

TONGIL INDUSTRIES CO.,LTD.

GRINDER DIVISION

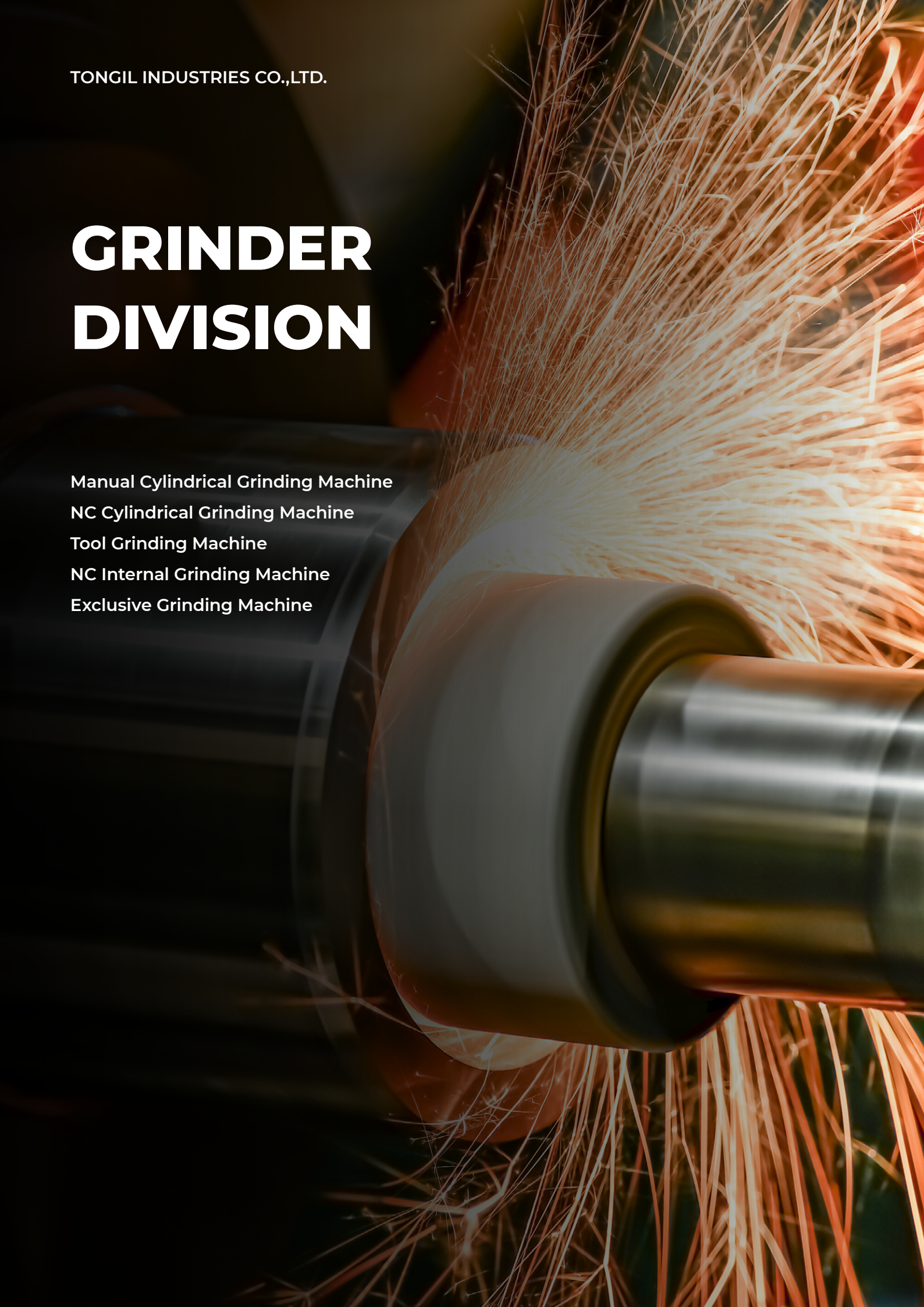
Manual Cylindrical Grinding Machine

NC Cylindrical Grinding Machine

Tool Grinding Machine

NC Internal Grinding Machine

Exclusive Grinding Machine



TNIG-150

CNC Internal grinding machine

High-Productivity CNC Grinder for Internal Diameter



Item	Sect	Unit	TNIG-150
Capacity	Grinding Diameter	mm	2 SPINDLE Ø6~100
		mm	1 SPINDLE Ø6~150
	Max. Grinding Stroke	mm	2 SPINDLE 80
		mm	1 SPINDLE 125
	Swing Over Table	mm	Ø600
Wheel head	Max. Feed Distance	mm	300
	Gear Shifting Speed	m/min	0.00002~5
	Rapid Feed Speed	m/min	5~10
	Min.Control Unit	mm	0.001
	Lubrication Method	-	Oil mist / Oil cooling
		-	-
Work head	Option Spindle	rpm	10,000, 30,000
		rpm	60,000, 75,000
	Main Spindle Rotation Speed	rpm	100~850
Table	Swivel Angle	deg	Manual (-5 ~ +25°)
	Max.Feed Travel	mm	500
	Table Speed	m/min	0.00002~10
	Min.Setting Unit	mm	Ø0.001
	Rapid Feed Speed	m/min	10
	MPG	mm	0.2, 0.002
		mm	0.001
Motor	Wheel spindle	kw, p	5.5kw-2p~15kw-4p
		-	Frequency Inverter Control
	Work Head	kw, p	1.5/4
	X-Axis	kw	1.6(Fanuc)/AC Servo
	Z-Axis	kw	2.9(Fanuc)/AC Servo

GUN-35

CNC cylindrical grinding machine

CNC Cylindrical Grinder for Productivity, Operability, and Cost Effectiveness



* FULL COVER OPTION

Item	Sect	Unit	GUN-35	
			600	1200
Capacity	Swing Over Table	mm	Ø350	
	Distance Between Center	mm	600	1200
	Max. Grinding Diameter	mm	Ø300	
	Max. Center Support Weight	kg	130	
	Max. Grinding Stroke	mm	80	
Wheel spindle	Grinding Wheel Size (O.D X W X L.D)	mm	Ø355×32×Ø152.4 (Ø405×50×Ø152.4)	
	Speed	rpm	1675, 2000	
Wheel head (X-axis)	Total Travel	mm	270	
	Rapid Feed Travel	m/min	5	
Table (Z-axis)	Total Distance	mm	740	1350
	Rapid Feed Speed	m/min	7	
Work head	Center Taper	MT	NO 4	
	Speed	rpm	NC Control(max.400)	
Tail stock	Center Taper	MT	NO 4	
	Spindle Stroke	mm	50	
Motor	Wheel Spindle	kw-p	3.7-4(5.5-4)	
	Work Head	kw	1.3(1.6)	
	Wheel Head(Xaxis)	kw	1.3(1.6)	
	Table(Zaxis)	kw	1.3(1.6)	1.3(3)
	Hydraulic Pump	kw-p	0.75-4	
	Wheel Spindle Lubrication Pump	kw-p	0.2-4	
	Coolant Pump	kw-p	0.18-2	
Tank capacity	Hydraulic	ℓ	40	
	Wheel Spindle Lubrication Pump	ℓ	18	
	Coolant	ℓ	120	
Othres	NC Device	-	SENTROL(FANUC)	
	Center Height	mm	1100	
	Floor Area	mm	3950×3000	5500×3000
	Machine Weight	kg	3700	4200

