-automatic mode



2. Surface mode



3. Plunge mode



4. Crisscross mode



**OPTIONAL ACCESSORIES**



Permanent mag. chuck



Electromagnetic chuck



Inclinable permanent magnetic chuck



Coolant system



Dust collector



Coolant & dust control system



Coolant system with paper filter and magnetic separator



Splash guard



Radius forming attachment



Balancing stand



Manual overhead dressing attachment



Manual demagnetizer



Chuck control with auto demagnetizer



Precision vise



Punch former

**STANDARD ACCESSORIES**



- Grinding wheel with flange
- Wheel extractor
- Balancing arbor
- Diamond dresser
- Hydraulic system
- Auto lube system
- Tool box with adjusting tools
- Levelling screws with blocks
- Operation manual with parts list