



CNC Centerless cylindrical grinding

CLG CNC

with Fanuc controller



- Equipped with a modern Fanuc Oi-Mate TD controller
- Digital drive package from Fanuc (drives, axis servos)
- Drive concept with up to 6 CNC axes (X/Y/Z/A/B/C axes)
- Easy size adjustment. Easy to learn and understand.
- PLC/controlled oil temperature monitoring
- Feed accurately programmable by servo drives
- Variable speed for the regulating wheel

Optional configuration

- Coolant system with paper filter and magnetic separator
- Ejector for plunge grinding
- Balancing stand
- Guide unit for rod through feed grinding
- Automatic feed device
- Automatic grinding wheel balancing system
- Automatic loading and unloading
- Grinding wheels, various sizes and grit
- Automation for in-feed grinding

Standard configuration

- Top-performance and easy to learn CNC control
- High-quality mono-block machine casting
- Grinding wheel (Balanced and mounted)
- Regulating wheel (Balanced and mounted)
- Grinding spindle with hydrodynamic support
- Flow control for grinding wheel lubrication
- Automatic lubrication
- Linear dressing movement for grinding and regulating wheel
- Work piece support stand with carbide area for through feed grinding
- Diamond dresser
- Coolant system
- Work piece support stand with carbide blade for plunge grinding
- Separate hydraulic unit with oil/air cooling
- Work light
- Tool kit
- Operation manual



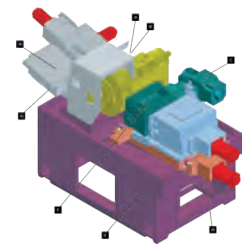
		CLG CNC								
Specifications		40150	60205	60205L	60255	60305	100205	100255	100305	
		1.5"	2.3"	2.3"	2.3"	2.3"	3.9"	3.9"	3.9"	
GRINDING WHEEL										
Grinding capacity	mm	Ø1-40 (0.03-1.5")		Ø1-60 (0.03-2.3")			Ø1-100 (0.03-3.9")			
Capacity increases with special fixtures	mm	Ø30-60 (1-2.3")		Ø40-150 (1.5-5.9")			-			
Dimensions	mm	Ø305x150 xØ120 (12x6x4.7")	Ø455x205 xØ228.6 (17x8x9")	Ø510x205 xØ304.8 (20x8x12")	Ø455x255 xØ228.6 (17x10x9")	Ø455x305 xØ228.6 (17x12x9")	Ø610x205 xØ304.8 (24x8x12")	Ø610x255 xØ304.8 (24x10x12")	Ø610x305 xØ355.6 (24x12x14")	
Speed	rpm	1900	1500	1200	1500		1250			
Motor	kW	5.5 (7.4 Hp) x4P	11 (15 Hp) x4P	15 (20 Hp) x4P	11 (15 Hp) x4P	15 (20 Hp) x4P	18.8 (25 Hp) x4P			
REGULATING WHEEL										
Dimensions	mm	Ø205x150 xØ90 (8x5.9x3.5")	Ø255x205 xØ111.2 (10x8x4.3")	Ø305x205 xØ127 (12x8x5")	Ø255x255 xØ111.2 (10x10x4.3")	Ø255x305 xØ111.2 (10x12x4.3")	Ø330x205 xØ127 (12x8x5")	Ø330x225 xØ127 (12x10x5")	Ø330x205 xØ127 (12x8x5")	
Speeds	rpm	10-300 (variable)								
Motor (servomotor)	kW	1.5 (2 Hp)	3.5 (5 Hp)			5 (6 Hp)				
Tilt angle	deg	+5° - -3°								
Swivel angle	deg	±5°								
DRIVE MOTOR										
Hydraulic pump motor	kW	0.75 (1 Hp) x4P								
DIMENSIONS										
Weight	kg	1700 (3,740 lbs)	2900 (6,380 lbs)	3700 (8,140 lbs)	3000 (6,600 lbs)	3400 (7,480 lbs)	4500 (9,900 lbs)	4600 (10,120 lbs)	5000 (11,000 lbs)	
Item No.		3100130	3100131	3100132	3100133	3100134	3100135	3100136	3100137	

*The above specifications are subject to change without prior notice. No liability for printing mistakes. Machine may be shown with optional equipment.



NC Centerless Cylindrical Grinding

CLG NC



- Equipped with SIEMENS-S7 controller for grooving and feed movement
- The guideways are hardened and ground
- Grinding and control spindle are hardened and have friction bearings
- Frequency-controlled regulating wheel drive by OS motor
- Hydraulically driven dressing devices for grinding and regulating wheel

A	Air/oil cooling device
B	Pressure sensor
C	Regulating wheel AC servo motor
D	Slide table
E	Coolant tank
F	Dressing unit for regulating wheel
G	Lubrication oil recycle
H	Dressing unit for grinding wheel

Standard configuration

- Top-performance and easy to learn NC control with touch-screen
- High-quality mono-block machine casting
- Grinding wheel (Balanced and mounted)
- Regulating wheel (Balanced and mounted)
- Grinding spindle with hydrodynamic support
- Flow control for grinding wheel lubrication
- Automatic lubrication
- Linear dressing movement for grinding and regulating wheel
- Work piece support stand with carbide area for through feed grinding
- Diamond dresser
- Coolant system
- Work piece support stand with carbide blade for plunge grinding
- Separate hydraulic unit with oil/air cooling
- Work light
- Tool kit
- Operation manual

Optional configuration

- Coolant system with paper filter and magnetic separator
- Ejector for plunge grinding
- Balancing stand
- Guide unit for rod through feed grinding
- Automatic feed device
- Automatic grinding wheel balancing system
- Automatic loading and unloading
- Grinding wheels, various sizes and grit
- Automation for in-feed grinding