GUN-41

CNC cylindrical grinding machine

CNC Cylindrical Grinder for Productivity, Operability, and Cost Effectiveness



Item	Sect	Unit	GUN-41(55)	
			1800	2200
Capacity	Swing Over Table	mm	Ø410(Ø550)	
	Distance Between Center	mm	1800	2200
	Max. Grinding Diameter	mm	Ø400	
	Max. Center Support Weight	kg	500	
Wheel spindle	Grinding Wheel Size (O.D X W X L.D)	mm	Ø455×50×Ø152.4 (Ø510×50×Ø152.4)	
	Speed	rpm	1570, 1790	
Wheel head (X-axis)	Total Travel	mm	285	
	Rapid Feed Travel	m/min	10	
Table (Z-axis)	Total Distance	mm	1900	2300
	Rapid Feed Speed	m/min	10	
Work head	Center Taper	MT	NO 5	
	Speed	rpm	NC Control(max.250)	
Tail stock	Center Taper	MT	NO 5	
	Spindle Stroke	mm	50	
Motor	Wheel Spindle	kw-p	7.5-4	
	Work Head	kw	(4)	
	Wheel Head(Xaxis)	kw	(4)	
	Table(Zaxis)	kw	(7)	
	Hydraulic Pump	kw-p	1.5-4	
	Wheel Spindle Lubrication Pump	kw-p	0.2-4	
	Coolant Pump	kw-p	0.4-2	
Tank capacity	Hydraulic	ℓ	40	
	Wheel Spindle Lubrication Pump	ℓ	18	
	Coolant	ℓ	200	
Othres	NC Device	-	FANUC	
	Center Height	mm	1147	
	Floor Area	mm	6000×2650	
	Machine Weight	kg	6000	

GUN-65

CNC cylindrical grinding machine

CNC Large Cylindrical Grinder for High Value-Added Machining Based on High-Precision, High-Efficiency Grinding of Large Components



Item	Sect	Unit	GUN-65(55)	
			2500	3000
Capacity	Swing Over Table	mm	Ø550(Ø650)	
	Distance Between Center	mm	2500	3000
	Max. Grinding Diameter	mm	Ø500	Ø600
	Max. Center Support Weight	kg	1000	
Wheel spindle	Grinding Wheel Size (O.D X W X L.D)	mm	Ø610×100×Ø254 (Ø660×100×Ø304.8)	
	Speed	rpm	1043, 965	
Wheel head (X-axis)	Total Travel	mm	440	
	Rapid Feed Travel	m/min	5	
Table (Z-axis)	Total Distance	mm	2600	3100
	Rapid Feed Speed	m/min	10	
Work head	Center Taper	MT	NO 6	
	Speed	rpm	NC Control(max.250)	
Tail stock	Center Taper	MT	NO 6	
	Spindle Stroke	mm	80(100)	
Motor	Wheel Spindle	kw-p	15-4	
	Work Head	kw	(6)	
	Wheel Head(Xaxis)	kw	(6)	
	Table(Zaxis)	kw	(9)	
	Hydraulic Pump	kw-p	3.7-4	
	Wheel Spindle Lubrication Pump	kw-p	2.2-4	
	Coolant Pump	kw-p	0.4-2	
Tank capacity	Hydraulic	ℓ	200	
	Wheel Spindle Lubrication Pump	ℓ	40	
	Coolant	ℓ	400	
Othres	NC Device	-	FANUC	
	Center Height	mm	1100	1150
	Floor Area	mm	10000×40000	
	Machine Weight	kg	12,000	13,000

GAN-20

CNC Angular slide cylindrical grinding machine

Next-Generation Grinder for High Productivity/
Quality/Precision! Simultaneous Multi-Step Grinding,
Process Shortening, and Simultaneous Grinding of
Complex Shapes



