

# BIRMINGHAM

## PRECISION 3 AXIS AUTO SURFACE GRINDERS



**WSG-818AHD**  
**WSG-1020AHD**  
**WSG-1225AHD**  
**WSG-1240AHD**  
**WSG-1632AHD**  
**WSG-1640AHD**

### GENERAL FEATURES OF 10•12•16 SERIES:

- **COLUMN:** ENLARGED, DOUBLE WALL, STRONGLY RIBBED COLUMN, ESPECIALLY SUITABLE FOR HEAVY DUTY GRINDING.
- **CONSTRUCTION:** CONSTRUCTION OF TABLE, SADDLE AND BASE IS CASTED WITH HIGH GRADE CASTING IRON, STRONGLY RIBBED.
- **SPINDLE:** ENLARGED SPINDLE SET IS SUPPORTED BY 4 PIECES OF PRELOADED PRECISION ANGULAR CONTACT BALL BEARINGS FOR HEAVY DUTY.
- **SLIDEWAYS:** VERTICAL, CROSS(DOUBLE VEES) AND LONGITUDINAL(ONE VEE & ONE FLAT)SLIDEWAYS ARE COATED WITH TURCITE-B, PROVIDES STABLE MOVEMENT AND DURABLE ACCURACY.
- **AUTOMATIC CONTINUOUS LUBRICATION SYSTEM:** ALL SLIDEWAYS AND SCREWS ARE FULLY OILED BY AUTOMATIC CONTINUOUS LUBRICATION SYSTEM TO ELIMINATE WEARS ON SLIDEWAYS & SCREWS.
- **CROSS FEED:** BALL SCREW FOR CROSS TRAVEL, POWERED BY AC MOTOR.
- **VERTICAL FEED:** POWERED BY SERVO MOTOR.
- **HYDRAULIC TABLE:** TABLE SPEED RANGES 5-25M/MIN. WITH RACK AND PINION TABLE DRIVE FOR HAND OPERATION.
- **PROXIMITY SWITCH:** PROVIDE BUILT-IN-TYPE(HIDDEN)PROXIMITY SWITCH, FEATURES SAFE AND EASY OPERATION.
- **TABLE SPEED CONTROL:** PRESETTABLE HYDRAULIC TABLE SPEED CONTROL ALLOWS OPERATOR TO PRE-SET SPEED RATE, ENABLE TO GET SAME SPEED RATE WHEN ENGAGING HYRAULIC TABLE EVERY TIME.
- **HAND WHEELS:** ZERO-SETTING SLIP-RINGS WITH VERNIER ON VERTICAL HANDWHEEL, AND VERNIER ON CROSSFEED HANDWHEEL.

## SPECIFICATIONS

ITEM/MODEL	WSG-818AHD	WSG-1020AHD	WSG-1225AHD	WSG-1240AHD	WSG-1632AHD	WSG-1640AHD
TABLE SIZE	7.87"X18.11"	9.84"x19.69"	12"x25"	12"x40.16"	16"x32"	16"x40"
MAX.LONGITUDINAL TRAVEL	20.08"	22.05"	30.12"	44.49"	35.83"	44.49"
MAX.CROSS TRAVEL	9.37"	10.83"	13.39"		17.72"	
MAX.DISTANCE FROM SPINDLE CENTER TO TABLE	17.72"		22.84"			
MAGNETIC CHUCK SIZE	7.87"X18.11"	9.84"x19.69"	11.81"X23.62"	11.81"X39.37"	15.75"X31.5"	15.75"X39.37"
SPEED OF TABLE LONGITUDINAL MOVEMENT	275"-905"					
TABLE TRANSVERSE MOVEMENT	AUTO FEED(IN/MIN)		0.004"-0.3"			
	RAPID SPEED(IN/MIN)		39"			
	FEED OF HANDWHEEL(IN/DIV.)		0.0008"			
WHEELHEAD VERTICAL MOVEMENT	AUTO FEED(IN/STROKE)		0.0002"-0.002"			
	RAPID SPEED(IN/MIN)		9.45"			
	FEED OF HANDWHEEL(IN/DIV.)		0.0002"			
GRINDING WHEEL	SPEED (60HZ)		3450 RPM	1750 RPM		
	SIZE(ODxWxD)		7.87"X0.79"X1 1/4"	13.8"X1.6"X5"		
MOTOR OF SPINDLE	2 HP	3 HP	7.5 HP			
MAX.LOADING OF CAPACITY OF TABLE (INCLUDE MAGNETIC CHUCK)	270 LBS	400 LBS	600 LBS	900 LBS	1100 LBS	1300 LBS
HEIGHT OF MACHINE	66"		75"			
FLOOR SPACE (L x W)	81"X56"	91"X63"	115"X87"	175"X87"	142"X95"	175"X95"
GROSS WEIGHT	3530 LBS	3970 LBS	6400 LBS	7280 LBS	7720 LBS	8820 LBS
PACKING DIMENSION (L x W x H)	75"x68"x86"	79"x83"x86"	93"x88"x87"	117"x88"x87"	113"x90"x87"	117"x90"x87"

*Design and specifications are subject to change without notice*

### STANDARD EQUIPMENT:

GRINDING WHEEL  
 GRINDING WHEEL FLANGE  
 WHEEL BALANCE STAND  
 WHEEL BALANCE ARBOR  
 DIAMOND WHEEL DRESSER  
 WHEEL FLANGE EXTRACTOR  
 WORKING LIGHT SYSTEM  
 LUBRICATION SYSTEM  
 COOLANT SYSTEM  
 FULL LENGTH SPLASH GUARD

### OPTIONAL EQUIPMENT:

DRO SYSTEM  
 PARALLEL WHEEL DRESSER  
 FINE POLE ELECTRO MAGNETIC CHUCK  
 COOLANT AND DUST COLLECTION SYSTEM  
 COOLANT SYSTEM WITH PAPER FILTER  
 COOLANT SYSTEM WITH MAGNETIC SEPARATOR  
 COOLANT SYSTEM WITH MAGNETIC SEPARATOR AND PAPER FILTER

### DISTRIBUTOR: