

**L&W
MACHINE**

High Precision Surface Grinders



cyclone G series



Specifications:

G-CS3060AH G-CL3060AH	G-DS3060AH G-DL3060AH	G-D4080AH	50100AHR G-60100AHR 70100AHR	50150AHR G-60150AHR 70150AHR	50200AHR G-60200AHR 70200AHR
300 x 600	300 x 600	400 x 800	500 x 1020 600 x 1020 700 x 1020	500 x 1520 600 x 1520 700 x 1520	500 x 2020 600 x 2020 700 x 2020
340 x 700	340 x 700	450 x 860	560 x 1150 660 x 1150 760 x 1150	560 x 1650 660 x 1650 760 x 1650	560 x 2150 660 x 2150 760 x 2150
300 x 600	300 x 600	400 x 800	500 x 1020 600 x 1020 700 x 1020	500 x 1520 600 x 1520 700 x 1520	500 x 2020 600 x 2020 700 x 2020
500 mm { (Option : 600 mm) }		550 mm	600 mm { Option- 800 mm & 1000 mm }		
5 - 25 M / min					
V & Flat way					
0.1 mm ~ 20 mm					
1100 mm / min (60 Hz)					
900 mm / min (50 Hz)					
5 mm					
0.02 mm					
550 mm / min (60 Hz)		260 mm / min	210 mm / min (60 Hz)		
450 mm / min (50 Hz)		220 mm / min	180 mm / min (50 Hz)		
2 mm	2 mm	2 mm			
0.01 mm	0.005 mm	0.01 mm			
			(x 1) 0.1 mm (0.01") (x5) 0.5mm (x 10) 1 mm		
			(x 1) 0.001 mm (0.01") (x5) 0.5mm (x 10) 1 mm		
0.001 mm ~ 0.999 mm / Time (Option)					
1750 R.P.M. (60Hz) / 1450 R.P.M. (50 Hz)					
S: 180 x 13 x 31.75 mm L: 350 x 38 x 127 mm		406 x 50 x 127 mm	406 x 50 x 127 mm		
2 HP (CS type) / 5 HP (CL type)		5 HP	10 HP / 15 HP (Option)		
1 HP		2 HP	3 HP	5 HP	
1/5 HP					
1/5 HP (Option)			1 KW AC servo motor		
1/8 HP (Option)			1/8 HP		
below 78 dB (A)					
1700 (3740 Lbs)	3250	6000 6300 6600	7200 7500 7800	8400 8700 9000	
1950 (4290 Lbs)	3500	6800 7100 7400	8100 8400 8700	9400 9700 10000	
2600 x 1800 (102" x 68")	3450 x 2000	4600 x 2300 x 2200	5150 x 2300 x 2200	6150 x 2300 x 2200	
228 x 179 x 210	276 x 228 x 215	376 x 228 x 228	391 x 228 x 228	477 x 228 x 228	

* L&W Machine Tools, Inc. reserves the right to alter any mechanical specification without prior notice in the interests of product development.

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OPTIONAL ACCESSORIES:

1. Cross / Vertical Micro Feed
2. Wheel Flange
3. Electro / Permanent Magnetic Chuck
4. Demagnetizer (110 V / 220 V)
5. Angles Forming
6. Radius Forming Attachment
7. Tool Makers Vise
8. Sine Bar
9. Parallel Dresser
10. Coolant System (1 / 8 HP)
11. (Dust) Suction with Coolant System
12. Automatic Paper Strip Filter and Magnetic Separator with Coolant System.
13. (Dust) Suction System (1/2 HP)
14. Magnetic Separator with Coolant
15. Automatic Paper Strip Filter
16. Punch Former
17. Rapid UP / Down System
18. Automatic Down Feed System
19. Automatic Demagnetizer for Magnetic Chuck
20. Automatic Crossing Stroke Adjustment by Control Panel Switch
21. Back Water Splash Shield