Item	Sect	Unit	GAN-20 (GPN-20)
Capacity	Swing Over Table	mm	Ø200
	Distance Between Center	mm	250
	Max. Grinding Diameter	mm	195
	Max. Center Support Weight	kg	20
Wheel spindle	Grinding Wheel Size (O.D X W X L.D)	mm	Ø455×50×Ø152.4
	Speed	rpm	Max. 1,900
Wheel head (X-axis)	Total Travel	mm	240
	Rapid Feed Travel	m/min	5
Table (Z-axis)	Total Distance	mm	350
	Rapid Feed Speed	m/min	10
Work head	Center Taper	MT	NO 3
	Speed	rpm	NC Control(max.650)
Tail stock	Center Taper	MT	NO 3
	Spindle Stroke	mm	20
Motor	Wheel Spindle	kw-p	3.7-4(5.5-4)
	Work Head	kw	1.4
	Wheel Head(Xaxis)	kw	1.6
	Table(Zaxis)	kw	3
	Hydraulic Pump	kw-p	0.75-4
	Wheel Spindle Lubrication Pump	kw-p	0.2-4
	Coolant Pump	kw-p	0.18-2
Tank capacity	Hydraulic	ℓ	20
	Wheel Spindle Lubrication Pump	ℓ	18
	Coolant	ℓ	80
Othres	NC Device	-	FANUC
	Center Height	mm	1,000
	Floor Area	mm	2,500×2,800
	Machine Weight	kg	3,500

GAN-30

CNC Angular slide cylindrical grinding machine

Next-Generation Grinder for High Productivity/
Quality/Precision! Simultaneous Multi-Step Grinding,
Process Shortening, and Simultaneous Grinding of
Complex Shapes



Item	Sect	Unit	GAN-30(GPN-30)
Capacity	Swing Over Table	mm	Ø350
	Distance Between Center	mm	400
	Max. Grinding Diameter	mm	Ø300
	Max. Center Support Weight	kg	130
Wheel spindle	Grinding Wheel Size (O.D X W X L.D)	mm	Ø510×50×Ø152.4 (Ø405×50×Ø152.4)
	Speed	rpm	1675
Wheel head (X-axis)	Total Travel	mm	275
	Rapid Feed Travel	m/min	5
Table (Z-axis)	Total Distance	mm	600
	Rapid Feed Speed	m/min	10
Work head	Center Taper	MT	NO 4
	Speed	rpm	NC Control(max.400)
Tail stock	Center Taper	MT	NO 4
	Spindle Stroke	mm	50
Motor	Wheel Spindle	kw-p	5.5-4
	Work Head	kw	1.3(1.6)
	Wheel Head(Xaxis)	kw	1.3(1.6)
	Table(Zaxis)	kw	1.3(3.0)
	Hydraulic Pump	kw-p	0.75-4
	Wheel Spindle Lubrication Pump	kw-p	0.2-4
	Coolant Pump	kw-p	0.4-2
Tank capacity	Hydraulic	ℓ	40
	Wheel Spindle Lubrication Pump	ℓ	18
	Coolant	ℓ	200
Othres	NC Device	-	SENTROL(FANUC)
	Center Height	mm	1150
	Floor Area	mm	2450×3300
	Machine Weight	kg	5000

GAN-33

CNC Angular slide cylindrical grinding machine

Next-Generation Grinder for High Productivity/
Quality/Precision! Simultaneous Multi-Step Grinding,
Process Shortening, and Simultaneous Grinding of
Complex Shapes



