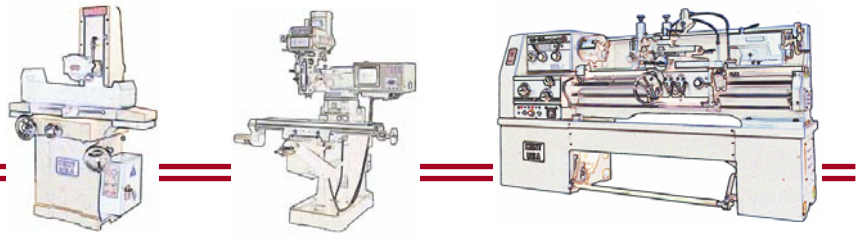
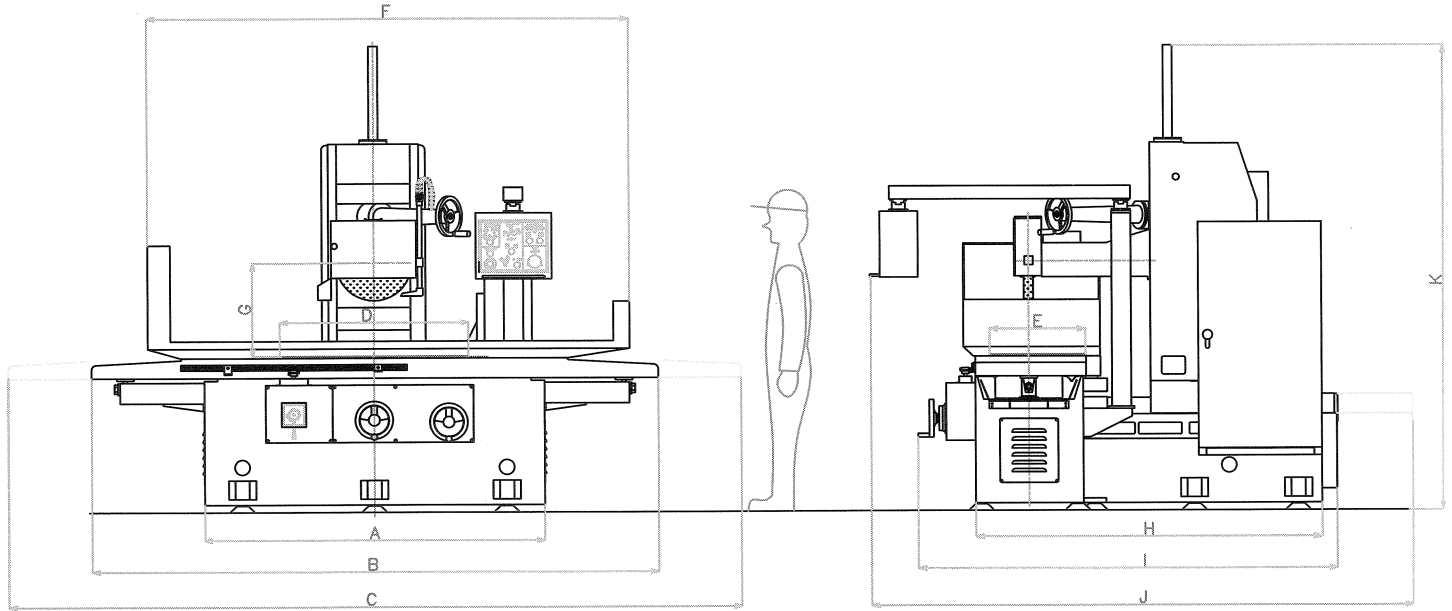
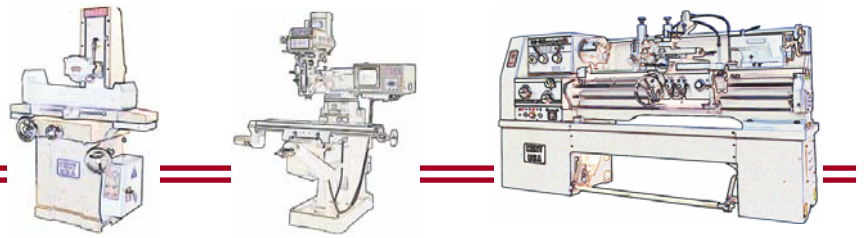


