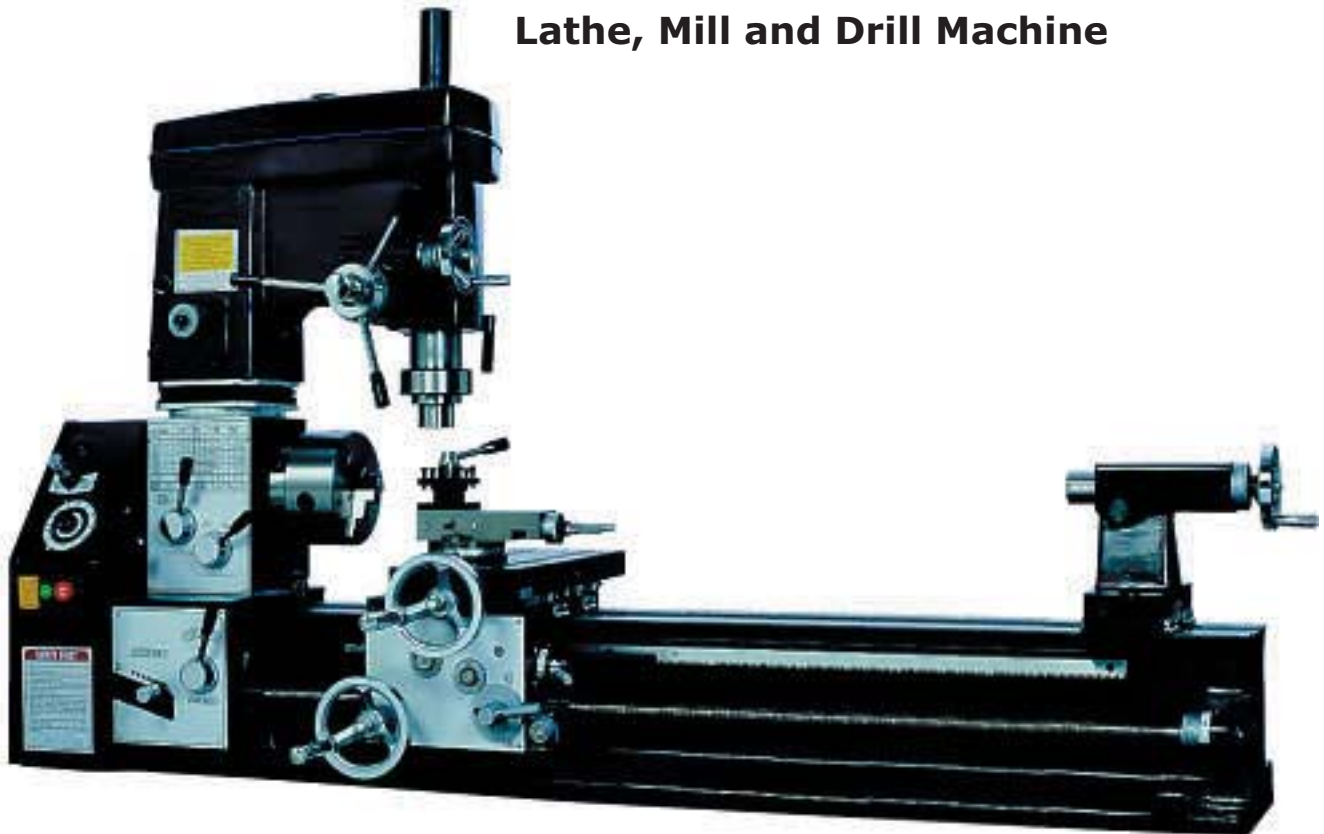


Lathe, Mill and Drill Machine



Order No.	904-1340	904-1324
Lathe:		
Swing over bed:	339mm	330.20mm
Swing over table:	190mm	190.50mm
Distance between centers:	990.6mm	609.60mm
Spindle	D1-4 Camlock	D1-4 Camlock
Spindle bore:	28.58mm	28.58mm
Headstock taper:	MT4	MT4
Tailstock taper:	MT3	MT3
Tool bit size:	1/2" or 12.70mm	
X and Y Axis travel:	508x193.68mm	508x193.68mm
Mill and Drill		
Millhead taper:	R-8 or MT3	R-8 or MT3
Table:	451 x 170mm	451 x 170mm
T-slot width:	11.11mm	11.11mm
Spindle diameter:	69.85mm	
Drill Capacity:	16mm	
Drawbar Size	7/16" or 11.11mm	
Head Travel	111.13mm	
Chuck arbor taper:	R-8 to JT3 or MT3 to JT3	
Spindle to table distance:	101.60mm min, 339.73mm max	
Spindle to support column:	339.73mm	339.73mm
Motor DC	1.5KW or 2 HP	
Speed Range:	50-1500 rpm / 600-3000 rpm	
Weight:	350kg/300kg	300kg/240kg
Crate Size:	1263x578x1100mm	1170*572*991mm

Main features:

- * 39" or 24" between centers.
- * Brushless variable speed motor from 0 to 2800rpm.
- * X-axis and Y-axis powerfeed.
- * R8 or MT3 spindle
- * Threading Dial.
- * Threads range: SAE:7-52 TPI; metric:0.35-6.5 mm
- * 7/16" or 11.11mm Table T slot size.
- * 360 degree head rotation.
- * Sturdy 80.96mm diameter column.
- * 110V 60HZ or 220V 50 HZ single phase AC

Optional basic kit

- * Goggles
- * Air Mask
- * Ear plug
- * Allen wrenches
- * 3 End mills
- * 16mm drill chuck
- * 19mm drill chuck
- * Carbide Bit Pack
- * 7/16" T Slot Nut
- * MT3 solid Center
- * MT4 solid center
- * R8 or MT3 End Mill Adapter
- * R8/JT3 Drill Chuck arbor
- * MT3/JT33 Drill chuck arbor
- * 10/12mm Open end wrench
- * 13/16mm Open end wrench
- * 6" Adjustable Wrench
- * Oil Can
- * Plug
- * Live Center
- * Superlock Vise
- * Steay rest
- * Follow rest
- * Stand



Order No. 905-0165

FEATURES

- * Compact, versatile combination machine.
- * Adjustable height drill/mill head increases capacity.
- * Fine feed handle and clutch for precision milling.
- * Headstock provides two step of feeds.
- * Spindle is supported by high precision bearing.
- * T-slot cross slide.
- * Adjustable gibs for the slideway.
- * Power longitudinal feed allows threading.
- * High precision chuck.

STANDARD ACCESSORIES

- * Dead center
- * Allen wrench
- * Single open end wrench
- * Change gear
- * Drill chuck
- * Drill chuck arbor

Specifications:

Lathe

- Swing over bed: 125mm
- Swing over work table: 60mm
- Distance between centers: 180mm
- Dial Calibration on Leadscrew: 0.05mm
- Headstock Taper: MT1
- Lathe Chuck Mount: Bolt-On
- Spindle Bore: 9mm
- Spindle Speed No.: 5
- Spindle speed range: 560-2500 RPM
- Metric thread pitch Nos.:
- Metric thread pitches: 0.25-1mm
- Inch thread pitch No. : 21
- Inch thread pitches: 22-64 tpi
- Tailstock Taper: MT1
- Tailstock quill Travel: 18MM

Mill/Drill

- Head Rotation: 360°
- Table Size: 85x60mm
- Spindle Center to Support Column: 125MM
- Spindle to Table Distance: 120-180MM
- Spindle Taper: MT1
- Spindle Speed No.: 10
- Spindle speed range: 500-2500RPM
- Powerfeed (X-Axis): Yes
- Powerfeed (Y-Axis): No

Motor

- Horsepower: 250W
- Motor Type: A/C
- Phase: Single
- Voltage: 110 or 220 V
- Overall size: 520mmx300mmx410mmShippi
- Shipping Weight: 28 kg
- Machine Weight: 22kg
- Crate Size: 570x340x480mm



Order No. 905-0166

Features

- * Adjustable height drill/mill head increases capacity
- * Fine feed handle and clutch for precision milling.
- * Headstock provides two step of feeds.
- * Headstock is constantly oiled during operation.
- * Adjustable gibs for the slideway.
- * Power longitudinal feed allows threading.
- * A reversing switch is included for added versatility.
- * Tailstock may be offset for turning taper.
- * Tolerance test certificate, test flow chart included.

STANDARD ACCESSORIES

- * Three-jaw chuck
- * Dead center
- * Allen wrench
- * Double open end wrench
- * Change gear
- * Drill chuck
- * Tapered drift

Specifications:

Lathe

- Swing over bed: 300mm
- Swing over work table: 160mm
- Distance between centers: 470mm
- Headstock Taper: MT4
- Lathe Chuck Mount: Bolt-On
- Spindle Bore: 26mm
- Spindle Speed No.: 6
- Spindle speed range: 160-1600 RPM
- 14 Metric thread pitches: 0.5-3mm
- 20 Inch thread pitches: 11-40tpi
- Tailstock Taper: MT3
- Tailstock quill Travel: 355MM
- Powerfeed (X-Axis): Yes
- Powerfeed (Y-Axis): No
- Dial calibration on Crossfeed: 0.05mm
- Dial Calibration on Leadscrew: 0.05mm

Mill/Drill

- Table Size: 150x200mm
- Head Rotation: 360°
- Head Travel: 80mm
- Spindle Center to Support Column: 175MM
- Spindle to Table Distance: 240-320MM
- Spindle Taper: MT3
- Spindle Speed No.: 12
- Spindle speed range: 125-1600RPM
- AC motor: 550W
- Phase: Single or 3 phase
- Voltage: 110 or 220 V
- Overall size: 106x54x75cm
- Shipping Weight: 230kg
- Machine Weight: 170kg
- Crate Size: 112x58x98cm



Order No. 905-0167

Features

- * Adjustable height drill/mill head increases capacity
- * Fine feed handle and clutch for precision milling.
- * Headstock provides two step of feeds.
- * Headstock is constantly oiled during operation.
- * Adjustable gibs for the slideway.
- * Power longitudinal feed allows threading.
- * A reversing switch is included for added versatility.
- * Tailstock may be offset for turning taper.
- * Tolerance test certificate, test flow chart included.

STANDARD ACCESSORIES

- * Three-jaw chuck
- * Dead center
- * Allen wrench
- * Double open end wrench
- * Change gear
- * Drill chuck
- * Tapered drift

Specifications:

Lathe

Swing over bed: 300mm
 Swing over work table: 160mm
 Distance between centers: 470mm
 Headstock Taper: MT4
 Lathe Chuck Mount: Bolt-On
 Spindle Bore: 26mm
 Spindle Speed No.: 6
 Spindle speed range: 160-1600 RPM
 Metric thread pitch Nos.: 14
 Metric thread pitches: 0.5-3mm
 Inch thread pitch No. : 20
 Inch thread pitches: 11-40tpi
 Tailstock Taper: MT3
 Tailstock quill Travel: 355MM
 Powerfeed (X-Axis): Yes
 Powerfeed (Y-Axis): No
 Dial calibration on Crossfeed: 0.05mm
 Dial Calibration on Leadscrew: 0.05mm

Mill/Drill

Head Rotation: 360°
 Head Travel: 80mm
 Spindle Center to Support Column: 175MM
 Spindle to Table Distance: 240-320MM
 Spindle Taper: MT3
 Spindle Speed No.: 12
 Spindle speed range: 125-1600RPM
 Table Size: 150x200mm
 AC motor: 550W
 Phase: Single or 3 phase
 Voltage: 110 or 220 V
 Overall size: 106x54x75cm
 Shipping Weight: 240kg
 Machine Weight: 180kg
 Crate Size: 112x58x98cm

Specifications:

Lathe

Swing over bed: 300mm
 Swing over work table: 160mm
 Distance between centers: 470mm
 Dial calibration on Crossfeed: 0.05mm
 Dial Calibration on Leadscrew: 0.05mm
 Headstock Taper: MT4
 Lathe Chuck Mount: Bolt-On
 Spindle Bore: 26mm
 Spindle Speed No.: 6
 Spindle speed range: 160-1600 RPM
 Metric thread pitch Nos.: 14
 Metric thread pitches: 0.5-3mm
 Inch thread pitch No. : 20
 Inch thread pitches: 11-40tpi
 Tailstock Taper: MT3
 Tailstock quill Travel: 355MM
 Powerfeed (X-Axis): Yes
 Powerfeed (Y-Axis): No

Mill/Drill

Table Size: 150x420mm
 Head Rotation: 360°
 Head Travel: 80mm
 Spindle Center to Support Column: 175MM
 Spindle to Table Distance: 240-320MM
 Spindle Taper: MT3
 Spindle Speed No.: 12
 Spindle speed range: 125-1600RPM
 AC motor: 550W
 Phase: Single or 3 phase
 Voltage: 110 or 220 V
 Overall size: 106x54x75cm
 Shipping Weight: 250kg
 Machine Weight: 190kg
 Crate Size: 112x58x98cm



Order No. 905-0168

Features

- * Threa dial.
- * Extra larger table.
- * Adjustable height drill/mill head increases capacity
- * Fine feed handle and clutch for precision milling.
- * Headstock provides two step of feeds.
- * Headstock is constantly oiled during operation.
- * Adjustable gibs for the slideway.
- * Power longitudinal feed allows threading.
- * A reversing switch is included for added versatility.
- * Tailstock may be offset for turning taper.
- * Tolerance test certificate, test flow chart included.

STANDARD ACCESSORIES

- * Three-jaw chuck
- * Dead center
- * Allen wrench
- * Double open end wrench
- * Change gear
- * Drill chuck
- * Tapered drift

Multi-purpose Machines



Order No. 905-0172

Features

- * Threa dial.
- * Half nut, faster and easier threading.
- * Cuts left hand, right hand, inch, and metric threads
- * Longitudinal and cross power feed.
- * Two separate motors for lathe and mill.
- * Quick cahnge over between turning to milling/drilling.
- * Large table.
- * Adjustable mill/drill head height
- * Fine feed handle and clutch for precision milling.
- * Headstock provides two step of feeds.
- * Headstock is constantly oiled during operation.
- * A reversing switch is included for added versatility.

STANDARD ACCESSORIES

- * There-jaw chuck
- * Dead center
- * Allen wrench
- * Single open end wrench
- * Drill chuck
- * Tapered drift
- * Rocker
- * Change gears

Specifications:

Lathe

- Swing over bed: 300mm
- Swing over work table: 170mm
- Distance between centers: 500mm
- Dial Calibration on Crossfeed: 0.05mm
- Dial Calibration on Leadscrew: 0.05mm
- Headstock Taper: MT4
- Lathe Chuck Mount: Bolt-On
- Spindle Bore: 26MM
- Spindle Speeds (six): 160-1600 RPM
- 14 Metric Thread pitches: 0.5-3mm
- 20 Inch Thread pitches: 11-40TPI
- Tailstock Taper: MT3
- X-Axis Working Travel: 355mm
- Y-Axis Working Travel: 200mm

Mill/Drill:

- Table Size: 150x425mm
- Head Rotation: 360°
- X-Axis Working Travel: 300mm
- Y-Axis Working Travel: 200mm
- Head Travel: 80mm
- Spindle Center to Support Column: 310mm
- Spindle to Table Distance: 240-320mm
- 9 Spindle Speeds: 315-2000RPM
- Spindle Taper: MT3
- Max. Tool Size: 25x25mm
- Powerfeed (X-Axis): Yes
- Powerfeed (Y-Axis): Yes
- Threading Dial: Yes
- Two AC Motors: 550W
- Phase: Single or Three phase
- Voltage: 110 or 220 V
- Overall Size: 105x50x72cm
- Machine Weight: 200kg
- Shipping Weight: 280kg
- Shipping Size: 117x58x98cm



Order No. 905-0173

Features

- * Threa dial.
- * Half nut, faster and easier threading.
- * Cuts left hand, right hand, inch, and metric threads
- * Longitudinal and cross power feed.
- * Two separate motors for lathe and mill.
- * Quick cahnge over between turning to milling/drilling.
- * Large table.
- * Adjustable mill/drill head height
- * Fine feed handle and clutch for precision milling.
- * Headstock provides two step of feeds.
- * Headstock is constantly oiled during operation.
- * A reversing switch is included for added versatility.

STANDARD ACCESSORIES

- * There-jaw chuck
- * Dead center
- * Allen wrench
- * Single open end wrench
- * Drill chuck
- * Tapered drift
- * Rocker
- * Change gears
- * Work Stand

Specifications:

- Swing over bed: 300mm
- Swing over work table: 170mm
- Distance between centers: 750mm
- Dial Calibration on Crossfeed: 0.05mm
- Dial Calibration on Leadscrew: 0.05mm
- Headstock Taper: MT4
- Lathe Chuck Mount: Bolt-On
- Spindle Bore: 26MM
- Spindle Speeds (six): 160-1600 RPM
- 14 Metric Thread pitches: 0.5-3mm
- 20 Inch Thread pitches: 11-40TPI
- Tailstock Taper: MT3
- X-Axis Working Travel: 355mm
- Y-Axis Working Travel: 200mm
- Table Size: 150x425mm
- Head Rotation: 360°
- X-Axis Working Travel: 300mm
- Y-Axis Working Travel: 200mm
- Head Travel: 80mm
- Spindle Center to Support Column: 310mm
- Spindle to Table Distance: 240-320mm
- 9 Spindle Speeds: 315-2000RPM
- Spindle Taper: MT3
- Max. Tool Size: 25x25mm
- Powerfeed (X-Axis): Yes
- Powerfeed (Y-Axis): Yes
- Threading Dial: Yes
- Two AC Motors: 550W
- Phase: Single or Three phase
- Voltage: 110 or 220 V
- Overall Size: 135x50x72cm
- Machine Weight: 200kg
- Shipping Weight: 280kg
- Shipping Size: 147x58x98cm



Order No. 905-0169

Specifications:

Lathe

Swing over bed: 300mm
 Swing over work table: 140mm
 Distance between centers: 915mm
 Dial Calibration on Crossfeed: 0.05mm
 Dial Calibration on Leadscrew: 0.05mm
 Headstock Taper: MT5
 Lathe Chuck Mount: Bolt-On
 Spindle Bore: 38MM
 Spindle Speeds (nine): 250-1600 RPM
 No. of metric threads: 12
 Metric Thread pitches: 0.5-3mm
 No. of inch threads: 20
 Inch Thread pitches: 11-40TPI
 Tailstock Taper: MT3
 X-Axis Working Travel: 700mm
 Y-Axis Working Travel: 160mm

Mill/Drill

Table Size: 200x425mm
 Head Rotation: 360°
 X-Axis Working Travel: 400mm
 Y-Axis Working Travel: 160mm
 Head Travel: 130mm
 Spindle Center to Support Column: 400mm
 Spindle to Table Distance: 250-380mm
 9 Spindle Speeds: 315-2000RPM
 Spindle Taper: MT3
 Max. Tool Size: 25x25mm
 Powerfeed (X-Axis): Yes
 Powerfeed (Y-Axis): Yes
 Threading Dial: Yes
 Two AC Motors: 1100W
 Phase: Single or Three phase
 Voltage: 110 or 220 V
 Overall Size: 165x70x90cm
 Machine Weight: 400kg
 Shipping Weight: 560kg
 Shipping Size: 190x85x112cm

Features

- * Compact, versatile combination machine.
- * One motor for lathe and one for mill and drill.
- * With threading dial and half nut.
- * Quick work change over.
- * Adjustable height drill/mill head increases capacity.
- * Large MT5 spindle bore.
- * Large distance between center on longitudinal.
- * Fine feed handle and clutch for precision milling.
- * Headstock provides two step of feeds.
- * Spindle is supported by high precision bearing.
- * Headstock is constantly oiled during operation.
- * T-slot cross slide.
- * Adjustable gibs for the slideway.
- * Power longitudinal & cross feed.
- * Gearbox gets left and right hand threads to cut.
- * High precision chuck.
- * Equipped with emergency stop button.
- * A reversion switch is included for added versatility.
- * Tailstock may be offset for turning taper.

STANDARD ACCESSORIES

- * Dead center
- * Allen wrench
- * Single open end wrench
- * Change gear
- * Drill chuck
- * Drill chuck arbor
- * Rocker
- * Tapered drift
- * Standard

Optional Accessories

- * Turning tool set
- * Machine vice
- * Steady rest
- * Follow rest
- * Face mill cutter
- * Face plate
- * Back plate(φ160/φ200)
- * Four-jaw chuck(φ160/φ200)
- * Step block
- * Live center
- * Clamping kit

Lathe, Mill and Drill Machine



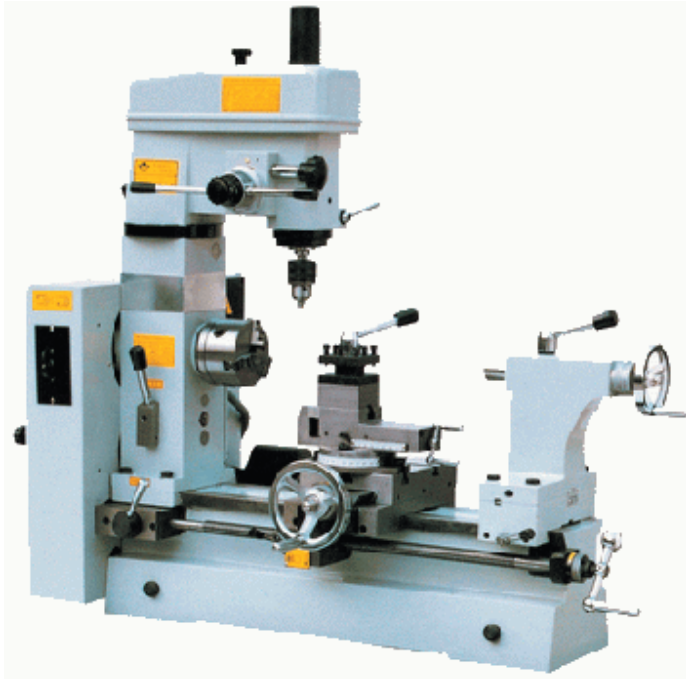
Order No.904-1620



Order No.904-1632

Order No.	904-1620	904-1632	904-1621	904-1633
Swing over bed	φ420mm	φ420mm	φ420mm	φ420mm
Distance between centers	500mm	800mm	500mm	800mm
Max. longitudinal travel	440mm	740mm	440mm	740mm
Max. cross travel	200mm	200mm	200mm	200mm
Taper of spindle	M.T.4	M.T.4	M.T.4	M.T.4
Spindle hole	φ28mm	φ28mm	φ28mm	φ28mm
Step of spindle speed	7	7	7	7
Range of spindle speed	160-1360r.p.m	160-1360r.p.m	160-1360r.p.m	160-1360r.p.m
Barrel travel	70mm	70mm	70mm	70mm
Taper of center	M.T.3	M.T.3	M.T.3	M.T.3
Metric thread range	0.2-6mm	0.2-6mm	0.7-4mm	0.7-4mm
Inch thread range	4-120T.P.I	4-120T.P.I	4-30T.P.I	4-30T.P.I
Longitudinal range of automatic feeding	0.05-0.35mm/0.002-0.014"		0.088-0.55mm/0.0035-0.022"	
Cross range of automatic feeding	0.05-0.35mm/0.002-0.014"		0.088-0.55mm/0.0035-0.022"	
Max. drilling capacity	φ22mm	φ22mm	φ22mm	φ22mm
Worktable size (L*W)	475x160mm ²	475x160mm ²	475x160mm ²	475x160mm ²
Max. end mill	φ28mm	φ28mm	φ28mm	φ28mm
Max. face mill	φ80mm	φ80mm	φ80mm	φ80mm
Distance between spindle center and column	285mm	285mm	285mm	285mm
Distance between spindle and worktable	306mm	306mm	306mm	306mm
Headstock travel of up and down	110mm	110mm	110mm	110mm
Spindle taper	M.T.3	M.T.3	M.T.3	M.T.3
Step of spindle speed	16	16	16	16
Range of spindle speed	120-3000r.p.m	120-3000r.p.m	120-3000r.p.m	120-3000r.p.m
Swivel degree of headstock	±360°	±360°	±360°	±360°
Motor power	0.55Kw/0.55Kw	0.55Kw/0.55Kw	0.55Kw/0.55Kw	0.55Kw/0.55Kw
Voltage/Frequency	As customers' requirement			
Packing size	113x58x110cm	143x58x110cm	113x58x110cm	143x58x110cm
N. weight/G .weight	245kg/280kg	275/325KG	250kg/285kg	280kg/330kg

Lathe, Mill and Drill Machine



Order No.	904-1416	904-1417
Swing over bed	φ420mm	φ420mm
Distance between centers	400mm	400mm
Max. longitudinal travel	380mm	380mm
Max. cross travel	120mm	120mm
Taper of spindle	M.T.3	M.T.3
Spindle hole	φ20mm	φ20mm
Step of spindle speed	7	7
Range of spindle speed	160-1360r.p.m	160-1360r.p.m
Barrel travel	70mm	70mm
Taper of center	MT3	MT3
Metric thread range	0.2-3mm	0.7-2mm
Inch thread range	8-120TPI	7-30TPI
Longitudinal range of automatic feeding	0.05-0.175mm/0.002-0.007"	0.088-0.28mm/0.0035-0.011"
Max. drilling capacity	φ15mm	φ15mm
Worktable size (L*W)	200×150mm	200×150mm
Max. end mill	φ20mm	φ20mm
Max. face mill	φ63mm	φ63mm
Spindle travel	85mm	85mm
Spindle taper	MT3	MT3
Step of spindle speed	14	14
Range of spindle speed	117-1300r.p.m	117-1300r.p.m
Swivel of headstock	±360°	±360°
Motor power	0.55Kw	0.55Kw
Voltage/Frequency	As customers' requirement	
Packing size	103×58×110cm	103×58×110cm
N. weight/G. weight	180kg/215kg	185kg/220kg

Lathe, Mill and Drill Machine



- * X powerfeed
- * 80mm adjustable milling head height

Order No.	904-1416	904-1417	904-1516
Swing over bed	φ420mm	φ420mm	φ420mm
Distance between centers	400mm	400mm	500mm
Max. longitudinal travel	380mm	380mm	480mm
Max. cross travel	120mm	120mm	120mm
Taper of spindle	M.T.3	M.T.3	M.T.3
Spindle hole	φ20mm	φ20mm	φ20mm
Step of spindle speed	7	7	7
Range of spindle speed	160-1360r.p.m	160-1360r.p.m	160-1360r.p.m
Barrel travel	70mm	70mm	70mm
Taper of center	MT3	MT3	MT3
Metric thread range	0.2-3mm	0.7-2mm	0.2-3mm
Inch thread range	8-120TPI	7-30TPI	8-120TPI
Longitudinal range of automatic feeding	0.05-0.175mm/0.002-0.007"	0.088-0.28mm/0.0035-0.011"	0.05-0.175mm/0.002-0.007"
Max. drilling capacity	φ15mm	φ15mm	φ15mm
Worktable size (L*W)	200×150mm	200×150mm	200×150mm
Max. end mill	φ20mm	φ20mm	φ20mm
Max. face mill	φ63mm	φ63mm	φ63mm
Spindle travel	85mm	85mm	85mm
Adjustable mill head height	80MM	80MM	80MM
Spindle taper	MT3	MT3	MT3
Step of spindle speed	14	14	14
Range of spindle speed	117-1300r.p.m	117-1300r.p.m	117-1300r.p.m
Swivel of headstock	±360°	±360°	±360°
Motor power	0.55Kw	0.55Kw	0.55Kw
Voltage/Frequency	As customers' requirement		As customers' requirement
Packing size	103×58×110cm	103×58×110cm	113×58×110cm
N. weight/G. weight	180kg/215kg	185kg/220kg	185kg/226kg

MULTI-PURPOSE MACHINE

Order No.	904-1302	904-1306	
Drilling capacity	13mm	13mm	
End milling capacity	16mm	16mm	
Face milling capacity	30mm	30mm	
Drilling & milling spindle taper	MT3 or R8	MT3 or R8	
Spindle speed	low range	100-1100rpm	100-1100rpm
	high range	100-2500rpm	100-2500rpm
Output power	350W	350W	
Spindle rotary angle	-25°-+45°	-25°-+45°	
Weight(net/gross)	32/47kg	32/47kg	
Packing size	810*420*500mm	810*420*500mm	
Overall dimension	1050*680*860mm	1200*680*860mm	

Standard Attachment

Dia.13mm drill chuck with taper shank
 Dia.125mm three jaw chuck
 Dead centers MT3 and MT2
 Mill table Gear set



MICRO MULTI-PURPOSE MACHINE

Specifications

Cutting

Swing over bed: 140 mm
 Distance between centers: 250 mm
 Spindle taper: MT2
 Tailstock taper: MT1
 Spindle speed: 100-2000 rpm±10%
 Range of threads: Metric 0.5-1.25mm(5 thread pitches) or
 Imperial 16-24TPI(5 thread pitches)

Drilling and milling

Max.drilling/milling capacity: 10 mm
 Travel of drilling/milling spindle: 30 mm
 Drilling/milling spindle speed: 100-1500rpm±10%
 T-slot: 8 mm
 Output power: 150 w
 Net/Gross weight: 45/57 kg
 Packing size(LxWxH):690x430x 15mm

Standard Attachment

Dia.80mm Three jaw chuck
 Dia.10mm Drill chuck
 Wrench set
 Oil can



Order No.904-1301

Features

Milling/drilling & grinding function
 Brushless motor
 Touch switch
 Spindle speed read out

UNIVERSAL MILLING/DRILLING & GRINDING MACHINE

Specifications

Milling and drilling

Max.Drilling capacity: 16mm
 Spindle speed: Milling/drilling 200-2500 rpm+10%
 Spindle taper: MT3
 Table longitudinal: 200mm
 Table cross travel: 120mm
 Spindle box travel: 200mm
 End mill capacity: 16mm
 Face mill capacity: 50mm
 Max.distance spindle to table: 200mm
 Table effective size: 450x120mm
 T-slot size: 8mm
 Motor output power: 1000W
 Overall dimension(LxWxH): 570x520x1600mm
 Weight(Net/Gross): 185/230kg
 Packing size(LxWxH): 800x760x1780mm

Grinding

Spindle speed: Grinding 2500 rpm+10%
 Grinding wheel size: 100x16x20mm

Standard Attachment

Grinding attachment
 Cutting attachment
 Drill chuck Grinding wheel
 Tool set Oil can



Vertical Milling Machine

Features:

- * Spindle feed.
- * Rigid, rectangular table guideways.
- * Automatic X, Y axis feed.
- * Power driven table lifting control.
- * Table surface and guideways hardened at ultrasonic frequency.
- * 35 degree mill head swivel at both sides.

Specifications:

- * Table Size: 1320x320mm
- * T slot size: 14mm
- * X Travel: 800mm (750mm)
- * Y Travel: 300mm
- * Spindle Taper: ISO50
- * Distance from Spindle Nose to Table Surface: 45 to 445mm
- * Distance between spindle axis and column guideways: 360mm
- * Spindle Speed Range: 58 to 1710rpm
- * Motor Power: 4kw
- * Machine Weight: 2300kg
- * Overall Size: 1770x1820x1880mm

Order No. 905-0134



Vertical Milling Machine

Features:

- * Rigid, rectangular table guideways.
- * Automatic X, Y axis feed.
- * Power driven table lifting control.
- * Table surface and guideways hardened at ultrasonic frequency
- * 35 degree mill head swivel at both sides.

Specifications:

- * Table Size: 1320x320mm
- * T slot size: 14mm
- * X Travel: 800mm (750mm)
- * Y Travel: 300mm
- * Spindle Taper: ISO50
- * Distance from Spindle Nose to Table Surface: 45 to 445mm
- * Distance between spindle axis and column guideways: 320m
- * Spindle Speed Range: 58 to 1710rpm
- * Motor Power: 4kw
- * Machine Weight: 2300kg
- * Overall Size: 1770x1820x1880mm

Order No. 905-0111



Vertical Milling Machine



Specifications:

- * Table Size: 1600x400mm
- * Number of T slots: 3
- * Width of T slots: 18mm
- * Maximum load: 800kg
- * X axis travel (manual/power): 900mm/880mm
- * Y axis travel (manual/power): 315mm/300mm
- * Z axis travel (manual/power): 385mm/365mm.
- * X axis Table Feed Speed: 19 to 950 mm/min
- * Y axis Table Feed Speed: 19 to 950 mm/min
- * Z axis Table Feed Speed: 6.3 to 317 mm/min
- * Rapid Table Feed X: 2300mm/min
- * Rapid Table Feed Y: 2300mm/min
- * Rapid Table Feed Z: 770 mm/min
- * No. of Spindle Speed: 18
- * Spindle Speed Range: 30 to 1500rpm
- * Spindle travel: 85mm
- * Max. spindle swivel angle range: +/-45 degrees
- * Distance from Spindle nose to Table Surface: 30 to 500mm
- * Motor Power: 11kw
- * Machine Weight: 4250kg
- * Overall Size: 2556x2159x2298mm

Order No. 905-0137

Vertical Knee Type Milling Machine



Technical Data:

- Table Size: 1320x320mm
- X Travel (Manual/Power Driven): 700mm/680mm
- Y Travel (Manual/Power Driven): 255mm/240mm
- Z Travel (Manual/Power Driven): 350mm/330mm
- Spindle Travel: 70mm
- Distance from Spindle Nose to Table Surface: 60-410mm
- Distance between spindle axis and column guideways: 350mm
- No. of Spindle Speed: 18
- Spindle Speed Range: 30 to 1500rpm
- X axis Table Feed Speed 23.5 to 1180 mm/min (18 speeds)
- Y axis Table Feed Speed 23.5 to 1180 mm/min (18 speeds)
- Z axis Table Feed Speed 8 to 394 mm/min
- Rapid Table Feed (X/Y/Z) 2300/2300/770 mm/min
- Motor Power 7.5kw
- Machine Weight 2800kg/3100kg
- Overall Size 2294x1770x1904mm

Order No. 905-0109

Universal Knee Type Milling Machine



Specifications:

- * Table Size: 1600x400mm
- * Number of T slots: 3
- * Width of T slots: 18mm
- * Maximum load: 800kg
- * X axis travel (manual/power): 900mm/880mm
- * Y axis travel (manual/power): 315mm/300mm
- * Z axis travel (manual/power): 380mm/360mm.
- * X axis Table Feed Speed: 19 to 950 mm/min
- * Y axis Table Feed Speed: 19 to 950 mm/min
- * Z axis Table Feed Speed: 6.3 to 317 mm/min
- * Rapid Table Feed X: 2300mm/min
- * Rapid Table Feed Y: 2300mm/min
- * Rapid Table Feed Z: 770 mm/min
- * No. of Spindle Speed: 18
- * Spindle Speed Range: 30 to 1500rpm
- * Distance from Spindle Axis to Table Surface: 30 to 350mm
- * Motor Power: 11kw
- * Machine Weight: 3850kg
- * Overall Size: 2556x2159x1770mm

Order No. 905-0131

Knee Type Universal Milling Machine



Specifications:

- * Table Size: 1320x320mm
- * T slot size: 18mm
- * X axis travel (manual): 700mm
- * Y axis travel (manual): 255mm
- * Z axis travel (manual): 320mm
- * X axis travel (motorized): 680mm
- * Y axis travel (motorized): 240mm
- * Z axis travel (motorized): 300mm.
- * Distance from Spindle Axis to Table Surface: 30 to 350mm
- * Distance from Table Center to Column Guideways: 215 to 470mm
- * No. of Spindle Speed: 18
- * Spindle Speed Range: 30 to 1500rpm
- * X axis Table Feed Speed: 23.5 to 1180 mm/min
- * Y axis Table Feed Speed: 23.5 to 1180 mm/min
- * Z axis Table Feed Speed: 8 to 394 mm/min
- * Rapid Table Feed X: 2300mm/min
- * Rapid Table Feed Y: 2300mm/min
- * Rapid Table Feed Z: 770 mm/min
- * Motor Power: 7.5kw
- * Machine Weight: 2650kg/2950kg
- * Overall Size: 2294x1770x1665mm
- * Optional Vertical Milling head

Order No. 905-0110

Standard accessories:

- * Mill chuck: ISO50 shank (4mm,5mm,6mm,8 mm,10mm,12mm,14mm,16mm collet)
- * Vice: 160mm
- * wrench: S17-19,S21-24,S27-24,S32-36
- * Single head wrench 14mm

- * Inner-haxagonal spanner: 5mm, 8mm, 10mm
- * Shell end milling arbor: ISO50 (40mm)
- * Drill sleeve: ISO50/MT4
- * Horizontal draw bar: M24-M16
- * Horizontal milling bar: 22mm, 27mm and 32mm
- * Ground bolts: M20X500 4sets
- * Oil gun

Universal Milling Machine

Features:

- * Optional vertical milling head attachment.
- * Rigid, rectangular table guideways.
- * Automatic X, Y axis feed.
- * Power driven table lifting control.
- * Table surface and guideways hardened at ultrasonic frequency.

Specifications:

- * Table Size: 1320x320mm
- * T slot size: 14mm
- * X Travel: 800mm (750mm)
- * Y Travel: 300mm
- * Spindle Taper: ISO50 horizontal/ISO 40 vertical
- * Distance from Spindle Nose to Table Surface: 0 to 400mm
- * Distance between spindle axis and boom: 175mm
- * Spindle Speed Range: 58 to 1800rpm
- * Motor Power: 4kw
- * Machine Weight: 2200kg
- * Overall Size: 1900x1720x1750mm

Order No. 905-0112



Knee Type Universal Milling Machine

Features:

- * Easy vertical to horizontal conversion.
- * Variable table feed.
- * 30 degree milling head swivel at both sides.
- * Table surface and guideways hardened at ultrasonic frequency.

Specifications:

- * Table Size: 1250x260mm
- * X Travel: 780mm
- * Y Travel: 220mm
- * Spindle Taper: ISO50
- * Distance from horizontal spindle to table surface: 0 to 350mm
- * Distance from Vertical Spindle Nose to Table Surface: 20 to 390mm
- * Distance from vertical spindle axis to column guideway: 160 to 480mm
- * Milling Head Swivel Angle: $\pm 30^\circ$
- * Quill Stroke: 70mm
- * No. of Horizontal Speed: 12
- * No. of Vertical Speed: 12
- * Horizontal Spindle Speed: 50 to 2020 rpm
- * Vertical Spindle Speed: 56 to 2500rpm
- * Variable Table Feed Speed X: 24 to 1200mm/min
- * Variable Table Feed Speed Y: 24 to 1200mm/min
- * Variable Table Feed Speed Z: 12 to 600 mm/min
- * Table Rapid Feed Speed X: 1.2m/min
- * Table Rapid Feed Speed Y: 1.2m/min
- * Table Rapid Feed Speed Z: 0.6m/min
- * Motor Power: 1.1kw/4kw
- * Machine Weight: 1440kg
- * Overall Size: 1680x1800x2170mm

Order No. 905-0113



MILLING MACHINES

Turrent Milling Machine

- * 55° dovetail Y and Z axis guideways.
- * Strengthening ribs on both sides of the column.

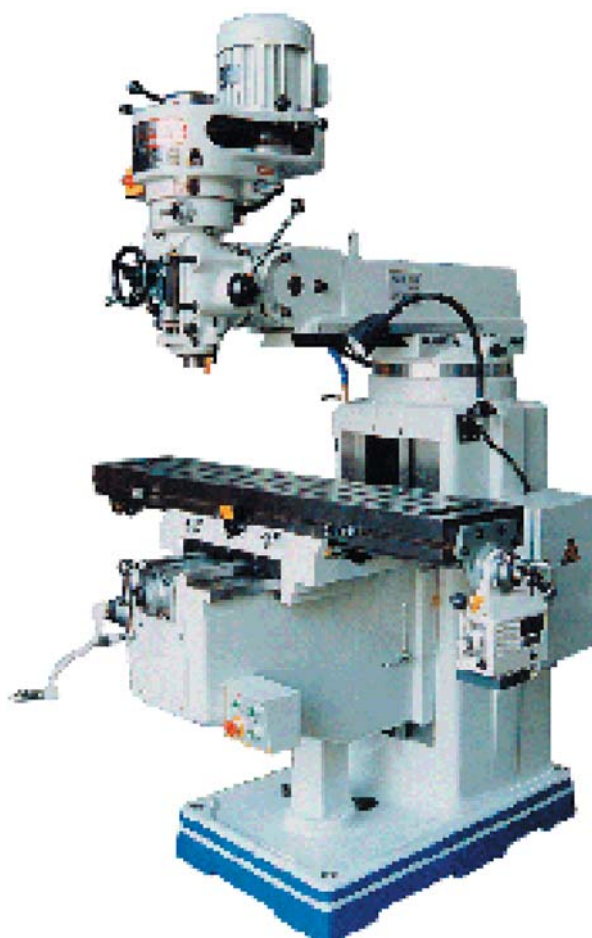
Order No.	905-0001	905-0012
Table Size	230x1067mm	230x1246mm
Longitudinal Travel	650mm	840mm
Table Cross Travel	305mm	
Table Vertical Travel	400mm	
T slot number and size	3X16mm	
Ram Travel	312mm	
Distance between Spindle Nose to Table	0-415mm	
Distance between Spindle center and Column	170-482mm	
Spindle Taper Size	R8 or ISO30, ISO40	
Spindle Travel	127mm	
16 Spindle Speed	65-4500rpm 50HZ or 80-5440rpm 60HZ	
	65-4200rpm variable speed (optional)	
Automatic Quill Feed	0.04mm,0.08mm, 0.15mm	
Motor Power	2.25Kw/3HP	
Head Swivel	90°	
Head Tilting	45°	
Shipping Size	1400x1476x2030mm	
Shipping Weight	1100kg	1160kg



Turrent Milling Machine

- * 55° dovetail Z axis guideway, rectangular Y axis.
- * Strengthening ribs on both sides of the column.

Order No.	905-0002	905-0013
Table Size	230x1067mm	230x1246mm
Longitudinal Travel	650mm	840mm
Table Cross Travel	305mm	
Table Vertical Travel	400mm	
T slot number and size	3X16mm	
Ram Travel	312mm	
Distance between Spindle Nose to Table	0-415mm	
Distance between Spindle center and Column	170-482mm	
Spindle Taper Size	R8 or ISO30, ISO40	
Spindle Travel	127mm	
16 Spindle Speed	65-4500rpm 50HZ or 80-5440rpm 60HZ	
	65-4200rpm variable speed (optional)	
Automatic Quill Feed	0.04mm,0.08mm, 0.15mm	
Motor Power	2.25Kw/3HP	
Head Swivel	90°	
Head Tilting	45°	
Shipping Size	1400x1476x2030mm	
Shipping Weight	1100kg	1160kg



Turrent Milling Machine

- * Rectangular Y and Z axis guideways.
- * The guide ways on saddle are lined with TF wearable materials.

Order No.	905-0003	905-0014
Table Size	254x1270mm	254x1370mm
Longitudinal Travel	850mm	or 950mm
Table Cross Travel	420mm	
Table Vertical Travel	420mm	
T slot number and size	3X16mm	
Ram Travel	470mm	
Distance between Spindle Nose to Table	0-405mm	
Distance between Spindle center and Column	170-482mm	
Spindle Taper Size	R8 or ISO30, ISO40	
Spindle Travel	127mm	
16 Spindle Speed	65-4500rpm 50HZ or 80-5440rpm 60HZ	
	65-4200rpm variable speed (optional)	
Automatic Quill Feed	0.04mm,0.08mm, 0.15mm	
Motor Power	2.25Kw/3HP	
Head Swivel	90°	
Head Tilting	45°	
Shipping Size	1516x1556x2080mm	
Shipping Weight	1550kg	1610kg



Turrent Milling Machine

- * 55° dovetail Y and Z axis guideways.
- * The guide ways on saddle are lined with TF wearable materials.

Order No.	905-0004	905-0015
Table Size	254x1270mm	254x1370mm
Longitudinal Travel	850mm	950mm
Table Cross Travel	420mm	
Table Vertical Travel	420mm	
T slot number and size	3X16mm	
Ram Travel	470mm	
Distance between Spindle Nose to Table	0-405mm	
Distance between Spindle center and Column	170-482mm	
Spindle Taper Size	R8 or ISO30, ISO40	
Spindle Travel	127mm	
16 Spindle Speed	65-4500rpm 50HZ or 80-5440rpm 60HZ	
	65-4200rpm variable speed (optional)	
Automatic Quill Feed	0.04mm,0.08mm, 0.15mm	
Motor Power	2.25Kw/3HP	
Head Swivel	90°	
Head Tilting	45°	
Shipping Size	1516x1556x2080mm	
Shipping Weight	1380kg	1430kg



Turrent Milling Machine with X axis power feed

- * 55° dovetail Y and Z axis guideways.
- * The guide ways on saddle are lined with TF wearable materials.



Order No.	905-0005	905-0016
Table Size	254x1270mm	254x1370mm
Longitudinal Travel	850mm	950mm
Table Cross Travel	420mm	
Table Vertical Travel	420mm	
T slot number and size	3X16mm	
Ram Travel	470mm	
Distance between Spindle Nose to Table	0-405mm	
Distance between Spindle center and Column	170-482mm	
Spindle Taper Size	R8 or ISO30, ISO40	
Spindle Travel	127mm	
16 Spindle Speed	65-4500rpm 50HZ or 80-5440rpm 60HZ	
	65-4200rpm variable speed (optional)	
Automatic Quill Feed	0.04mm,0.08mm, 0.15mm	
Motor Power	2.25Kw/3HP	
Head Swivel	90°	
Head Tilting	45°	
Shipping Size	1516x1556x2080mm	
Shipping Weight	1380kg	1430kg

Universal Knee type Milling Machine



Order No.	905-0150	905-0151
Table surface	300x1150mm	300x1500 mm
Number of T-slots and slot width	3x18 mm	
Distance between T-slots	70 mm	
Max.longitudinal travel	680 mm	780mm
Max.cross travel	235 mm	
Max.vertical travel	400 mm	
Travel of ram	470 mm	
Swivel angle of the milling head	±90°	
Max.rotations angle of table	±45°	
Level spindle taper	ISO40	
Level spindle Grade of speed	12 steps	
Level Spindle Range of speed	35-1600 r/min	
Number of feeds	14 steps	
Longitudinal,cross,Vertical speed range	12-720 mm/min	
Longitudinal,cross,Vertical rapid travel speed	2100 mm/min	
Main drive motor Level spindle	4 kw	
Feed motor	0.75 kw	
Coolant pump	40 w	
Net weight of machine	2150kg	2250kg
Gross weight of machine	2900 kg	2900kg
Overall Dimensions (LxWxH) (MM)	154x170x163	154x194x163

Turrent Milling Machine

- * Stationary milling head structure.
- * Rectangular Y and Z axis guideway.
- * The guide ways on saddle are lined with TF wearable materials

Order No.	905-0006	905-0017
Table Size	254x1270mm	254x1370mm
Longitudinal Travel	850mm	950mm
Table Cross Travel	420mm	
Table Vertical Travel	420mm	
T slot number and size	3X16mm	
Ram Travel	470mm	
Distance between Spindle Nose to Table	0-405mm	
Distance between Spindle center and Column	140-609mm	
Spindle Taper Size	ISO40	
Spindle Travel	127mm	
16 Spindle Speed	65-4500rpm 50HZ or 80-5440rpm 60HZ	
	65-3750rpm variable speed (optional)	
Automatic Quill Feed	0.04mm,0.08mm, 0.15mm	
Motor Power	3.75Kw/5HP	
Head Swivel	90°	
Head Tilting	FIXED	
Shipping Size	1516x1556x2080mm	
Shipping Weight	1590kg	1650kg



Turrent Milling Machine

- * Rectangular Y and Z axis guideways.
- * The guide ways on saddle are lined with TF wearable materials.

Order No.	905-0007	905-0018
Table Size	254x1270mm	254x1370mm
Longitudinal Travel	850mm	950mm
Table Cross Travel	420mm	
Table Vertical Travel	420mm	
T slot number and size	3X16mm	
Ram Travel	470mm	
Distance between Spindle Nose to Table	0-405mm	
Distance between Spindle center and Column	140-609mm	
Spindle Taper Size	ISO40	
Spindle Travel	127mm	
16 Spindle Speed	65-4500rpm 50HZ or 80-5440rpm 60HZ	
	65-4200rpm variable speed (optional)	
Automatic Quill Feed	0.04mm,0.08mm, 0.15mm	
Motor Power	2.25Kw/3HP	
Head Swivel	90°	
Head Tilting	45°	
Shipping Size	1516x1556x2080mm	
Shipping Weight	1590kg	1650kg



Turrent Milling Machine

- * Rectangular Y and Z axis guideways.
- * The guide ways on saddle are lined with TF wearable materials.
- * Lifting Motor

Order No.	905-0008	905-0019
Table Size	305x1370mm	305x1500mm
Longitudinal Travel	870mm	1000mm
Table Cross Travel	380mm	
Table Vertical Travel	430mm	
T slot number and size	3X16mm	
Ram Travel	500mm	
Distance between Spindle Nose to Table	0-350mm	
Distance between Spindle center and Column	108-760mm	
Spindle Taper Size	ISO40	
Spindle Travel	127mm	
16 Spindle Speed	65-4500rpm 50HZ or 80-5440rpm 60HZ	
	65-3750rpm variable speed (optional)	
Automatic Quill Feed	0.04mm,0.08mm, 0.15mm	
Motor Power	3.75kw/5hp	
Head Swivel	90°	
Head Tilting	45°	
Shipping Size	1566x1650x2080mm	
Shipping Weight	1700kg	1760kg



Turrent Milling Machine

- * Rectangular Y and Z axis guideways.
- * The guide ways on saddle are lined with TF wearable materials.
- * Lifting Motor

Order No.	905-0009	905-0021
Table Size	305x1370mm	305x1500mm
Longitudinal Travel	870mm	1000mm
Table Cross Travel	380mm	
Table Vertical Travel	430mm	
T slot number and size	3X16mm	
Ram Travel	500mm	
Distance between Spindle Nose to Table	0-350mm	
Distance between Spindle center and Column	108-760mm	
Spindle Taper Size	ISO40	
Spindle Travel	127mm	
16 Spindle Speed	65-4500rpm 50HZ or 80-5440rpm 60HZ	
	65-3750rpm variable speed (optional)	
Automatic Quill Feed	0.04mm,0.08mm, 0.15mm	
Motor Power	3.75kw/5hp	
Head Swivel	90°	
Head Tilting	Fixed	
Shipping Size	1566x1650x2080mm	
Shipping Weight	1750kg	1810kg



Turrent Milling Machine

- * Super strong saddle
- * Rectangular Y and Z axis guideways.
- * The guide ways on saddle are lined with TF wearable materials.
- * Lifting Motor

Order No.	905-0010	905-0020
Table Size	330x1370mm	330x1500mm
Longitudinal Travel	840mm	1000mm
Table Cross Travel	368mm	
Table Vertical Travel	450mm	
T slot number and size	3X16mm	
Ram Travel	500mm	
Distance between Spindle Nose to Table	0-450mm	
Distance between Spindle center and Column	108-760mm	
Spindle Taper Size	ISO40	
Spindle Travel	127mm	
16 Spindle Speed	65-4500rpm 50HZ or 80-5440rpm 60HZ	
	65-3750rpm variable speed (optional)	
Automatic Quill Feed	0.04mm,0.08mm, 0.15mm	
Motor Power	3.75kw/5hp	
Head Swivel	90°	
Head Tilting	45°	
Shipping Size	1566x1650x2080mm	
Shipping Weight	2300kg	2360kg



Turrent Milling Machine

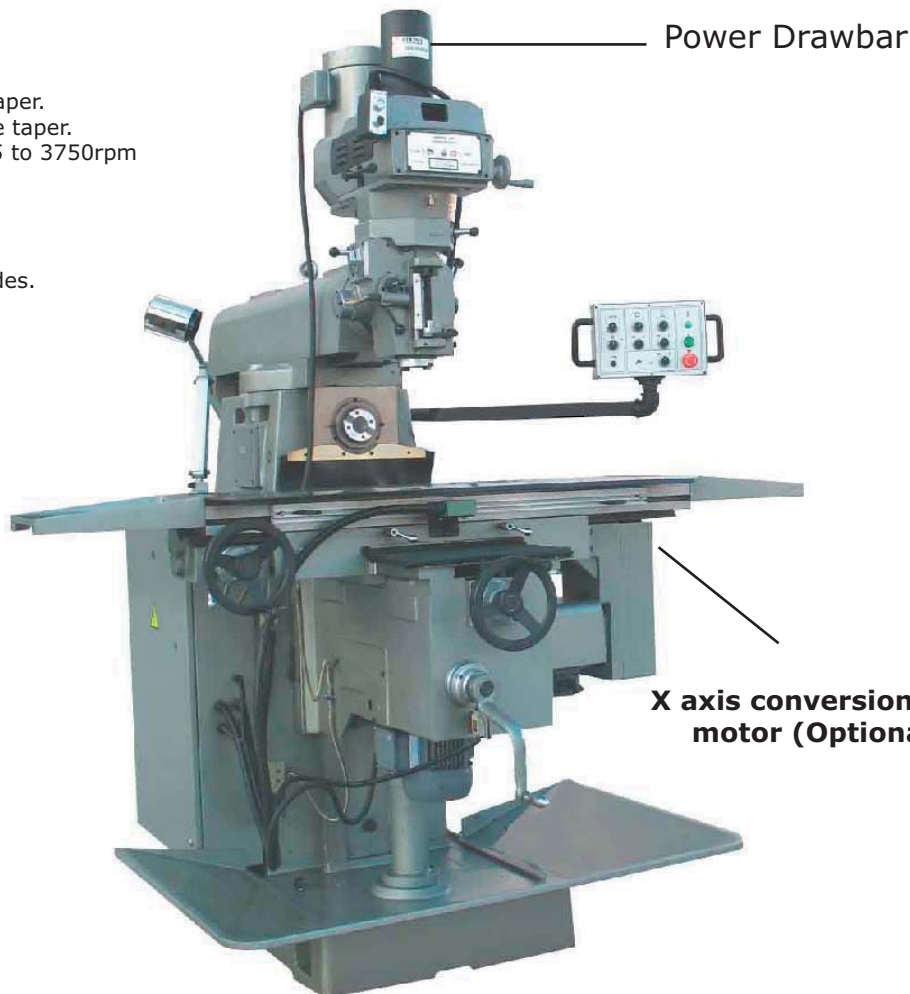
- * Super strong saddle
- * Rectangular Y and Z axis guideways.
- * The guide ways on saddle are lined with TF wearable materials.
- * Lifting Motor

Order No.	905-0011	905-0022
Table Size	330x1370mm	330x1500mm
Longitudinal Travel	840mm	1000mm
Table Cross Travel	368mm	
Table Vertical Travel	450mm	
T slot number and size	3X16mm	
Ram Travel	500mm	
Distance between Spindle Nose to Table	0-450mm	
Distance between Spindle center and Column	108-760mm	
Spindle Taper Size	ISO40	
Spindle Travel	127mm	
16 Spindle Speed	65-4500rpm 50HZ or 80-5440rpm 60HZ	
	65-3750rpm variable speed (optional)	
Automatic Quill Feed	0.04mm,0.08mm, 0.15mm	
Motor Power	3.75kw/5hp	
Head Swivel	90°	
Head Tilting	Fixed	
Shipping Size	1566x1650x2080mm	
Shipping Weight	2300kg	2360kg



Vertical and Horizontal Turrent Milling Machine

- * Large strong saddle.
- * Standard ISO40 vertical spindle taper.
- * Standard ISO40 horizontal spindle taper.
- * Optional variable speed motor: 65 to 3750rpm
- * 900mm/min Knee movement.
- * 5HP Vertical motor
- * 5HP Horizontal motor
- * 1.5HP lifting motor.
- * 90° vertical head rotation both sides.
- * Hang up control panel



Order No.	905-0023	905-0024
Table size	300x1300mm	300x1500mm
Longitudinal travel	845mm	1000mm
Cross travel	385mm	385mm
Knee vertical travel	435mm	
Vertical Quill travel	127mm	
Rapid knee speed	900mm/min	
Vertical Spindle speed	16 steps speed (standard): 65 TO 4500rpm 50HZ 80 to 5440rpm 60HZ. Optional varialbe speed 65 to 3750rpm	
Vertical quill feed speed	0.04/0.08/0.15mm/revolution	
Mill head swivel range	90° both left and right	
Distance between spindle nose to table surface	115-545mm	
Horizontal spindle speed	50HZ: 45,80,165,260,500,980RPM 60HZ: 55,100, 200,315,600,1180RPM	
Distance from horizontal spindle center to table surface	-20-410mm	
Distance from spindle center to ram	183mm	
Ram travel: 480mm	480mm	
Ram rotating	360°	
Machine Weight: 1900kg	1900kg	1950
Shipping Size	180x150x220cm	180x180x220cm

Standard equipment:

- * Electro cabinet and hung up control panel
- * Knee rapid elevating motor
- * Coolant system.
- * Electro lubricate pump
- * Draw bar
- * Oil collecting plate
- * Working lamp
- * Plastic splashing guard
- * Working lamp.

Optional equipment:

- * X/Y axis gear box power feed
- * X/Y axis conversion feed motor (0-3500mm/minute)
- * Air power draw bar
- * Digital readout
- * Machine vise
- * Universal clamping kits (52 pc)

Vertical and Horizontal Turrent Milling Machine Table feed servo motor

- * Large strong saddle.
- * Standard ISO40 vertical spindle taper.
- * Standard ISO40 horizontal spindle taper.
- * Optional variable speed motor: 65 to 3750rpm
- * 900mm/min Knee movement.
- * 5HP Vertical motor
- * 5HP Horizontal motor
- * 1.5HP lifting motor.
- * 90° vertical head rotation both sides.
- * Hang up control panel
- * Table feed servo motor



X axis conversion feed motor (Optional)

Technical Data:

Table size: 300x1300mm
 Longitudinal travel: 845mm
 Cross travel: 385mm
 Knee vertical travel: 435mm
 Longitudinal Table Feed Speed: 0-3500mm/min variable
 Cross Table Feed Speed: 0-3500mm/min variable
 Vertical Quill travel: 127mm
 Rapid knee speed: 900mm/min
 Motor power: 5HP
 Vertical spindle taper: ISO40
 Vertical Spindle speed: 16 steps speed (standard): 65 TO 4500rpm 50HZ
 80 to 5440rpm 60HZ. Optional variable speed 65 to 3750rpm
 Vertical quill feed speed: 0.04/0.08/0.15mm/revolution
 Mill head swivel range: 90° both left and right
 Distance between spindle nose to table surface: 115-545mm
 Horizontal spindle motor power: 5HP
 Horizontal spindle speed: 50HZ: 45,80,165,260,500,980RPM
 60HZ: 55,100,200,315,600,1180RPM
 Horizontal spindle taper: ISO40
 Distance from horizontal spindle center to table surface: -20-410mm
 Distance from spindle center to ram: 183mm
 Ram travel: 480mm
 Ram rotating: 360°
 Machine Weight: 1900kg
 Shipping Size: 180x150x220cm

Standard equipment:

- * Electro cabinet and hung up control panel
- * Knee rapid elevating motor
- * Coolant system.
- * Electro lubricate pump
- * Draw bar
- * Oil collecting plate
- * Working lamp
- * Plastic splashing guard
- * Working lamp.

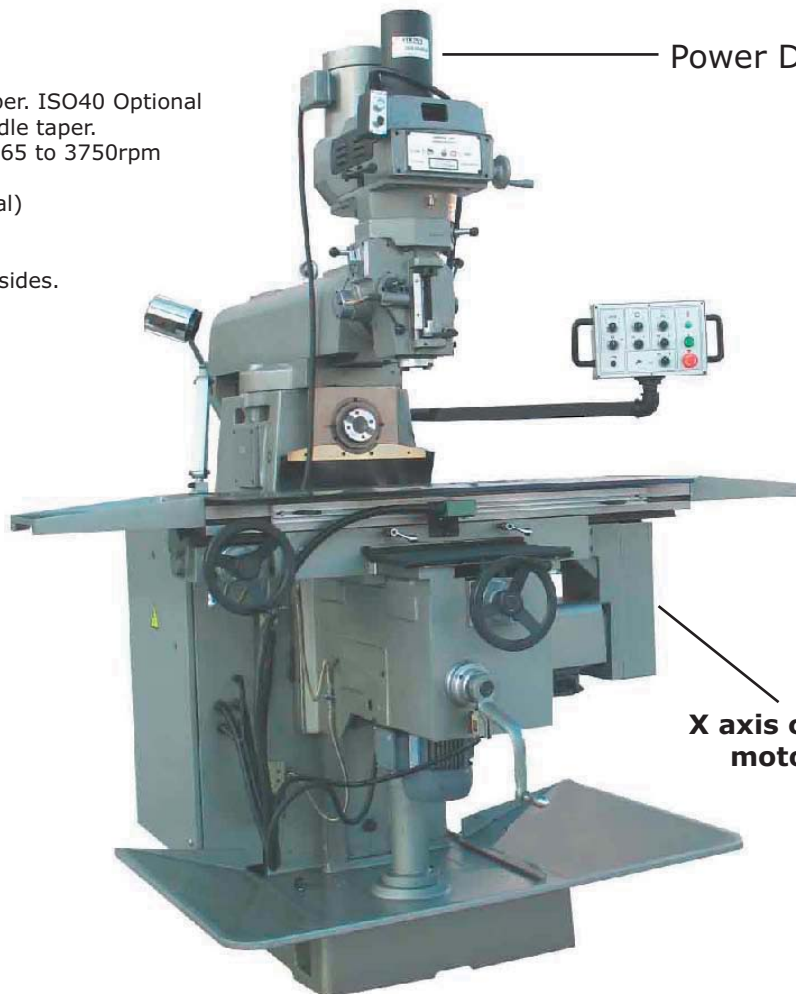
Optional equipment:

- * X/Y axis gear box power feed
- * X/Y axis conversion feed motor (0-3500mm/minute)
- * Air power draw bar
- * Digital readout
- * Machine vise
- * Universal clamping kits (52 pc)

Order No. 905-0025

Vertical and Horizontal Turrent Milling Machine 45° back and forth swivel

- * Large strong saddle.
- * Standard R8 vertical spindle taper. ISO40 Optional
- * Standard ISO40 horizontal spindle taper.
- * Optional variable speed motor: 65 to 3750rpm
- * 900mm/min Knee movement.
- * 3HP Vertical motor (5HP optional)
- * 5HP Horizontal motor
- * 1.5HP lifting motor.
- * 90° vertical head rotation both sides.
- * Hang up control panel
- * 45° back and forth swivel.



Power Drawbar

X axis conversion feed motor (Optional)

Order No.	905-0026	905-0027
Table size	300x1300mm	300x1500mm
Longitudinal travel	845mm	1000mm
Cross travel	385mm	385mm
Knee vertical travel	435mm	
Vertical Quill travel	127mm	
Rapid knee speed	900mm/min	
Vertical Spindle speed	16 steps speed (standard): 65 TO 4500rpm 50HZ 80 to 5440rpm 60HZ. Optional varialbe speed 65 to 3750rpm	
Vertical quill feed speed	0.04/0.08/0.15mm/revolution	
Mill head swivel range	90° both left and right, 45° back and forth	
Distance between spindle nose to table surface	115-545mm	
Horizontal spindle speed	50HZ: 45,80,165,260,500,980RPM 60HZ: 55,100, 200,315,600,1180RPM	
Distance from horizontal spindle center to table surface	-20-410mm	
Distance from spindle center to ram	183mm	
Ram travel: 480mm	480mm	
Ram rotating	360°	
Machine Weight: 1900kg	1680kg	1730
Shipping Size	180x160x220cm	180x180x220cm

Standard equipment:

- * Electro cabinet and hung up control panel
- * Knee rapid elevating motor
- * Coolant system.
- * Electro lubricate pump
- * Draw bar
- * Oil collecting plate
- * Working lamp
- * Plastic splashing guard
- * Working lamp.

Optional equipment:

- * X/Y axis gear box power feed
- * X/Y axis conversion feed motor (0-3500mm/minute)
- * Air power draw bar
- * Digital readout
- * Machine vise
- * Universal clamping kits (52 pc)

Universal Milling Machine

Features:

- * Easy vertical to horizontal conversion.
- * Variable table feed.
- * 45 degree milling head swivel at both sides.
- * Table surface and guideways hardened at ultrasonic frequency.

Specifications:

- * Table Size: 1250x260mm
- * T slot size: 14mm
- * X Travel: 780mm
- * Y Travel: 220mm
- * Spindle Taper: ISO50
- * Distance from horizontal spindle to table surface: 0 to 350mm
- * Distance from Vertical Spindle Nose to Table Surface: 0 to 210mm
- * Distance from vertical spindle axis to column guideway: 310mm
- * Milling Head Swivel Angle: ±45°
- * Quill Stroke: 60mm
- * No. of Horizontal Speed: 12
- * No. of Vertical Speed: 12
- * Horizontal Spindle Speed: 50 to 2020 rpm
- * Vertical Spindle Speed: 50 to 2020rpm
- * Variable Table Feed Speed X: 24 to 1200mm/min
- * Variable Table Feed Speed Y: 24 to 1200mm/min
- * Variable Table Feed Speed Z: 12 to 600 mm/min
- * Table Rapid Feed Speed X: 1.2m/min
- * Table Rapid Feed Speed Y: 12m/min
- * Table Rapid Feed Speed Z: 0.6 m/min
- * Motor Power: 4kw
- * Machine Weight: 1390kg
- * Overall Size: 1080x1800x1640mm



Order No. 905-0114

Universal Swivel Head Milling Drilling Machine



Order No. 905-0115

Features:

- * Milling head swivel for horizontal milling.
- * Automatic X, Y axis table feed and motor-driven Z axis table lifting.
- * Table surface and guideways hardened at ultrasonic frequency.

Technical Data:

- Table Size: 1120x260mm
- T slot size: 14mm
- X Travel: 600mm
- Y Travel: 270mm
- Max. Facing Milling Capacity: 125mm
- Max. End Milling Capacity 25mm
- Distance from spindle nose to table surface: 100 to 480mm
- Milling Head Swivel Angle: 360 degree
- Spindle No. ISO40
- Spindle Speed Range: 45 to 1660rpm
- Motor Power: 2.2kw
- Machine Weight: 1480kg/1680kg
- Overall Size: 1655x1500x1730mm

Standard Kits

- Milling Chuck: 1set
- Allen wrench 5mm,6mm,8mm,10mm,12mm: 1pcs each
- Milling Arbor: ISO40/32: 1pcs
- Nut and washer M16,16: 4pcs each
- Cutter Arbor: 1 set
- Leader: 1pcs
- Support: 1pcc
- Open end wrench: 8/10mm, 16/18mm, 21/24mm: 1pcs each
- Drawbar: 1pcs
- Milling Machine Vise 160mm: 1pcs
- Foundation bolts M16: 4pcs
- Screws M12x30: 4pcs
- Operation manual
- Accuracy test list

Universal Swivel Head Milling Drilling Machine



* Built-in X, Y axis power feed.

Specifications:

Table Size: 1120x260mm
T slot size: 14mm
X Travel: 600mm
Y Travel: 270mm
Max. Facing Milling Capacity: 125mm
Max. End Milling Capacity: 25mm
Distance from spindle nose to table surface: 100 to 500mm
Milling Head Swivel Angle: 360 degree
Spindle NO. ISO40
Spindle Speed Range: 45 to 1660rpm
Motor Power: 2.2kw
Machine Weight: 1400kg/1600kg
Overall Size: 1655x1500x1730mm

Standard Kits

Milling Chuck: 1set
Allen wrench 5mm,6mm,8mm,10mm,12mm: 1pcs each
Milling Arbor: ISO40/32: 1pcs
Nut and washer M16,16: 4pcs each
Cutter Arbor: 1 set
Leader: 1pcs
Support: 1pc
Open end wrench: 8/10mm, 16/18mm, 21/24mm: 1pcs each
Drawbar: 1pcs
Milling Machine Vise 160mm: 1pcs
Foundation bolts M16: 4pcs
Screws M12x30: 4pcs
Operation manual
Accuracy test list

Order No. 905-0116

Universal Swivel Head Milling Drilling Machine



* Automatic X axis power feed.

Specifications:

Table Size: 1120x260mm
T slot size: 14mm
X Travel: 600mm
Y Travel: 300mm
Max. Facing Milling Capacity: 125mm
Max. End Milling Capacity: 25mm
Distance from spindle nose to table surface: 100 to 500mm
Milling Head Swivel Angle: 360 degree
Spindle No. ISO40
Spindle Speed Range: 45 to 1660rpm
Motor Power: 2.2kw
Machine Weight: 1360kg
Overall Size: 1655x1325x1730mm

Standard Kits

Built-in standard mechanical X axis powerfeed.
Milling Chuck: 1set
Allen wrench 5mm,6mm,8mm,10mm,12mm: 1pcs each
Milling Arbor: ISO40/32: 1pcs
Nut and washer M16,16: 4pcs each
Cutter Arbor: 1 set
Leader: 1pcs
Support: 1pc
Open end wrench: 8/10mm, 16/18mm, 21/24mm: 1pcs each
Drawbar: 1pcs
Milling Machine Vise 160mm: 1pcs
Foundation bolts M16: 4pcs
Screws M12x30: 4pcs
Operation manual
Accuracy test list

Order No. 905-0117

Bed-type Milling Machine

Features:

- * Variable spindle speed.
- * Milling head swivel $\pm 30^\circ$.
- * High rigidity cast iron construction.
- * Hardened and ground table surface.
- * Heavily ribbed base, saddle and column.
- * Rectangular X, Y guideways.

Technical Data:

- * Table Size: 1400x400mm
- * T slot size: 18mm
- * X Travel: 800mm
- * Y Travel: 400mm
- * Quill Travel: 100mm
- * Distance from Spindle Nose to Table: 150mm to 650mm
- * Distance between spindle axis to vertical guideway: 520mm
- * Spindle Taper: ISO50
- * Spindle Speed: 40 to 180rpm
- * Max. Rapid Feed Speed: 36000mm/min
- * Motor Power: 7.5KW
- * Machine Weight: 3860kg
- * Overall Size: 2290x1770x2120mm

Order No. 905-0107



Universal Radial Milling Machine

- * Taiwan high speed milling head.
- * Built-in gear driven X, Y, Z axis power feed system.
- * Motorized up and down movement of table.

Technical Data:

- Table Size: 1120x260mm
- T slot size: 14mm
- X Travel: 600mm
- Y Travel: 270mm
- Max. Drilling Capacity (Manual) 28mm
- Max. Drilling Capacity (Powerfeed): 10mm (Cast Iron)
- Max. End Mill Capacity: 20mm
- Distance from spindle nose to table surface: 90 to 430mm
- Distance from spindle axis to column surface: 50 to 550mm
- Spindle speed: 80 to 5440 rpm (Vertical), 38 to 1310rpm (Horizontal)
- Spindle No. ISO30
- Spindle Travel: 127mm
- Motor Power: 3kw
- Weight: 1580kg/1680kg
- Overall Size: 1710x1480x2100mm

Order No. 905-0119



Milling and Drilling Machine

Specifications:

Max. Drilling Capacity: 50mm
Max. Face Milling Capacity: 100mm
Max. End Milling Capacity: 25mm
Max. Tapping Capacity: M16
Table Size: 800x240mm
T slot size: 14mm
X Travel: 400mm
Y Travel: 215mm
Spindle Travel: 120mm
Spindle No. ISO30
Distance from Spindle Nose to Table Surface: 50mm to 410mm
Spindle Speed: 110 to 1760 rpm
Motor Power: 0.85/1.5kw
Machine Weight: 500kg
Overall Size: 1270x950x1800mm



Order No. 905-0127

DRILLING MACHINE

Specifications

Max.drilling capacity: 16mm
Max.spindle traverse: 80mm
Taper of spindle hole: MT2
Spindle speed: 100-1800r/min
Distance from spindle axis to column surface: 220mm
Max..distance from spindle nose to worktable: 310mm
Max..distance from spindle nose to base surface: 580mm
Dimension of worktable surface: 280 × 320mm
Dimension of column: 75mm
Overall height: 1000mm
Motor Output power: 1000W
Worktable 't' slot size: 12mm
Net weight: 136kg
Gross weight: 170kg
Overall dimension: 556 × 362 × 1000mm
Packing size: 680 × 500 × 1075mm



Order No.800-1332

Universal Milling Drilling Machine

Features:

- * Automatic spindle feed.
- * Table surface and guilds hardened at ultrasonic frequency
- * X axis mechanical powerfeed

Specifications:

- * Max. Drilling Capacity: 40mm
- * Max. Facing Milling Capacity: 125mm
- * Max. End Milling Capacity: 25mm
- * Max. Tapping Capacity: M16
- * Table Size: 1120x260mm
- * T slot size: 14mm
- * X Travel: 600mm
- * Y Travel: 300mm
- * Spindle No. ISO40
- * Spindle Travel: 120mm
- * Distance from Spindle Nose to Table Surface: 80mm to 460mm
- * Vertical Spindle Speed: 67 to 2010 rpm
- * Horizontal Spindle Speed: 38 to 1310rpm
- * Automatic Spindle Feed Speed X: 0.1mm per min
- * Automatic Spindle Feed Speed Y: 0.15mm per min
- * Automatic Spindle Feed Speed Z: 0.3mm
- * Motor Power: 1.5/2.2KW, 2.2KW
- * Machine Weight: 1350kg
- * Overall Size: 1580x1450x2150mm

Order No. 905-0120



Milling and Drilling Machine

Features:

- * High rigidity rectangular table guideways.
- * Automatic X, Y axis power feed.
- * Motor-driven drill press head height adjustment.
- * $\pm 45^\circ$ drill press head swivel.
- * Table surface and guilds hardened at ultrasonic frequency

Specifications:

- * Max. Drilling Capacity: 50mm
- * Max. Automatic Feed Drilling Capacity: 14mm (Cast Iron)
- * Table Size: 1320x320mm
- * T slot size: 14mm
- * X Travel: 800mm
- * Y Travel: 300mm
- * Spindle No. ISO40
- * Spindle Travel: 120mm
- * Distance from Spindle Nose to Table Surface: 180mm to 580mm
- * Distance between Spindle Axis and Column Surface: 200-780mm
- * Vertical Spindle Speed: 90 to 2000 rpm
- * Horizontal Spindle Speed: 38 to 1310rpm
- * Motor Power: 2.2KW
- * Machine Weight: 2000kg
- * Overall Size: 1710x1720x2330mm

Order No. 905-0118



Milling and Drilling Machine

Features:

- * High rigidity rectangular table guideways.
- * Automatic spindle feeding.
- * Motorized drill press head movement.
- * $\pm 45^\circ$ drill press head swivel.
- * Table surface and guilds hardened at ultrasonic frequency
- * X and Y axis mechanical powerfeed.