※ FULL COVER OPTION

Item	Sect	Unit	GAN-33	
			500	1000
Capacity	Swing Over Table	mm	Ø330	
	Distance Between Center	mm	500	1000
	Max. Grinding Diameter	mm	Ø260	
	Max. Center Support Weight	kg	200	
Wheel spindle	Grinding Wheel Size (O.D X W X L.D)	mm	Ø610×50×Ø254	
	Speed	rpm	1405	
Wheel head (X-axis)	Total Travel	mm	275	
	Rapid Feed Travel	m/min	5	
Table (Z-axis)	Total Distance	mm	750	1310
	Rapid Feed Speed	m/min	10	
Work head	Center Taper	MT	NO 4	
	Speed	rpm	NC Control(max.400)	
Tail stock	Center Taper	MT	NO 4	
	Spindle Stroke	mm	50	
Motor	Wheel Spindle	kw-p	7.5-4	
	Work Head	kw	2.9(1.6)	
	Wheel Head(Xaxis)	kw	1.8(3.0)	
	Table(Zaxis)	kw	1.8(3.0)	
	Hydraulic Pump	kw-p	0.75-4	
	Wheel Spindle Lubrication Pump	kw-p	0.2-4	
Tank capacity	Coolant Pump	kw-p	0.4-2	
	Hydraulic	ℓ	40	
	Wheel Spindle Lubrication Pump	ℓ	18	
Othres	Coolant	ℓ	200	
	NC Device	-	SENTROL(FANUC)	
	Center Height	mm	1110	
	Floor Area	mm	3700×3055	4300×3450
	Machine Weight	kg	4500	5500

GU-20

Universal cylindrical grinding machine

Ideal for precision grinding of small components



Item	Sect	Unit	GU-20	
			200×250	200×500
Capacity	Swing Over Table	mm	Ø200	
	Distance Between Center	mm	250	500
	Max. Grinding Diameter	mm	Ø195	
	Max. Center Support Weight	kg	20	
Wheel spindle	Grinding Wheel Size (O.D X W X L.D)	mm	Ø305×25×Ø127 (Ø355×32×Ø127)	
	Speed	rpm	2000, 2240	
Wheel head (X-axis)	Total Travel	mm	165	
	Swivel Angle	°	Left and Right 30	
	Rapid Feed Travel (Hydraulic)	mm	20	
Table (Z-axis)	Total Distance	mm	330	600
	Swivel Angle (Wheel Head Side)	°	11	9
	Swivel Angle (Operator Side)	°	5	4
Work head	Center Taper	MT	NO 2(3)	
	Speed	rpm	77~650, 6 Stages	
Tail stock	Center Taper	MT	NO 2(3)	
	Spindle Stroke	mm	20	
Motor	Wheel Spindle	kw-p	2.2-4	
	Work Head	kw-p	0.2-4	
	Hydraulic Pump	kw-p	0.75-4	
	Wheel Spindle Lubrication Pump	kw-p	0.2-4	
	Coolant Pump	kw-p	0.18-2	
	Internal Grinding	kw-p	0.75-2	
Tank capacity	Hydraulic	ℓ	60	
	Wheel Spindle Lubrication Pump	ℓ	18	
	Coolant	ℓ	80	
Othres	Floor Area	mm	1090	
	Floor Area	mm	1720×1915	2720×1915
	Net Weight	kg	1400	1600
	Type		Manual (H) / Automatic (A)	

GU-32

Universal cylindrical grinding machine

Customer-oriented universal cylindrical grinder



Item	Sect	Unit	GU-32	
			320×500	320×1100
Capacity	Swing Over Table	mm	Ø320	
	Distance Between Center	mm	500	1100
	Max. Grinding Diameter	mm	Ø200	
	Max. Center Support Weight	kg	130	
Wheel spindle	Grinding Wheel Size (O.D X W X L.D)	mm	Ø355×32×Ø152.4 (Ø405×50×Ø152.4)	
	Speed	rpm	1710, 1935	
Wheel head (X-axis)	Total Travel	mm	160	
	Swivel Angle	°	Left and Right 30	
	Rapid Feed Travel (Hydraulic)	mm	40	
Table (Z-axis)	Total Distance	mm	640	1250
	Swivel Angle (Wheel Head Side)	°	11	7
	Swivel Angle (Operator Side)	°	1	1
Work head	Center Taper	MT	NO 4	
	Speed	rpm	33~363, 7 Stages	
Tail stock	Center Taper	MT	NO 4	
	Spindle Stroke	mm	30(Hydraulic Type 50)	
Motor	Wheel Spindle	kw-p	3.7-4	
	Work Head	kw-p	0.3-8	
	Hydraulic Pump	kw-p	0.75-4	
	Wheel Spindle Lubrication Pump	kw-p	0.2-4	
	Coolant Pump	kw-p	0.18-2	
	Internal Grinding	kw-p	0.75(1.5)-2	
Tank capacity	Hydraulic	ℓ	60	
	Wheel Spindle Lubrication Pump	ℓ	18	
	Coolant	ℓ	80	
Othres	Center Height	mm	1110	
	Floor Area	mm	2700×2000	5300×2000
	Net Weight	kg	2700	3400
	Type		Manual (H) / Automatic (A)	