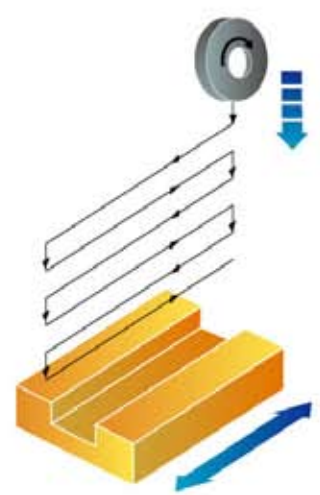
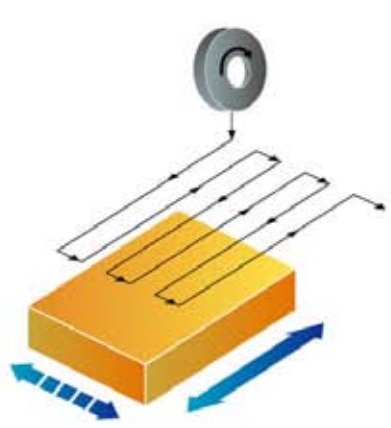
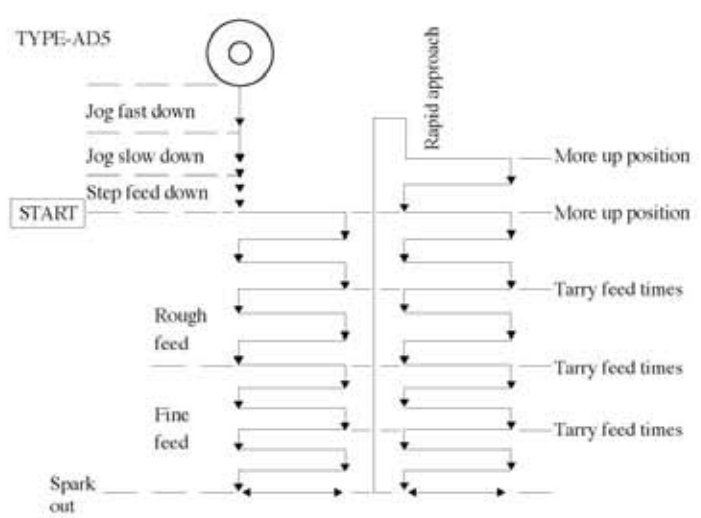
STANDARD ACCESSORIES:

1. Grinding Wheel	1	6. Wheel Dresser with Diamond	1
2. Wheel Flange	1	7. Leveling Screw and Plates	1
3. Flange Extractor	1	8. Tool Box and Tools	1
4. Wheel Balancing arbor	1	9. Working Lamp (G-50.60.70 not included)	1
5. Wheel Balancing base	1	10. Coolant System (G-50.60.70 only)	1

**SURFACE GRINDING
PLUNGE GRINDING**

Surface Grinding

Plunge Grinding



Precision Performance Built into Every Feature:

1. Uses Strong cast iron and excellent structural design which eliminates internal stress and ensure r
2. The "M" series uses "AA" grade steel balls for the guideway to make operation easier and saving
3. The "H" series X and Y slideways are coated with Turcite-B providing stable movement and durab
4. User P4 precision angular contact bearing for the spindle to ensure accuracy within 2μ . Also ac
5. Except for the "M" series, all type can install automatic downfeed (AD5) which adds greater cc
6. Models above the G-50 Series all main casting parts like the column, table, etc. have double-wal
7. Designed and manufactured to meet the needs of high accuracy and fine surface finish.
8. Ruggedly constructed throughout to ensure greater vibration dampening capacity.
9. A wide range of models to choose from: manual, hydraulic and servomotor operated.

G-60150AHR (600 x 1,500 mm.) with AD5 Automatic Downfeed (Optional)



G-DL3060AH (300 x 600 mm.) with AD5 Automatic Downfeed (Optional)



G-2550AH (250 x 500 mm.)



ure rigidity, Stability, and accuracy.

ring labor.

urable accuracy.

o adopts a cartridge design which is completely sealed and lubricated for high durability and accuracy.

r convenience for grinding operations.