Technical Data:

- Drilling Capacity 50mm
- Max. Face Milling Capacity 125mm
- Max. End Milling Capacity 32mm
- Table Size 1220x360mm
- T slot size: 14mm
- X Travel: 600mm
- Y Travel: 360mm
- Spindle Travel: 180mm
- Distance from Spindle Nose to Table Surface: 50mm to 580mm
- Spindle Taper ISO40
- No. of Spindle Speed 16
- Spindle Speed: 94 to 2256rpm
- Automatic Spindle Feeds: 0.1mm,0.15mm,0.3mm
- Motor Power 1.5/2.4KW
- Machine Weight 2000kg/2150kg
- Overall Size 1730x1730x2300mm

Order No. 905-0108



Milling and Drilling Machine

**Features:**

- * Automatic spindle feed.
- * Table surface and guilds hardened at ultrasonic frequency
- * X axis mechanical powerfeed

Specifications:

- * Max. Drilling Capacity: 50mm
- * Max. Automatic Feed Drilling Capacity: 14mm (Cast Iron)
- * Max. End Milling Capacity: 25mm
- * Table Size: 1120x260mm
- * T slot size: 14mm
- * X Travel: 600mm
- * Y Travel: 300mm
- * Spindle No. ISO40
- * Spindle Travel: 120mm
- * Distance from Spindle Nose to Table Surface: 100mm to 430mm
- * Vertical Spindle Speed: 90 to 2000 rpm
- * Horizontal Spindle Speed: 38 to 1310rpm
- * Motor Power: 2.2KW
- * Machine Weight: 1350kg
- * Overall Size: 1520x1280x2150mm

Order No. 905-0121

Milling and Drilling Machine with Optional DRO

Features:

- * Table surface and guilds hardened at ultrasonic frequency
- * X axis mechanical powerfeed
- * Optional 2 axis or 3 axis DRO
- * Optional Y axis electrical powerfeed

Specifications:

- * Max. Drilling Capacity: 50mm
- * Max. Face Milling Capacity: 100mm
- * Max. End Milling Capacity: 25mm
- * Max. Tapping Capacity: M16
- * Table Size: 1120x280mm
- * T slot size: 14mm
- * X Travel: 600mm
- * Y Travel: 230mm
- * Spindle No. ISO30
- * Spindle Travel: 120mm
- * Distance from Spindle Nose to Table Surface: 90mm to 400mm
- * Vertical Spindle Speed: 110 to 1760 rpm
- * Horizontal Spindle Speed: 38 to 1310rpm
- * Motor Power: 0.85/1.5 V, 2.2KW H
- * Machine Weight: 1350kg
- * Overall Size: 1520x1280x2150mm

Order No. 905-0122



Milling and Drilling Machine With Optional DRO

Features:

- * Table surface and guilds hardened at ultrasonic frequency
- * Optional X axis mechanical powerfeed
- * Optional Y axis electrical powerfeed
- * Optional 2 axis or 3 axis DRO

Specifications:

- * Max. Drilling Capacity: 50mm
- * Max. Face Milling Capacity: 100mm
- * Max. End Milling Capacity: 25mm
- * Max. Tapping Capacity: M16
- * Table Size: 800x240mm
- * X Travel: 400mm
- * Y Travel: 230mm
- * T slot size: 14mm
- * Spindle Travel: 120mm
- * Spindle No. ISO30
- * Distance from Spindle Nose to Table Surface: 60mm to 440mm
- * Vertical Spindle Speed: 110 to 1760 rpm
- * Horizontal Spindle Speed: 58 to 1355rpm
- * Motor Power: 0.85KW Vertical, 1.5KW Horizontal
- * Machine Weight: 970kg
- * Overall Size: 1290x1220x2100mm

Order No. 905-0123



* Optional power feed.

Milling and Drilling Machine

Features:

- * Built-in gear driven X, Y axis powerfeed
- * Table surface and guideways hardened at ultrasonic frequency and

Specifications:

- * Max. Drilling Capacity: 50mm
- * Max. Face Milling Capacity: 100mm
- * Max. End Milling Capacity: 25mm
- * Max. Tapping Capacity: M16
- * Table Size: 1120x260mm
- * T slot size: 14mm
- * X Travel: 600mm
- * Y Travel: 270mm
- * Spindle Travel: 120mm
- * Spindle No. ISO40
- * Distance from Spindle Nose to Table Surface: 100mm to 460mm
- * Vertical Spindle Speed: 115 to 1750 rpm
- * Horizontal Spindle Speed: 38 to 1310rpm
- * Motor Power: 0.85/1.5 V, 2.2KW H
- * Machine Weight: 1600kg
- * Overall Size: 1655x1450x2150mm

Order No. 905-0124



Milling and Drilling Machine

Features:

- * Mechanical X axis powerfeed
- * Table surface and guideways hardened at ultrasonic frequency and ground

Specifications:

- * Max. Drilling Capacity: 50mm
- * Max. Face Milling Capacity: 100mm
- * Max. End Milling Capacity: 25mm
- * Max. Tapping Capacity: M16
- * Table Size: 1120x280mm
- * T slot size: 14mm
- * X Travel: 600mm
- * Y Travel: 230mm
- * Spindle Travel: 120mm
- * Spindle NO. ISO30
- * Distance from Spindle Nose to Table Surface: 90mm to 400mm
- * Vertical Spindle Speed: 110 to 1760 rpm
- * Horizontal Spindle Speed: 38 to 1310rpm
- * Motor Power: 0.85/1.5 V, 2.2KW H
- * Machine Weight: 1500kg
- * Overall Size: 1580x1330x2250mm

Order No. 905-0125



Milling and Drilling Machine

Specifications:

- * Max. Drilling Capacity: 50mm
- * Max. Face Milling Capacity: 100mm
- * Max. End Milling Capacity: 25mm
- * Max. Tapping Capacity: M16
- * Table Size: 800x240mm
- * T slot size: 14mm
- * X Travel: 400mm
- * Y Travel: 230mm
- * Spindle Travel: 120mm
- * Spindle No. ISO30
- * Distance from Spindle Nose to Table Surface: 70mm to 420mm
- * Spindle Speed: 110 to 1760 rpm
- * Motor Power: 0.85/1.5kw
- * Machine Weight: 610kg
- * Overall Size: 1290x1140x2100mm

Order No. 905-0126



*** Optional power feed**

Milling and Drilling Machine

The milling and drilling machines come with flat columns, power feeding spindle, gear drive power, rotating milling head. Spindle rotating speeds and feeding speeds can be changed circularly.



Order No.	900-0345	900-0340	900-0332
Max. Drilling Capacity	45mm	40mm	32mm
Max. Boring Capacity	70mm	60mm	50mm
Max. Face milling capacity	80mm	80mm	63mm
Max. Endmilling capacity	32mm	32mm	20mm
Max. Spindle to Table Distance	450mm	450mm	450mm
Spindle Center to Support Column	260mm	260mm	260mm
Spindle travel	130mm	130mm	130mm
Spindle taper	M.T.4 or R8	M.T.4 or R8	M.T.3 or R8
Number of spindle speed	6	6	6
Spindle speed range 50HZ	80-1250r.p.m.	80-1250r.p.m.	80-1250r.p.m.
Spindle speed range 60HZ	95-1500r.p.m.	95-1500r.p.m.	95-1500r.p.m.
Number of feed speed	6	6	6
Spindle powerfeeding speed range	0.06-0.30mm/r	0.06-0.30mm/r	0.06-0.30mm/r
Head Rotation	±90°	±90°	±90°
Table Size	800x240 or 700x240mm		
Y-Axis Travel	175mm	175mm	175mm
X-Axis Travel	500mm or 400mm		
Motor	1.1Kw(1.5Hp)	1.1Kw(1.5Hp)	0.75Kw(1Hp)
Voltage/Frequency	As per Customer's Specification		
Overall height(Without stand)	1020mm	1020mm	1020mm
Net weight	325kg	323kg	320kg
Gross weight	375kg	375kg	370kg
Packing Size (700x240mm table)	880x770x1140mm		
Packing Size (800x240mm table)	1030x832x1140mm		
20FT container load (800 x 240mm Table)	28pcs	28pcs	28pcs
20FT container load (700 x 240mm Table)	36pcs	36pcs	36pcs

Milling and Drilling Machine

The milling and drilling machines come with flat columns, power feeding spindle, gear drive power, rotating milling head. Spindle rotating speeds and feeding speeds can be changed circularly.

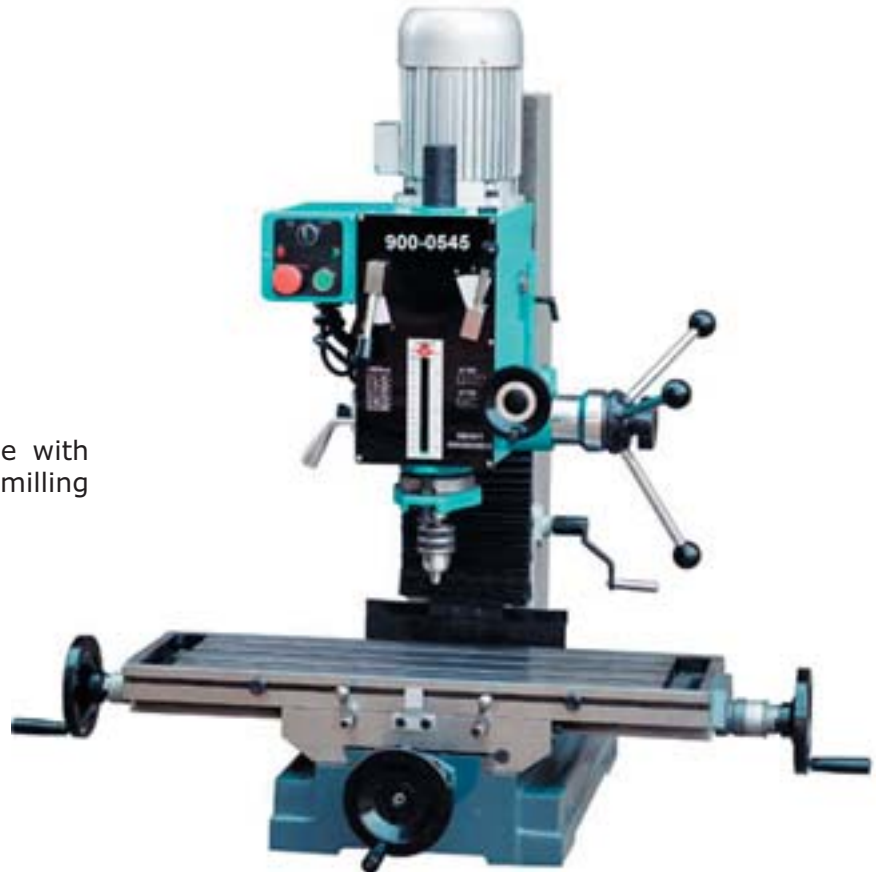
- Cyclic spindle speed change
- Z-axis power feed and circular spindle feeding speed change
- Headstock power feed travel
- Headstock 180°rotation.
- X-axis power feed



Order No.	900-0445	900-0440	900-0432
Max. Drilling Capacity	45mm	40mm	32mm
Max. Boring Capacity	70mm	60mm	50mm
Max. Face milling capacity	80mm	80mm	63mm
Max. Endmilling capacity	32mm	32mm	20mm
Max. Spindle to Table Distance	450mm	450mm	450mm
Spindle Center to Support Column	260mm	260mm	260mm
Spindle travel	130mm	130mm	130mm
Spindle taper	M.T.4 or R8	M.T.4 or R8	M.T.3 or R8
Number of spindle speed	6	6	6
Spindle speed range 50HZ	80-1250r.p.m.	80-1250r.p.m.	80-1250r.p.m.
Spindle speed range 60HZ	95-1500r.p.m.	95-1500r.p.m.	95-1500r.p.m.
Number of spindle feed speed	6	6	6
Spindle powerfeeding speed range	0.06-0.30mm/r	0.06-0.30mm/r	0.06-0.30mm/r
Head Rotation	±90°	±90°	±90°
Automatic headstock travel speed	240mm/min.	240mm/min.	240mm/min.
X-Axis powerfeed	variable speed	variable speed	variable speed
Table Size	800x240 or 700x240mm		
Y-Axis Travel	175mm	175mm	175mm
X-Axis Travel	500mm;400mm	500mm;400mm	500mm;400mm
Power	1.5KW or 2HP	1.5KW or 2HP	1.5KW or 2HP
Voltage/Frequency	As Per Customer's Specification		
Overall height(Without stand)	1020mm	1020mm	1020mm
Net weight	325kg	323kg	320kg
Gross weight	375kg	375kg	370kg
Packing Size (700x240mm table)	880x770x1140mm		
Packing Size (800x240mm table)	1030x832x1140mm		
20FT container load (800 x 240mm Table)	28pcs	28pcs	28pcs
20FT container load (700 x 240mm Table)	36pcs	36pcs	36pcs

Milling and Drilling Machine

The milling and drilling machines come with flat columns, gear drive power, rotating milling head.



Order No.	900-0545	900-0540	900-0532
Max. Drilling Capacity	45mm	40mm	32mm
Max. Face milling capacity	80mm	80mm	63mm
Max. Endmilling capacity	32mm	32mm	20mm
Max. Spindle to Table Distance	450mm	450mm	450mm
Spindle Center to Support Column	260mm	260mm	260mm
Spindle travel	130mm	130mm	130mm
Spindle taper	M.T.4 or R8	M.T.4 or R8	M.T.3 or R8
Number of spindle speed	6	6	6
Spindle speed range 50HZ	80-1250r.p.m.	80-1250r.p.m.	80-1250r.p.m.
Spindle speed range 60HZ	95-1500r.p.m.	95-1500r.p.m.	95-1500r.p.m.
Head Rotation	±90°	±90°	±90°
Table Size	800x240 or 700x240mm		
Y-Axis Travel	175mm	175mm	175mm
X-Axis Travel	500mm or 400mm		
Power	1.5KW or 2HP	1KW or 1.5HP	1KW or 0.75HP
Voltage/Frequency	As Per Customer's Specification		
Overall height(Without stand)	1020mm	1020mm	1020mm
Net weight	325kg	323kg	320kg
Gross weight	375kg	375kg	370kg
Packing Size (700x240mm table)	880x770x1140mm		
Packing Size (800x240mm table)	1030x832x1140mm		
20FT container load (800 x 240mm Table)	28pcs	28pcs	28pcs
20FT container load (700 x 240mm Table)	36pcs	36pcs	36pcs

Milling and Drilling Machine

The milling and drilling machines come with flat columns, gear drive power, rotating milling head. Spindle rotating speeds and feeding speeds can be changed circularly.

- AC or DC variable speed control.
- More cutting power and torque at lower speed
- Headstock power feed travel
- Headstock 180°rotation.
- X-axis power feed



Order No.	900-0645	900-0640	900-0632
Max. Drilling Capacity	45mm	40mm	32mm
Max. Face milling capacity	80mm	80mm	63mm
Max. Endmilling capacity	32mm	32mm	20mm
Max. Spindle to Table Distance	450mm	450mm	450mm
Spindle Center to Support Column	285mm	285mm	285mm
Spindle travel	130mm	130mm	130mm
Spindle taper	M.T.4 or R8	M.T.4 or R8	M.T.3 or R8
Spindle speed (AC motor 2 speeds)	100~1500rpm/500~3000rpm		
Spindle speed (DC motor 2 speed)	0~750rpm/800~2200rpm		
Head Rotation	±90°	±90°	±90°
Automatic headstock travel speed	240mm/min.	240mm/min.	240mm/min.
X-Axis powerfeed	variable speed	variable speed	variable speed
Table Size	800x240 or 700x240mm		
Y-Axis Travel	175mm	175mm	175mm
X-Axis Travel	500mm;400mm	500mm;400mm	500mm;400mm
Motor (AC or DC)	1.5KW or 2HP	1.5KW or 2HP	1.5KW or 2HP
Voltage (Single phase or three phase)	110V or 220V	110V or 220V	110V or 220V
Overall height(Without stand)	1020mm	1020mm	1020mm
Net weight	325kg	323kg	320kg
Gross weight	375kg	375kg	370kg
Packing Size (700x240mm table)	880x770x1140mm		
Packing Size (800x240mm table)	1030x832x1140mm		
20FT container load (800 x 240mm Table)	28pcs	28pcs	28pcs
20FT container load (700 x 240mm Table)	36pcs	36pcs	36pcs

Milling and Drilling Machine

The milling and drilling machines come with flat columns, gear drive power, rotating milling head.

- AC or DC variable speed control.
- More cutting power and torque at lower speed
- Headstock 180° rotation.



Order No.	900-0745	900-0740	900-0732
Max. Drilling Capacity	45mm	40mm	32mm
Max. Face milling capacity	80mm	80mm	63mm
Max. Endmilling capacity	32mm	32mm	20mm
Max. Spindle to Table Distance	450mm	450mm	450mm
Spindle Center to Support Column	285mm	285mm	285mm
Spindle travel	130mm	130mm	130mm
Spindle taper	M.T.4 or R8	M.T.4 or R8	M.T.3 or R8
Spindle speed (AC motor 2 speed)	100~1500rpm/500~3000rpm		
Spindle speed (DC motor 2 speed)	0~750rpm/800~2200rpm		
Head Rotation	±90°	±90°	±90°
Table Size	800x240mm or 700x240mm		
Y-Axis Travel	175mm	175mm	175mm
X-Axis Travel	500mm;400mm	500mm;400mm	500mm;400mm
Motor (AC)	1.5KW or 2HP	1.5KW or 2HP	1.1KW or 1.5HP
Motor (DC)	1.8KW or 2.4HP	1.5KW or 2HP	1.1KW or 1.1HP
Voltage (Single phase)	110V or 220V	110V or 220V	110V or 220V
Overall height(Without stand)	1020mm	1020mm	1020mm
Net weight	310kg	310kg	300kg
Gross weight	360kg	360kg	350kg
Packing Size (700x240mm table)	880x770x1140mm		
Packing Size (800x240mm table)	1030x832x1140mm		
20FT container load (800 x 240mm Table)	28pcs	28pcs	28pcs
20FT container load (700 x 240mm Table)	36pcs	36pcs	36pcs

Milling and Drilling Machine

The milling and drilling machines come with round columns, gear drive power, rotating milling head.

- * Millhead horizontal 360° rotation
- * Millhead vertical 180° rotation.
- * Optional X-axis power feed



Order No.	900-0145	900-0140	900-0132	900-0120
Max. Drilling Capacity	45mm	40mm	32mm	14mm
Max. Face milling capacity	80mm	80mm	63mm	63mm
Max. Endmilling capacity	32mm	32mm	20mm	20mm
Max. Spindle to Table Distance	440mm/680mm	440mm/680mm	440mm/680mm	350mm
Spindle Center to Support Column	272.5mm	272.5mm	272.5mm	175mm
Spindle travel	130mm	130mm	130mm	130mm
Spindle taper	M.T.4 or R8	M.T.4 or R8	M.T.3 or R8	M.T.3
Spindle speed range (50HZ)	80~1250rpm	80~1250rpm	80~1250rpm	80~1250rpm
Spindle speed range (60HZ)	95~1500rpm	95~1500rpm	95~1500rpm	95~1500rpm
Headstock swing diameter	680mm	680mm	680mm	680mm
Head Rotation (Horizontal)	360°	360°	360°	360°
Head Rotation (Vertical)	±90°	±90°	±90°	±90°
Table Size	800x240 or 700x240mm			585x190mm
Y-Axis Travel	175mm	175mm	175mm	150mm
X-Axis Travel	500mm or 400mm			380mm
Motor (AC)	1.5KW or 2HP	1.1KW or 1.5HP	0.75KW or 1HP	0.75KW or 1HP
Voltage and Frequency	As per Customer's Specification			
Overall height(Without stand)	1060mm or 1300mm			1060mm
Net weight	320kg	318kg	315kg	300kg
Gross weight	370kg	368kg	365kg	350kg
Packing Size (700x240mm table, 1060mm)	880x770x1140mm			880x770x1140mm
Packing Size (700x240mm table 1300mm)	880x770x1400mm			
Packing Size (800x240mm table,1060mm)	1030x832x1140mm			1030x832x1140mm
Packing Size (800x240mm table,1300mm)	1030x832x1400mm			
20FT container load (1300mm height)	18pcs	18pcs	18pcs	
20FT container load (1060mm height)	36pcs	36pcs	36pcs	36pcs

Milling and Drilling Machine

The milling and drilling machines come with round columns, gear drive power, rotating milling head.

- AC or DC variable speed control.
- More cutting power and torque at lower speed
- Headstock 180° vertical rotation.



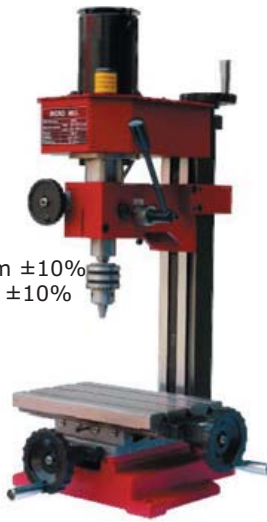
Order No.	900-0845	900-0840	900-0832
Max. Drilling Capacity	45mm	40mm	32mm
Max. Face milling capacity	80mm	80mm	63mm
Max. Endmilling capacity	32mm	32mm	20mm
Max. Spindle to Table Distance	450mm (500mm)	450mm (500mm)	450mm (500mm)
Spindle Center to Support Column	285mm	285mm	285mm
Spindle travel	130mm	130mm	130mm
Spindle taper	M.T.4 or R8	M.T.4 or R8	M.T.3 or R8
Spindle speed (AC motor 2 speeds)	100~1500/500~3000rpm		
Spindle speed (DC motor 2 speeds)	0~750/800~2200rpm		
Head Rotation (Vertical)	±90°	±90°	±90°
Head Rotation (Horizontal)	360°	360°	360°
Table Size	800x240mm or 700x240mm		
Y-Axis Travel	175mm	175mm	175mm
X-Axis Travel	500mm;400mm	500mm;400mm	500mm;400mm
Motor (AC)	1.5KW or 2HP	1.5KW or 2HP	1.1KW or 1.5HP
Motor (DC)	1.8KW or 2.4HP	1.5KW or 2HP	1.2KW or 1.6HP
Voltage (Single phase)	110V or 220V	110V or 220V	110V or 220V
Overall height(Without stand)	1060mm or 1300mm	1060mm or 1300mm	1060mm or 1300mm
Net weight	310kg	305kg	300kg
Gross weight	360kg	355kg	350kg
Packing Size	880x770x1140mm or 880x770x1060mm for 700x240mm table		
Packing Size	1030x832x1300mm or 1030x832x1140mm for 700x240mm table		
Packing Size (800x240mm table,1060mm)	880x770x1400mm or		
Packing Size (800x240mm table,1300mm)	1030x832x1400mm		
20FT container load (1300mm height)	28pcs	28pcs	28pcs
20FT container load (1060mm height)	36pcs	36pcs	36pcs

Milling and Drilling machine

MICRO MILL

Specifications

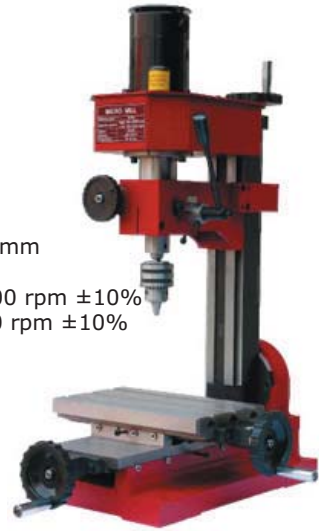
Drilling capacity: 10 mm
 End mill capacity: 10 mm
 Face mill capacity: 16 mm
 Throat: 140 mm
 Max.distance spindle to table: 220 mm
 Spindle taper: MT2
 Spindle speed: High range 100-2000 rpm $\pm 10\%$
 low range 100-1000 rpm $\pm 10\%$
 Table effective size: 240x145 mm
 T-slot size: 8 mm
 Headstock travel: 230mm
 Table cross travel: 90 mm
 Table longitudinal travel: 180 mm
 Motor output power 150 W
 Overall dimension(LxWxH) 425x350x690
 Weight(net/gross) 32/44kg
 Packing size(LxWxH) 420x395x625 mm



MICRO MILL (Tilting Head)

Specifications

Drilling capacity: 10 mm
 End mill capacity: 10 mm
 Face mill capacity: 16 mm
 Throat: 140 mm
 Max.distance spindle to table: 220 mm
 Spindle taper: MT2
 Spindle speed: High range 100-2000 rpm $\pm 10\%$
 low range 100-1000 rpm $\pm 10\%$
 Head tilt: -45° - $+45^{\circ}$
 Table effective size 240x145 mm
 T-slot size: 8 mm
 Headstock travel: 230mm
 Table cross travel: 130 mm
 Table longitudinal travel: 180 mm
 Motor output power: 150 W
 Weight(net/gross): 40/56kg
 Packing size(LxWxH): 530x400x630 mm



Standard Attachment

Dia.10mm Drill chuck
 Wrench set Oil can

Order No.900-0001

Standard Attachment

Dia.10mm Drill chuck
 Wrench set Oil can

Order No.900-0002

MICRO MILL

Features

Digital depth readout
 Feeding depth set up
 Variable speed
 Fine feeding
 High accurate

Specifications

Drilling capacity: 6 mm
 End milling capacity: 6 mm
 Spindle stroke: 40 mm
 Headstock travel(Z): 200 mm
 Spindle taper: B10 OR JT1
 Motor output power: 150 W
 Spindle speed: High range 100-5000 rpm $\pm 10\%$
 low range 100-3600 rpm $\pm 10\%$
 Weight(net/gross): 17/22 kg
 Packing size(LxWxH): 520x400x270mm

Standard Attachment

Dia.6mm Drill chuck
 Screw driver
 Wrench set



Order No.900-0000

HACK SAW

Specifications

Max.cutting diameter: 130mm
 Stroke speed: 170steps/m
 Stroke range: 70mm
 Blade size: 300x25x1.2mm
 Output power: 250W
 Weight (net/gross): 68/80kg
 Packing size(LxWxH): 810x330x330mm



Order No.850-0024

MINI MILLING MACHINE

Specifications

Drilling capacity: 13 mm
 End mill capacity: 16 mm
 Face mill capacity: 30 mm
 Headstock travel(Z): 180 mm
 Cross axis(X): 100 mm
 Longitudinal axis(Y): 220 mm
 Throat: 170mm
 Max.distance spinedle to table: 280mm
 Spindle rotary angle: -45° - $+45^{\circ}$
 Output power 350 W
 Spindle taper: MT3 or R8
 Spindle speed: low range 0-1100 rpm $\pm 10\%$
 High range 0-2500 rpm $\pm 10\%$
 T-slot: 12 mm
 Weight(net/gross): 50/68kg
 Packing size(LxWxH): 540x500x760 mm

Standard Attachment

Dia.13mm Drill chuck
 Wrench set Oil can



Order No.900-0003



With Auto-feed

Order No.900-0004

SMALL MILL

Specifications

Drilling capacity: 25 mm
 End mill capacity: 16 mm
 Face mill capacity: 50 mm
 Spindle stroke: 80 mm
 Throat: 230 mm
 Max.distance spindle to table: 380 mm
 Spindle taper: MT3 or R8
 Spindle speed: High range 100-2000 rpm $\pm 10\%$
 low range 100-1000 rpm $\pm 10\%$
 Table effective size: 550x160 mm
 T-slot size: 12 mm
 Table cross travel: 145mm
 Table longitudinal travel: 400 mm
 Motor output power: 600 W
 Overall dimension(LxWxH): 760x720x930 mm
 Weight(net/gross): 165 kg/198 kg
 Packing size(LxWxH): 840x820x1040 mm

Standard Attachment

Dia.16mm Drill chuck
 Wrench set Oil can

Order No.905-0035



SMALL MILL

Specifications

Drilling capacity: 25 mm
 Max.tapping capacity: 12 mm
 End mill capacity: 16 mm
 Face mill capacity: 50 mm
 Spindle stroke: 70 mm
 Throat: 230 mm
 Max.distance spindle to table: 380 mm
 Spindle taper: MT3 or R8
 Spindle speed: 100-1750 rpm $\pm 10\%$
 Table effective size: 550x160 mm
 T-slot size: 12 mm
 Table cross travel: 145 mm
 Table longitudinal travel: 400 mm
 Motor output power: 1000 W
 Overall dimension: 760x720x930 mm
 Weight(net/gross): 165kg/198kg
 Packing size: 840x820x1040 mm

Standard Attachment

Dia.16mm Drill chuck
 Wrench set Oil can

Order No.905-0036



DRILLING MACHINE

Specifications

Max.drilling capacity: 20mm
 Max.tapping capacity: 12mm
 Max.spindle traverse: 80mm
 Taper of spindle hole: MT2
 Spindle speed: 100-1500rpm
 Distance from spindle axis to column surface: 250mm
 Max.distance from spindle nose to worktable: 380mm
 Max.distance from spindle nose to base surface: 750mm
 Dimension of worktable surface: 320 x 360mm
 Diameter of column: 90mm
 Overall height: 1218mm
 Output motor: 1000W
 Worktable 't' slot size: 12mm
 Overall size: 680 x385 x 1220mm
 Packing size: 805 x 570 x 1395mm
 Weight(net/gross): 220/260kg

Order No.800-1333



DRILLING MACHINE

Specifications

Max.drilling capacity: 30mm
 Max.tapping capacity: 14mm
 Max.spindle traverse: 100mm
 Taper of spindle hole: MT3
 Spindle speed: 100-1800rpm
 Distance from spindle axis to column surface: 280mm
 Max.distance from spindle nose to worktable: 460mm
 Max.distance from spindle nose to base surface: 930mm
 Dimension of worktable surface: 400 x 350mm
 Diameter of column: 110mm
 Overall height: 1750mm
 Output motor: 1500W
 Worktable 't' slot size: 14mm
 Overall size: 750 x 550 x1820mm
 Packing size: 850 x 600 x 2000mm
 Weight(net/gross): 321/361kg

Order No.800-1334



Milling and Drilling machine

DRILLING MACHINE

Specifications

Max.drilling capacity: 40mm
 Max.tapping capacity: 20mm
 Max.spindle traverse: 120mm
 Taper of spindle hole: MT4
 Spindle speed: H:250-1750rpm
 L:100-900rpm
 Distance from spindle axis to column surface: 310mm
 Max.distance from spindle nose to worktable: 600mm
 Max.distance from spindle nose to base surface: 1160mm
 Dimension of worktable surface: 440 x 390mm
 Diameter of column: 120mm
 Overall height: 1805mm
 Output motor: 1500W
 Worktable 't' slot size: 14mm
 Overall size: 845 x 560 x 1805mm
 Packing size: 900 x 640 x 2010mm
 Weight(net/gross):563/ 613kg



Order No.800-1335

DRILLING MACHINE

Specifications

Max.drilling: 32mm
 Max.travel of spindle: 150mm
 Max.distance from spindle to generating line of column: 300mm
 Max.distance from spindle nose to surface of worktable: 800mm
 Max.distance from spindle nose to surface of base worktable: 1225mm
 Max.travel of spindle box: 270mm
 Max.travel of worktable and bracket: 550mm
 Spindle taper bore: MT4
 Spindle speed steps: 12
 Spindle speed range: 78-2500
 Effective working area of worktable: 365x415 mm
 Power of motor: 1/1.3/1.7kw
 Machine dimension: 780x505x1910mm
 Mode of spindle feed: Manual
 Sets/ 20' Container: 24



Order No.800-1357

DRILLING MACHINE

Order No.	800-1344	800-1345
Max.drilling	25mm	25mm
Max.travel of spindle	135mm	135mm
Max.distance from spindle to generating line of column	260mm	260mm
Max.distance from spindle nose to surface of base worktable	700mm	700mm
Max.travel of spindle box	520mm	520mm
Spindle taper bore	MT3	MT3
Spindle speed steps	12	12
Spindle speed range	125-3030	125-3030
Spindle feed steps	3	3
Spindle feed range	0.1-0.3	0.1-0.3
Effective working area of worktable	335 x 340	335 x 340
Diameter of column	110mm	110mm
Power of motor	0.85	1.1kw
Machine dimension	740 x 420 x 1610	740 x 420 x 1610
Mode of spindle feed	Manual	Mechanical
Sets/ 20' Container	20	20



MICRO DRILL

Specifications

Drilling capacity: 6 mm
 Spindle stroke: 40 mm
 Headstock travel(Z): 200 mm
 Spindle taper: B10 OR JT1
 Spindle speed: High 5000 rpm ±10%
 low 3600 rpm ±10%
 Motor output power: 150W
 Overall dimension(LxWxH): 175x165x415mm
 Weight(net/gross): 14/19kg
 Packing size(LxWxH): 520x400x270mm

Features

Digital depth readout
 feeding depth set up
 2 steps speed
 High accurate

Standard Attachment

Dia.6mm Drill chuck
 Screw driver
 Wrench set

Order No.800-1330



DRILLING MACHINE

Order No.	800-1346	800-1347
Max.drilling	25mm	25mm
Max.travel of spindle	135mm	135mm
Max.distance from spindle to generating line of column	260mm	260mm
Max.distance from spindle nose to surface of worktable	670mm	685mm
Max.distance from spindle nose to surface of base worktable	1150mm	1165mm
Max.travel of spindle box	180mm	180mm
Max.travel of worktable and bracket	605mm	500mm
Swivel angle of worktable	± 45 °	± 45 °
Spindle taper bore	MT3	MT3
Spindle speed steps	12	12
Spindle speed range	125-3030	125-3030
Spindle feed steps	3	3
Spindle feed range	0.1-0.3	0.1-0.3
Dimension of worktable	420 × 350	420 × 350
Effective working area of worktable	335 × 340	335 × 340
Diameter of column	110mm	110mm
Power of motor	0.85/1.1kw	0.85/1.1kw
Machine dimension	700 × 465 × 2060	700×465×2060
Mode of spindle feed	Manual	Mechanical
Sets/ 20' Container	24	24