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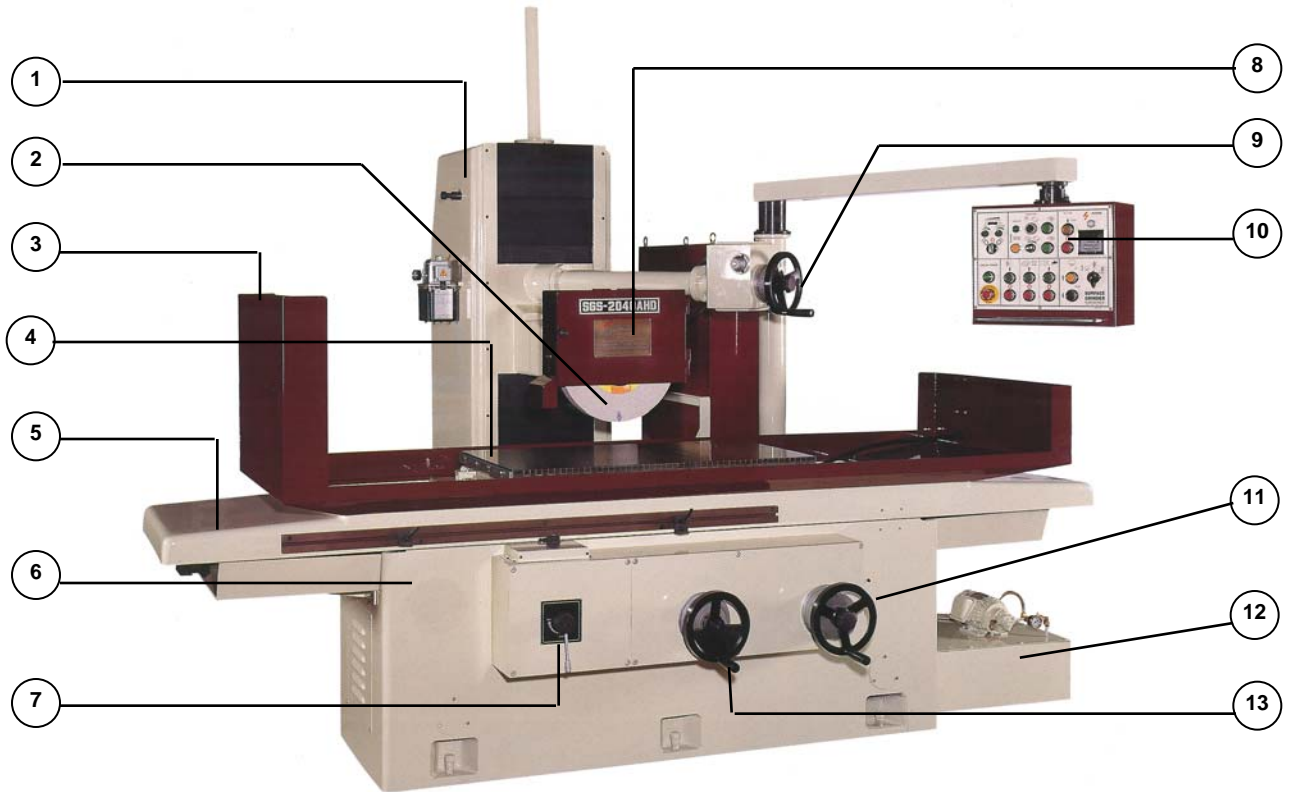
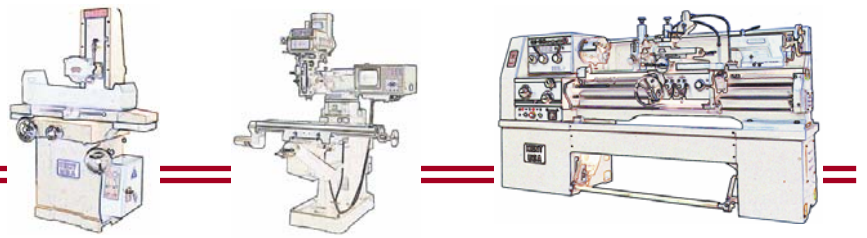
## Precision Surface Grinder