GU-35

Universal cylindrical grinding machine

Universal cylindrical grinder with high precision and high quality



Item	Sect	Unit	GU-35		
			350×600	350×1000	350×1200
Capacity	Swing Over Table	mm	Ø350		
	Distance Between Center	mm	600	1000	1200
	Max. Grinding Diameter	mm	Ø300		
	Max. Center Support Weight	kg	130		
Wheel spindle	Grinding Wheel Size (O.D X W X L.D)	mm	Ø355×32×Ø152.4 (Ø405×50×Ø152.4)		
	Speed	rpm	1675, 2000		
Wheel head (X-axis)	Total Travel	mm	175(265)		
	Swivel Angle	°	Left and Right 30		
	Rapid Feed Travel (Hydraulic)	mm	40		
Table (Z-axis)	Total Distance	mm	750	1150	1350
	Swivel Angle (Wheel Head Side)	°	9	7	7
	Swivel Angle (Operator Side)	°	1	1	1
Work head	Center Taper	MT	NO 4		
	Speed	rpm	33~363, 7 Stages		
Tail stock	Center Taper	MT	NO 4		
	Spindle Stroke	mm	30(Hydraulic Type 50)		
Motor	Wheel Spindle	kw-p	3.7-4		
	Work Head	kw-p	0.3-8		
	Hydraulic Pump	kw-p	0.75-4		
	Wheel Spindle Lubrication Pump	kw-p	0.2-4		
	Coolant Pump	kw-p	0.18-2		
	Internal Grinding	kw-p	0.75(1.5)-2		
Tank capacity	Hydraulic	ℓ	60		
	Wheel Spindle Lubrication Pump	ℓ	18		
	Coolant	ℓ	120		
Othres	Center Height	mm	1110		
	Floor Area	mm	3120×2100	4520×2100	5100×2100
	Net Weight	kg	3100	3800	4000
	Type		Manual (H) / Automatic (A)		

GU-41

Universal cylindrical grinding machine

Universal cylindrical grinder for high-precision grinding of mid to large components



Item	Sect	Unit	GU-41	
			410×1800	410×2200
Capacity	Swing Over Table	mm	Ø410	
	Distance Between Center	mm	1800	2200
	Max. Grinding Diameter	mm	Ø400	
	Max. Center Support Weight	kg	500	
Wheel spindle	Grinding Wheel Size (O.D X W X L.D)	mm	Ø405×50×Ø152.4	
	Speed	rpm	1570, 1790	
Wheel head (X-axis)	Total Travel	mm	270	
	Swivel Angle	°	Left and Right 30	
	Rapid Feed Travel (Hydraulic)	mm	40	
Table (Z-axis)	Total Distance	mm	1850	2300
	Swivel Angle (Wheel Head Side)	°	2	
	Swivel Angle (Operator Side)	°	5	4
	2-Step Handle	mm	0.86/1Rotation	3.6/1Rotation
Work head	Center Taper	MT	NO 5	
	Speed	rpm	15~203, 6 Stages	
Tail stock	Center Taper	MT	NO 5	
	Spindle Stroke	mm	50	
Motor	Wheel Spindle	kw-p	5.5-4	
	Work Head	kw-p	0.75-8	
	Hydraulic Pump	kw-p	2.2-6	
	Wheel Spindle Lubrication Pump	kw-p	0.2-4	
	Coolant Pump	kw-p	0.4-4	
	Internal Grinding	kw-p	1.5-2	
Tank capacity	Hydraulic	ℓ	120	
	Wheel Spindle Lubrication Pump	ℓ	18	
	Coolant	ℓ	200	
Othres	Center Height	mm	1110	
	Floor Area	mm	6120×2570	7130×2570
	Net Weight	kg	6500	7000
	Type		Manual (H) / Automatic (A)	