DRILLING MACHINE

Order No.	800-1348	800-1349	800-1350
Max.drilling	30mm	30mm	30mm
Max.travel of spindle	160mm	160mm	160mm
Max.distance from spindle to generating line of column	320mm	320mm	320mm
Max.distance from spindle nose to surface of worktable	585mm	585mm	585mm
Max.distance from spindle nose to surface of base worktable	1140mm	1140mm	1140mm
Max.travel of worktable and bracket	545mm	545mm	545mm
Swivel angle of worktable	45 degree	45 degree	45 degree
Spindle taper bore	MT4	MT4	MT4
Spindle speed steps	12	12	12
Spindle speed range	125-3030	125-3030	125-3030
Spindle feed steps	3	3	3
Spindle feed range	0.1-0.3	0.1-0.3	0.1-0.3
Dimension of worktable	500 * 420	500 * 420	500 * 420
Effective working area of worktable	400 * 360	400 * 360	400 * 360
Diameter of column	120mm	120mm	120mm
Power of motor	1/1.2kw	1/1.2kw	1/1.2kw
Machine dimension	835 * 510 * 1730	835 * 510 * 1730	835 * 510 * 1730
Mode of spindle feed	Manual	Electromagnetism	Mechanical
Sets/ 20' Container	24	24	24



DRILLING MACHINE

Order No.	800-1351	800-1352	800-1353
Max.drilling	32mm	32mm	32mm
Max.travel of spindle	160mm	160mm	160mm
Max.distance from spindle to generating line of column	320mm	320mm	320mm
Max.distance from spindle nose to surface of base worktable	645mm	645mm	645mm
Max.travel of spindle box	515mm	515mm	515mm
Swivel angle of spindle box	± 45 °	± 45 °	± 45 °
Spindle taper bore	MT4	MT4	MT4
Spindle speed steps	12	12	12
Spindle speed range	125-3030	125-3030	125-3030
Spindle feed steps	3	3	3
Spindle feed range	0.1-0.3	0.1-0.3	0.1-0.3
Effective working area of worktable	400 × 360	400 × 360	400 × 360
Diameter of column	120mm	120mm	120mm
Power of motor	1/1.2kw	1/1.2kw	1/1.2kw
Machine dimension	810 * 460 * 1640	810 * 460 * 1640	810 * 460 * 1640
Mode of spindle feed	Manuall	Electromagnetism	Mechanical
Sets/ 20' Container	20	20	20



DRILLING MACHINE

Order No.	800-1354	800-1355	800-1356
Max.drilling	32mm	32mm	32mm
Max.travel of spindle	160mm	160mm	160mm
Max.distance from spindle to generating line of column	320mm	320mm	320mm
Max.distance from spindle nose to surface of worktable	630mm	630mm	630mm
Max.distance from spindle nose to surface of base worktable	1185mm	1185mm	1185mm
Max.travel of spindle box	285mm	285mm	285mm
Max.travel of worktable and bracket	415mm	415mm	415mm
Swivel angle of spindle box	45 degree	45 degree	45 degree
Swivel angle of worktable	45 degree	45 degree	45 degree
Spindle taper bore	MT4	MT4	MT4
Spindle speed steps	12	12	12
Spindle speed range	125~3030	125~3030	125~3030
Spindle feed steps	3	3	3
Spindle feed range	0.1~0.3	0.1~0.3	0.1~0.3
Dimension of worktable	500 * 420	500 * 420	500 * 420
Effective working area of worktable	400 * 360	400 * 360	400 * 360
Diameter of column	120mm	120mm	120mm
Power of motor	1/1.2kw	1/1.2kw	1/1.2kw
Machine dimension	835 * 500 * 1960	835 * 500 * 1960	835 * 500 * 1960
Mode of spindle feed	Manual	Electromagnetism	Mechanical
Sets/ 20' Container	19	19	19



Specifications

Max.drilling: 25mm
 Max.travel of spindle: 110mm
 Max.distance from spindle to generating line of column: 240mm
 Max.distance from spindle nose to surface of worktable: 830mm
 Max.distance from spindle nose to surface of base worktable: 1150mm
 Max.travel of spindle box: 140mm
 Max.travel of worktable and bracket: 600mm
 Swivel angle of worktable: 45 degree
 Spindle taper bore: MT3
 Spindle speed steps: 12
 Spindle speed range: 125-2880
 Effective working area of worktable: 315x320mm
 Power of motor: 0.85/1.1w
 Machine dimension: 640x485x1750mm
 Mode of spindle feed: Manual
 Sets/ 20'Container: 28

DRILLING MACHINE

Order No.800-1358



DRILLING MACHINE

Order No.	800-1359	800-1360
Max.drilling dia.	35mm	35mm
Max.travel of spindle	190mm	190mm
Max.distance from spindle to generating line of column	340mm	340mm
Max.distance from spindle nose to surface of worktable	665mm	665mm
Max.distance from spindle nose to surface of base worktable	1195mm	1195mm
Max.travel of worktable and bracket	570mm	450mm
Swivel angle of worktable	± 45 °	± 45 °
Spindle taper bore	MT4	MT4
Spindle speed steps	12	12
Spindle speed range	76~2065	76~2065
Spindle feed steps	3	3
Spindle feed range	0.1,0.2,0.3	0.1,0.2,0.3
Dimension of worktable	520*440	520*440
Effective working area of worktable	405*395	405*395
Diameter of column	140mm	140mm
Power of motor	1.5kw	1.5kw
Machine dimension	849*545*2290	849*545*2290
Mode of spindle feed	Mechanical	Electromagnetism
Set/20' Container	20	20



DRILLING MACHINE

Specifications

Max. drilling diameter (steel): 40mm
 Max. tapping diameter (steel): 30mm
 Max.milling cutter diameter: 80mm
 Max.travel of spindle: 200mm
 Distance between column center line to the T solt in the middle of worktable: 560mm
 Max.distance between spindle end to the worktable surface: 740mm
 Max.Travel of ram: 600mm
 Max .travel for the spindle box in up and down position: 400mm
 Turning angle of spindle box to the ram: ±90°
 Spindle taper bore: MT4
 Spindle speed ranges (step-less): 50~2000 r/min
 Spindle feed steps: 6
 Spindle feed range: 0.08~0.50
 Dimension of worktable(LxW): 1200x505 mm
 Diameter of column: 220 mm
 Power of motor: 2.2 kw
 Machine dimension: 1720x1200x2250 mm
 Mode of spindle feed: Electromagnetism
 Machine weight (gross/net): 2740/2610 kg

Order No.800-1365



DRILLING MACHINE

Order No.	800-1361	800-1362
Max.drilling dia.	40mm	40mm
Max.travel of spindle	200mm	200mm
Max.distance from spindle to generating line of column	360mm	360mm
Max.distance from spindle nose to surface of worktable	590mm	590mm
Max.distance from spindle nose to surface of base worktable	1175mm	1175mm
Max.travel of worktable and bracket	530mm	410mm
Swivel angle of worktable	± 45 °	± 45 °
Spindle taper bore	MT4	MT4
Spindle speed steps	12	12
Spindle speed range	52~1400	52~1400
Spindle feed steps	4	4
Spindle feed range	0.1,0.2,0.3,0.4	0.1,0.2,0.3,0.4
Dimension of worktable	580*460	580*460
Effective working area of worktable	445*435	445*435
Diameter of column	160mm	160mm
Power of motor	2.2kw	2.2kw
Machine dimension	940*680*2405	940*680*2405
Mode of spindle feed	Mechanical	Electromagnetism
Set/ 20' Container	16	16



DRILLING MACHINE

Order No.	800-1363	800-1364
Max.drilling dia.	50mm	50mm
Max.travel of spindle	240mm	240mm
Max.distance from spindle to generating line of column	360mm	360mm
Max.distance from spindle nose to surface of worktable	585mm	585mm
Max.distance from spindle nose to surface of base worktable	1170mm	1170mm
Max.travel of worktable and bracket	530mm	410mm
Swivel angle of worktable	45 degree	45 degree
Spindle taper bore	MT4	MT4
Spindle speed steps	12	12
Spindle speed range	52~1400	52~1400
Spindle feed steps	4	4
Spindle feed range	0.1,0.2,0.3,0.4	0.1,0.2,0.3,0.4
Dimension of worktable	580*460	580*460
Effective working area of worktable	445*435	445*435
Diameter of column	180mm	180mm
Power of motor	3kw	3kw
Machine dimension	950*680*2405	950*680*2405
Mode of spindle feed	Mechanical	Electromagnetism
Set/20' Container	16	16



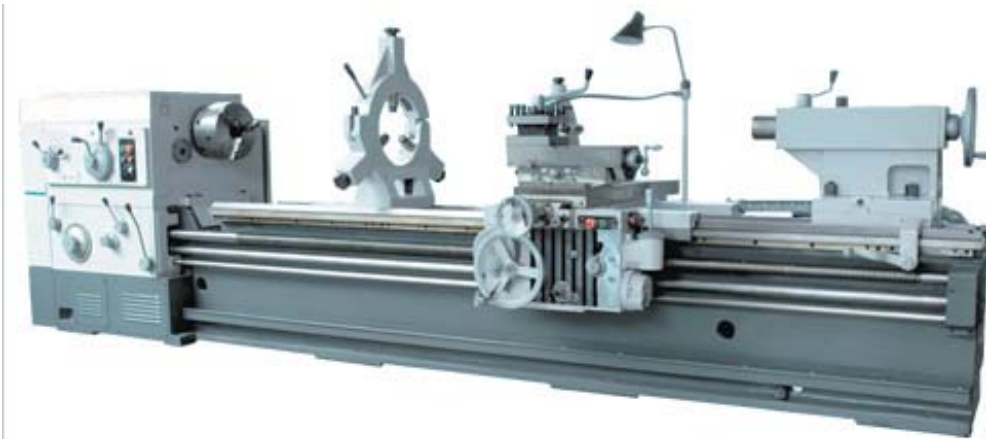
GAP-BED LATHE

The surface of the bedways is supersonic frequency hardened. The spindle system is rigid and accurate. Carriage comes with rapid feed forward and backware. The clutch in headstock make the lathes start smoothly and brake quickly. Metric or inch lead-screws, right or left hand carriages, inverter motor, voltage and frequencies tailored to customer's requirements.

- * Camlock spindle nose D-11
- * 600mm bedways
- * Φ 104mm spindle bore
- * Friction clutch
- * Z and X rapid feed
- * 12mm longitudinal ball screw pitch
- * 32mmx32mm tool shank size
- * Stand accessories with coolant system, halgen work lamp.

Standard accessories

- * 3 jaw lathe chuck
- * Face plate
- * Drill sleeves
- * Solide center
- * Wrenches



Order No.	920-2620	920-2621	920-2622	920-2623
Max. swing diameter over bed	910mm			
Max. swing diameter over carriage	580mm			
Max. swing diameter over gap:	1100mm			
Effective length of gap	310mm			
Max. length of workpiece	1500mm	2000mm	3000mm	4000mm
Max. turning length	1040mm	1540mm	2540mm	3540mm
Spindle bore	104mm			
Spindle taper hole	Φ 120mm, 1:20			
Number of speeds and range	18 speeds from 5.4rpm to 720rpm			
Longitudinal feeds:	64 feeds from 0.1 to 1.52mm/r, 1.6 to 24.3mm/r			
Longitudinal fine feeds	0.06-0.912mm/r			
Cross feeds	64 feeds, at half of longitudinal feeds			
Longitudinal rapid traverse	4000mm/min			
Cross rapid traverse	2000mm/min			
Metric pitch threads	1-240mm/50 kinds			
Whit-worth threads	14-1TPI/26 kinds			
Module threads	0.5-120mm/53 kinds			
D.P. threads	28-1 DP/24 kinds			
Distance from spindle center to tool rest surface	33mm			
Max. travel of cross slide	550mm			
Max. travel of top slide	200mm			
Max. cross displacement of tailstock	15mm			
Taper of tailstock sleeve	MT5			
Max. traverse of tailstock sleeve	250mm			
External diameter of tailstock sleeve	100mm			
Power of main motor	11KW			
Rapid feed motor power	1.1KW			
Coolant pump power	90W			
Overall dimensions (mm)	366x145x163	416x 145x163	516 x 145 x163	616x145x163
Net weight	4950kg	5250kg	5900kg	6560kg

Big Bore Gap-Bed Lathe

- * 105mm Bore
- * Supersonic frequency hardened bed.
- * Cut 89 threads with no need to change gears.
- * Automatic limit stop switch.



- Standard Accessories:
- * 325mm 3-jaw lathe chuck
 - * face plate
 - * Drill Sleeve
 - * MT5 solid center
 - * Wrenches
 - * Operation manual

- Optional Accessories
- * 400mm 4-jaw lathe chuck
 - * 25mm drive plate
 - Steady rest
 - * follow rest

Order No.	920-2604	920-2606	920-2608	920-2612
Swing over bed(mm)	660 (26")			
Swing over carriage(mm)	420 (17")			
Swing over gap(mm)	870 (34")			
Max. turned diameter(mm)	520 (20-2/5")			
Max. length of workpiece(mm)	1000 (40")	1500 (60")	2000 (80")	3000 (118")
Effective length in gap(mm)	240 (9")			
Spindle bore(mm)	105 (4")			
Taper of bore	113mm 1:20			
Number of speeds	12			
Spindle speed scope(r/min)	36-1600			
Thread cutting	MetricRange/No.	1-14mm/22		
	InchRange/No.	28-2T.P.1/25		
	D.P.Range/No.	56-4D.P/24		
	ModuleRange/No.	0.5-7mm/18		
Range of feeds	Longitudinal(mm)	0.063-2.52(0.023"-0.937)		
	Cross(mm)	0.027-1.07(0.011"-0.404")		
Rapid traverse	Longitudinal(m/min)	4.5		
	Cross(m/min)	1.9		
Max. travel of top slide(mm)	145(5-3/4")			
Max. travel of cross slide(mm)	310(12-3/32)			
Max. size of tool(W×H)(mm)	25×25(1"×1")			
Tailstock sleeve	External diameter	75(2-61/64")		
	Taper of bore	M.T.NO.5		
	Max. traverse(mm)	150(5-29/32")		
Power of main motor(KW)	7.5(10HP)			
Overall dimensions(mm)	2500×1100×1450	3000×1100×1450	3500×1100×1450	4500×1100×1450
Net weigh(kg)	2500	2700	3000	3350

GAP-BED LATHE

Features:

- * Supersonic frequency hardened and ground bedways.
- * 80mm diameter spindle bore.
- * Rapid carriage travel.
- * Clutch system in headstock



Standard accessory:

- 250mm 3-jaw lathe chuck
- Face plate
- MT7/MT5 Drill sleeve
- MT5 Solid center
- Wrenches
- Operation Manual

Optional accessories

- 320mm 4-jaw lathe chuck
- 250mm drive plate
- Stead rest
- Follow rest

Order No.		921-5510	921-5515	921-5520	921-5530
Max. swing diameter	over bed(mm)	500			
	over carriage(mm)	310			
	over gap(mm)	720			
Max. length of workpiece(mm)		1000	1500	2000	3000
Spindle bore(mm)		Ø80			
Taper of bore		MT7			
Number of speeds		24			
Spindle speed scope(r/min)		9-1600			
Thread cutting	Metric Threads	1-224mm/46			
	Inch Threads	28-1/TPI./46			
	Diameter Pitch Threads	56-1/4D.P/45			
	Module Threads	0.5-112mm/42			
Range of feeds	Longitudinal(mm)	0.063-6.43			
	Cross(mm)	0.027-2.73			
Rapid traverse	Longitudinal(m/min)	4.5			
	Cross(m/min)	1.9			
Max. traver of top slide(mm)		145			
Max. travel of cross slide(mm)		320			
Max. size of tool(mm)		25×25			
Tailstock sleeve	External diameter	75			
	Taper of bore	MT5			
	Max. traverse(mm)	150			
Power of main motor(KW)		7.5kw (10HP)			
Overall dimensions(cm)		250×90×125.9	300×90×125.9	350×90×125.9	450×90×125.9
Net weigh(kg)		2750	3000	3250	3600

Big Bore Gap-bed Lathe

Supersonic frequency hardened and precision ground bedways.
 Precision ground gears making low noise.
 80mm spindle bore size.
 Highly rigid and accurate spindle system makes no vibration when turning with a cutting depth of 10mm.
 There is no need for change gears.
 Turn about 200 kinds of metric, inch, module and D.P. Threads, pipe threads.
 Automatic HONDA motorcycle stop device.



Standard accessories:

- 3 jaw chuck
- Change gears
- Chasing dial indicator
- Full length splash guard
- Solid center MT3
- Drill sleeve
- Coolant system
- Work lamp.
- Travel stopper

Optional accessories:

- 4 jaw lathe chuck
- Face plate 200mm.
- Steady rest.
- Follw rest
- T slotted compound tool post
- Taper Turning attachment.
- Live center.

Order No.	921-5218	921-5118	921-5018
Swing Over Bed(mm)	460mm/18"		
Swing Over Carriage (mm)	290mm/10-4/5"		
Swing overgap (mm)	700mm/27-1/2"		
Distance between centers (mm)	2000mm/80"	1500mm/60"	1000mm/40"
Effective Gap Length (mm)	200mm/8"		
Spingle Bore	80mm/3-1/8"		
Spinle Taper	MT7		
Number of Speed	12		
Speed Range	42-1800rpm 25-1800rpm		
Metic Thread Cutting	0.5 to 20mm,24 threads		
Inch Thread Cutting	72~1-5/8TPI, 61 threads		
Diameter Pitch Threads	96" to 3-1/4" , 45 threads		
Module Threads Cutting	0.25 to 10M, 20 threads		
Longitudinal Feed	0.04-2.46mm/0.0015"-0.0913"		
Cross Feed (mm)	0.03-1.23(0.0006"-0.0365")		
Tailstock Barrel Dia	75mm/3"		
Tailstock Barrel Taper	MT5		
Max. traverse	130MM/5"		
Max. travel of compound toolpost	100MM/4"		
Max. cross slide travel	230MM/9"		
Max.Tool Size (WxH)	25x25MM/1"X1"		
Motor Power	5.5KW		
Overall dimensions(LxWxH)	3320x1000x1295mm	2810x1000x1295mm	2310x1000x1295mm
Net Weight	3055KG	2835kg	2635kg

Big Bore Gap-bed Lathe

Supersonic frequency hardened and precision ground bedways.
 Precision ground gears making low noise.
 80mm spindle bore size.
 Highly rigid and accurate spindle system makes no vibration when turning with a cutting depth of 10mm.
 There is no need for change gears.
 Turn about 200 kinds of metric, inch, module and D.P. Threads, pipe threads.
 Automatic HONDA motorcycle stop device.



Standard accessories:

- 3 jaw chuck
- Change gears
- Chasing dial indicator
- Full length splash guard
- Solid center MT3
- Drill sleeve
- Coolant system
- Work lamp.
- Travel stopper

Optional accessories:

- 4 jaw lathe chuck
- Face plate 200mm.
- Steady rest.
- Follw rest
- T slotted compound tool post
- Taper Turning attachment.
- Live center.

Order No.	921-5216	921-5116	921-5016
Swing Over Bed(mm)	410mm/16"		
Swing Over Carriage (mm)	250mm/10"		
Swing overgap (mm)	660mm/26"		
Distance between centers (mm)	2000mm/80"	1500mm/60"	1000mm/40"
Effective Gap Length (mm)	200mm/8"		
Spingle Bore	80mm/3-1/8"		
Spinle Taper	MT7		
Number of Speed	12		
Speed Range	42-1800rpm 25-1800rpm		
Metic Thread Cutting	0.5 to 20mm,24 threads		
Inch Thread Cutting	72~1-5/8TPI, 61 threads		
Diameter Pitch Threads	96" to 3-1/4" , 45 threads		
Module Threads Cutting	0.25 to 10M, 20 threads		
Longitudinal Feed	0.04-2.46mm/0.0015"-0.0913"		
Cross Feed (mm)	0.03-1.23(0.0006"-0.0365")		
Tailstock Barrel Dia	75mm/3"		
Tailstock Barrel Taper	MT4		
Max. traverse	130MM/5"		
Max. travel of compound toolpost	100MM/4"		
Max. cross slide travel	230MM/9"		
Max.Tool Size (WxH)	25x25MM/1"X1"		
Motor Power	5.5KW		
Overall dimensions(LxWxH)	3320x1000x1275mm	2810x1000x1275mm	2310x1000x1275mm
Net Weight	2780kg	2630kg	2485kg

Big Bore Gap-bed Lathe

Supersonic frequency hardened and precision ground bedways.
 Precision ground gears making low noise.
 80mm spindle bore size.
 Highly rigid and accurate spindle system makes no vibration when turning with a cutting depth of 10mm.
 There is no need for change gears.
 Turn about 200 kinds of metric, inch, module and D.P. Threads, pipe threads.
 Automatic HONDA motorcycle stop device.



Standard accessories:

- 3 jaw chuck
- Change gears
- Chasing dial indicator
- Full length splash guard
- Solid center MT3
- Drill sleeve
- Coolant system
- Work lamp.
- Travel stopper

Optional accessories:

- 4 jaw lathe chuck
- Face plate 200mm.
- Steady rest.
- Follw rest
- T slotted compound tool post
- Taper Turning attachment.
- Live center.

Order No.	921-5114	921-5014
Swing Over Bed(mm)	360mm/14"	
Swing Over Carriage (mm)	200mm/7-2/3"	
Swing overgap (mm)	660mm/23-5/8"	
Distance between centers (mm)	1500mm/60"	1000mm/40"
Effective Gap Length (mm)	200mm/8"	
Spindle Bore	80mm/3-1/8"	
Spindle Taper	MT7	
Number of Speed	12	
Speed Range	42-1800rpm 25-1800rpm	
Metric Thread Cutting	0.5 to 20mm,24 threads	
Inch Thread Cutting	72~1-5/8TPI, 61 threads	
Diameter Pitch Threads	96" to 3-1/4" , 45 threads	
Module Threads Cutting	0.25 to 10M, 20 threads	
Longitudinal Feed	0.04-2.46mm/0.0015"-0.0913"	
Cross Feed (mm)	0.03-1.23(0.0006"-0.0365")	
Tailstock Barrel Dia	75mm/3"	
Tailstock Barrel Taper	MT4	
Max. traverse	130MM/5"	
Max. travel of compound toolpost	100MM/4"	
Max. cross slide travel	230MM/9"	
Max.Tool Size (WxH)	25x25MM/1"x1"	
Motor Power	5.5KW	
Overall dimensions(LxWxH)	2810x1000x1255mm	2310x1000x1255mm
Net Weight	2510kg	2355kg

Engine Lathe

- * The guide ways and all gears in the headstock are hardened and precision-ground
- * The spindle system is high in rigidity and accuracy
- * The machines have powerful headstock gear train, high rotating accuracy and smooth running with low noise.
- * An overload safety device is provided on the apron
- * Has a pedal or an electromagnetic braking device



Standard accessories:

- 3 jaw chuck
- Change gears
- Chasing dial indicator
- Full length splash guard
- Solid center MT3
- Drill sleeve
- Coolant system
- Work lamp.
- Travel stopper

Optional accessories:

- 4 jaw lathe chuck
- Face plate 200mm.
- Steady rest.
- Follw rest
- T slotted compound tool post
- Taper Turning attachment.
- Live center.

Order No.	921-3010	921-3011	921-3110	921-3111
Swing over bed	350mm			
Swing over carriage	185mm			
Swing over gap	/	/	520	
Distance between centers	750mm	1000mm	750mm	1000mm
Effective gap length	200mm		200mm	
Spindle bore taper	40 or 52			
Spindle bore taper	MT5 or MT6			
Number of spindle speeds	12			
Range of spindle speeds	40-1800rpm			
24 Metric threads	0.5~20mm/24			
61 Inch Threads	72~1-5/8t.p.i/61			
45 Diameter Pitches	96~3-1/4D.P/45			
20 Module Threads	0.25~10M.P/20			
Longitudinal Feed	0.04-2.46mm (0.0015"-0.0913")			
Cross Feed	0.03-1.23mm(0.0006"-0.0365")			
Tailstock Barrel Outer diameter	60mm			
Tailstock Bore Taper	MT4			
Tailstock Barrel Travel	120mm			
Max. travel of compound rest	100mm			
Max. cross slide travel	210mm			
Max. size of tool shank(W×H)	20×20mm			
Power of main motor(kw)	3/4			
Overall dimensions(mm)	2140×1000×1200	2360×1000×1200	2140×1000×1200	2360×1000×1200
Net weight(kg)	1600	1680	1680	1760

Engine Lathe

- * The guide ways and all gears in the headstock are hardened and precision-ground
- * The spindle system is high in rigidity and accuracy
- * The machines have powerful headstock gear train, high rotating accuracy and smooth running with low noise.
- * An overload safety device is provided on the apron
- * Has a pedal or an electromagnetic braking device



Standard accessories:

- 3 jaw chuck
- Change gears
- Chasing dial indicator
- Full length splash guard
- Solid center MT3
- Drill sleeve
- Coolant system
- Work lamp.
- Travel stopper

Optional accessories:

- 4 jaw lathe chuck
- Face plate 200mm.
- Steady rest.
- Follw rest
- T slotted compound tool post
- Taper Turning attachment.
- Live center.

Order No.	921-3016	921-3017	921-3012
Swing over bed	400		
Swing over carriage	255		
Distance between centers	750mm	1000mm	1500mm
Spindle bore taper	52		
Spindle bore taper	MT6		
Number of spindle speeds	12		
Number of spindle speeds	40-1800rpm		
24 Metric threads	0.5~20mm/24		
61 Inch Threads	72~1-5/8t.p.i/61		
45 Diameter Pitches	96~3-1/4D.P/45		
20 Module Threads	0.25~10M.P/20		
Longitudinal Feed	0.04-2.46mm (0.0015"-0.0913")		
Cross Feed	0.03-1.23mm(0.0006"-0.0365")		
Tailstock Barrel Outer diameter	60mm		
Tailstock Bore Taper	MT4		
Tailstock Barrel Travel	120		
Max. travel of compound rest	100mm		
Max. cross slide travel	240mm		
Max. size of tool shank(W×H)(mm)	20×20		
Power of main motor(kw)	4/5.5		
Overall dimensions(mm)	2140×1000×1200	2360×1000×1200	2860×1000×1200
Net weight(kg)	1650	1730	1890

Gap Bed Engine Lathe

- * The guide ways and all gears in the headstock are hardened and precision-ground
- * The spindle system is high in rigidity and accuracy
- * The machines have powerful headstock gear train, high rotating accuracy and smooth running with low noise.
- * An overload safety device is provided on the apron
- * Has a pedal or an electromagnetic braking device



Standard accessories:

- 3 jaw chuck
- Change gears
- Chasing dial indicator
- Full length splash guard
- Solid center MT3
- Drill sleeve
- Coolant system
- Work lamp.
- Travel stopper

Optional accessories:

- 4 jaw lathe chuck
- Face plate 200mm.
- Steady rest.
- Follw rest
- T slotted compound tool post
- Taper Turning attachment.
- Live center.

Order No.	921-3116	921-3117	921-3112
Swing over bed		400mm	
Swing over carriage		255mm	
Swing over gap		570mm	
Distance between centers	750mm	1000mm	1500mm
Effective gap length		200mm	
Spindle bore taper		52	
Taper of bore		MT6	
Number of spindle speeds		12	
Range of spindle speeds		40-1800rpm	
24 Metric threads		0.5~20mm/24	
61 Inch Threads		72~1-5/8t.p.i/61	
45 Diameter Pitches		96~3-1/4D.P/45	
20 Module Threads		0.25~10M.P/20	
Longitudinal Feed		0.04-2.46mm (0.0015"-0.0913")	
Cross Feed		0.03-1.23mm(0.0006"-0.0365")	
Tailstock Barrel Outer diameter		60mm	
Tailstock Bore Taper		MT4	
Tailstock Barrel Travel		120mm	
Max. travel of compound rest		100mm	
Max. cross slide travel		240mm	
Max. size of tool shank(W×H)		20×20mm	
Power of main motor(kw)		4/5.5	
Overall dimensions(mm)	2140×1000×1200	2360×1000×1200	2860×1000×1200
Net weight(kg)	1730	1810	1970

Engine Lathe

- * The guide ways and all gears in the headstock are hardened and precision-ground
- * The spindle system is high in rigidity and accuracy
- * The machines have powerful headstock gear train, high rotating accuracy and smooth running with low noise.
- * An overload safety device is provided on the apron
- * Has a pedal or an electromagnetic braking device



Standard accessories:

- 3 jaw chuck
- Change gears
- Chasing dial indicator
- Full length splash guard
- Solid center MT3
- Drill sleeve
- Coolant system
- Work lamp.
- Travel stopper

Optional accessories:

- 4 jaw lathe chuck
- Face plate 200mm.
- Steady rest.
- Follw rest
- T slotted compound tool post
- Taper Turning attachment.
- Live center.

Order No.	921-3013	921-3014	921-3015
Swing over bed	360mm		
Swing over carriage	195mm		
Distance between centers	750mm	1000mm	1500mm
Spindle bore taper	40 or 52		
Spindle bore taper	MT5 or MT6		
Number of spindle speeds	12		
Number of spindle speeds	40-1800rpm		
24 Metric threads	0.5~20mm/24		
61 Inch Threads	72~1-5/8t.p.i/61		
45 Diameter Pitches	96~3-1/4D.P/45		
20 Module Threads	0.25~10M.P/20		
Longitudinal Feed	0.04-2.46mm (0.0015"-0.0913")		
Cross Feed	0.03-1.23mm(0.0006"-0.0365")		
Tailstock Barrel Outer diameter	60mm		
Tailstock Bore Taper	MT4		
Tailstock Barrel Travel	120mm		
Max. travel of compound rest	100mm		
Max. cross slide travel	210mm		
Max. size of tool shank(W×H)	20×20mm		
Power of main motor	3/4KW		
Overall dimensions(mm)	2140×1000×1200	2360×1000×1200	2860×1000×1200
Net weight(kg)	1600	1680	1840

Gap Bed Engine Lathe

- * The guide ways and all gears in the headstock are hardened and precision-ground
- * The spindle system is high in rigidity and accuracy
- * The machines have powerful headstock gear train, high rotating accuracy and smooth running with low noise.
- * An overload safety device is provided on the apron
- * Has a pedal or an electromagnetic braking device



Standard accessories:

- 3 jaw chuck
- Change gears
- Chasing dial indicator
- Full length splash guard
- Solid center MT3
- Drill sleeve
- Coolant system
- Work lamp.
- Travel stopper

Optional accessories:

- 4 jaw lathe chuck
- Face plate 200mm.
- Steady rest.
- Follw rest
- T slotted compound tool post
- Taper Turning attachment.
- Live center.

Order No.	921-3115	921-3113	921-3114
Swing over bed		360mm	
Swing over carriage		195mm	
Swing over gap		530mm	
Distance between centers	750mm	1000mm	1500mm
Effective gap length		200mm	
Spindle bore taper		40 or 52	
Taper of bore		MT5 or MT6	
Number of spindle speeds		12	
Range of spindle speeds		40-1800rpm	
24 Metric threads		0.5~20mm/24	
61 Inch Threads		72~1-5/8t.p.i/61	
45 Diameter Pitches		96~3-1/4D.P/45	
20 Module Threads		0.25~10M.P/20	
Longitudinal Feed		0.04-2.46mm (0.0015"-0.0913")	
Cross Feed		0.03-1.23mm(0.0006"-0.0365")	
Tailstock Barrel Outer diameter		60mm	
Tailstock Bore Taper		MT4	
Tailstock Barrel Travel		120mm	
Max. travel of compound rest		100mm	
Max. cross slide travel		240mm	
Max. size of tool shank(W×H)		20×20mm	
Power of main motor(kw)		4/5.5	
Overall dimensions(mm)	2140×1000×1200	2360×1000×1200	2860×1000×1200
Net weight(kg)	1680	1760	1920

Engine Lathe

- * The guide ways and all gears in the headstock are hardened and precision-ground
- * The spindle system is high in rigidity and accuracy
- * The machines have powerful headstock gear train, high rotating accuracy and smooth running with low noise.
- * An overload safety device is provided on the apron
- * Has a pedal or an electromagnetic braking device



Standard accessories:

- 3 jaw chuck
- Change gears
- Chasing dial indicator
- Full length splash guard
- Solid center MT3
- Drill sleeve
- Coolant system
- Work lamp.
- Travel stopper

Optional accessories:

- 4 jaw lathe chuck
- Face plate 200mm.
- Steady rest.
- Follw rest
- T slotted compound tool post
- Taper Turning attachment.
- Live center.

Order No.	921-3018	921-3019	921-3020
Swing over bed	460mm		
Swing over carriage	275mm		
Distance between centers	750mm	1000mm	1500mm
Spindle bore taper	52		
Taper of bore	MT6		
Number of spindle speeds	12		
Range of spindle speeds	40-1800rpm		
24 Metric threads	0.5~20mm/24		
61 Inch Threads	72~1-5/8t.p.i/61		
45 Diameter Pitches	96~3-1/4D.P/45		
20 Module Threads	0.25~10M.P/20		
Longitudinal Feed	0.04-2.46mm (0.0015"-0.0913")		
Cross Feed	0.03-1.23mm(0.0006"-0.0365")		
Tailstock Barrel Outer diameter	60mm		
Tailstock Bore Taper	MT4		
Tailstock Barrel Travel	120mm		
Max. travel of compound rest	100mm		
Max. cross slide travel	240mm		
Max. size of tool shank(W×H)	20×20mm		
Power of main motor(kw)	4/5.5		
Overall dimensions(mm)	2140×1000×1200	2360×1000×1200	2860×1000×1200
Net weight(kg)	1700	1780	1940

Gap Bed Engine Lathe

- * The guide ways and all gears in the headstock are hardened and precision-ground
- * The spindle system is high in rigidity and accuracy
- * The machines have powerful headstock gear train, high rotating accuracy and smooth running with low noise.
- * An overload safety device is provided on the apron
- * Has a pedal or an electromagnetic braking device



Standard accessories:

- 3 jaw chuck
- Change gears
- Chasing dial indicator
- Full length splash guard
- Solid center MT3
- Drill sleeve
- Coolant system
- Work lamp.
- Travel stopper

Optional accessories:

- 4 jaw lathe chuck
- Face plate 200mm.
- Steady rest.
- Follw rest
- T slotted compound tool post
- Taper Turning attachment.
- Live center.

Order No.	921-3118	921-3119	921-3120
Swing over bed	460mm		
Swing over carriage	275mm		
Swing over gap	630mm		
Distance between centers	750mm	1000mm	1500mm
Effective gap length	200mm		
Spindle bore taper	52		
Taper of bore	MT6		
Number of spindle speeds	12		
Range of spindle speeds	40-1800rpm		
24 Metric threads	0.5~20mm/24		
61 Inch Threads	72~1-5/8t.p.i/61		
45 Diameter Pitches	96~3-1/4D.P/45		
20 Module Threads	0.25~10M.P/20		
Longitudinal Feed	0.04-2.46mm (0.0015"-0.0913")		
Cross Feed	0.03-1.23mm(0.0006"-0.0365")		
Tailstock Barrel Outer diameter	60mm		
Tailstock Bore Taper	MT4		
Tailstock Barrel Travel	120mm		
Max. travel of compound rest	100mm		
Max. cross slide travel	240mm		
Max. size of tool shank(W×H)	20×20mm		
Power of main motor(kw)	4/5.5		
Overall dimensions(mm)	2140×1000×1200	2360×1000×1200	2860×1000×1200
Net weight(kg)	1700	1780	1940

Gep Bed Engine Lathe

- * Hardened and ground bed ways.
- * 12 speeds all geared head stock.
- * 3HP(2.4kW)three phase motor.
- * Foot brake giving rapid braking.
- * Emergency stop button equipped on the front of headstock.
- * Jog button for easy gear engagement and inching spindle.
- * Extra safety switch shuts down machine automatically for changing belt or gear for threading cutting.