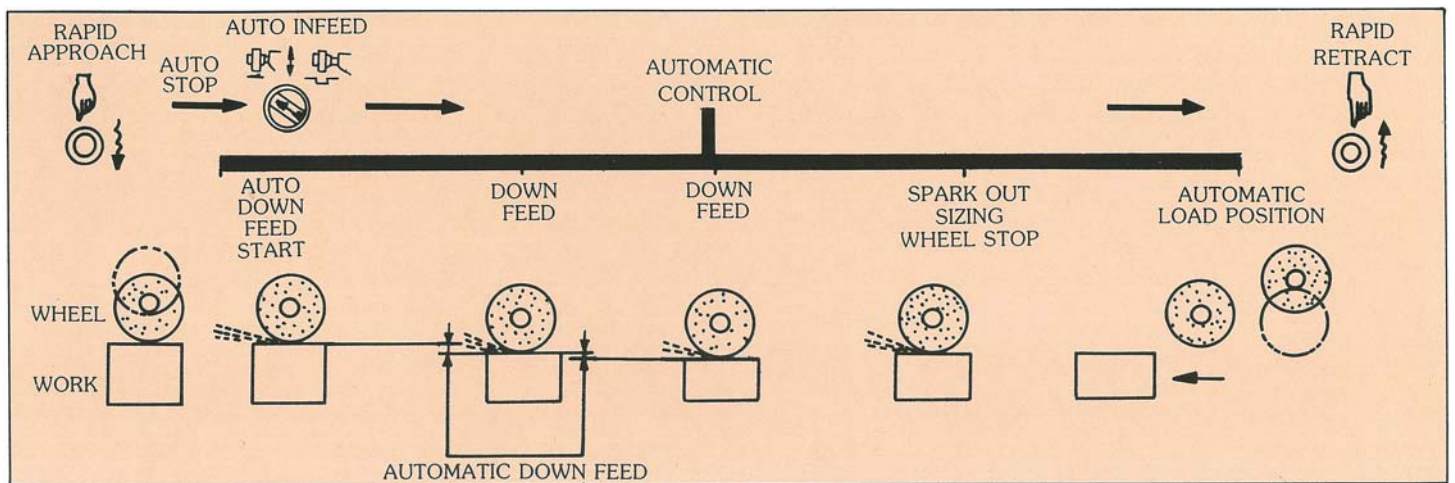
(mm)

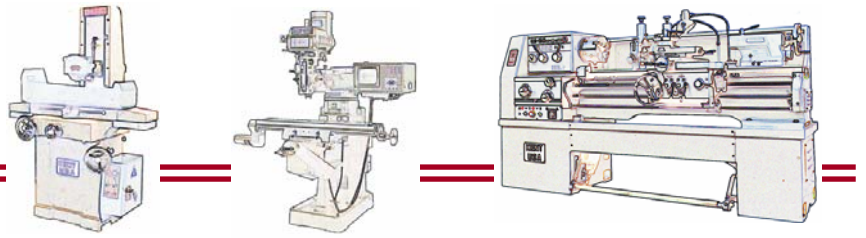
	SGS-2040 AHD/SD	SGS-2060 AHD/SD	SGS-S2460 AHD/SD
<b>A</b>	70.9" (1800)	107.3" (2725)	110.2" (2800)
<b>B</b>	118.1" (3000)	171.3" (4350)	171.3" (4350)
<b>C</b>	163.8" (4160)	236.2" (6000)	244.1" (6200)
<b>D</b>	40" (1016)	60" (1524)	60" (1524)
<b>E</b>	20" (508)	20" (508)	23.9" (608)
<b>F</b>	100.4" (2550)	135.6" (3445)	135.6" (3445)
<b>G</b>	23.6" (600)	23.6" (600)	23.6" (600)
<b>H</b>	72" (1830)	72" (1830)	82.7" (2100)
<b>I</b>	87.4" (2220)	87.4" (2220)	97.6" (2480)
<b>J</b>	109.4" (2780)	109.4" (2780)	119.7" (3040)
<b>K</b>	95.3" (2420)	95.3" (2420)	95.3" (2420)



- |                                     |                             |
|-------------------------------------|-----------------------------|
| 1. Vertical column                  | 8. Wheel cover              |
| 2. Grinding wheel                   | 9. Vertical hand wheel      |
| 3. Splash guard                     | 10. Operation panel         |
| 4. Electro magnetic chuck           | 11. Longitudinal hand wheel |
| 5. Table                            | 12. Lubricant tank          |
| 6. Base                             | 13. Cross hand wheel        |
| 7. Longitudinal speed control lever |                             |