-wall construction to ensure rigidity and stability during heavy grinding.

G-D4080AH (400 x 800 mm.)



G-1545H (150 x 450 mm.) with Micro Cross Feed (Optional)



G-CL3060AH (300 x 600 mm.)



COMPUTERIZED AUTOMATIC DOWNFEED (OPTIONAL)



Type AD5 Automatic Downfeed Control Panel (Option)

Specifications:

Model		G-1545M G-2045M	G-1545H/AH G-2045H/AH	G-2550M	G-2550H G-2550AH
Working surface of table	(mm)	150 x 450 (for C1545) 200 x 450 (for C2045)		250 x 500	
Max. table travel	(mm)	185 x 500 (for C1545) 235 x 500 (for C2045)		270 x 550	
Max. surface ground	(mm)	150 x 450 (for C1545) 200 x 450 (for C2045)		250 x 500	
Max.distance center of spindle to table		450 mm		500 mm	
Table speed		Manual	5~25 M / min	Manual	5~25 M / min
Table guideway		Ball rolling way	V & Flat way	Ball rolling way	V & Flat way
Auto. cross feed increment	approx.	Manual	Manual (for H) 0.1 mm x 12 mm	Manual	Manual (for H) 0.1 mm x 12 mm
Rapid power cross feed	(mm / min) approx.	Manual	Manual (for H) 1100(60 Hz) 900(50 Hz)	Manual	Manual (for H) 1100(60 Hz) 900(50 Hz)
Crossfeed	1 rev	5 mm			
on hand wheel	1 gra	0.02 mm			
Rapid power head elevation	60 Hz	550 mm / min (60 Hz)			
approx. (Option)	50 Hz	450 mm / min (50 Hz)			
Vertical feed	1 rev	2 mm			
on hand wheel	1 gra	0.01 mm (0.0002") (standard) / 0.005 mm (0.0001") (with AD5)			
Vertical feed with M.P.G.	1 rev 1 gra				
Auto. down feed	(Option)	0.001 mm ~ 0.999 mm / Time (0.0001" ~ 0.0999" / Time)			
Wheel speed	60 Hz / 50 Hz	3500 R.P.M (60 Hz) / 2900 R.P.M (50 Hz)			
Wheel dimension		180 x 13 x 31.75 mm (max. 200 x 20 x 31.75) (7" x 0.5" x 1.25") (max. 8" x 0.75" x 1.25")			
Spindle motor		2 HP			
Hydraulic pump motor		None	1 HP	None	1 HP
Auto. cross feed motor		None	25 W	None	1/5 HP
Rapid head elevation motor		1/5 HP (Optional)			
Coolant pump		1/8 HP (Optional)			
Sound pressure level		below 78 dB (A)			
Machine net weight	kgs	870 920	950 1150	1200	1350
Packing gross weight	kgs	970 1020	900 1100	1400	1550
Machine floor space	mm	1600 x 1100	2080 x 1200	2250 x 1450	2450 x 1450
Packing dimensions (L x W x H)	cm	182 x 128 x 195	212 x 146 x 195	212 x 146 x 200	212 x 146 x 200

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M Series : 3 axes are manual.

H Series : longitudinal (hydraulic) and cross feed / vertical axes are manual.

AH Series : auto. cross feed, longitudinal (hydraulic) and vertical axis are manual.

AHR Series : auto. cross feed, longitudinal (hydraulic) and vertical axis travel are with AC servomotor.

* Above the 50100AHR Series are equipped with auto. cross feed, longitudinal (hydraulic), vertical axis driven by AC servomotor and operated by MPG. The AD5, can be added to become 3-axes fully automated thereby making operation more convenient.

G-D4080AH →

1. Table longitudinal travel by sensor & solenoid valve.
2. Continuous lubrication is a standard accessory.

G-DL3060AH →

G-DS3060AH →

1. Table longitudinal travel by sensor & solenoid valve.
2. Continuous lubrication is a standard accessory.
3. Auto crossing stroke adjustment.
4. Back water splash shield.