Standard accessories:

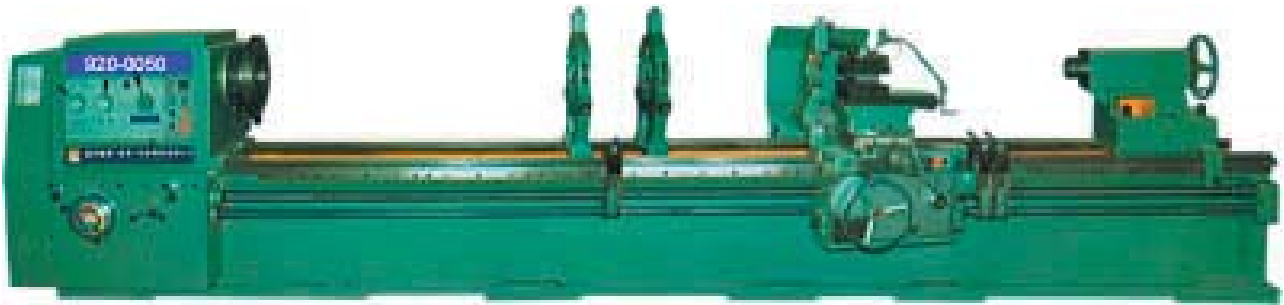
- 3 jaw chuck (dia. 160mm)
- Change gears
- Chasing dial indicator
- Full length splash guard
- Solid center MT3
- Drill sleeve
- Coolant system
- Work lamp.
- Travel stopper

Optional accessories:

- 4 jaw lathe chuck (Dia. 200mm)
- Face plate 200mm.
- Steady rest.
- Follw rest
- T slotted compound tool post
- Taper Turning attachment.
- Live center.

Order No.	921-5214	921-5314
Max. swing over bed	356mm/14"	
Max. swing over slide	210mm (8-1/5")	
Max. swing in gap	508mm (20")	
Width of bed	260mm (10-1/5")	
Distance between centers	750mm (30")	1000mm(40")
Taper of spindle bore	MT5	
Diameter of spindle hole(mm)	40mm (1-1/2")	
Number of spindle speeds	12	
Range of spindle speeds	40-1800RPM	
Spindle nose	D1-4	
Metric threads	37 threads 0.4mm to 7mm	
Inch threads	28 kinds 4-56TPI	
Range of longitudinal feeds	0.043-0.653mm (0.0012"-0.0294")	
Range of cross feeds	0.024-0.359mm (0.0004"-0.0103")	
Diameter of leadscrew	22 (7/8")	
Pitch threads of leadsrew	4mm or 8TPI	
Travel of tailstock quill	120 (4-3/4")	
Diameter of tailstock quill	45 (1-25/32")	
Taper hole of tailstock quill	MT3	
Power of main motor	2.4Kw	
Packing size of lathe	1990x760x1435mm	
Net weight	1250kg	

Engine Lathe



- * For turning of steel, cast iron and non-ferrous metal parts up to 10 meters.
- * Large power and good rigidity suitable for power and high-speed cutting.
- * Functions as end-facing; cylindrical and internal turning; Inch, module and pitch threading; Drilling and boring.
- * Wide variable spindle speed range for rough and finish turning.
- * High strength resin cast iron bed. Ultra-high frequency hardened and precision guideways.
- * Over-load protection mechanism in the apron.
- * Rapid longitudinal and cross travel.

Order No.	920-0050 to 920-0060	920-0072 to 920-0082
Max. swing diameter over bed	800mm	630mm
Max. length of workpiece machined	1000/1500/2000/3000/4000/5000/6000/7000/8000/9000/10000mm	
Max. swing diameter over saddle	510mm	350mm
Width of bed	600mm	
Max. workpiece weight between centers	3T	
Spindle bore diameter	Φ100mm	
Taper of spindle bore	Metric 120#	
Range of spindle speed	6-800r/min (Two grade, stepless)	
Spindle-head type	C 11	
Longitudinal feeds range	0.1-12.2mm/r	
Transversal feeds range	0.05-6.6mm/r	
Carriage rapid-moving speed	3.8m/min	
Metric threads range	1-120mm (47 kinds)	
Inch threads range	28-1/2 t/inch 25 kinds	
Module threads range	0.5-60mm 45 kinds	
Pitch threads range	28-1 t/inch 29 kinds	
Tool post transverse travel	449mm	
Top tool post travel	200mm	
Diameter of tailstock spindle	Φ120mm	
Travel of tailstock spindle	200mm	
Taper of tailstock spindle	MT6	
Main motor power	15kW	
Rapid motor power	1.1kW	
Coolant motor power	0.15kW	
General power	16.25kW	

* Please specify length of workpiece when order.

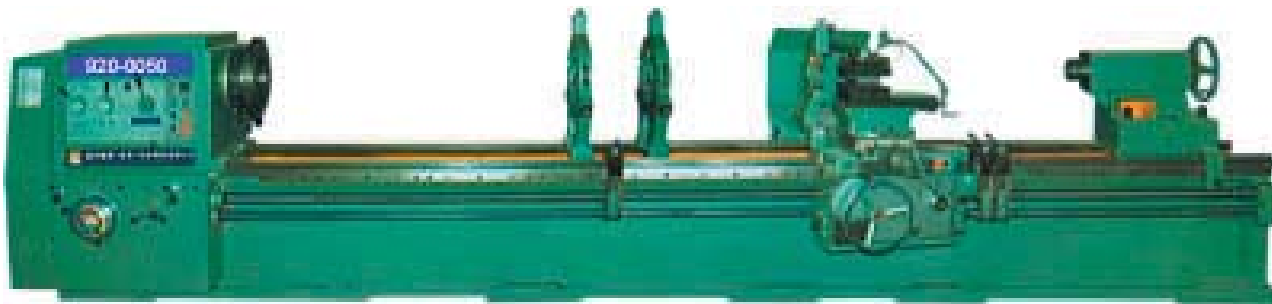
Standard accessories:

1. four-jaw chuck Φ 1250mm
2. Steady rest (For 2m and over)
3. Follow rest (For 2m and over)
4. MT6 Center
5. Center bush
6. Tools
7. Foundation screws

Optional accessories:

1. Metric chasing dial device
2. Inch chasing dial device
3. Inch leadscrew
4. T-type toolpost

Gap Bed Lathe



- * For turning of steel, cast iron and non-ferrous metal parts up to 10 meters.
- * Large power and good rigidity suitable for power and high-speed cutting.
- * Functions as end-facing; cylindrical and internal turning; Inch, module and pitch threading; Drilling and boring.
- * Wide variable spindle speed range for rough and finish turning.
- * High strength resin cast iron bed. Ultra-high frequency hardened and precision guideways.
- * Over-load protection mechanism in the apron.
- * Rapid longitudinal and cross travel.

Order No.	920-0061 to 920-0071	920-0083 to 920-0093	920-0094 to 920-0104
Max. swing diameter over bed	800mm	630mm	1000mm
Max. length of workpiece machined	1000/1500/2000/3000/4000/5000/6000/7000/8000/9000/10000mm		
Max. swing diameter over saddle	510mm	350mm	710mm
Swing diameter×useful width over gap	1000×350mm	800×350mm	1200×350mm
Width of bed	600mm		
Max. workpiece weight between centers	3T		
Spindle bore diameter	Φ100mm		
Taper of spindle bore	Metric 120#		
Range of spindle speed	6-800r/min(Two grade, stepless)		
Spindle-head type	C 11		
Longitudinal feeds range	0.1-12.2mm/r		
Transversal feeds range	0.05-6.6mm/r		
Carriage rapid-moving speed	3.8m/min		
Metric threads range	1-120mm (47 kinds)		
Inch threads range	28-1/2 t/inch 25 kinds		
Module threads range	0.5-60mm 45 kinds		
Pitch threads range	28-1 t/inch 29 kinds		
Tool post transverse travel	449mm		
Top tool post travel	200mm		
Diameter of tailstock spindle	Φ120mm		
Travel of tailstock spindle	200mm		
Taper of tailstock spindle	MT6		
Main motor power	15kW		
Rapid motor power	1.1kW		
Coolant motor power	0.15kW		
General power	16.25kW		

* Please specify length of workpiece when order.

Standard accessories:

1. four-jaw chuck Φ 1250mm
2. Steady rest (For 2m and over)
3. Follow rest (For 2m and over)
4. MT6 Center
5. Center bush
6. Tools
7. Foundation screws

Optional accessories:

1. Metric chasing dial device
2. Inch chasing dial device
3. Inch leadscrew
4. T-type toolpost

Heavy Duty Gap Bed Lathe

The lathes turn end-faces, cylindrical surfaces and internal holes of various parts as well as metric, inch, module and pitch threads. The top slides can be operated individually by power for cutting short taper surface also, can be turned automatically through the compound movement combining longitudinal feed with the top slide feed. The lathe can be used for drilling, boring and trepanning.



Order No.	920-0290 to 920-0299	920-0310 to 920-0319	920-0330 to 920-0339	920-0350 to 920-0359	920-0370 to 920-0379
Max.swing diameter over bed	1250	1400	1600	1800	1900
Max.swing diameter over	880	1030	1230	1400	1500
Width of bed	1100mm				
Max.length of workpiece	1000 mm/2000mm/3000mm/4000mm/5000mm/6000mm/7000mm/8000mm				
Spindle nose	A15				
Spindle bore diameter	130mm				
Taper of spindle bore	Metric No.140#				
Range of spindle speed	3.15-315r/min 21kinds				
Longitudinal feeds range	0.1-12mm/r 56 kinds				
Transversal feeds range	0.05-6mm/r 56kinds				
Metric thread range	1-120mm 44kinds				
Inch thread range	3/8-28TPI 31kinds				
Module thread range	0.5-60mm 45kinds				
Pitch thread range	1-56TPI 25kinds				
Tailstock sleeve taper	Metric 80#				
Tailstock sleeve diameter	260mm				
Tailstock sleeve travel	200mm				
Main motor power	30kW				
Rapid motor power	1.5kW				
Coolant pump power	0.125kW				

* Please specify length of workpiece when order.

Standard accessories:

1. four-jaw chuck Φ 1250mm
2. Steady rest (For 2m and over)
3. Follow rest (For 2m and over)
4. MT6 Center
5. Center bush
6. Tools
7. Foundation screws

Optional accessories:

1. Metric chasing dial device
2. Inch chasing dial device
3. Inch leadscrew
4. T-type toolpost

Heavy Duty Lathe

The lathes turn end-faces, cylindrical surfaces and internal holes of various parts as well as metric, inch, module and pitch threads. The top slides can be operated individually by power for cutting short taper surface also, can be turned automatically through the compound movement combining longitudinal feed with the top slide feed. The lathe can be used for drilling, boring and trepanning.



Order No.	920-0280 to 920-0289	920-0300 to 920-0309	920-0320 to 920-0329	920-0340 to 920-0349	920-0360 to 920-0369
Max.swing diameter over bed	1250	1400	1600	1800	1900
Max.swing diameter over	880	1030	1230	1400	1500
Width of bed	1100mm				
Max.length of workpiece	1000 mm/2000mm/3000mm/4000mm/5000mm/6000mm/7000mm/8000mm				
Spindle nose	A15				
Spindle bore diameter	130mm				
Taper of spindle bore	Metric No.140#				
Range of spindle speed	3.15-315r/min 21kinds				
Longitudinal feeds range	0.1-12mm/r 56 kinds				
Transversal feeds range	0.05-6mm/r 56kinds				
Metric thread range	1-120mm 44kinds				
Inch thread range	3/8-28TPI 31kinds				
Module thread range	0.5-60mm 45kinds				
Pitch thread range	1-56TPI 25kinds				
Tailstock sleeve taper	Metric 80#				
Tailstock sleeve diameter	260mm				
Tailstock sleeve travel	200mm				
Main motor power	30kW				
Rapid motor power	1.5kW				
Coolant pump power	0.125kW				

* Please specify length of workpiece when order.

Standard accessories:

1. four-jaw chuck Φ 1250mm
2. Steady rest (For 2m and over)
3. Follow rest (For 2m and over)
4. MT6 Center
5. Center bush
6. Tools
7. Foundation screws

Optional accessories:

1. Metric chasing dial device
2. Inch chasing dial device
3. Inch leadscrew
4. T-type toolpost

Engine Lathe



The lathes turn end-faces, cylindrical surfaces and internal holes of various parts as well as metric, inch, module and pitch threads. The top slides can be operated individually by power for cutting short taper surface also, can be turned automatically through the compound movement combining longitudinal feed with the top slide feed. The lathe can be used for drilling, boring and trepanning.

Order No.	920-0120 to 920-0131	920-0144 to 920-0155	920-0168 to 920-0179	920-0192 to 920-0203
Swing over bed	1000	1250	1400	1600
Swing over slide	630	880	1030	1030
Max. length of workpiece	1000mm/2000mm/3000mm/4000mm/5000mm/6000mm/7000mm/8000mm/9000mm/10000mm			
Spindle nose	A15			
Spindle bore diameter	130mm			
Taper of spindle bore	Metric No.140#			
Range of spindle speed	3.15-315r/min 21kinds			
Longitudinal feeds range	0.1-12mm/r 56 kinds			
Transversal feeds range	0.05-6mm/r 56kinds			
Rapid speed,Z axis	3740mm/min			
Rapid speed,X axis	1870mm/min			
Rapid speed,uppe rtool-post	935mm/min			
Metric thread range	0-120mm 44kinds			
Inch thread range	3/8-28 teeth/inch. 31kinds			
Modular thread range	0.5-60mm 45kinds			
Pitch thread range	1-56teeth/inch 25kinds			
Tailstock sleeve taper	Morse NO.6			
Tail stock sleeve diameter	140mm			
Tails tock sleeve travel	300mm			
Main motor power	22kW			
Rapid motor power	1.5kW			
Coolantpumppower	0.125kW			

* Please specify length of workpiece when order.

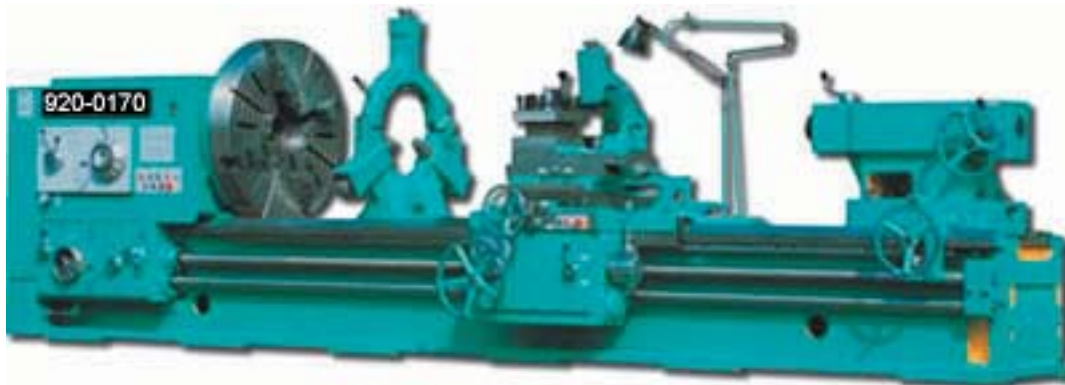
Standard accessories:

1. four-jaw chuck Φ 1250mm
2. Steady rest (For 2m and over)
3. Follow rest (For 2m and over)
4. MT6 Center
5. Center bush
6. Tools
7. Foundation screws

Optional accessories:

1. Metric chasing dial device
2. Inch chasing dial device
3. Inch leadscrew
4. T-type toolpost

Engine Gap Bed Lathe



The lathes turn end-faces, cylindrical surfaces and internal holes of various parts as well as metric, inch, module and pitch threads. The top slides can be operated individually by power for cutting short taper surface also, can be turned automatically through the compound movement combining longitudinal feed with the top slide feed. The lathe can be used for drilling, boring and trepanning.

Order No.	920-0132 to 920-0143	920-0156 to 920-0167	920-0180 to 920-0191	920-0204 to 920-0215
Swing over bed	1000	1250	1400	1600
Swing over slide	630	880	1030	1030
Max. swing over gap	1450	1700	1850	2050
Width of bed	755mm			
Max. length of workpiece	1000mm/2000mm/3000mm/4000mm/5000mm/6000mm/7000mm/8000mm/9000mm/10000mm/11000mm/12000mm			
Spindle nose	A15			
Spindle bore diameter	130mm			
Taper of spindle bore	Metric No.140#			
Range of spindle speed	3.15-315r/min 21kinds			
Longitudinal feeds range	0.1-12mm/r 56 kinds			
Transversal feeds range	0.05-6mm/r 56kinds			
Rapid speed,Z axis	3740mm/min			
Rapid speed,X axis	1870mm/min			
Rapid speed,uppe rtool-post	935mm/min			
Metrec thread range	0-120mm 44kinds			
Inch thread range	3/8-28 teeth/iuch. 31kinds			
Modular thread range	0.5-60mm 45kinds			
Pitch thread range	1-56teech/iuch 25kinds			
Tailstock sleeve taper	Morse NO.6			
Tail stock sleeve diameter	140mm			
Tails tock sleeve travel	300mm			
Main motor power	22kW			
Rapid motor power	1.5kW			
Coolantpumppower	0.125kW			

* Please specify length of workpiece when order.

Standard accessories:

1. four-jaw chuck Φ 1250mm
2. Steady rest (For 2m and over)
3. Follow rest (For 2m and over)
4. MT6 Center
5. Center bush
6. Tools
7. Foundation screws

Optional accessories:

1. Metric chasing dial device
2. Inch chasing dial device
3. Inch leadscrew
4. T-type toolpost

Engine Lathe

Main Features:

- * Large spindle bore(Φ 120mm).
- * High accuracy and low noise for its hardened and ground gears in the headstock.
- * New slide bearing patented by the State has good antivibration and constant spindle accuracy.
- * Optional double aprons for extra long lathes.
- * Rapid removing device used by apron with high efficiency.
- * Special accessories and special machines design aviable.



Order No.	920-0220 to 920-0228	920-0229 to 920-0237	920-0238 to 920-0246	920-0247 to 920-0255	920-0256 to 920-0264	920-0265 to 920-0273
Max.swing Dia.over bed (mm)	630	630	710	710	800	800
Max.swing Dia.over saddle (mm)	390	390	460	460	550	550
Max.swing over gap (mm)		830		910		1000
Max.length of workpiece	1m, 1.5m, 2m, 3m, 4m, 5m, 6m, 8m					
Spindle bore diameter	120mm					
Spindle taper	Camlock D11					
Range of spindle speed	12-1000 rpm (18 speeds)					
Cross feed	0.082-1.59mm/r (35 feeds)					
Longitudinal feed	0.027-0.522mm/r (35 feeds0)					
Range of spindle speed	12-1000 rpm (18 speeds)					
Range of metric thread (mm)	1-192 (57 threads)					
Range of inch thread (tpi)	2-24 (30 threads)					
Range of module thread (mm)	0.25-48 (40 threads)					
Range of pitch thread (DP)	1-96 (37 threads)					
Tailstock quill taper	MT5					
Quill Travel	250mm					
Quill bore diameter	100mm					
Total power of moter	7.875 KW					
Rapid travel Motor	0.25KW					
Coolant pump motor	0.125KW					

* Please specify length of workpiece when order.

Standard accessories:

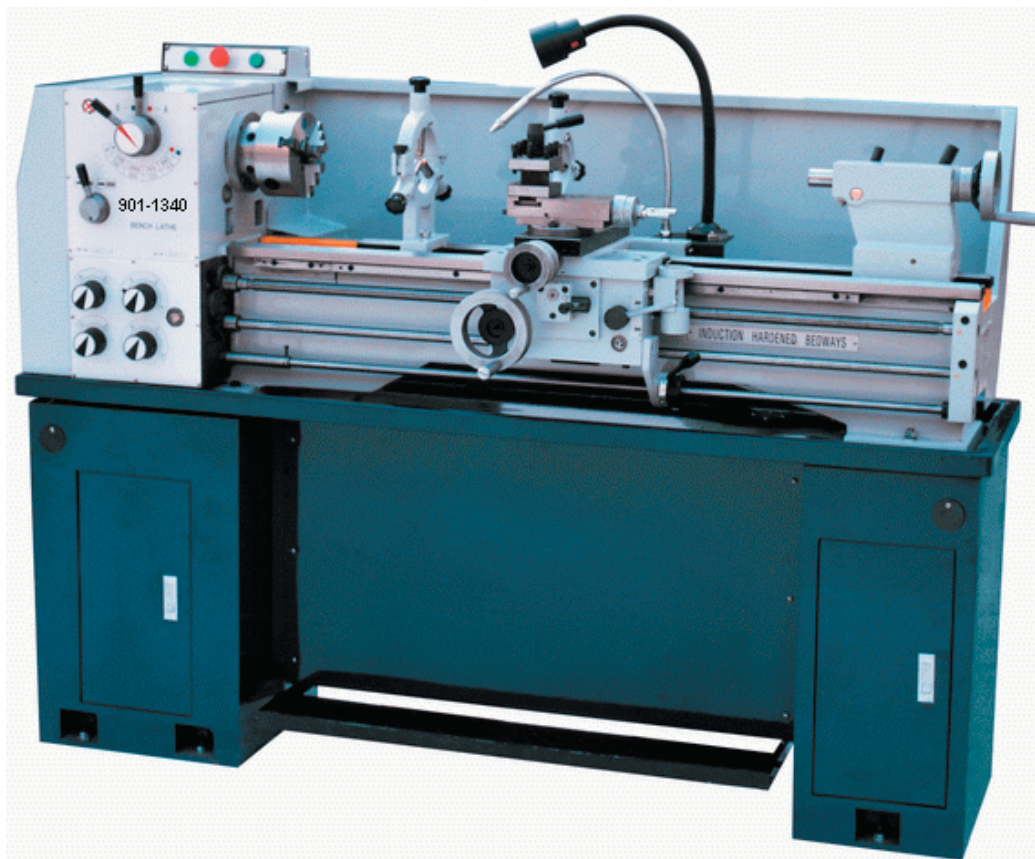
- 1.3-jaw self-centering chuck
2. center bush
3. center MT No.5
4. oil gun
5. tools
6. foundation screw and wedge for nuts
7. operation and maintenance book
8. steady rest
9. follow rest
10. face plate

- 11.drive plate
12. chasing dial device
- 13.light
14. coolant pump

Optional accessories:

1. taper turning attachment
2. large diameter steady rest Φ 150-390mm
3. digital readout
4. revolving center

Bench Lathe

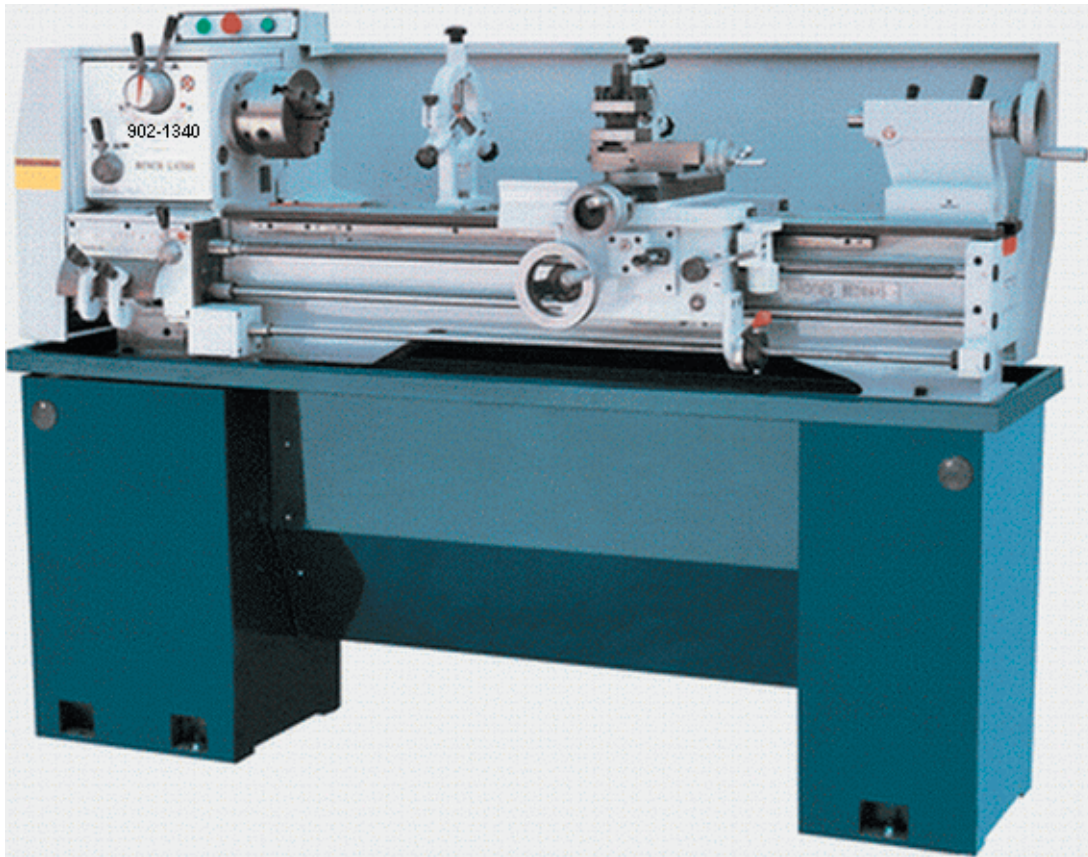


Order NO.	901-1340
Swing over bed	13" (330mm)
Distance between centers	40" (1000mm)
Swing over gap	18-3/4" (476mm)
Spindle Bore Diameter	1-1/2" (38mm)
Camlock Spindle Nose	D 1-4" ASA Standard (ISO)
Taper of spindle nose	MT5
Step of speeds	8 steps
Range of speed	70-2000 r/min
Inch thread(34 kinds)	4~56T.P.I.
Metric thread(26 kinds)	0.4~7.00mm
Longitudinal inch feeds (32 kinds)	0.002-0.0548"/rev
Longitudinal metric feeds (32 kinds)	0.052-1.392mm/rev
Cross inch feeds (32 kinds)	0.0007-0.0187"/rev
Cross metric feeds (32 kinds)	0.014-0.380mm/rev
Diameter of Tailstock Sleeve	1-1/4" (32mm)
Travel of Tailstock Sleeve	3-3/4" (95mm)
Taper of Tailstock	MT3
Motor Power	1.5KW or 2 HP
Voltage/Frequency	As per Customer's requirement
Package Size	1920 x 760 x 760mm
Net Weight/Gross Weight	500kg/560kg
20FT Container Load	18pcs

Standard Accessories

- * 8" 3-Jaw chuck
- * 8" 4-Jaw chuck
- * 10" face plate
- * Steady rest
- * Follow rest
- * Coolant system
- * Full length splash guard
- * Built-in stand
- * Dual inch/metric dials
- * Turret micrometer stop
- * Driving plate
- * Extra 8" D1-4 backplate
- * Centers, center sleeve, service tools, manual and toolbox

Bench Lathe



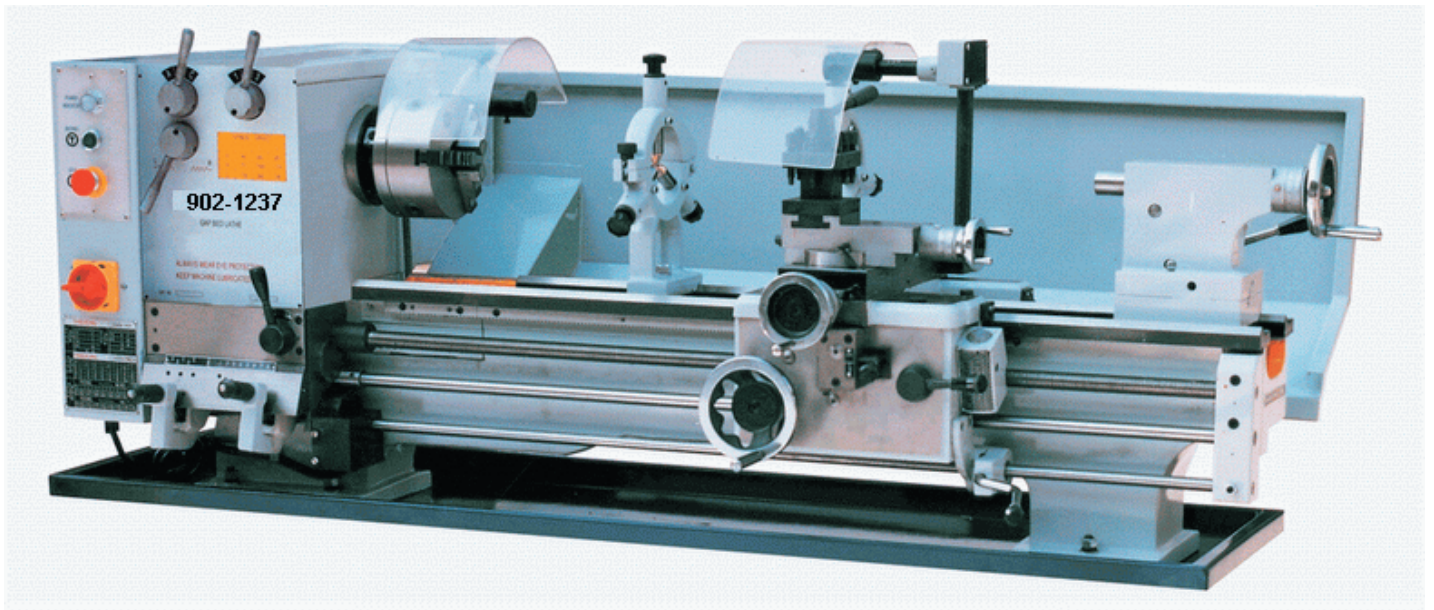
MODEL	902-1340
Swing over bed	13" (330mm)
Distance between centers	40" (1000mm)
Swing over gap	18-3/4" (476mm)
Spindle Bore Diameter	1-1/2" (38mm)
Spindle size and type	D 1-4" Camlock
Spindle nose table	MT5
Number of spindle speed	8
Range of speed	70-2000 r/min
Range of inch thread (40 threads)	4~112T.P.I.
Range of metric thread (23 threads)	0.25~11mm
Range of diametral thread (25 threads)	8~64D.P.
Range of moulder threads (15 threads)	0.25~3M.P.
Range of longitudinal inch feeds (40 feeds)	0.0036~0.1005"/rev
Range of longitudinal metric feeds (40 feeds)	0.091~2.553mm/rev
Range of cross inch feeds (40 feeds)	0.0012~0.0345"/rev
Range of cross metric feeds (40 feeds)	0.025~0.690mm/rev
Diameter of Tailstock barrel	1-1/4" (32mm)
Tailstock barrel travel	3-3/4" (95mm)
Tailstock barrel taper	MT3
Motor	1.5KW or 2 HP
Voltage/Frequency	As per Customer's requirement
Package Size	1920 x 760 x 760mm
Net Weight/Gross Weight	495kg/555kg
20FT Container Load	18pcs

Standard Accessories

- * 8" 3-Jaw chuck
- * 8" 4-Jaw chuck
- * 10" face plate
- * Steady rest
- * Follow rest
- * Coolant system
- * Full length splash guard
- * Built-in stand
- * Dual inch/metric dials
- * Turret micrometer stop
- * Driving plate
- * Extra 8" D1-4 backplate
- * Centers, center sleeve, service tools, manual and toolbox

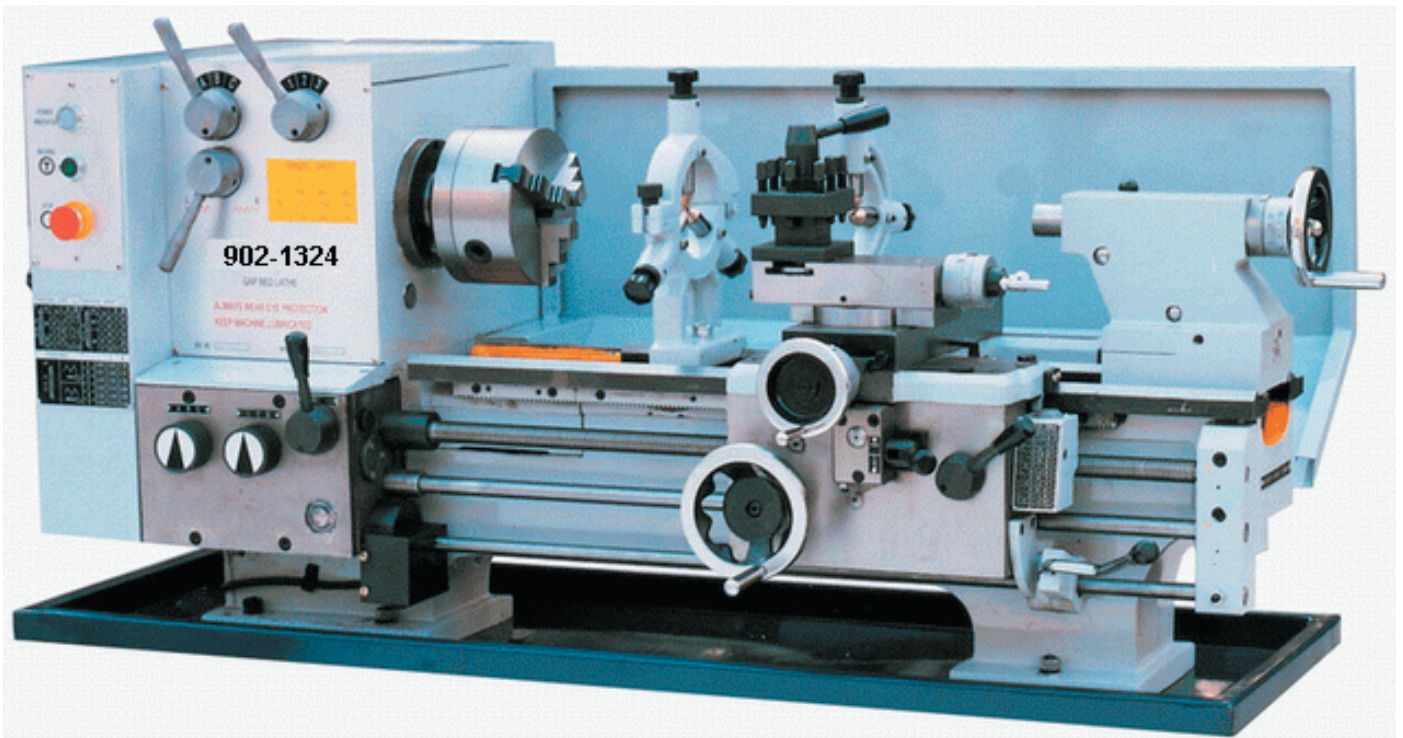
*Optional stand

Bench Lathe



Order No.	902-1237	902-12224
Swing over bed	305mm	305mm
Distance between centers	940mm	530mm
Swing over gap	440mm	440mm
Swing over carriage	173mm	173mm
SPINDLE		
Spindle Bore Diameter	38mm	38mm
Taper of spindle	M.T.5	M.T.5
Step of speed	12 kinds	9 kinds
Range of speed	64-1500r.p.m.	64-1500r.p.m.
FEED SYSTEM (COLSED BOX)		
Thread of lead screw	8T.P.I.	8T.P.I.
Metric thread can open	0.5-3.5mm	0.5-3.5mm
Inch thread can open	7-1/2-48T.P.I.(14 kinds)	7-1/2-48T.P.I.(14 kinds)
Range of feed amount	0.051-0.152mm/r (9kinds)	0.051~0.152mm/r(9 kinds)
OR FEED SYSTEM (NORTON LEVER BOX)		
Thread of lead screw	8T.P.I.	8T.P.I.
Metric thread can open	0.25~7.5mm	0.25~7.5mm
Inch thread can open	4-112T.P.I. (40kinds)	4-112T.P.I. (40kinds)
Range of feed amount	0.12-0.42mm/r (16kinds)	0.12-0.42mm/r (16kinds)
Saddle travel	850mm	510mm
Cross travel	150mm (5-29/32")	150mm (5-29/32")
Compound travel	90mm (3-6/11")	90mm (3-6/11")
Diameter of Tailstock Sleeve	1-1/4" (32mm)	1-1/4" (32mm)
Travel of Tailstock Sleeve	100mm	100mm
Taper of Tailstock	M.T.3	MT3
MOTOR		
	1.1KW (1.5HP)	1.1KW (1.5HP)
Voltage/Frequency	As per customer's requirement	
Packing size Machine	1780 x 740 x 750mm	1420 x 740 x 750mm
Netweight/Gross Weight	395kg/445kg	380kg/430kg
20FT container load	24pcs	27pcs

Bench Lathe



Order NO.	902-1324
Swing over bed	13" (330mm)
Distance between centers	530mm
Swing over gap	18-57/64" (480mm)
Swing over carriage	7-43/64" (195mm)
Spindle Bore Diameter	1-1/2" (38mm)
Taper of spindle nose	M.T.5
Step of speed	9 kinds
Range of speed	64~1500RPM
Range of speed (50HZ)	(60Hz)
Thread of lead screw	8TPI
Metric thread	0.25-7.5mm
Inch thread	4-112T.P.I.
Range of feeds (16 kinds)	0.12-0.42mm/r
Saddle travel	20-25/64" (510mm)
Cross travel	150mm (5-29/32")
Compound travel	90mm (3-6/11")
Diameter of Tailstock Sleeve	1-1/4" (32mm)
Travel of Tailstock Sleeve	100mm
Taper of Tailstock	M.T.3
MOTOR POWER	1.1KW (1.5HP)
Voltage/Frequency	As per customer's requirement
Package Size	1420 x 740 x 750mm
Net Weight/Gross Weight	382kg/432kg
20FT Container Load	27pcs/20'container

*Optional stand.