GU-55

Universal cylindrical grinding machine

Universal cylindrical grinder for high-precision grinding of mid to large components



Item	Sect	Unit	GU-55	
			550×1800	550×2200
Capacity	Swing Over Table	mm	Ø550	
	Distance Between Center	mm	1800	2200
	Max. Grinding Diameter	mm	Ø500	
	Max. Center Support Weight	kg	500	
Wheel spindle	Grinding Wheel Size (O.D X W X L.D)	mm	Ø510×50×Ø152.4	
	Speed	rpm	1570, 1790	
Wheel head (X-axis)	Total Travel	mm	270	
	Swivel Angle	°	Left and Right 30	
	Rapid Feed Travel (Hydraulic)	mm	40	
Table (Z-axis)	Total Distance	mm	1850	2300
	Swivel Angle (Wheel Head Side)	°	2	
	Swivel Angle (Operator Side)	°	5	4
	2-Step Handle	mm	0.86/1Rotation	3.6/1Rotation
Work head	Center Taper	MT	NO 5	
	Speed	rpm	15~203, 6 Stages	
Tail stock	Center Taper	MT	NO 5	
	Spindle Stroke	mm	50	
Motor	Wheel Spindle	kw-p	5.5-4	
	Work Head	kw-p	0.75-8	
	Hydraulic Pump	kw-p	2.2-6	
	Wheel Spindle Lubrication Pump	kw-p	0.2-4	
	Coolant Pump	kw-p	0.4-4	
	Internal Grinding	kw-p	1.5-2	
Tank capacity	Hydraulic	ℓ	120	
	Wheel Spindle Lubrication Pump	ℓ	18	
	Coolant	ℓ	200	
Othres	Center Height	mm	1110	
	Floor Area	mm	6120×2570	7130×2570
	Net Weight	kg	7000	7500
	Type		Manual (H) / Automatic (A)	

GU-65

Universal cylindrical grinding machine

Universal large cylindrical grinder for high value-added machining based on high-precision, high-efficiency grinding of large components