**Grinding Procedure**

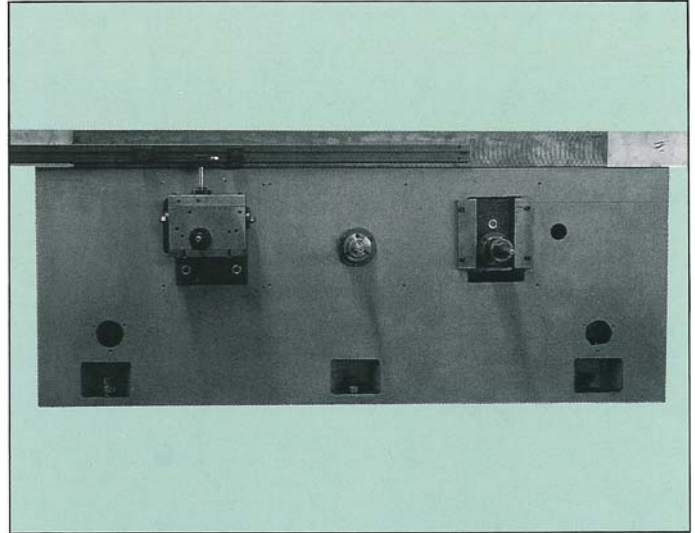




## FEATURES & CONSTRUCTION

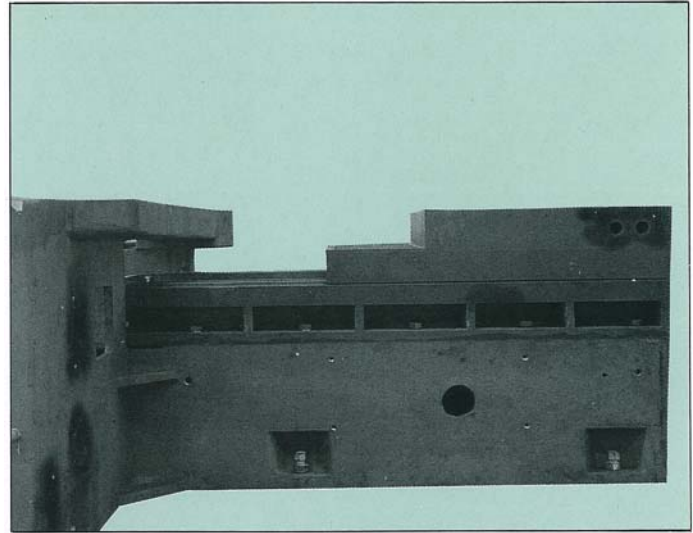
### MACHINE BASE & TABLE

Table ways are "V" and flat design and lined with TURCITE-B for the smoothest movements. The automatic lubrication system insures that all ways are lubricated once the hydraulic system is activated. The boxed and honeycombed Meehanite cast iron base and table also provide the most durable and stable foundation and assures the longevity and accuracy of the machine.



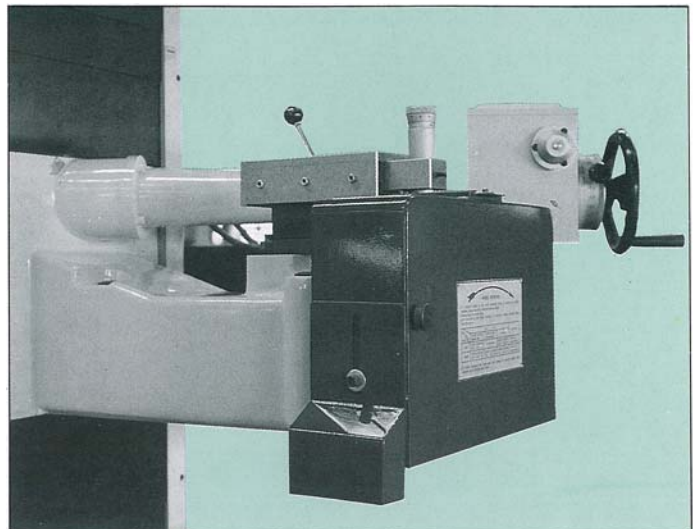
### REAR BASE

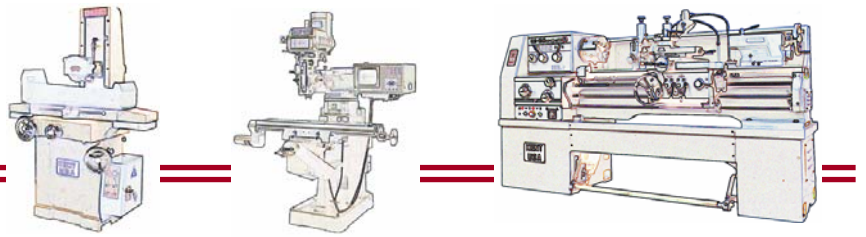
The rear base is also made of stable boxed shape Meehanite casting. The crossfeed ways are coated with TURCITE-B and are of double "V" design to allow for heavier cuts and can hold tolerances better over time.