Standard Accessories

- * 8" 3-Jaw chuck
- * 8" 4-Jaw chuck
- * 10" face plate
- * Steady rest
- * Follow rest
- * Coolant system
- * Full length splash guard
- * Built-in stand
- * Dual inch/metric dials
- * Turret micrometer stop
- * Driving plate
- * Extra 8" D1-4 backplate
- * Centers, center sleeve, service tools, manual and toolbox

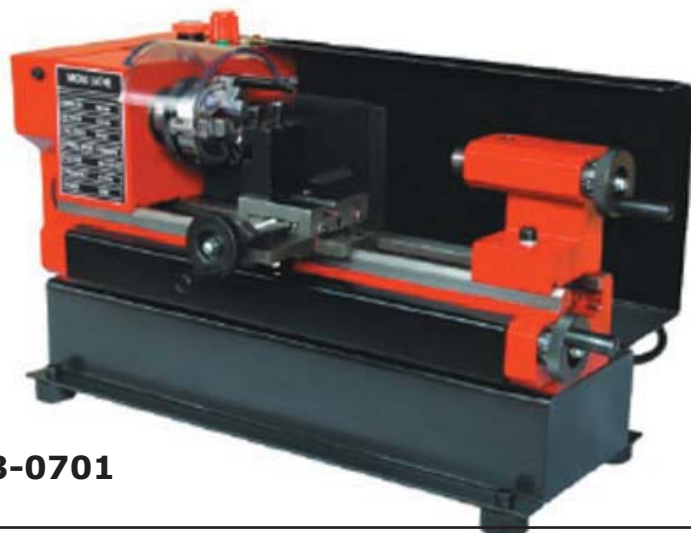
BABY LATHE

Specifications

Swing over bed: 110 mm
Distance between centers: 125 mm
Hole through spindle: 10 mm
Tailstock screw: M14x1mm
Spindle speed: 100-3800 rpm+10%
Cross slide travel: 50mm
Motor output power: 150W
Overall dimension(LxWxH):440x270x210mm
Weight(net/gross): 13/22kg
Packing size(LxWxH): 600x400x310mm

Standard Attachment

Dia.50mm Three jaw chuc
Wrench set
Oil can



Order No.903-0701

Features

Variable speed
Over-load protection
Inside leadscrew

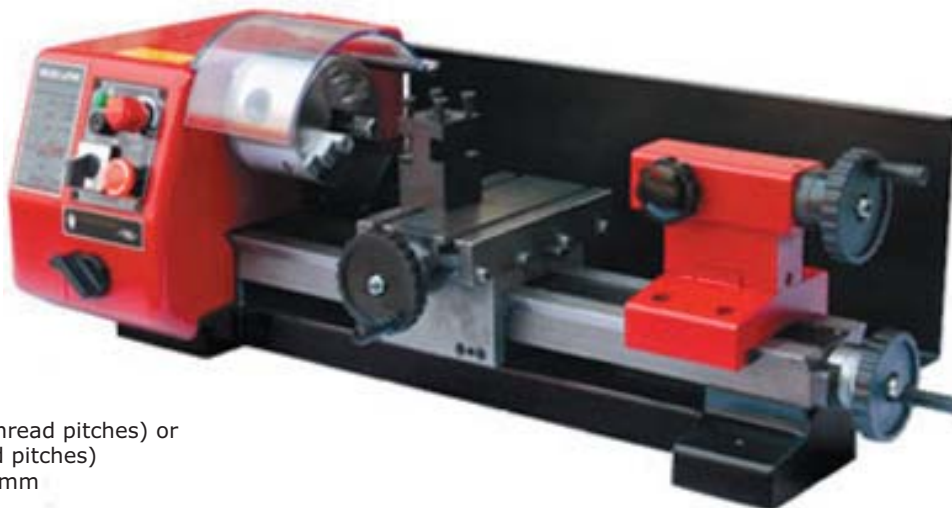
Standard Attachment

Dia.80mm Three jaw chuck
Dead center MT1
Wrench set Oil can

Specifications

Swing over bed: 140 mm
Distance between centers: 250 mm
Hole through spindle: 10 mm
Spindle taper: MT2
Tailstock taper: MT1
Spindle speed: 100-2000 rpm±10%
Motor output power: 150W
Range of threads: Metric 0.5-1.25mm(5 thread pitches) or
 Inch 16-24TPI(5 thread pitches)
Overall dimension(LxWxH): 620x300x220mm
Weight(net/gross): 23kg/32kg
Packing size(LxWxH):680x340x305mm

MICRO LATHE



Order No.903-0702

Standard Attachment

Dia.80mm Three jaw chuck
MT2 center
Change gear set
Wrench set
Oil can

Specifications

Swing over bed: 180 mm
Distance between centers: 350 mm
Hole through spindle: 20 mm
Spindle taper: MT3
Tailstock taper: MT2
Spindle speed: Low range100-1200 rpm±10%
 High range 100-3000 rpm±10%
Motor output power: 350W
Range of threads: Metric 0.4-2.0mm(10 thread pitches) or
 Inch 12-52TPI(8 thread pitches)
Weight(net/gross): 44kg/56kg
Packing size(LxWxH): 870x340x370mm

MINI LATHE



Order No.903-0717

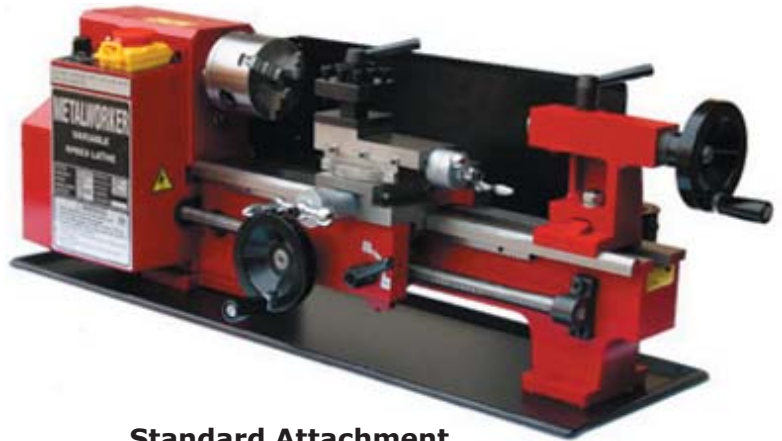
MINI LATHE

Features

- Safety switch
- Variable speed
- Four position turret post
- Complete set of changing gear
- High accurate

Specifications

Order No.	903-0715	903-0716
Swing over bed	180 mm	180 mm
Distance between centers	200 mm	300 mm
Hole through spindle	20 mm	20 mm
Spindle taper	MT3	MT3
Tailstock taper	MT2	MT2
Spindle speed	low range	100-1100 rpm±10%
	high range	100-2500 rpm±10%
output power	250 W	
Range of threads(12 metric or 8 inch thread)	Metric 0.4-2.0mm	
	or Inch 12-52 TPI	
Net/Gross weight	33/36 kg	37/40 kg



Standard Attachment

- Dia.80mm Three jaw chuck
- MT2 center
- Change gear set
- Wrench set
- Oil can

BENCH LATHE

Features

- Brushless motor
- Touching switch panel
- Digital spindle speed read out
- Cross and longitudinal auto feed
- Cut metric and Inch screw
- Quick lock tailstock

Specifications

- Swing over bed: 210 mm
- Distance between centers: 450 mm
- Hole through spindle: 20 mm
- Spindle taper: MT3
- Tailstock taper: MT2
- Spindle speed: 150-2000 rpm+10%
- Compound travel: 70mm
- Cross slide travel: 100mm
- Motor output power: 1000W
- Thread range: Metric 0.25-3.0mm and Inch 5-24 TPI
- Overall dimension(LxWxH): 1000x550x400mm
- Weight(net/gross): 94kg/125kg
- Packing size(LxWxH): 1080x660x610mm



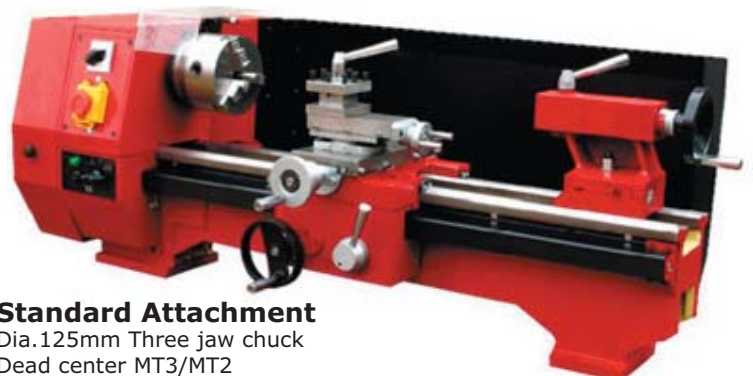
Standard Attachment

- Dia.100mm Three jaw chuck
- Dead center
- Change gear set
- Wrench set
- Oil can

Order No.903-0737

BENCH LATHE

Order No.	903-0718	903-0719
Swing over bed	250 mm	250 mm
Distance between centers	400 mm	500 mm
Hole through spindle	20 mm	20 mm
Spindle taper	MT3	MT3
Tailstock taper	MT2	MT2
Spindle speed(6 stpes)	125-2000 rpm	
Motor output power	550W	
Range of threads (12 metric or 8 inch thread)	Metric 0.4-3.0mm or inch 10-44TPI	
Net/Gross weight	125kg/160kg	145kg/180kg
Packing size	1100*680*610mm	

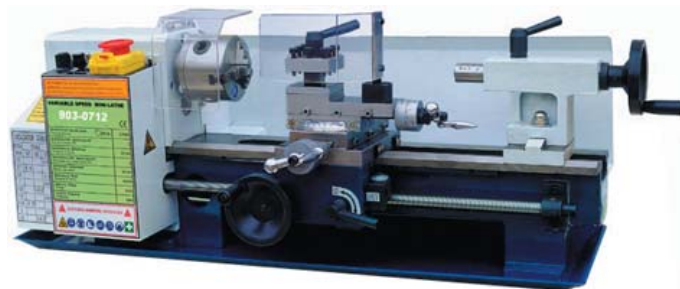


Standard Attachment

- Dia.125mm Three jaw chuck
- Dead center MT3/MT2
- Change gear set
- Wrench set
- Oil can

VARIABLE SPEED MINI LATHE

- * The mini lathe is used for turning, facing, making models, bushings, spindles, prototypes, etc.
- * Variable speed DC motor from 50 to 2500rpm.



Order No.	903-0708	903-0712	903-0714
Distance between center	200mm	300mm	350mm
Swing over bed	180mm		
Swing over cross slide	110mm		
Spingle taper	MT3		
Tailstock taper	MT2		
Chuck diameter	80mm		
Spindle bore	20mm		
Cross slide travel	65mm		
Tool slide travel	35mm		
Range of metric threads	0.5-2.5mm		
Range of imperial threads	12-52TPI		
Spindle accuracy	0.01mm		
Spindle speed	50-2500RPM		
Power of motor	400W/550W		
Vol./Freq.	230V/50Hz or 120V/60Hz		
Net weight	35kg	38kg	40kg
Gross weight	38kg	42kg	45KG
Packing size (cm)	66X31X32	76X31X32	81X31X32

VARIABLE SPEED MINI LATHE

- * The mini lathe is used for turning, facing, making models, bushings, spindles, prototypes, etc.
- * Variable speed DC motor from 50 to 2500rpm.
- * Spindle speed digital readout display.
- * Spindle speed adjusted by MCU.Rotary direction"F"or"R"changed by key.



Order No.	903-1708	903-1712	903-1714
Distance between center	200mm	300mm	350mm
Swing over bed	180mm		
Swing over cross slide	110mm		
Spingle taper	MT3		
Tailstock taper	MT2		
Chuck diameter	80mm		
Spindle bore	20mm		
Cross slide travel	65mm		
Tool slide travel	35mm		
Range of metric threads	0.5-2.5mm		
Range of imperial threads	12-52TPI		
Spindle accuracy	0.01mm		
Spindle speed	50-2500RPM		
Power of motor	400W/550W		
Vol./Freq.	230V/50Hz or 120V/60Hz		
Net weight	35kg	38kg	40kg
Gross weight	38kg	42kg	45KG
Packing size (cm)	66X31X32	76X31X32	81X31X32

VARIABLE SPEED MINI LATHE

Features:

- * Designed to perform various types of processing jobs. Counterface turning, drilling, threading, and cutting jobs on materials made up of round bar and bar materials can be performed with this machine. This machine can be used in areas such as miniprecision parts processing, sample processing and modeling works.
- * DC motor driven.
- * Variable spindle speed readout from 50 to 2500RPM.
- * Adjustable feed for different workpieces.



Order No.	903-2708	903-2712	903-2714
Distance between center	200mm	300mm	350mm
Swing over bed	180mm		
Swing over cross slide	110mm		
Spindle taper	MT3		
Tailstock taper	MT2		
Chuck diameter	80mm		
Spindle bore	20mm		
Cross slide travel	65mm		
Tool slide travel	35mm		
Range of metric threads	0.5-2.5mm		
Range of imperial threads	12-52TPI		
Spindle accuracy	0.01mm		
Spindle speed	50-2500RPM		
Power of motor	400W/550W		
Vol./Freq.	230V/50Hz or 120V/60Hz		
Net weight	35kg	38kg	40kg
Gross weight	38kg	42kg	45KG
Packing size (cm)	66X31X32	76X31X32	81X31X32

BENCH LATHE

Features:

- * This precision mini lathe is designed to perform various tapes of processing jobs. Counterface turning, drilling, boring, threading, and cutting jobs on materials made up of round bar and bar materials can be performed with this machine. This machine can be used in areas such as mini precision parts processing, sample processing and modeling works.
- * This machine AC motor driven.
- * The spindle speed: 100, 250, 350, 500, 900, 1800RPM(50HZ) 120, 300, 420, 600, 1080 2150RPM(60HZ)
- * The feed speed can be adjusted according to the requirements of different workpieces.



Order No.	903-3920	903-3930
Distance between centers	500mm	750mm
Swing over bed	230mm	
Swing over cross slide	135mm	
Spindle taper	MT3	
Tailstock Barrel Taper	MT2	
Chuck diameter	100mm	
Spindle bore	20mm	
Cross slide travel	125mm	
Compound Travel	48mm	
Range of metric threads	0.5-3mm	
Range of imperial threads	8-56TPI	
Spindle accuracy	0.01mm	
Spindle speed	100-1800RPM(50Hz)	
Power of motor	750W	
Vol./Freq.	230V/50Hz or 120V/60Hz	
Net weight	105kg	135kg
Gross weight	120kg	150kg
Packing size (CM)	106X58X57	130x58x57

GEAR-DRIVEN LATHE

Specifications

Max.swing over bed: 320mm
 Max.swing over gap: 470mm
 Max.turning dia.over cross slide: 198mm
 Max.length to be turned: 1000mm
 Speed steps: 8
 Speed range: 70-2000rpm
 Spindle bore: dia. 38mm
 Taper of spindle bore: MT5
 Longitudinal: 0.078-1.044 or 0.052-1.392
 Transverse: 0.017-0.226 or 0.014-0.376
 Metric threads: 0.45-10 or 0.4-7
 Whitworth threads: 21/4-40 or 4-56
 Cross slide travel: 160mm
 Top slide travel: 76mm
 Swiveling angle of turret: 45 degree
 Distance from the tool bearing surface to centerline: 18mm
 Movement of tailstock quill: 100mm
 Taper of tailstock quill bore: MT3
 Power of main drive motor: 1.1 or 1.5KW
 Packing size (1package)(LxWxH) : 198x75x145cm
 Gross weight(kg): 670



Order No.903-0734

GEAR-DRIVEN LATHE



GEAR-DRIVEN LATHE



Order No.	903-0730	903-0731
Max.swing over bed	300mm	300mm
Max.swing over gap	450mm	450mm
Max.turning over cross slide	178mm	178mm
Max.length to be turned	710	910mm
Speed steps	9	18
Speed range	65~1810rpm	65~1810rpm
Spindle bore dia	38mm	38mm
Taper of spindle bore	MT5	MT5
Longitudinal	0.079~1.291	0.079~1.291
Transverse	0.017~0.276	0.017~0.276
Metric threads	0.4~7	0.4~7
Whitworth threads	4~60	4~60
Cross slide travel	150mm	150mm
Top slide travel	76mm	76mm
Swiveling angle of turret	45 degree	45 degree
Distance from the tool bearing surface to centerline	14mm	14mm
Movement of tailstock quill	100mm	100mm
Taper of tailstock quill bore	MT3	MT3
Power of main drive motor	1.1or1.5KW	1.1or1.5KW
Packing size(LxWxH)	148*75*140cm	148*75*140cm
Gross weight(kg)	550	550

Order No.	903-0732	903-0733
Max.swing over bed	320mm	320mm
Max.swing over gap	470mm	470mm
Max.turning dia.over cross slide	198mm	198mm
Max.length to be turned	880mm	1000mm
Speed steps	8	8
Speed range	70~2000rpm	70~2000rpm
Spindle bore dia	38mm	38mm
Taper of spindle bore	MT5	MT5
Longitudinal	0.079~1.291	0.079~1.291
Transverse	0.017~0.276	0.017~0.276
Metric threads	0.4~7	0.4~7
Whitworth threads	4~60	4~60
Cross slide travel	160mm	160mm
Top slide travel	76mm	76mm
Swiveling angle of turret	± 45 °	± 45 °
Distance from the tool bearing surface to centerline	18mm	18mm
Movement of tailstock quill	100mm	100mm
Taper of tailstock quill bore	MT3	MT3
Power of main drive motor	1.1or1.5KW	1.1or1.5KW
Packing size(LxWxH)	168*75*140cm	185*75*140cm
Gross weight(kg)	560	600

Slant Bed CNC Lathe

This CNC lathe satisfies all your machining need for auto parts, motorcycle parts, valves and other complexly shaped parts at any quantities, large, medium or even small. It is of high speed, high precision and high efficiency.



Technical Data:

Max. swing over bed: Ø500mm
 Max. turning diameter: Ø420mm
 Max. cross travel (X): 220mm
 Max. longitudinal travel (Z): 650mm
 Rapid feed for axis X: 12m/min
 Rapid feed for axis Z: 20m/min
 Max. speed of spindle: 4000rpm
 Diameter of spindle through bore: Ø65mm
 Spindle nose: A2-6
 Taper bore of spindle: Ø80mm 1:20
 Hydraulic chuck: Ø200mm
 Number of tools: 12
 Outside dia. of cutting tool shank: 25x25mm
 Inner dia. Of cutting tool shank: Ø32mm
 Tailstock sleeve diameter: Ø63mm
 Tailstock sleeve travel: 100mm
 Taper hole of tailstock quill: M.T.No.3
 Min. Input: .001mm
 Bed structure: 45° slant bed integrated with stand
 Capacity for coolant: 120L
 Main motor power(X/Z): 11/15KW
 Tool compensation model: Wear/geometric
 Overall dimension(LxWxH): 3712x1660x1850mm
 Net weight: 4500kg

Features:

- * MITSUBISHI or FANUC control system.
- * Servo motors.
- * LIO SHING 12-station hydraulic turret.
- * Tool change time upto 0.3 second.
- * NSK bearings.
- * Automatic and timed lubrication system.
- * Stainless steel inner protection and totally enclosed outer protection.
- * Optional customerized control system and accessories.

Stand kit:

- * Fanuc Oi Mate MC control system
- * Slant lathe body
- * Linear bedways

Order No. 920-2026

CNC LATHE



Specifications:

Max.swing over bed: 360mm(14")
 Max.cutting dia for axle parts: 150mm (6")
 Max.cutting dia. for disc parts: 250mm(10")
 Max. cross travel(X): 150mm(6")
 Max. longitudinal travel(Z): 320mm,500mm(12",19-5/8")
 Rapid feed for axis X: 12m/min (427in/min)
 Rapid feed for axis Z: 20m/min (787in/min)
 Max. longitudinal travel (z): 6000r/min
 Taper bore of spindle: MT5
 Spindle nose: A2-5
 Hydraulic chuck: 6"
 Number of tools: 8
 Outside dia. Of cutting tool shank: 20x20mm (7/8"x7/8")
 Inner dia. Of cutting tool shank: ϕ 25mm (1")
 Hydraulic tailstock sleeve dia.: ϕ 80mm(3-1/8")
 Tailstock sleeve travel: 90mm(3-1/2")
 Min. displacement: 0.0005/0.001mm
 Min. input 0.001mm:
 Manual pulse generator: 0.001/0.01/0.1mm
 Bed structure: 45°slant bed integrated with stand
 Guide ways X&Z: Precision linear ball rail
 Tool compensation model: Wear/geometric
 Metric/Inch switch function: G20,G21
 MNI/CRT unit: 9" single color display
 Main motor power(X/Z): 5.5/7.5kW (7.5/10HP)
 Drive motors power(X/Z): 1.0/1.0kW
 Capacity for coolant: 100L
 Overall dimensions(LxWxH): 2700x1460x1680mm
 Net weight: 3600kg (7930lbs)

This CNC lathe is capable of high speed, precision and high efficiency cutting turning for complex parts. It is suitable for auto parts, motorcycle parts, valves and otehr similiar part maching at large, medium or samll quantities.

Features:

- * Unique design
- * MITSUBISHI or FANUC control system.
- * German SAUTER tool post.
- * Servo motors.
- * LIO SHING 12-station hydraulic tarrent.
- * Tool change time upto 0.3 second.
- * NSK bearings.
- * Automatic and timed lubrication system.
- * Stainless steel inner protection and totally enclosed outer protection.
- * Optional customerized control system and accessories.

Stand kit:

- * Fanuc Oi Mate MC control system
- * Slant lathe body
- * Linear bedways

Order No. 920-1406

CNC LATHE



Technical Data

Max.swing over bed 360mm (14")
 Max.cutting dia. For axle parts: 150mm (6")
 Max.cutting dia.for disc parts: 250mm (10")
 Max. cross travel(X): 150mm (6")
 Max. longitudinal travel(Z): 320mm,500mm (12",19-5/8")
 Rapid feed for Axis X: 10m/min (349in/min)
 Rapid feed for Axis Z: 16m/min (630in/min)
 Max. speed of spindle: 4000r/min (3500r/min*)
 Taper bore of spindle: M.T.No.5 or M.T.NO.6
 Spindle nose: A2-5 or A2-6
 Hydraulic chuck: 6" or 8" optional
 Number of tools: 8
 Outside dia. Of cutting tool shank: 20×20mm (7/8"×7/8")
 Inner dia. Of cutting tool shank: φ25mm (1")
 Hydraulic tailstock sleeve dia.: φ80mm 3-1/8")
 Tailstock sleeve travel: 90mm (3-1/2")
 Min. input: 0.001mm
 Manual pulse generator: 0.001/0.01/0.1mm
 Bed structure: 45°slant bed integrated with stand
 Guide ways X&Z: Precision linear ball rail
 Tool conensation model: Wear/geometric compensation
 Spindle frequency variable motor: 5.5KW(7.5HP)
 Capacity for coolant: 100L
 Overall dimensions(L×W×H): 2700×1460×1680mm
 Net weigh: 3600kg(7930lbs)

Standard Accessories

- * Totally enclosed fencing system.
- * Lubrication system.
- * Hydraulic system.
- * Solid hydraulic chuck
- * Operation manual
- * FANUC Oi Mate MC control system

Optional Accessories:

- * Hydraulic tailstock
- * Automatic bar feeding system.
- * Hydraulic 5C collet clamping system.

Features:

- * Fanuc Oi Mate MC control system
- * Slant lathe body
- * Linear bedways

Order No. 920-1407

Slant Bed CNC Lathe



Technical Data:

Max.swing ober bed: $\Phi 410\text{mm}$
 Max. turned diameter: $\Phi 360\text{mm}$
 Max. cross travel(X): 180mm
 Max. longitudinal travel (Z): 420mm
 Max. turned length: 350mm
 Rapid feed for Axis X: 9m/min
 Rapid feed for Axis Z: 15m/min
 Max. spindle speed: 4000rpm with 160mm chuck or
 3000rpm with 200mm chuck
 Number of tool post: 8
 Spindle nose: A2-5
 Spindle bore: $\Phi 63\text{mm}$
 Outside dia. Cutting tool shank: 20mmx20mm
 Max. inner dia. Cutting tool shank: $\Phi 25\text{mm}$
 Min. displacement(X/Z): 0.0005/0.001mm
 Min. input: 0.001mm
 Manual pulse generator: 0.001/0.01/0.1mm
 Bed structure: 60°Slant bed
 Guide ways X&Z: Precision linear ball rail
 Tool compensation mode: Wear/geometric compensation
 Repeatability (X/Z): 0.005mm/0.006mm
 Surface roughness: $\leq \text{Ra}0.8\mu\text{m}$ (Nonferrous)
 $\leq \text{Ra}1.6\mu\text{m}$ (Steel part)
 Metric/inch swith function: G20/G21
 Main motor power: 5.5KW
 Capacity for coolant: 100L
 Overall dimensions(LxWxH): 2435x1270x1660mm
 Net weight: 3500kg

Features:

- * Slant lathe body
- * Linear bedways
- * Rapid X/Z axis feed.
- * Tool compensation
- * Easy Incy/Metric conversion

Standard Kit

- * Fanuc Oi Mate MC control system
- * Total sealed fencing system.
- * Lubrication system.
- * 200mm solid hydraulic lathe chuck.
- * Operation Manual

Optional Accessoreis

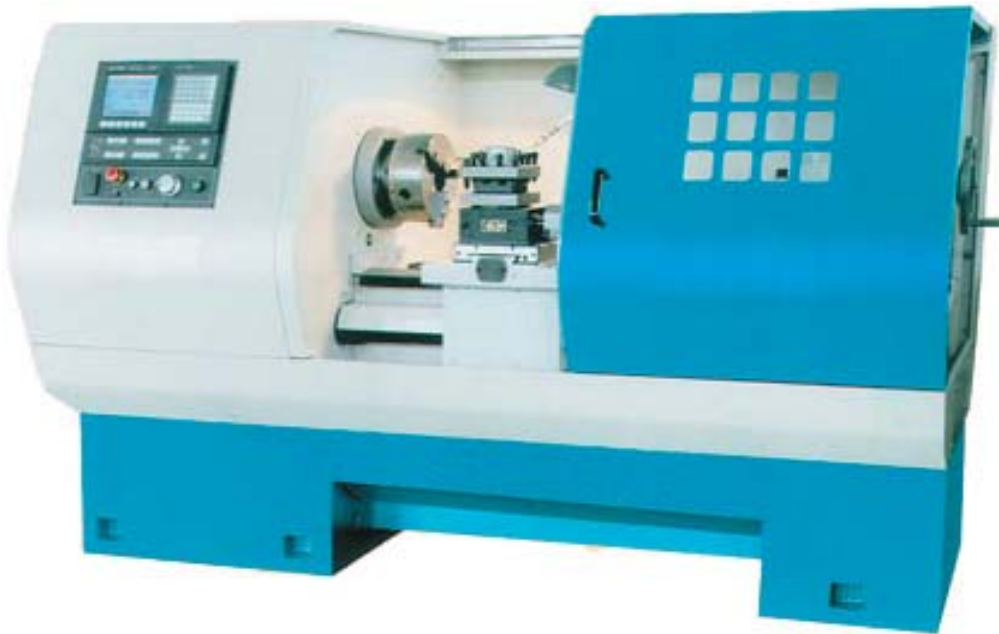
- * HOLLOWED hydraulic lathe chuck
- * automatic back chip conveying system.
- * Hydraulic tailstock

Order No. 920-3207

Big Bore Variable Speed CNC Lathe

Features:

- * ISO coding, manual keyboard data input, power failure protection, automatic diagnosis, R232 interface.
- * X and Z axis power feed driven by servo motor and ball screws.
- * Standard 4-station tool post. Optional 6-station or gang tools either horizontal or vertical
- * Standard manual lathe chuck and tailstock. Optional hydraulic.
- * Supersonic frequency hardened and precision ground guideways.
- * 105mm spindle bore.
- * Programmable high and low variable spindle speeds.
- * No vibration even at 80mm cutting depth.



Stand kit

- * FANUC Oi Mate TC control system
- * Hitachi inverter
- * FUKUTA inverter motor
- * Manual lathe chuck
- * 4 way power-driven toolpost

Optional accessories

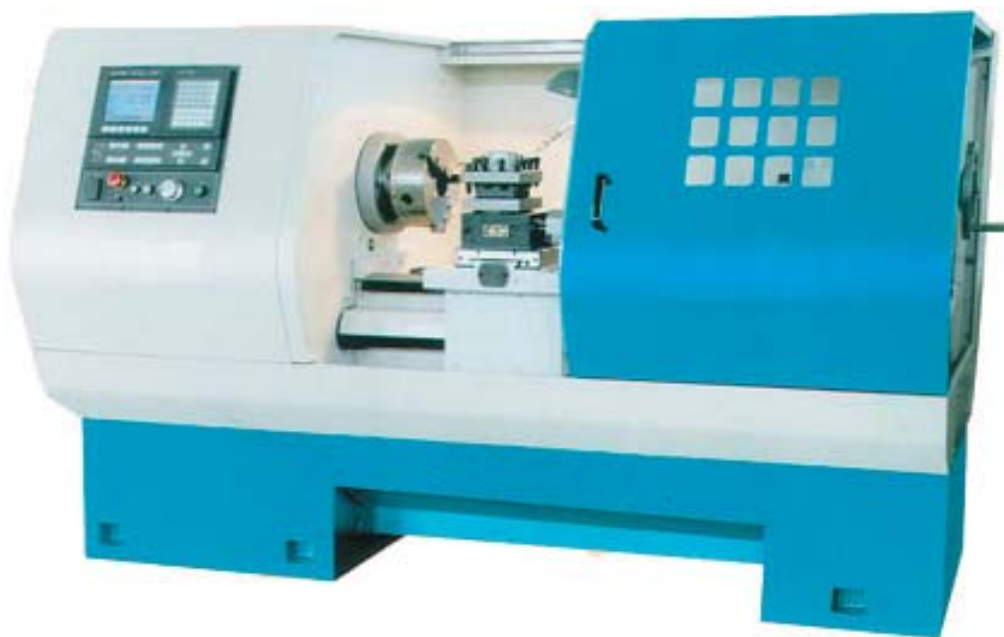
- * Solid hydraulic chuck
- * Hollow hydraulic chuck
- * Hydraulic tailstock
- * 6 way power-drive toolpost

Order No.	920-0035	920-0036	920-0037	920-0038	920-0039
Max. Swing over bed	Φ660mm				
Max. Length of workpiece	750mm	1000mm	1500mm	2000mm	3000mm
Max. Swing over slide	Φ430mm				
Max. Cross travel(X)	365mm				
Spindle bore	Φ105mm				
Spindle Nose Dia. and taper size	Φ113 1:20				
Principal Axis Head Type	Cam lock type				
Rev series of principal axis	Stepless				
Range of spindle speeds	200-1100rpm				
Rapid feed for Axis Z	8m/min				
Rapid feed for Axis X	5m/min				
Min input	0.001mm				
Number of tools	4 way or 6 way or gang tools				
Size of tool shank	25×25mm				
Tailstock sleeve dia.	Φ75mm				
Tailstock sleeve travel	150mm				
tailstock sleeve quill	MT No.5				
Power of main motor	7.5Kw				
Motor power of cooling pump	60W				
Overall dimensions(cm)	225×125×158	250×125×158	300×125×158	350×125×158	450×125×158
Net weight(kg)	3500	3800	4050	4300	4700

Big Bore Variable Speed CNC Lathe

Features:

- * ISO coding, manual keyboard data input, power failure protection, automatic diagnosis, R232 interface.
- * X and Z axis power feed driven by servo motor and ball screws.
- * Standard 4-station tool post. Optional 6-station or gang tools either horizontal or vertical
- * Standard manual lathe chuck and tailstock. Optional hydraulic.
- * Supersonic frequency hardened and precision ground guideways.
- * 80mm spindle bore.
- * Programmable high and low variable spindle speeds.
- * No vibration even at 80mm cutting depth.



Stand kit

- * FANUC Oi Mate TC control system
- * Hitachi inverter
- * FUKUTA inverter motor
- * Manual lathe chuck
- * 4 way power-driven toolpost

Optional accessories

- * Solid hydraulic chuck
- * Hollow hydraulic chuck
- * Hydraulic tailstock
- * 6 way power-drive toolpost

Order No.	920-0025	920-0026	920-0027	920-0028	920-0029
Max. swing over bed	500mm				
Max. swing over slide	310mm				
Max. length of workpiece	750mm	1000mm	1500mm	2000	3000
Max. cross travel(X)	300mm				
Spindle bore	Φ80mm				
Spindle nose	A2-8				
Taper of spindle bore	MT7				
Range of spindle speeds	200-1800rpm(high), 25-250rpm(low)				
Rapid feed for Axis X	5m/min				
Rapid feed for Axis Z	8m/min				
No. of tools post stations	4-ways, 6-ways or gang tools				
Size of tool shank	25×25mm				
Tailstock sleeve dia.	75mm				
Tailstock sleeve travel	150mm				
Taper of tailstock quill	MT5				
Power of main motor	7.5KW				
Min. input	0.001mm				
Overall dimensions(cm)	225×120×152	250×120×152	300×120×152	350×120×152	450×120×152
Net weight(Kg)	3000	3300	3550	3800	4200

Big Bore Variable Speed CNC Lathe

Features:

- * ISO coding, manual keyboard data input, power failure protection, automatic diagnosis, R232 interface.
- * X and Z axis power feed driven by servo motor and ball screws.
- * Standard 4-station tool post. Optional 6-station or gang tools either horizontal or vertical
- * Standard manual lathe chuck and tailstock. Optional hydraulic.
- * Supersonic frequency hardened and precision ground guideways.
- * 80mm spindle bore.
- * Variable spindle speed.
- * No vibration even at 80mm cutting depth.



Stand kit

- * FANUC Oi Mate TC control system
- * Hitachi inverter
- * FUKUTA inverter motor
- * Manual lathe chuck
- * 4 way power-driven toolpost

Optional accessories

- * Solid hydraulic chuck
- * Hollow hydraulic chuck
- * Hydraulic tailstock
- * 6 way power-drive toolpost

Order No.	920-0016	920-0116	920-0216
Max. swing over bed	400mm		
Max. swing over slide	210mm		
Max. length of workpiece	750mm	1000mm	1500mm
Max. cross travel(X)	250mm power tool post or 330mm Gang tool post		
Spindle bore	Φ80mm		
Taper of spindle bore	MT7		
No. of spindle speeds	stepless		
Range of spindle speeds	100-2000rpm		
Longitudinal rapid traverse	8m/min		
Cross rapid traverse	5m/min		
Range of tailstock sleeve	0.150~30.00mm		
Taper of tailstock sleeve	MT4		
Size of tool shank	25×25mm		
No. of tool post stations	4-way or 6-way or gang tools		
Power of main motor	5.5KW		
Coolant pump motor power	75W		
Repeatability(X/Z)	0.0075/0.01mm		
Min. input	0.001mm		
Overall dimensions(mm)	2060×1180×1500	2310×1180×1500	2790×1180×1500
Net weight(Kg)	2380	2580	3050

Gap Bed Big Bore Variable Speed CNC Lathe

Features:

- * ISO coding, manual keyboard data input, power failure protection, automatic diagnosis, R232 interface.
- * X and Z axis power feed driven by servo motor and ball screws.
- * Standard 4-station tool post. Optional 6-station or gang tools either horizontal or vertical
- * Standard manual lathe chuck and tailstock. Optional hydraulic.
- * Supersonic frequency hardened and precision ground guideways.
- * 80mm spindle bore.
- * Variable spindle speed.
- * No vibration even at 80mm cutting depth.