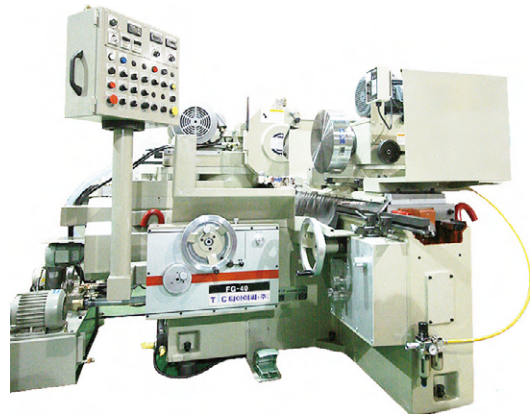


Item	Sect	Unit	GU-65(55)	
			650(550)×2500	650(550)×3000
Capacity	Swing Over Table	mm	Ø550(Ø650)	
	Distance Between Center	mm	2500	3000
	Max. Grinding Diameter	mm	Ø500(Ø600)	
	Max. Center Support Weight	kg	1,000	
Wheel spindle	Grinding Wheel Size (O.D X W X L.D)	mm	Ø610×100×Ø254 (Ø660×100×Ø304.8)	
	Speed	rpm	965, 1043	
Wheel head (X-axis)	Total Travel	mm	350	
	Swivel Angle	°	Fixed Type	
	Rapid Feed Travel (Hydraulic)	mm	100	
Table (Z-axis)	Total Distance	mm	2700	3200
	Swivel Angle (Wheel Head Side)	°	1	
	Swivel Angle (Operator Side)	°	1	
Work head	Center Taper	MT	NO 5(6)	
	Speed	rpm	18~195, Infinitely Variable Transmission Control	
Tail stock	Center Taper	MT	NO 5(6)	
	Spindle Stroke	mm	80(100)	
Motor	Wheel Spindle	kw-p	15-4	
	Work Head	kw-p	5.5-6	
	Hydraulic Pump	kw-p	3.7-4	
	Wheel Spindle Lubrication Pump	kw-p	2.2-4	
	Coolant Pump	kw-p	0.4-2	
	Internal Grinding	kw-p	1.5-2	
Tank capacity	Hydraulic	ℓ	200	
	Wheel Spindle Lubrication Pump	ℓ	40	
	Coolant	ℓ	400	
Othres	Center Height	mm	1200(1250)	
	Floor Area	mm	7730×2900	10000×2900
	Net Weight	kg	11500	13000
	Type		Manual (H) / Automatic (A)	

FG-40

Hydraulic automatic face grinding machine

Face grinder for achieving high-precision flatness and parallelism



Item	Sect	Unit	FG-40
Capacity	Swing Over Table	mm	Ø450
	Max. Distance from Wheel OD to Chuck Face	mm	210
	Max. Grinding Diameter	mm	Ø600 (With Headstock Fixed.)
	Max. Grinding Diameter (Including Chuck and Flange Weight)	kgf	Ø360(40° Swivel) Approximately 50
Wheel spindle	Swivel Angle	°	±30
	Grinding Wheel Size (O.D X W X L.D)	mm	Ø355×50×Ø127
	Standard Grinding Wheel Width	mm	25~50
	Wheel Spindle Speed, Stepless Variable Speed Inverter	rpm	1200~1800
	Manual Travel Distance	mm	275
	Hydraulic Feed Distance	mm	20
	Distance Per Handle Rotation	mm	1
Automatic Gear Shifting	Distance Per Handle Increment	mm	0.005(0.001)
	Pre-travel Distance for Automatic Gear Shifting	mm	99.9
	Automatic Gear Shifting Speed	mm/min	0.001~0.049
	Automatic Gear Shifting Amount	mm	0.001~0.099
Table	Spark Out Adjustment Range (One-Way Counter)	-	99
	Manual Handle Travel Per Revolution	mm	15
	Automatic Traverse Speed	mm/min	50~3000
	Minimum Hydraulic Transfer Distance	mm	7
Work head	Table Travel Distance	mm	550
	Swivel Angle (Applicable for Rotary Type Only)	°	-
	Main Spindle Rotation, Swivel Angle	°	Left and Right 50
	Main Spindle Rotation Speed, Infinitely Variable Inverter	rpm	Max 200
Motor	Magnetic Chuck	mm	Ø350×80
	Magnetizing Range	mm	Ø20~Ø310
	Wheel Spindle	kw-p	7.5, 4, V3
	Electric Grinding Stone Stand (Option)	kw, p, Rat.	0.2, 4, 1/20
	Work Head	kw-p	2.2, 6
	Hydraulic Pump	kw-p	0.75, 4
	Lubrication Pump (For Manual Type Only)	kw-p	-
	Wheel Spindle Lubrication Pump	kw-p	0.2, 4
Tank capacity	Coolant Pump	kw-p	0.18, 2
	Coolant Pump (For Coolant Gun)	kw-p	0.18, 2
	Wheel Spindle Lubrication Pump	ℓ	18
	Hydraulic Tank	ℓ	54
Othres	Cutting Fluid Tank	ℓ	120
	Center Height	mm	1,200
	Floor Area	mm	3,170×2,400
	Height	mm	1,740
	Weight	kgf	2,900
	Power	-	3-phase, 380V, 50/60HZ