### GRINDING HEAD

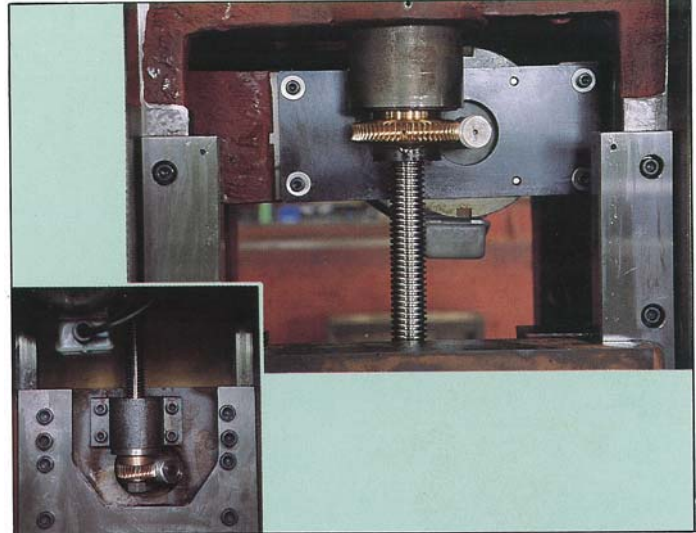
A specially designed, rigidly constructed spindle is supported by two pairs of super precision angular contact ball bearings that are greased lubricated and seal for life of the spindle. This allows for heavy cuts while maintaining top accuracy.





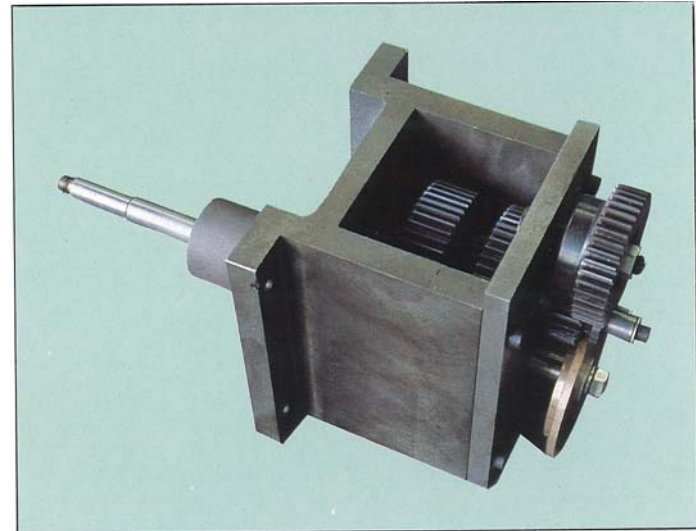
## VERTICAL TRANSMISSION

The Z axis wheel head slides up and down on two vertical box shaped steel ways that are housed inside the vertical column. There are two independent sets of worm gears to control rapid up and down feed and the manual hand feed.



## LONGITUDINAL HAND FEED UNIT

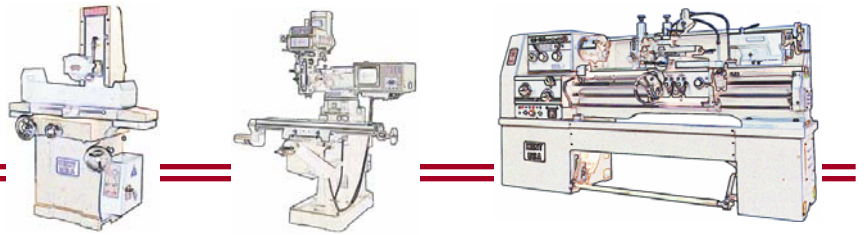
Manual longitudinal feed is activated via a series of gears to allow for light handy positioning of the table. When the hydraulic system is activated, the manual hand feed mechanism will be disengaged automatically.