Stand kit

- * FANUC Oi Mate TC control system
- * Hitachi inverter
- * FUKUTA inverter motor
- * Manual lathe chuck
- * 4 way power-driven toolpost

Optional accessories

- * Solid hydraulic chuck
- * Hollow hydraulic chuck
- * Hydraulic tailstock
- * 6 way power-drive toolpost

Order No.	920-1016	920-1116	920-1216
Max. swing over bed	400mm		
Max. swing ober slide	210mm		
Max. length of workpiece	750mm	1000mm	1500mm
Max. cross travel(X)	250mm power tool post or 330mm Gang tool post		
Max. Swing in gap	650mm		
Length of Gap	200mm		
Spindle bore	Φ80mm		
Taper of spindle bore	MT7		
No. of spindle speeds	stepless		
Range of spindle speeds	100-2000rpm		
Longitudinal rapid traverse	8m/min		
Cross rapid traverse	5m/min		
Range of tailstock sleeve	0.150~30.00mm		
Taper of tailstock sleeve	MT4		
Size of tool shank	25×25mm		
No. of tool post stations	4-way or 6-way or gang tools		
Power of main motor	5.5KW		
Coolant pump motor power	75W		
Repeatability(X/Z)	0.0075/0.01mm		
Min. input	0.001mm		
Overall dimensions(mm)	2060×1180×1500	2310×1180×1500	2790×1180×1500
Net weight(Kg)	2380	2580	3050

Big Bore Variable Speed CNC Lathe

Features:

- * ISO coding, manual keyboard data input, power failure protection, automatic diagnosis, R232 interface.
- * X and Z axis power feed driven by servo motor and ball screws.
- * Standard 4-station tool post. Optional 6-station or gang tools either horizontal or vertical
- * Standard manual lathe chuck and tailstock. Optional hydraulic.
- * Supersonic frequency hardened and precision ground guideways.
- * 80mm spindle bore.
- * Variable spindle speed.
- * No vibration even at 80mm cutting depth.



Stand kit

- * FANUC Oi Mate TC control system
- * Hitachi inverter
- * FUKUTA inverter motor
- * Manual lathe chuck
- * 4 way power-driven toolpost

Optional accessories

- * Solid hydraulic chuck
- * Hollow hydraulic chuck
- * Hydraulic tailstock
- * 6 way power-drive toolpost

Order No.	920-0018	920-0118	920-0218
Max. swing over bed		460mm	
Max. swing over slide		250mm	
Max. length of workpiece	750mm	1000mm	1500mm
Max. cross travel(X)	250mm power tool post or 330mm(Gang tool type)		
Spindle bore	Φ80mm		
Taper of spindle bore	MT7		
No. of spindle speeds	stepless		
Range of spindle speeds	100-2000rpm		
Longitudinal rapid traverse	8m/min		
Cross rapid traverse	5m/min		
Range of tailstock sleeve	0.150~30.00mm		
Taper of tailstock sleeve	MT5		
Size of tool shank	25×25mm		
No. of tool post stations	4-way or 6-way or gang tools		
Power of main motor	5.5KW		
Coolant pump motor power	75W		
Repeatability(X/Z)	0.0075/0.01mm		
Min. input	0.001mm		
Overall dimensions(mm)	2060×1180×1500	2310×1180×1500	2790×1180×1500
Net weight(Kg)	2380	2580	3050

Gap Bed Big Bore Variable Speed CNC Lathe

Features:

- * ISO coding, manual keyboard data input, power failure protection, automatic diagnosis, R232 interface.
- * X and Z axis power feed driven by servo motor and ball screws.
- * Standard 4-station tool post. Optional 6-station or gang tools either horizontal or vertical
- * Standard manual lathe chuck and tailstock. Optional hydraulic.
- * Supersonic frequency hardened and precision ground guideways.
- * 80mm spindle bore.
- * Variable spindle speed.
- * No vibration even at 80mm cutting depth.



Stand kit

- * FANUC Oi Mate TC control system
- * Hitachi inverter
- * FUKUTA inverter motor
- * Manual lathe chuck
- * 4 way power-driven toolpost

Optional accessories

- * Solid hydraulic chuck
- * Hollow hydraulic chuck
- * Hydraulic tailstock
- * 6 way power-drive toolpost

Order No.	920-1018	920-1118	920-1218
Max. swing over bed	460mm		
Max. swing over slide	250mm		
Max. length of workpiece	750mm	1000mm	1500mm
Max. cross travel(X)	250mm power tool post or 330mm(Gang tool type)		
Max. swing in Gap	700mm		
Length of Gap	200mm		
Spindle bore	Φ80mm		
Taper of spindle bore	MT7		
No. of spindle speeds	stepless		
Range of spindle speeds	100-2000rpm		
Longitudinal rapid traverse	8m/min		
Cross rapid traverse	5m/min		
Range of tailstock sleeve	0.150~30.00mm		
Taper of tailstock sleeve	MT5		
Size of tool shank	25×25mm		
No. of tool post stations	4-way or 6-way or gang tools		
Power of main motor	5.5KW		
Coolant pump motor power	75W		
Repeatability(X/Z)	0.0075/0.01mm		
Min. input	0.001mm		
Overall dimensions(mm)	2060×1180×1500	2310×1180×1500	2790×1180×1500
Net weight(Kg)	2380	2580	3050

Variable Speed CNC Lathe

Features:

- * ISO coding, manual keyboard data input, power failure protection, automatic diagnosis, R232 interface.
- * X and Z axis power feed driven by servo motor and ball screws.
- * Standard 4-station tool post. Optional 6-station or gang tools either horizontal or vertical
- * Standard manual lathe chuck and tailstock. Optional hydraulic or pneumatic.
- * Variable spindle speed.
- * Rapid X and Z axis feed.



Stand kit

- * FANUC Oi Mate TC control system
- * Hitachi inverter
- * FUKUTA inverter motor
- * Manual lathe chuck
- * 4 way power-driven toolpost

Optional accessories

- * Solid hydraulic chuck
- * Hollow hydraulic chuck
- * Hydraulic tailstock
- * 6 way power-drive toolpost

Order No.	920-3010	920-4010
Max. swing over bed	410mm (16")	
Max. swing over slide	Φ150mm(gang tools)	
	Φ240mm	
Max. cross travel (X)	235mm power tool post	
Max. length of workpiece	750mm	1000mm
Rapid feed for Axis X	8m/min	
Rapid feed for Axis Z	10m/min	
Range of spindle speeds(stepless)	200-2800r/min	
Spindle bore	Φ52	
Taper bore of spindle	MT No.6	
3-jaw chuck or collet	Φ200 or 5C	
Tool post	4-way or 6-way or gang tools	
Servo Motor Power (X/Z)	0.75/1.0KW	
Size of tool shank	20×20mm	
Min. input	0.001mm	
Repeatability(X/Z)	0.0075/0.01mm	
Surface roughness	≤Ra0.8μm(Nonferrous) or ≤Ra1.6μm(Steel part)	
Main motor power	3.7KW (5HP)	
Overall dimensions(L×W×H)	2120×1200×1415mm	2370×1200×1415mm
Net weight	2100Kg	2300Kg

Variable Speed CNC Lathe

Features:

- * ISO coding, manual keyboard data input, power failure protection, automatic diagnosis, R232 interface.
- * X and Z axis power feed driven by servo motor and ball screws.
- * Standard 4-station tool post. Optional 6-station or gang tools either horizontal or vertical
- * Standard manual lathe chuck and tailstock. Optional hydraulic or pneumatic.
- * Variable spindle speed.
- * Rapid X and Z axis feed.



Stand kit

- * FANUC Oi Mate TC control system
- * Hitachi inverter
- * FUKUTA inverter motor
- * Manual lathe chuck
- * 4 way power-driven toolpost

Optional accessories

- * Solid hydraulic chuck
- * Hollow hydraulic chuck
- * Hydraulic tailstock
- * 6 way power-drive toolpost

Order No.	920-2007	920-2008	920-2009
Max. swing over bed	360mm (14")		
Max. swing over slide	Φ100mm(gang tools)		
	Φ180mm		
Max. cross travel (X)	300mm(gang tools) or 235mm power tool post		
Max. length of workpiece	500mm	750mm	1000mm
Rapid feed for Axis X	5m/min		
Rapid feed for Axis Z	8m/min		
Range of spindle speeds(stepless)	200-2800r/min		
Spindle bore	Φ40		
Taper bore of spindle	MT No.5		
3-jaw chuck or collet	Φ200 or 5c		
Tool post	4-way or 6-way or gang tools		
Servo Motor Power (X/Z)	0.75/1.0KW		
Size of tool shank	20×20mm		
Min. input	0.001mm		
Repeatability(X/Z)	0.0075/0.01mm		
Surface roughness	≤Ra0.8μm(Nonferrous) or ≤Ra1.6μm(Steel part)		
Main motor power	3.7KW (5HP)		
Overall dimensions(L×W×H)	1870×1200×1415mm	2120×1200×1415mm	2370×1200×1415mm
Net weight	1700kg	2000Kg	2200Kg

Variable Speed CNC Lathe

Features:

- * ISO coding, manual keyboard data input, power failure protection, automatic diagnosis, R232 interface.
- * X and Z axis power feed driven by servo motor and ball screws.
- * Gang tool or 4-station tool post for option.
- * Manual or pneumatic collets or 3-jaw lathe chucks.
- * Variable spindle speed.



Stand kit

- * FANUC Oi Mate TC control system
- * Hitachi inverter
- * FUKUTA inverter motor
- * Mual lathe chuck
- * 4 way power-driven toolpost

Optional accessories

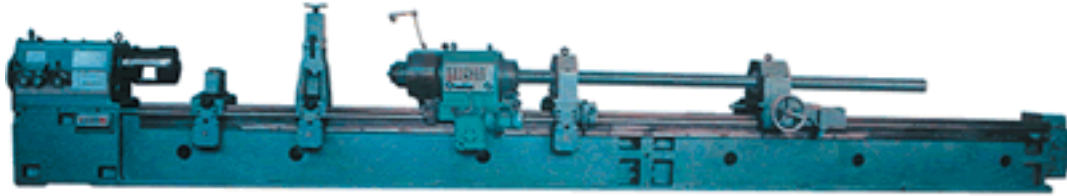
- * Solid hydraulic chuck
- * Hollow hydraulic chuck
- * Hydraulic tailstock
- * 6 way power-drive toolpost

Technical Data:

Max. swing over bed: 300mm(12")
 Max. swing over slide: ϕ 100mm(Gang tools) ϕ 135mm(Power tool post)
 Max. cutting dia.: 250mm(10")
 Max. cross travel (X): 270mm(10-5/8"), (Gang tool type)
 Max. longitudinal travel (Z): 500mm(20")
 Rapid feed for Axis X: 5m/min
 Rapid feed for Axis Z: 8m/min
 Spindle speed range: 200-3500r/min
 Taper bore of spindle: MT No.5
 Spindle nose: D1-4
 3-jaw chuck or collet : 160mm or 5C
 Tool post: Gang tool post or power tool post
 Servomotor power (X/Z): 0.75/1.0KW
 Size of tool shank: 16×16mm
 Min. input: 0.001mm
 Repeatability (X/Z): 0.0075/0.01mm
 Surface roughness: \leq Ra0.8 μ m(Nonferrous) \leq Ra1.6 μ m(Steel part)
 Main motor power: 3KW(4.1hp)
 Overall dimensions(L×W×H): 150×95×138cm
 Net weight: 1100kg

Order No. 920-2012

Deep Hole Boring Machine



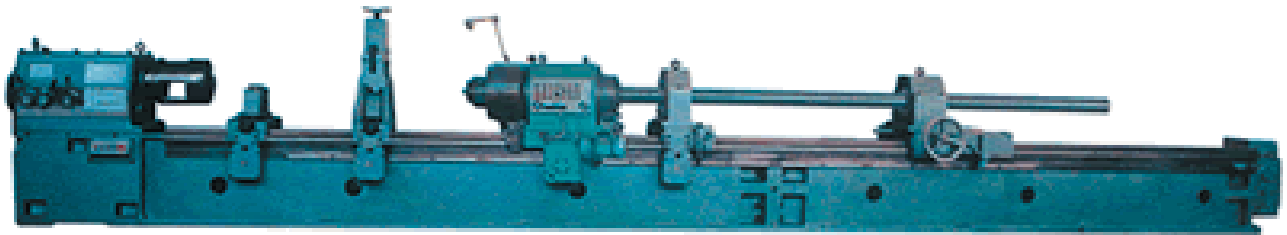
- * For deep round through holes, blind holes, step holes in machine spindles, hydraulic cylinders, pneumatic cylinders etc.
- * Mostly used for boring holes with forward chip removal mechanism. Can be used for rolling to.
- * Strong rigidity of the bed, high precision and wide spindle speed range.
- * Japany Anchun A.C. servo motor.
- * Hydraulic guide carriage and workpiece clamping. Dial clamping display.
- * Customerized design and production available.

Order No.	905-0200 to 905-0207	905-0210 to 920-0217	905-0229
Max. boring dia	250mm	350mm	550mm
Max. boring depth	1000mm/2000mm/3000mm/4000mm/ 5000mm/6000mm/7000mm/8000mm		12000mm
Workpiece clamped dia. range	60-330mm	220-450mm	345-750mm
Height from spindle center to bed	350mm	450mm	625mm
Spindle bore diameter	Φ75mm	Φ130mm	
Taper of spindle bore	Φ85mm 1:20	Metric 140#	
Range of spindle speed	40-500r/min 11Kinds	3.15-315r/min 21Kinds	
Feed speed range(infinite)	5-1000mm/min infinite		
Carriage rapid-moving speed	2m/min		
Main motor power	30kW		
Hydraulic pump motor power	1.5kW		
Carriage rapid motor power	3kW		
Feed motor power	4.4kW		
Cool pump motor power	5.5kW 4 group	5.5kW 3 group	
Rated pressure for cooling system	2.5MPa	0.36MPa	
Flow of cooling system	100 200 300 400L/min	300 600 900L/min	
Rated working pressure for hydraulic system	6.3MPa		

Dimension and weight of the machine

Max. Length of workpiece	Order No.	Overall Size (cm)	Net Weight	Gross Weight	Order No.	Overall Size (cm)	Net Weight	Gross Weight
1000mm	905-0200	795x315x155	12T	13T	905-0210	798x350x185	12.7T	13.6T
2000mm	905-0201	995x315x155	14.5T	15T	905-0211	998x350x185	15.1T	16.4T
3000mm	905-0202	1195x315x155	16.3T	17T	905-0212	1198x350x185	16.8T	18.2T
4000mm	905-0203	1395x315x155	18.8T	20T	905-0213	1398x350x185	19.1T	20.7T
5000mm	905-0204	1595x315x155	20.6T	22T	905-0214	1598x350x185	21.1T	22.5T
6000mm	905-0205	1795x315x155	22.5T	23T	905-0215	1798x350x185	22.5T	24.4T
7000mm	905-0206	1995x315x155	24.5T	25T	905-0216	1998x350x185	24.2T	26.2T
8000mm	905-0207	2195x315x155	26.2T	28T	905-0217	2198x350x185	26.4T	29T

Deep Hole Drilling and Boring Machine



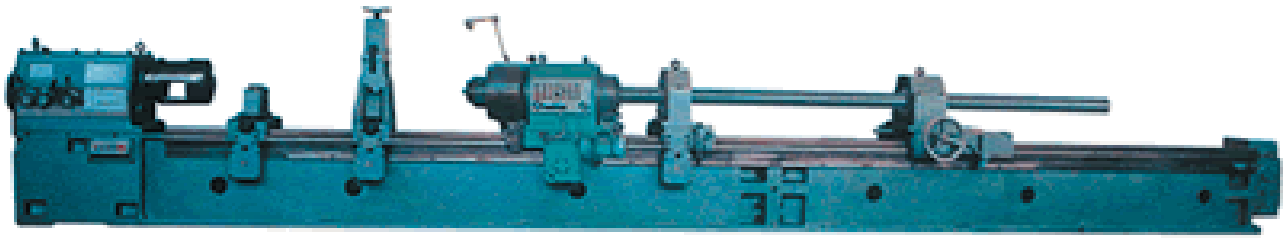
- * For deep round through holes, blind holes, step holes in machine spindles, hydraulic cylinders, pneumatic cylinders etc.
- * Mostly used for boring holes with forward chip removal mechanism. Can be used for rolling too.
- * Strong rigidity of the bed, high precision and wide spindle speed range.
- * Japan Anchin A.C. servo motor.
- * Hydraulic guide way carriage and hydraulic for machining workpieces of short length.
- * Boring bar rear oil pumping and clamping with 4 jaw lathe chucks for machining workpiece of long length.
- * Unique oil pumping device with spindle structure dramatically increases the maximum load capacity and rotation tolerance.
- * Twin rectangular bed ways hardened and ground ensures max. loading capacity, higher leading tolerance.
- * For boring application, rolling in building machine tools, locomotives, ships, coal mining equipment, hydraulic machines, electrical machines, pneumatic machines etc..
- * Makes surface finish to 0.4 to 0.8 microns.
- * Three machining methods are available. 1) Workpieces rotate, cutting tools rotate with reciprocating feed. 2) workpieces rotate, cutting tools reciprocates feed. 3) Workpieces do not move, cutting tools rotate with reciprocating feed.
- * Customized design and production available.

Order No. 905-0416 to 905-0427	
Max. boring dia	Φ250-Φ500mm
Max. boring depth:	1000mm/2000mm/3000mm/4000mm/5000mm/6000mm /7000mm/8000mm/9000mm/10000mm/12000mm
Workpiece clamped dia. Range	Φ300-Φ650mm
Height from spindle center to bed	625mm
Spindle bore diameter	Φ130mm
Taper of spindle bore	Metric 140#
Range of spindle speed	3.15 to 315 RPM(21speeds)
Boring headstock speed range and speed numbers	60 to 300r/min 6 speeds (1m to 3m standard configuration)
Variable feed speed range	5-1000mm/min
Carriage rapid travel speed	2000mm/min
Main motor power	30kW,960RPM
Boring Headstock Motor	22kW,1460RPM (1m to 3m standard configuration)
Hydraulic pump motor power	1.5kW,1440RPM
Carriage rapid motor power	3KW
Japan Servo feed Motor	7.5KW
Cool pump motor power	5.5kW, 96RPM (3 group)
Rated pressure for cooling system	0.36MPa
Flow of cooling system	300L/600L/900L/min
Total Power: 76KW	76KW

Dimension and weight of the machines

Order No.	Max. Length of workpiece	Machine Weight (kg)	Overall Sizes (cm)	Order No.	Max. Length of workpiece	Machine Weight (kg)	Overall Sizes (cm)
905-0416	1000mm	18000	950x380x190	905-0422	7000mm	30000	2350x380x190
905-0417	2000mm	20000	1150x380x190	905-0423	8000mm	32000	2550x380x190
905-0418	3000mm	22000	1350x380x190	905-0424	9000mm	34000	2750x380x190
905-0419	4000mm	24000	1550x380x190	905-0425	10000mm	36000	3150x380x190
905-0420	5000mm	26000	1750x380x190	905-0426	11000mm	38000	3350x380x190
905-0421	6000mm	28000	1950x380x190	905-0427	12000mm	40000	3500x380x190

Deep Hole Drilling and Boring Machine



- * For deep round through holes, blind holes, step holes in machine spindles, hydraulic cylinders, pneumatic cylinders etc.
- * Mostly used for boring holes with forward chip removal mechanism. Can be used for rolling too.
- * Strong rigidity of the bed, high precision and wide spindle speed range.
- * Japan Anchin A.C. servo motor.
- * Hydraulic guide way carriage and hydraulic for machining workpieces of short length.
- * Boring bar rear oil pumping and clamping with 4 jaw lathe chucks for machining workpiece of long length.
- * Unique oil pumping device with spindle structure dramatically increases the maximum load capacity and rotation tolerance.
- * Twin rectangular bed ways hardened and ground ensures max. loading capacity, higher leading tolerance.
- * For boring application, rolling in building machine tools, locomotives, ships, coal mining equipment, hydraulic machines, electrical machines, pneumatic machines etc..
- * Makes surface finish to 0.4 to 0.8 microns.
- * Three machining methods are available. 1) Workpieces rotate, cutting tools rotate with reciprocating feed. 2) workpieces rotate, cutting tools reciprocates feed. 3) Workpieces do not move, cutting tools rotate with reciprocating feed.
- * Customized design and production available.

Order No. 905-0428 to 905-0439	
Max. boring dia	Φ250-Φ500mm
Max. boring depth:	1000mm/2000mm/3000mm/4000mm/5000mm/6000mm /7000mm/8000mm/9000mm/10000mm/12000mm
Workpiece clamped dia. Range	Φ300-Φ650mm
Height from spindle center to bed	625mm
Spindle bore diameter	Φ130mm
Taper of spindle bore	Metric 140#
Range of spindle speed	3.15 to 315 RPM(21speeds)
Boring headstock speed range and speed numbers	60 to 300r/min 6 speeds (1m to 3m standard configuration)
Variable feed speed range	5-1000mm/min
Carriage rapid travel speed	2000mm/min
Main motor power	30kW,960RPM
Boring Headstock Motor	22kW,1460RPM (1m to 3m standard configuration)
Hydraulic pump motor power	1.5kW,1440RPM
Carriage rapid motor power	3KW
Japan Servo feed Motor	7.5KW
Cool pump motor power	5.5kW, 96RPM (3 group)
Rated pressure for cooling system	0.36MPa
Flow of cooling system	300L/600L/900L/min
Total Power: 76KW	76KW

Dimension and weight of the machines

Order No.	Max. Length of workpiece	Machine Weight (kg)	Overall Sizes (cm)	Order No.	Max. Length of workpiece	Machine Weight (kg)	Overall Sizes (cm)
905-0428	1000mm	18000	950x380x190	905-0434	7000mm	30000	2350x380x190
905-0429	2000mm	20000	1150x380x190	905-0435	8000mm	32000	2550x380x190
905-0430	3000mm	22000	1350x380x190	905-0436	9000mm	34000	2750x380x190
905-0431	4000mm	24000	1550x380x190	905-0437	10000mm	36000	3150x380x190
905-0432	5000mm	26000	1750x380x190	905-0438	11000mm	38000	3350x380x190
905-0433	6000mm	28000	1950x380x190	905-0439	12000mm	40000	3500x380x190

Manual Feed Surface Grinder



Specification:

- * Cross travel: 8-1/4"
- * Longitudinal travel: 13-7/8"
- * Maximum work height: 8-3/4"
- * Work table: 6" x 12-1/2"
- * T-slots: 1/2" x 15-1/2"
- * Graduations: .001"
- * Motor: 3/4HP, 110V single phase

Accessory kit:

- * 3mm, 4mm and 5mm hex key wrenches
- * 17 & 19mm open end wrench
- * 6" adjustable wrench
- * Screwdrivers
- * Adjustable spanner
- * Diamond dressing tool with holder
- * 7" diameter, 1/2" thick grinding wheel
- * 14" tool box
- * Stand sold separately

Order No. 904-3001

Manual Feed Surface Grinder

Order No. 904-3002



Max. Grinding Width	165mm
Max. Grinding Length	470mm
Max. Grading Height	350mm
Table Size	155x460mm
Optional Magnetic Chck Size	150x400mm
Max. Longitudinal Travel	500mm
Max. Cross Travel	185mm
Max. distance from table surface to spindle center	450mm
Feed of vertical handwheel per revolution	1mm
Feed of vertical handwheel per graduation	0.005mm
Grinding wheel size (ODxWxD)	200x13x31.75cm
Spindle speed	60HZ/3450rpm or 50HZ/2850rpm
Power of spindle head	1.5KW
Maximum loading weight (with magnetic chuck)	97kg
Machine weight	790kg
Overall Size	133x109x168cm

Optional accessories:

- Magnetic chuck
- Grinding Wheel Balance Rack

Manual Feed Surface Grinder

Order No.	904-3003
Max. Grinding Width	220mm
Max. Grinding Length	470mm
Max. Grading Height	350mm
Table Size	210x450mm
Optional Magnetic Chck Size	200x400mm
Max. Longitudinal Travel	500mm
Max. Cross Travel	240mm
Max. distance from table surface to spindle center	450mm
Feed of vertical handwheel per revolution	1mm
Feed of vertical handwheel per graduation	0.005mm
Grinding wheel size (ODxWxD)	200x13x31.75cm
Spindle speed	60HZ/3450rpm or 50HZ/2850rpm
Power of spindle head	1.5KW
Max. Load with magnetic chuck	128
Machine weight	920kg
Shipping Size	133x115x168cm



Features:

- * Many features of larger grinders.
- * Excellent for small shop.
- * Large dial and fine thread screws for high precision.
- * Super slide table
- * Cabinet stand
- * Swarf guard
- * Diamond wheel dresser with holder
- * Tool Box
- * Wheel balancing kit

Manual Feed Surface Grinder



Order No.	904-3004	904-3005
Max. Grinding Width	165mm	220mm
Max. Grinding Length	470mm	520mm
Max. Grading Height	350mm	350mm
Table Size	150x460mm	200x520mm
Optional Magnetic Chck Size	150x400mm	200x450mm
Max. Longitudinal Travel	500mm	570mm
Max. Cross Travel	200mm	250mm
Max. distance from table surface to spindle center	450mm	
Feed of vertical hand-wheel per revolution	2mm	
Feed of vertical hand-wheel per graduation	0.005mm	
Grinding wheel size (ODxWxD)	200x20x31.75cm	
Spindle speed	60HZ/3450rpm or 50HZ/2850rpm	
Power of spindle motor	1.5KW	
Max. Load with Magnetic Chuck	110kg	140KG
Machine weight	1000kg	1120kg
Shipping Size (cm)	167x156x193	167x170x199

Surface Grinder



- * Saddle moving.
- * Hydraulically controlled longitudinal travel.
- * AC motor powered cross travel.
- * Manual wheelhead vertical movement.

Order No.	904-3020	904-3371	904-3373	904-3374	904-3375	904-3376
Table size(WxL)	200x460mm	250x500mm	305x635mm	305x1020mm	406x813mm	406x1020mm
Max.longitudinal travel	510x238mm	560x275mm	765x340mm	1130x340mm	910x450mm	1130x450mm
Max.distance from spindle center to table surface	450mm		580mm			
Magnetic chuck size	200x460mm	250x500mm	300x600mm	300x1000mm	400x800mm	400x1000mm
Speed of table longitudinal movement	7-23m/min					
Table transverse movement	0.1~8mm Auto feed					
	990mm/min Rapid speed					
	0.02mm/div. feed of handwheel					
Feed of handwheel for Wheelhead vertical movement	0.005mm/div					
Grinding Wheel Speed	2850rpm (50Hz) or 3450rpm (60Hz)		1450rpm (50HZ), 1750rpm (60Hz)			
Grinding wheel Size(ODxWxID)	200x20x31.75mm		350x40x127mm			
Motor of spindle	1.5kw	2.2KW	5.5kw			
Hydraulic motor	0.75KW		2.2kw			
Cooling pump motor	0.04kw		0.125kw			
Cross Feed Motor	0.04kw					
Total rated power	3KW	3.7KW	9kw			
Max. Load (Including Magnetic Chuck)	120kg	180kg	270kg	400kg	500kg	600kg
height of machine	1675mm		1890mm			
Gross weight	1600KG	1800KG	2900kg	3300kg	3500kg	4000kg
Shipping Size (CM)	190X172X218	200X210X218	235x222x215	295x222x221	285x227x218	295x227x221

Surface Grinder



- * Saddle moving.
- * Hydraulically controled longitudinal travel.
- * AC motor powered cross travel.
- * Rapid motorized wheelhead vertical feeding at 460mm/min.
- * 0.25KW vertical elevating motor.

Order No.	904-3021	904-3372	904-3022	904-3023	904-3024	904-3025
Table size(WxL)	200x460mm	250x500mm	305x635mm	305x1020mm	406x813mm	406x1020mm
Max.longitudinal travel	510x238mm	560x275mm	765x340mm	1130x340mm	910x450mm	1130x450mm
Max.distance from spindle center to table surface	450mm		580mm			
Magnetic chuck size	200x460mm	250x500mm	300x600mm	300x1000mm	400x800mm	400x1000mm
Speed of table longitudinal movement	7~23mm/min					
Table transverse movement	0.1~8mm Auto feed					
	990mm/min Rapid speed					
	0.02mm/div. feed of handwheel					
Wheelhead vertical movement	0.005mm/div. Feed of handwheel					
	460mm mm/min rapid feed					
Grinding Wheel Speed	2850rpm (50Hz) or 3450rpm (60Hz)		1450rpm (50HZ), 1750rpm (60Hz)			
Grinding wheel Size(ODxWxID)	200x20x31.75mm		350x40x127mm			
Motor of spindle	1.5kw	2.2KW	5.5kw			
Hydraulic motor	0.75KW		2.2kw			
Cooling pump motor	0.04kw		0.125kw			
Elevating Motor	0.25kw					
Cross Feed Motor	0.04kw					
Total rated power	3KW	3.7KW	9kw			
Max. Load (Including Magnetic Chuck)	120kg	180kg	270kg	400kg	500kg	600kg
height of machine	1675mm		1890mm			
Gross weight	1600KG	1800KG	2900kg	3300kg	3500kg	4000kg
Shipping Size (CM)	190X172X218	200X202X218	235x222x215	295x222x221	285x227x218	295x227x221

Surface Grinder



- * Saddle moving.
- * Hydraulically controled longitudinal travel.
- * AC motor powered cross travel.
- * **Automatic Wheelhead Vertical Feeding**
- * 0.50KW vertical elevating servo motor.

Order No.	904-3026	904-3027	904-3028	904-3029	904-3030	904-3031
Table size(WxL)	200x460mm	250x500mm	305x635mm	305x1020mm	406x813mm	406x1020mm
Max.longitudinal travel	510x238mm	560x275mm	765x340mm	1130x340mm	910x450mm	1130x450mm
Max.distance from spindle center to table surface	450mm		580mm			
Magnetic chuck size	200x460mm	250x500mm	300x600mm	300x1000mm	400x800mm	400x1000mm
Speed of table longitudinal movement	7~23mm/min					
Table transverse movement	0.1~8mm Auto feed					
	990mm/min Rapid speed					
	0.02mm/div. feed of handwheel					
Wheelhead vertical movement	Automatic Feed at 0.005/0.01/0.02/0.03/0.04/0.05mm					
	0.005mm/div feed of handwheel					
Grinding Wheel Speed	2850rpm (50Hz) or 3450rpm (60Hz)		1450rpm (50Hz), 1750rpm (60Hz)			
Grinding wheel Size(ODxWxD)	200x20x31.75mm		350x40x127mm			
Motor of spindle	1.5kw	2.2KW	5.5kw			
Hydraulic motor	0.75KW		2.2kw			
Cooling pump motor	0.04kw		0.125kw			
Cross Feed Motor	0.04kw					
Total rated power	3KW	3.7KW	9kw			
Max. Load (Including Magnetic Chuck)	120kg	180kg	270kg	400kg	500kg	600kg
height of machine	1675mm		1890mm			
Gross weight	1600KG	1800KG	2800kg	3500kg	3800kg	4300kg
Shipping Size (CM)	190X172X218	200X210X218	235x222x215	295x222x221	285x227x218	295x227x221

SURFACE GRINDER



Order No.	904-3041	904-3042	904-3377	904-3378
Table Size (mm)	300*1000	300*1000	300*1000	320*1000
Distance between Table and Spindle Center	575mm	975mm	1375mm	575mm
Table Cross Feed Speed	3~27m/min			
Table Slot size	3*18mm			
Wheelhead Criss Travel	0.5~4.5m/min continuous feed			
	3~30mm/stroke intermittent feed speed			
Wheelhead Vertical Travel	400 mm/min Motorized Feed speed			
	0.005 mm handwheel feed graduation			
Wheelhead Motor	Power (kw)	5.5kw		
	speed(rpm)	1440rpm		
Total power (kw)	8.63	9	9	9
Max. Load Capacity with magnetic chuck	470kg	470kg	470kg	500kg
Magnetic Chuck Size (mm)	300*680			300*1000
Wheel Size (ODxWxD)	350X40X127mm			
Overall Size (cm)	286x154x203	286x154x251	286x154x293	286x164x203
Shipping Size (cm)	284x174x213	284x171x261	284x171x303	284x171x213
Machine Weight (kg)	3500	3700	4000	3600

Standard accessories:

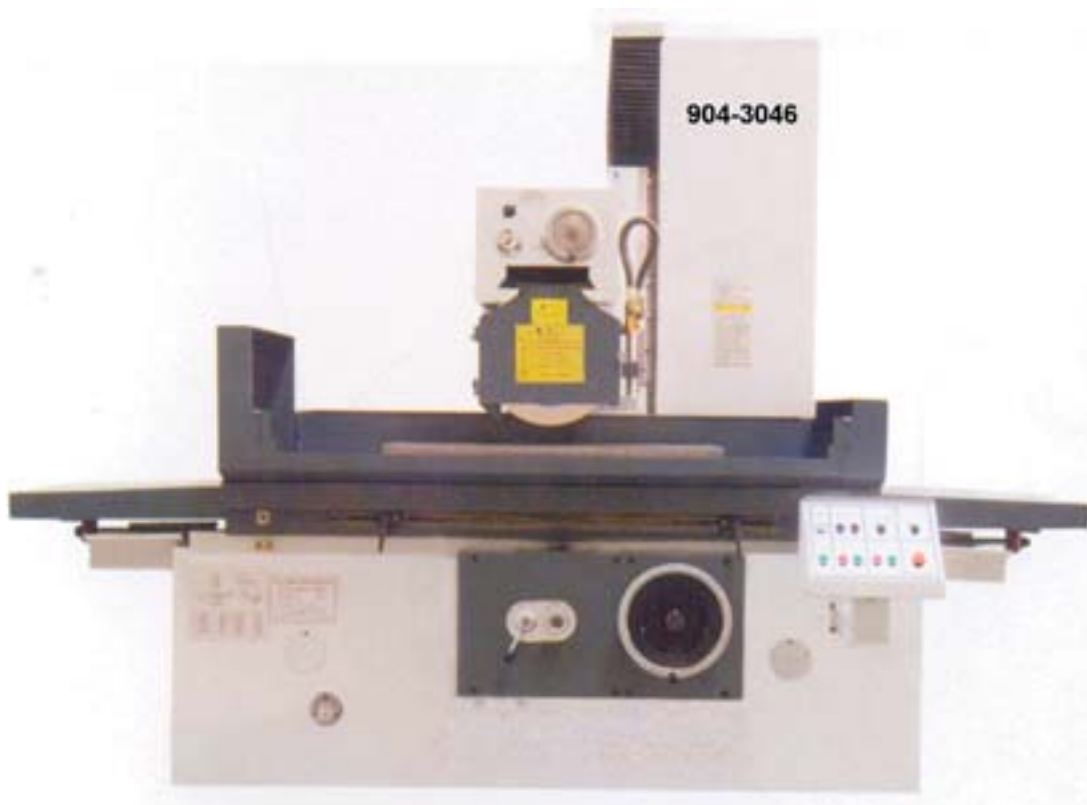
Magnetic chuck
Grinding Wheel Balance Rack

WHEELHEAD MOVING SURFACE GRINDER



Order No.	904-3043	904-3044	904-3045
Table Size (mm)	400*1000	400*1600	400*2200
Distance between Table and Spindle Center	600mm		
Table Cross Feed Speed	3~25m/min		
Table Slot size	3*18mm		
Wheelhead Cross Travel	0.5~4.5mm/min Continuous feed		
	3~30mm/stroke Intermittent feed		
	0.02mm handwheel feed		
Wheelhead Vertical Travel	400mm/min motorized feed		
	0.005mm/min manual feed		
Wheelhead Motor	7.5kw		
	1440rps		
Total power (kw)	11	13.5	13.5
Max. Load Capacity (kg)	620	1000	1380
Magnetic Chuck Size (mm)	400*1000	400*800 (2)	400*1000 (2)
Wheel Size (mm)	400*40*127		
Machine Weight	5010kg	6510	7600kg
Overall Size (cm)	311x182x223	494x182x223	674x182x223

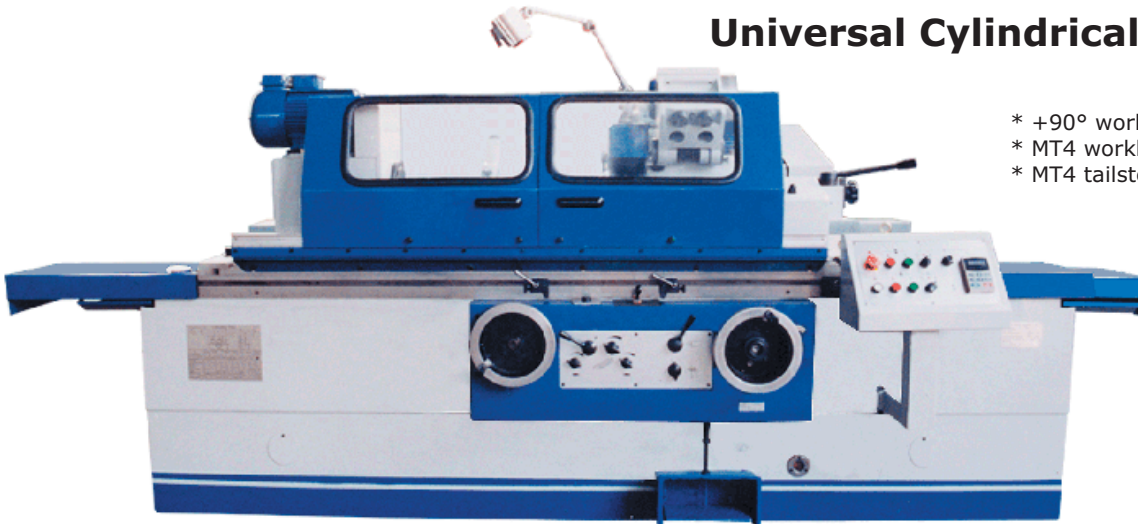
WHEELHEAD MOVING SURFACE GRINDER



Order No.	904-3046	904-3047	904-3048	904-3049	904-3050	904-3051
Table Size (mm)	500*1000	500*1600	500*2200	630*1250	630*1600	630*2200
Distance between Table and Spindle Center	700mm					
Table Cross Feed Speed	3~27m/min					
Table Slot size	3*22mm					
Wheelhead Cross Travel	0.5~4.5m/min continuous feeding speed					
	3~30mm/stroke intermittent feeding speed					
	0.01mm handwheel graduation					
Wheelhead Vertical Travel	400mm/min rapid motorized feeding speed					
	0.005mm handwheel feed per graduation					
Wheelhead Motor	7.5kw					
	1440rpm					
Total power (kw)	12.25	13.75	15.75	13.75kw	15.75kw	15.75kw
Max. Load Capacity (kg)	700	1240	1410	1010	1290	1780
Magnetic Chuck Size (mm)	500*1000	500*800 (2)	500*1000(2)	630*1250	630*800	630*1000 (2)
Wheel Size (mm)	400*40*203					
Overall Height (mm)	311*210*233	425*210*233	575*210*233	330x220x241	532x220x241	575x220x241

Universal Cylindrical Grinder

- * +90° workhead swivel angle.
- * MT4 workhead center taper.
- * MT4 tailstock center taper.