Specifications		40150	80205	80205L	80255	80305
		1.5"	3.1"	3.1"	3.1"	3.1"
GRINDING WHEEL						
Grinding capacity	mm	Ø1-40 (0.03-1.5")		Ø1-80 (0.03-3.1")		
Capacity increases with special fixtures	mm	Ø30-60 (1.1-2.3")		Ø40-150 (1.5-5.9")		
Dimensions	mm	Ø305x150xØ120 (12x5.9x4.7")	Ø455x205xØ228.6 (17x8x9")	Ø510x205xØ304.8 (20x8x12")	Ø455x255xØ228.6 (17x10x9")	Ø455x305xØ228.6 (17x12x9")
Speed	rpm	1900	1260	1200	1260	
Motor	kW	5 (6 Hp)	11 (14 Hp)	15 (20 Hp)	11 (14 Hp)	15 (20 Hp)
REGULATING WHEEL						
Dimensions	mm	Ø205x150xØ90 (8x5.9x3.5")	Ø255x205xØ111.2 (10x8x4.3")	Ø305x205xØ127 (12x8x5")	Ø255x255xØ111.2 (10x10x4.3")	Ø255x305xØ111.2 (10x12x4.3")
Speed	rpm	10-300 (variable)				
Motor (servomotor)	kW	1.5 (2.0 Hp)	3 (4 Hp)	5 (6 Hp)	3 (4 Hp)	3.5 (4.6 Hp)
Adj. range of regulating wheel	deg	+5° - -3°				
Swivel range	deg	±5°				
HANDWHEEL GRADUATION						
Upper side feed graduation (mm/rev, mm/splitting)	mm	4, 0.025 (0.1"/rev, 0.0009"/splitting)	3.5, 0.05 (0.1"/rev, 0.001"/splitting)			
Upper side micro-feed graduation	mm	0.1, 0.001 (0.003"/rev 0.00003"/splitting)				
Lower side graduation	mm	7, 0.05 (0.2"/U 0.001"/splitting)	9, 0.05 (0.3"/U 0.001"/splitting)			
Trimming device graduation	mm	1.25, 0.01 (4.9"/U 0.003"/splitting)	2, 0.01 (0.07"/U 0.003"/splitting)			
DRIVE MOTOR						
Hydraulic pump motor	kW	0.75 (1 Hp)				
DIMENSIONS						
Dimensions (L/W/H)	mm	1750x1050x1400 (68x41x55")	2200x1840x1530 (86x72x60")	2350x1900x1530 (92x74x60")	2200x1840x1530 (86x72x60")	2350x1950x1530 (92x76x60")
Weight	kg	1700 (3,740 lbs)	3000 (6,600 lbs)	3600 (7,920 lbs)	3000 (6,600 lbs)	3500 (7,700 lbs)
Item No.		3100138	3100139	3100140	3100141	3100142

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Centerless Cylindrical Grinding CLG



- A heavy Meehanite cast frame, heat treated and relaxed, provides a solid foundation for the CLG centerless cylindrical grinder
- All guideways are hardened and precision ground to ensure consistent accuracy and wear resistance
- The grinding and regulating spindle is made of high quality steel SNCM-220 after deep hardening (HRC62) and grinding process particularly suited for years of tough production conditions
- The spindles are made of SNCM-4 material and provide specially designed spindle feed rate accuracies of the highest quality
- A wide range of options are available for your special application needs upon request



Standard configuration

- Grinding wheel stand with Carbide blade for plunge grinding
- Regulating wheel
- Work piece support stand with Carbide area for through feed grinding
- Diamond dresser
- Coolant system
- Work piece support
- Separate hydraulic unit with oil/air cooling
- Work light
- Tool kit
- Operation manual

Optional configuration

- CNC or NC control with touch-screen display
- Coolant system with paper filter and magnetic separator
- Ejector for plunge grinding
- Balancing stand
- Guide unit for rod
- through feed grinding
- Automatic feed device
- Automatic grinding wheel balancing system, various sizes and grit
- Automatic loading and unloading

Specifications	CLG 40			CLG 50			CLG 80			
		1.6"		2"		3"				
Grinding capacity	mm	Ø1-40 [opt. Ø30-60] (0.04-1.6" [opt. 1.2-2.4"])		Ø1-50 [opt. Ø40-100] (0.04-2" [opt. 1.6-3.9"])		Ø1-80 [opt. Ø40-150] (0.04-3" [opt. 1.6-6"])				
Grinding wheel dimensions	mm	Ø305x150xØ120 (12x6x5")		Ø405x205xØ203 (16x8x8")		Ø455x205xØ228 (18x8x9")				
Regulating wheel dimensions	mm	Ø205x150xØ90 (8x6x3.5")		Ø255x205xØ111 (10x8x4.4")		Ø255x205xØ111 (10x8x4.4")				
Grinding spindle speed	rpm	1900		1600		1260				
Regulating wheel speed	rpm	2-337 (10 steps)		13-308 (10 steps)		13-308 (10 steps)				
Drive power grinding/regulating wheel	kW	5.5/0.75 (7.5/1 Hp)		7.5/1.5 (10/2 Hp)		11/1.5 (15/2 Hp)				
Swivel range	deg	+5° - -3°		+5° - -3°		+5° - -3°				
Adj. range of regulating wheel	deg	+/-5°		+/-5°		+/-5°				
Dimensions (L/W/H)	mm	1750x1050x1400 (69x41x55")		2100x1700x1500 (83x67x59")		2200x1840x1530 (87x72x60")				
Weight	kg	1650 (3,630 lbs)		2400 (5,280 lbs)		2900 (6,380 lbs)				
Item No.		3100036		3100037		3100038				

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