## LUBRICANT TANK

This main lubricant tank is designed as a forced lubrication system for the table and crossfeed ways. It can be set up either as a recirculating system or a non-recirculating system. The flow rates to individual ways can be adjusted via a needle valve block located on the right side of the base.





## HYDRAULIC TANK

The hydraulic tank is separate from the machine to allow for easy maintenance and proper heat dissipation; the radiator style heat exchanger insures better cooling of the hydraulic oil and thus allows the machine to maintain better accuracy.

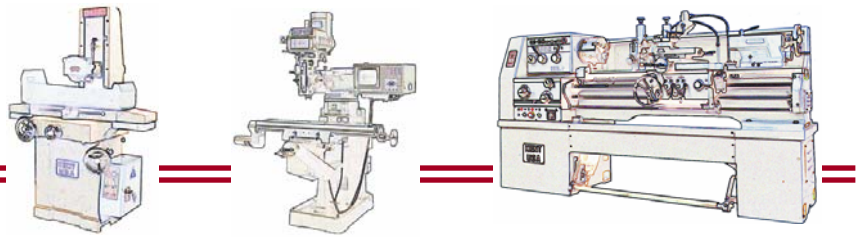


## GEAR BOX OF AUTO DOWN-FEED

Auto downfeed is actuated via a hydraulic cylinder and gear box; this allows for modifying downfeed amount even during automatic cycle and is thus easier to use. Downfeed amount can be varied via the setting dial from 0.0002" to 0.002" in ten steps.

The adjustment for automatic crossfeed setting is located on the control panel and allows for easier and safer setups.





(mm)

Specifications	SGS-2040 AHD	SGS-2060 AHD	SGS-S2460 AHD
Table Surface	20" x 40" (508x1016)	20" x 60" (508 x 1524)	24" x 60" (600 x 1500)
Max. Grinding Surface	20" x 40" (508x1016)	20" x 60" (508 x 1524)	24" x 60" (608 x 1524)
Max. Table Travel	45.7" (1160)	65" (1650)	
Max. Cross Travel	22" (560)		25.6" (650)
Distance between Table Surface and Spindle Center	23 5/8" (600)		
Table Speed	16~80 fpm (5~25 M/min)		
Automatic Crossfeed Carriage Movement	0~1" (0~25)		
Vertical Handwheel (1 grad)	0.0001" (0.002)		
Vertical Handwheel (1 rev)	0.02" (0.5)		
Crossfeed Handwheel (1 grad)	0.001" (0.02)		
Crossfeed Handwheel (1 rev)	0.2" (5)		
Downfeed Micro Dial (1 grad)	0.00025" (0.005)		
Downfeed Micro Dial (1 rev)	0.02" (0.5)		
Longitudinal Travel Adjustable from-to	2~40" (50~1016)	2~60" (50~1524)	
Crossfeed Travel Adjustable from-to	0~20" (0~510)		0~24" (0~610)
Spindle Motor	10HPx4P		
Hydraulic Pump Motor	5HPx6P		
Crossfeed Motor	1/4HPx6P		
Downfeed Motor	1/4HPx4P		
Grinding Wheel (OD x ID x H)	16" x 5" x 2" (406 x 127 x 50)		
Spindle Speed	1750RPM/60Hz		
Flow Rate of Coolant Pump	40L/min		
Max. Load Capacity in Addition to Magnetic Chuck	2200lbs (1000kgs)	2640lbs (1200kgs)	2860lbs (1330kgs)
Net Weight	9900lbs (4500kgs)	11000lbs (5000kgs)	6000lbs (1320kgs)
Gross Weight	11440lbs (5200kgs)	12760lbs (5800kgs)	7000lbs (1540kgs)
Packing Dimensions	148"x88"x88" (3760x2235x2235)	183"x88"x88" (4648x2235x2235)	192.1"x98.4"x86.6" (4800x2500x2200)

Note: We reserve the right to modify the design, specifications, mechanisms, etc, to improve the performances of machine without notice.

STANDARD ACCESSORIES

*grinding wheel and wheel flange  
wheel flange extractor  
wheel balancing stand and arbor  
diamond dresser  
toolbox with standard tools*

Optional ACCESSORIES

*paper filter & magnetic separator coolant unit  
electro magnetic chuck  
over head parallel dresser (manual)  
over head parallel dresser (hydraulic)  
radius forming attachment  
angle forming attachment  
sine bar*

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