Order No.	904-3060 904-3061	904-3081, 904-3082 904-3062, 904-3063 904-3083, 903-3084	904-3085 904-3086 904-3087
Distance between centers	500mm 750mm	500/750/1000/1500 /2000/3000mm	1500/2000 /3000mm
Center Height	135mm	180mm	270mm
External Grinding Capacity	5~200mm	8~320mm	25~500mm
Internal Grinding Capacity	25~100mm	30~100mm	30~200mm
Max.length ground(I.D)	100mm	125mm	320mm
Max weight of work piece	100kg	150kg	1000kg
Spindle speed	50HZ: 25~380rpm	50HZ:25-220rpm 60HZ:30-364rpm	50HZ:25-220rpm 60HZ:30-364rpm
Max. wheelhead spindle speed	1670rpm	1670rpm	1330/665rpm
Wheelhead rapid travel	50mm	50mm	100mm
Max wheelhead travel	205mm	246mm	370mm
Max. wheelhead swivel angle	±30°	±30°	-30°
Wheel head travle per handwheel revolution	rough:2.0mm, fine: 0.5mm		rough:4.0mm, fine: 0.5mm
Grinding wheel feel per handweel revolution	rough:0.01mm, fine 0.0025mm		rough:0.002mm, fine: 0.005mm
Max dimension of wheel(ODxWxID)	400x50x203mm		500x75x305mm
Internal Grinding Spindle speed	10000rpm		7000rpm
Dimension of wheelfor internal grinding	max:30x25x10mm min:17x20x6mm	max:50x25x13mm min:17x20x6mm	max:175x32x32mm min:30x25x10mm
Table hand feed per revolution	6mm	6mm	5mm
Max swivelling angle of table	Clockwise	clockwise:3°	3° (1500), 2°(2000, 3000mm)
	Counterclock vise	9° (750), 8° (500)	6° (1500),5° (2000), 3°(3000)
Longitudinal traverse speed of table	0.1~4m/min	0.1~4m/min	0.1~3m/min
Quill travel	30MM		70mm
Wheelhead motor power	4kw	5.5kw	5/7.5kw
Internal grinding	1.1kw		1.5KW
Power of workhead motor	0.75kw	1.5kw	4kw
Shipping Weight	4100/4300kg	4300KG to 9900KG	11200kg to 17400kg
Shipping Size	260 (300)x206x205CM	300 to 7390x200x205CM	540 to 810x270x210CM

CYLINDRICAL GRINDER



Order No.	904-3064 904-3065	904-3066 to 904-3070	904-3072 to 904-3074	904-3075 to 904-3077	940-3078 to 904-3080
Distance Between Centers (mm)	500,750MM	500,750,1000, 1500,2000,3000	1500,2000, 3000MM	3000,4000, 5000MM	3000,4000, 5000MM
Center Height	135	180	270	335	500
Max. Grinding Outer Diameter (mm)	5-200	8-320	25-500	30-630	50-800
Max. Load (kg)	100	150	1000	3000	5000
Spindle Bore Taper	4	5	6	Metric 80#	Inch 100#
Spindle Speed (RPM)	50HZ:25-380		50HZ:18-140	50HZ:8-150	50HZ:6-80
Grinding Wheel Speed	1335	1100	870	740	740
Max. Wheelhead Rapid Travel	50	50	100	100	100
Max. Travel (mm)	205	235	437.5	437	550
Handwheel Feed per revolution	Rough:2 Fine:0.5	Rough:2 Fine:0.5	Rough:4 Fine:0.5	Rough:6 Fine:0.5	Rough:6 Fine:0.5
Handwheel Feed per graduation (mm)	Rough:0.01 Fine:0.0025	Rough:0.01 Fine:0.0025	Rough:0.02 Fine:0.0025	Rough:0.02 Fine:0.0025	Rough:0.02 Fine:0.0025
Max. Grinding Wheel Size	500*50*203	600*75*305	750*75*305	900*75*305	900*75*305
Wheel peripheral Velocity (m/s)	35				
Manual Table feed speed (mm/rev)	6	6	5	5	5
Max. Table Clockwise swivel angle	3°	3°(500,750,1000, 1500mm) 2°(2000,3000)	3°(1500mm) 2°(2000,3000)	2°(3000) 1°(4000,5000)	2°(3000) 1°(4000,5000)
Max. Table Counterclockwise swivel angle	9°(750) 8°(500)	9°(500) 8°(750) 7°(1000) 6° (1500) 5°(2000) 3°(3000)	6°(1500) 5°(2000) 3 °(3000)	3°(3000) 2°(4000,5000)	3°(3000) 2°(4000,5000)
Max. Table longitudinal Travel Speed (m/min)	0.1-4				
Tailstock Taper (MT)	4	4	6	Metric 80#	Metric 100#
Travel of Tailstock Quill (mm)	30	30	70	100	100
Wheelhead Motor Power (KW)	5.5	11	15	18.5	18.5
Workhead Motor Power (KW)	0.75	1.5	2.2/3.6	5	10

SURFACE GRINDER, Column Moving Surface Grinder



Order No.	904-3379	904-3381	904-3383	904-3385	904-3387
Table Size (mm)	500*1000	500*1600	610*1260	610*1600	610*2200
Max. Distance from table surface to spindle center (mm)	600				
Magnetic Chuck Size (mm)	500*1000*1	500*800*2	600*1000*1	600*800*2	600*1000*2
Table Cross feed speed	5-25m/min				
Wheelhead automatic cross feed speed	0.5-20mm/t				
Wheelhead power driven feed speed	1.25m/min				
Wheelhead manual feed speed	0.02mm/div				
Wheelhead vertical rapid feed speed	230m/min				
Wheelhead vertical manual feed speed	0.002mm/div				
Grinding wheel speed (rpm)	1450 (50HZ) , 1740(60HZ)				
Grinding wheel size (mm)	355*(20-50)*127mm				
Spindle Motor	7.5KW				
Max. load (including magnetic chuck)	700	880	970	1230	1690
Total power	12		14		
Machine Height (mm)	2390				
Floor Area (mm)	4700*2200	7120*2200	4000*2400	4700*2400	6000*2400
Weight	5500	6000	6500	7000	8000

SURFACE GRINDER, Column Moving Surface Grinder with automatic wheelhead vertical feeding



Order No.	904-3380	904-3382	904-3384	904-3386	904-3388
Table Size (mm)	500*1000	500*1600	610*1260	610*1600	610*2200
Max. Distance from table surface to spindle center (mm)	600				
Magnetic Chuck Size (mm)	500*1000*1	500*800*2	600*1000*1	600*800*2	600*1000*2
Table Cross feed speed	5-25m/min				
Wheelhead automatic cross feed speed	0.5-20mm/t				
Wheelhead power driven feed speed	1.25m/min				
Wheelhead manual feed speed	0.02mm/div				
Wheelhead vertical automatic feed	0.005, 0.01, 0.015, 0.02, 0.03, 0.04 mm/t				
Wheelhead vertical rapid feed speed	230m/min				
Wheelhead vertical manual feed speed	0.002mm/div				
Grinding wheel speed (rpm)	1450 (50HZ) , 1740(60HZ)				
Grinding wheel size (mm)	355*(20-50)*127mm				
Spindle Motor	7.5KW				
Max. load (including magnetic chuck)	700	880	970	1230	1690
Total power	12		14		
Machine Height (mm)	2390				
Floor Area (mm)	4700*2200	7120*2200	4000*2400	4700*2400	6000*2400
Weight	5500	6000	6500	7000	8000

SURFACE GRINDER with Moveable Column

Imported special wheelhead spindle.
 6 front and 2 rear precision bearings.
 Rigid thicker spindle
 Completely enclosed lubrication system
 3 axis guideways covered with wear resistant tape, lubricated with automatic independent lubrication system for smooth movement, long durability, reliability and precision stability.
 Y and Z AC servo motor with PLC control system for automatic surface grinding.
 X axis comes with dual hydraulic cyclinders.
 Photoelectric switch.
 Electrical-hydraulic valve to control directions.
 Independent hydraulic station.



Order No.	904-3011	904-3012	904-3013	904-3014	904-3015
Table Size (mm)	610*1600mm	610*2200mm	810*1600mm	810*2200mm	810*3000mm
Max. Travel (mm)	720*1840mm	720*2440mm	920*1840mm	920*2440mm	920*3300mm
Max.Distance from table surface to spindle centerline (mm)	820mm (925mm optional)				
Magnetic Chuck Size (mm)	600*800mm	600*1000mm	800*800mm	800*1000mm	800*1000mm
Optional Magnetic Chuck Nos.	2	2	2	2	3
Table Longitudinal Movement Speed	5-25mm/min				
Automatic Wheelhead Cross Feed Speed	1-30mm/t				
Wheelhead Cross Rapid Travel speed	0.05m/min				
Wheelhead Electronic Controlled feed	0.005mm/graduation				
Auto Wheelhead Vertical Rapid Speed	0.005-0.05mm/t				
Wheelhead vertical movement	0.05-2m/min				
Wheelhead Electronic Controlled Vertical feed	0.005mm/graduation				
Grinding Weel Speed	960rpm (1450rpm optional)				
Grinding Wheel Size	500*100*305mm (450x75x203mm optional)				
Spindle Motor	18.5KW				
Max.loading capacity of Table(with magnetic chuck)	1230kg	1690kg	1630kg	2240kg	3060kg
Total Power	28.5				31KW
Overall Height (mm)	2700				
Floor space(L*W) (cmxcm0	470*300	600*300mm	470*350mm	600*350mm	820*360mm
Gross Weight	8500kg	9500kg	10000kg	11500kg	14000kg

Program Controlled Guide Way Grinder Moveable Column Type



Order No.	904-3394	904-3395	904-3396	904-3397	904-3398
Table Size (mm)	610*1600	610*2200	810*1600	810*2200	810*3000
Max. Grinding Aread	610*1600	610*2200	810*1600	810*2200	810*3000
Max. Grinding Height (mm)	790				
Longitudinal Table Travel Speed (mm/min)	6~23				
Wheelhead Vertical Rotation Speed (m/min)	+30°, +5°, -30°, -5°				
Wheelhead Cross Rapid Speed (m/min)	0.05-2				
Wheelhead Electronic Controlled Cross Feed Speed (mm/gra)	0.005				
Wheelhead Vertical Rapid Speed (m/min)	0.05-2				
Wheelhead Electronic Controlled Vertical Feed Speed (mm/gra)	0.005				
Grinding wheel speed (rpm)	1450				
Grinding wheel size	To be determined by the customer				
Spindle Motor (kw)	5.5				
Max. Load (kg)	1230	1690	1630	2240	3060
Total power	17				
Machine Height (mm)	2920				
Floor area (cmxcm)	470*300	600*300	470*350	600*350	820*360
Machine Weight (kg)	8500	9500	10000	11500	14000

UNIVERSAL CNC CYLINDRICAL GRINDERS



Order No.	904-3088	904-3089	904-3090	904-3091	904-3092
Distance Between Center (mm)	600	1000	1000	1500	2000
Center Height (mm)	140		180		
Max. Grinding Diameter (mm)	275	275	360	360	360
Max. Load (kg)	100	100	150	200	300
Grinding Wheel Size (mm)	400x50x127		500x50x127		
Peripheral speed (m/s)	45				
Power of Main Motor (KW)	4	4	7.5		
Work head Speed (rpm)	10-1000	10-1000	10-800		
Center Taper	4	4	5		
Tailstock Taper	4				
Quil Travel (mm)	40				
Machine Weight (kg)	4000	4500	4700	5200	5700
Overall Size	300x270x180	390x270x180	420x295x205	530x295x205	640x295x205

- * Roundness: 0.0025mm
- * Uniformity of dia. in longitudinal section: 0.005mm
- * Surface roughness: Ra0.32

CNC SURFACE GRINDER with Moveable Column and Horizontal Spindle

Imported special wheelhead spindle.
 6 front and 2 rear precision bearings.
 Rigid thicker spindle
 Completely enclosed lubrication system
 3 axis guideways covered with wear resistant tape, lubricated with automatic independent lubrication system for smooth movement, long durability, reliability and precision stability.
 Y and Z AC servo motor with PLC control system for automatic surface grinding.
 X axis comes with dual hydraulic cyclinders.
 Photoelectric switch.
 Electrical-hydraulic valve to control directions.
 Independent hydraulic station.



Order No.	904-3389	904-3390	904-3391	904-3392	904-3393
Table Size (mm)	610*1600mm	610*2200mm	810*1600mm	810*2200mm	810*3000mm
Max. Travel (mm)	720*1840mm	720*2440mm	920*1840mm	920*2440mm	920*3300mm
Max.Distance from table surface to spindle centerline (mm)	820mm (925mm optional)				
Magnetic Chuck Size (mm)	600*800mm	600*1000mm	800*800mm	800*1000mm	800*1000mm
Optional Magnetic Chuck Nos.	2	2	2	2	3
Table Longitudinal Movement Speed	5-25mm/min				
Automatic Wheelhead Cross Feed Speed	1-30mm/t				
Wheelhead Cross Rapid Travel speed	0.05m/min				
Wheelhead Electronic Controlled feed	0.005mm/graduation				
Auto Wheelhead Vertical Rapid Speed	0.005-0.05mm/t				
Wheelhead vertical movement	0.05-2m/min				
Wheelhead Electronic Controlled Vertical feed	0.005mm/graduation				
Grinding Weel Speed	960rpm (1450rpm optional)				
Grinding Wheel Size	500*100*305mm (450x75x203mm optional)				
Spindle Motor	18.5KW				
Max.loading capacity of Table(with magnetic chuck)	1230kg	1690kg	1630kg	2240kg	3060kg
Total Power	28.5				31KW
Overall Height (mm)	2700				
Floor space(L*W) (cmxcm0	470*300	600*300mm	470*350mm	600*350mm	820*360mm
Gross Weight	8500kg	9500kg	10000kg	11500kg	14000kg

High Precision Vertical Universal CNC Grinder

- * Oil spray lubrication.
- * X/Z Position Accuracy ± 0.005
- * X/Z Repeatability ± 0.003
- * Table Rotation Accuracy $\pm 0.003^\circ$
- * Rotary Table Repeatability: $\pm 0.001^\circ$
- * Roundness Accuracy < 0.001
- * Cylindricity Accuracy $0.005/300$

Standard kit:

- * Grinding wheel dresser
- * Magnetic separator
- * Coolant tank
- * X/Z Linear feedback device.
- * ATC
- * Automatic grinding wheel balancer device.
- * Backlash elimination.
- * Flange
- * Machine mouting and levelling tools.



Order No.	904-3362	904-3363	904-3364	904-3365	904-3366	904-3367	904-3368
Max. Grinding Diameter (mm)	50-500	80-800	100-1000	120-1200	160-1600	200-2000	250-2500
Max. Grinding Depth (mm)	400			450			
Max. Grinding Height (mm)	500			700			
Max. Load	1000		2500	3000	5000	8000	10000
Grinding Wheel Speed (rpm)	2000-20000				1500-15000	1000-10000	1000-8000
Grinding Wheel Diameter	25-180	40-200	50-250	60-250	80-250	100-250	100-250
Grinding Wheel Shaft Taper	HSK-A50		HSK-A63				
Dia. Of Rotary table (mm)	500	700	900	1100	1500	1900	2400
Table Rotary Speed (rpm)	10-500			5-100			
Max. X and Z travel (mm)	X:1000 Z:700	X:1150 Z:700	X:1250 Z:700	X:1350 Z:700	X:1550 Z:700	X:1750 Z:700	X:2000 Z:700
X and Z axis Travel Speed (mm/min)	0-3000						
Ballscrew Lead	10mm						
X and Z axis Min. Setting	0.0001mm						
Spindle Sero Motor Power	5.5	7					
Grding Wheel Servo Motor Power	7.5	11	18				
X/Z Servo Motor	2		4				
Grinding Wheel Dresser Motor	1.2		1.8				
Water Tank Capacity	200L	600L					
Total Power	25KVA	30KVA	40KVA				
Floor Aread (LxWxH) (cm)	380*300*320	400*325*330	420*345*330	440*360*330	480*400*330	520*420*330	570*450*330
Machine Weight	8000	10000	13000	15000	18000	22000	25000
CNC Control System	FAGOR 8055 CNC						

CNC ROLLER GRINDER



Order No.	904-3340	904-3341 904-3342	904-3343 904-3344 904-3345	904-3346 904-3347 904-3348 904-3349	904-3350 904-3351 904-3352 904-3353	904-3354 904-3355 904-3356 904-3357	904-3358 904-3359 904-3360 904-3361
Max. Grinding Diameter (mm)	500	630	800	1000	1250	1600	2000
Distance between centers (m)	3	3,4	3,4,5	4,5,6,7	4,5,6,7	6,8,10,12	8,10,11,12
Max. convex (concave) amount≤	2	3	3	3	3	3	3
Max. Load (kg)	3	6.3	15	25	25	60	100
Variable Workpiece Speed (rpm)	10-100	8-125	7-70	5-50	5-50	3.5-40	4-40
Longitudinal tailstock moving speed (mm/min)	1000	1000	1800	1800	1800	1055	1310
Supporting Dia. Of Stead Rest (mm)	50-300	90-320	90-450	90-400	90-400	300-600	300-600
		300-450	300-680	350-600	350-780	600-950	600-950
Longitudinal carriage moving speed (mm/min)	20-3000	20-3000	20-4000	50-4000	50-4000	50-4000	50-4000
Max. Carriage Cross Travel (mm)	300	560	560	900	900	950	950
Rapid Carriage Cross Travel Speed (mm/min)	400	400	300	625	625	625	625
Wheelhead continuous Cross Feed Speed	0.001-1.2(mm/min)						
Wheelhead Periodical Cross Feed Speed	0.001-0.12mm/stroke						
Electronic handwheel Feed Amount	0.001mm/pulse						
Grinding Wheel Size (mm)	750*75*305			900*100*305			
Grinding Wheel Peripheral Speed (mm/s)	45	35(45)	35(45)	35(45)	35(45)	35(45)	35(45)
Measuring Range of Measuring Device (mm)	50-500	50-650	50-800	50-1200	50-1300	50-1600	50-2000
Worked Motor (kw)	5.5	15	30	45	45	55	90
Grindingwheel Motor (kw)	30	30(55)	45(55)	75	75	75	75
Wheel Cross Feed Motor (kw)	1.1	1.5	1.5	1.5	1.5	1.5	1.5
Carriage Longitudinal Moving Motor (kw)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Servo Motor for Grinding Convex (kw)	0.4	0.4	0.4	0.8	0.8	0.8	0.8

* Roundness: 0.001~0.003mm * form error: 0.001~0.003mm
 * Cylindricity: 0.001~0.003mm * Surface roughness: Ra 0.1um

NC Double Column Surface Grinding Machine Fixed Crossrail Type

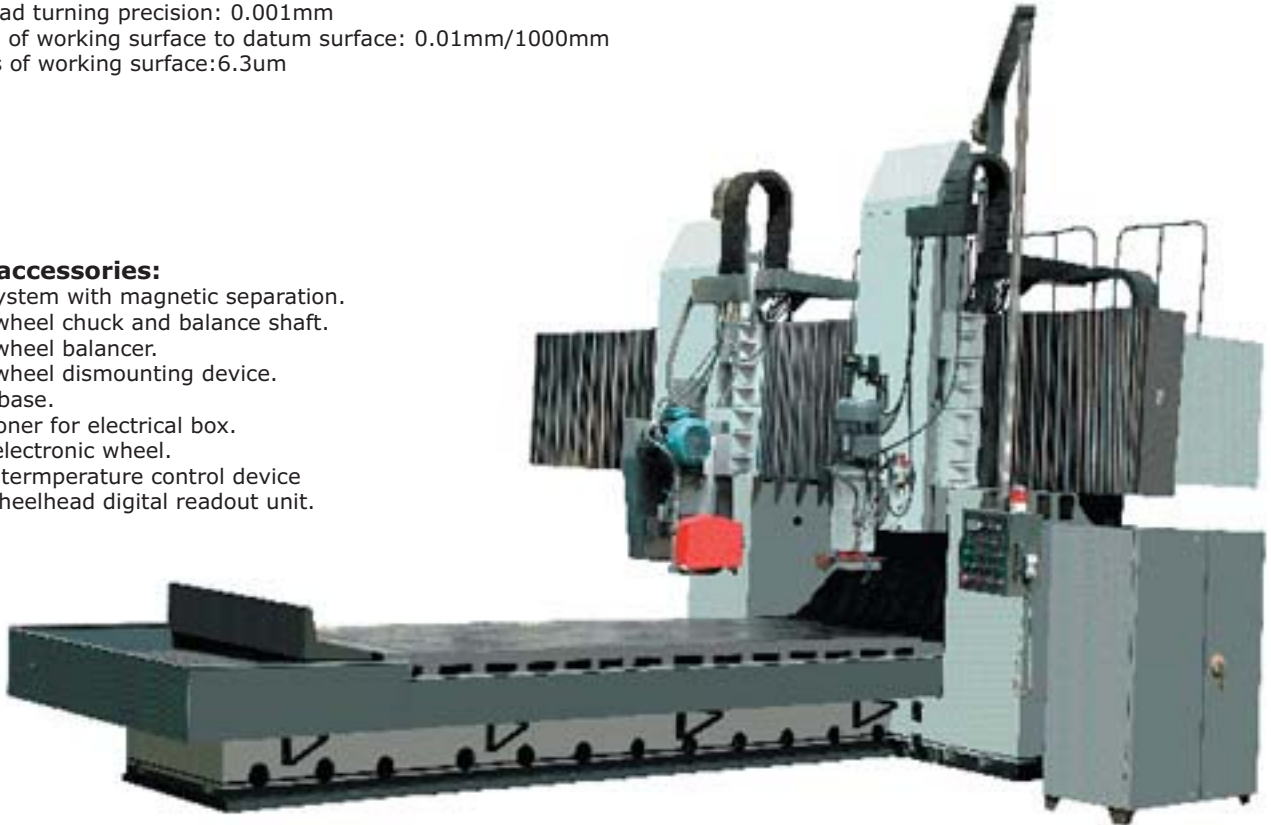
- * Variable wheelhead cross travel speed: 20-1200mm/min
- * Variable wheelhead Intermittent feed: 5-40mm/feed
- * Auto micro feed of electrical hand wheel per graduation: 0.005mm
- * Variable wheelhead vertical speed: 20-800mm/min
- * Auto micro feed of electrical hand wheel per graduation: 0.005mm
- * Auto.feed range: 0.005/0.01/0.02/0.03/0.05mm/feed
- * Variable Intermittent feed: 5-40mm/feed(optional for vertical wheelhead)
- * Variable Iongitudinal speed: 5-24m/min
- * Vertical head turning precision: 0.001mm
- * Parallelism of working surface to datum surface: 0.01mm/1000mm
- * Roughness of working surface:6.3um

Optional accessories.

1. Fabric belt filtering device
2. Floating grinding wheel angle dresser
3. Magnetic chuck
4. Y and Z axis digita readout (DRO)

Standard accessories:

1. Coolant system with magnetic separation.
2. Grinding wheel chuck and balance shaft.
3. Grinding wheel balancer.
4. Grinding wheel dismounting device.
5. Diamond base.
6. Airconditioner for electrical box.
7. Y, Z axis electronic wheel.
8. Hydraulic temperature control device
9. Vertical wheelhead digital readout unit.



Order No.	904-3250 to 904-3256	904-3257 to 904-3262	904-3263 to 904-3275	904-3276 to 904-3287
Table Width (mm)	1250	1600	2000	2500
Table Length (mm)	2000-8000	2500-8000	3500-16000	4500-16000
Grinding Width (mm)	1400	2000	2400	3000
Grinding Length (mm)	2000-8000	2500-8000	3500-16000	4500-16000
Grinding Height (mm)	800	1000	1200	1200
Distance Between Columns (mm)	1600	2200	2600	3200
Horizontal Spindle Motor	22KW			
Spindle speed	1300rpm			
Minimum feed	0.005mm			
Grinding Wheel Size	Φ500*100*Φ203mm			
Vertical spindle motor	11KW			
Vertical spindle speed	1450/2970rpm			
Vertical Min. Feed	0.005mm			
Vertical Grinding Wheel	Φ400*50*Φ127mm			
Tilting anlge of Vertical Grinding Wheelhead	±110°			

CNC Double Column Surface Grinding Machine Fixed Crossrail Type

- * Variable wheelhead cross travel speed: 20-1200mm/min
- * Variable wheelhead Intermittent feed: 5-40mm/feed
- * Auto micro feed of electrical hand wheel per graduation: 0.005mm
- * Variable wheelhead vertical speed: 20-800mm/min
- * Auto micro feed of electrical hand wheel per graduation: 0.005mm
- * Auto.feed range: 0.005/0.01/0.02/0.03/0.05mm/feed
- * Variable Intermittent feed: 5-40mm/feed(optional for vertical wheelhead)
- * Variable Longitudinal speed: 5-24m/min
- * Vertical head turning precision: 0.001mm
- * Parallelism of working surface to datum surface: 0.01mm/1000mm
- * Roughness of working surface:6.3um

Optional accessories.

1. Fabric belt filtering device
2. Floating grinding wheel angle dresser
3. Magnetic chuck

Standard accessories:

1. Coolant system with magnetic separation.
2. Grinding wheel chuck and balance shaft.
3. Grinding wheel balancer.
4. Grinding wheel dismounting device.
5. Diamond base.
6. Airconditioner for electrical box.
7. Y, Z axis electronic wheel.
8. Hydraulic temperature control device
9. Vertical wheelhead digital readout unit.
10. CNC Control system
11. On line automatic weight balancer.



Order No.	904-3300 to 904-3306	904-3307 to 904-3312	904-3313 to 904-3325	904-3326 to 904-3337
Table Width (mm)	1250	1600	2000	2500
Table Length (mm)	2000-8000	2500-8000	3500-16000	4500-16000
Grinding Width (mm)	1400	2000	2400	3000
Grinding Length (mm)	2000-8000	2500-8000	3500-16000	4500-16000
Grinding Height (mm)	800	1000	1200	1200
Distance Between Columns (mm)	1600	2200	2600	3200
Horizontal Spindle Motor	22KW			
Spindle speed	1300rpm			
Minimum feed	0.005mm			
Grinding Wheel Size	Φ500*100*Φ203mm			
Vertical spindle motor	11KW			
Vertical spindle speed	1450/2970rpm			
Vertical Min. Feed	0.005mm			
Vertical Grinding Wheel	Φ400*50*Φ127mm			
Tilting angle of Vertical Grinding Wheelhead	±110°			
CNC Control System	FANUC, SIMENSE, MITSUBISHI			

CNC Vertical Milling Machine



- * FANUC 0i Mate MC system
- * Sliding bedways
- * Carrousel Type Magazine
- * Coolant system
- * CNC Manual
- * User's manual
- * Tool kits

Description	920-0024	920-0032	920-0044
Table size	800x400mm	950x460mm	1200x580mm
X travel	600mm	800mm	1100mm
Y travel	400mm	500mm	550mm
Z travel	500mm	550mm	600mm
Distance between spindle center and column guide way	450mm	550mm	610mm
Distance between spindle end and table	138-648mm	150-700mm	150-750mm
Taper bore of spindle	BT40	BT40	BT40
Spindle speed	60-6000rpm	60-6000rpm	60-6000rpm
XiϕYiϕZ Travel speed	0-15m/min	0-18m/min	0-20m/min
Table T slot number & width	3x18mm	3x18mm	3x18mm
Max. Table load	500Kg	600Kg	800Kg
XiϕY motor torque	7NM	12NM	16NM
Z motor torque	8NM	12NM	16NM
XiϕYiϕZ motor connection	Direct connection		
Tool number	20	20	20
Cutter removal from spindle	Pneumatic		
Main motor power	5.5/7.5kw	5.5/7.5kw	11/15kw
Min. displacement(X/Y/Z)	0.001mm	0.001mm	0.001mm
Min. input(X/Y/Z)	0.001mm	0.001mm	0.001mm
Pepeatability(X/Y/Z)	±0.003mm	±0.003mm	±0.003mm
Overall dimensilns(LxWxG)	2280x1880x2100mm	2400x2110x2800mm	2900x2350x2900mm
Net weight	4500kg	5000kg	7000kg

Universal Turrent CNC Milling Machine



Standard accessories:

- Draw bar
- Tool box and tools
- Working lamp
- Electro lubricating pump
- Hung-up control panel
- Cooling system
- Oil collecting plate
- Plastic splashing guard

Optional accessories:

- Air draw bar
- Machine vise
- Universal clamping kits
- Collets and chuck

Order No.	905-0201	905-0205	905-0206	905-0208	905-0215	905-0216
Table Size (mm)	230x1067	254x1270	254x1270	254x1270	305x1370	305x1370
X travel (mm)	550	750	750	750	800	800
Y travel (mm)	300	400	380	400	360	360
Z travel (mm)	127	127	127	127	127	127
T-slot	3×16	3×16	3×16	3×16	3×16	3×16
Table loading	200kg	280kg	280kg	280kg	350kg	350kg
X/Y/Z rapid feed	5000mm/min	5000mm/min	5000mm/min	5000mm/min	5000mm/min	5000mm/min
X/Y/Z servo motor	1Kw	1Kw	1Kw	1Kw	1Kw	1Kw
Knee vertical travel	380mm	400mm	400mm	400mm	410mm	410mm
Ram travel	315mm	465mm	465mm	465mm	500mm	500mm
Spindle to table distance	0-380mm	0-400mm	0-400mm	0-400mm	0-410mm	0-410mm
Spindle speed	16 steps: 50HZ:60-4500/60HZ:80-5440rpm					
Spindle taper	standard: R8/optional: ISO40				ISO40	ISO40
Motor power	3HP	3HP	3HP	3HP	5HP	5HP
Head swiveling (L/F)	90°	90°	90°	90°	90°	90°
Head tilting (F/B)	45°	45°	45°	-	45°	-
Controlling system	KND/HD500/GSK					
Packing size	165×190×200cm		190×200×223cm		200×200×225cm	
Machine weight	1200kg	1500kg	1500kg	1700kg	1900kg	1900kg

Universal Turrent CNC Milling Machine



Standard accessories:

- Draw bar
- Tool box and tools
- Working lamp
- Electro lubricating pump
- Hung-up control panel
- Cooling system
- Oil collecting plate
- Plastic splashing guard

Optional accessories:

- Air draw bar
- Machine vise
- Universal clamping kits
- Collets and chuck

Order No.	905-0203	905-0210	905-0211	905-0213	905-0217	905-0218
Table size (mm)	230×1246	254×1370	254×1370	254×1370	305×1500	305×1500
X travel (mm)	74	850	850	850	900	900
Y travel (mm)	300	400	380	400	360	360
Z Travel (mm)	127	127	127	127	127	127
T-slot	3×16	3×16	3×16	3×16	3×16	3×16
Max. table load	200kg	280kg	280kg	280kg	350kg	350kg
X/Y/Z rapid feed	5000mm/min	5000mm/min	5000mm/min	5000mm/min	5000mm/min	5000mm/min
X/Y/Z servo motor	1Kw	1Kw	1Kw	1Kw	1Kw	1Kw
Knee vertical travel	380mm	400mm	400mm	400mm	410mm	410mm
Ram travel	315mm	465mm	465mm	465mm	500mm	500mm
Spindle to table distance	0-380mm	0-400mm	0-400mm	0-400mm	0-410mm	0-410mm
Spindle speed	16 steps: 50HZ:60-4500/60HZ:80-5440rpm					
Spindle taper	standard: R8/optional: ISO40				ISO40	ISO40
Motor power	3HP	3HP	3HP	3HP	5HP	5HP
Head swiveling (L/F)	90°	90°	90°	90°	90°	90°
Head tilting (F/B)	45°	45°	45°	-	45°	-
Controlling system	KND/HD500/GSK					
Packing size	165×190×200cm		190×200×223cm		200×200×225cm	
Machine weight	1200kg	1500kg	1500kg	1700kg	1900kg	1900kg

CNC Milling Machine



Standard accessories:

- Semi isolated table shield
- Cutting fluid circulation system
- Auto lubrication system
- Spindle air flow
- Working lamp
- Level adjustable screw & block
- Clamping kits
- Plastic splashing guard

Optional accessories:

- The forth axis rotary table
- CNC system is equipped as customer's order

Standard Model	905-0221	905-0222	905-0223	905-0224	905-0225
Table size (mm)	1370×330	1370×406	1600×510	1600×510	1854×610
Table loading (kg)	400	800	1200	1200	1500
T-slot (mm×No)	16×3	16×5	18×5	18×5	18×5
X axis (mm)	800	1000	1200	1200	1500
Y axis (mm)	450	480	700	800	740
Z axis (mm)	480	600	600	740	700
Max. move speed (mm/min)	8000	8000	10000	10000	10000
Max. feed speed (mm/min)	3000	3000	4000	4000	4000
spindle speed (rpm)	40-6000	40-6000	40-6000	40-6000	40-6000
spindle taper	BT40	BT40	BT40/BT50	BT40/BT50	BT40/BT50
spindle motor (Kw)	5.5	7.5	7.5	7.5	7.5
servo motor (Kw)	X/Y:1.0 / Z:1.5	X/Y/Z: 1.5	X/Y/Z: 2.0	X/Y/Z: 2.0	X/Y/Z: 2.0
spindle quill diameter (mm)	Φ120	Φ150	Φ150 / Φ160	Φ150 / Φ160	Φ150 / Φ160
spindle to column (mm)	160-640	20-620	60-660	60-800	80-780
X axis Ball screw (mm)	Φ32×5 P4	Φ32×5 P4	Φ40×10 P4	Φ40×10 P4	Φ40×10 P4
Y axis Ball screw (mm)	Φ32×5 P4	Φ40×5 P4	Φ40×10 P4	Φ40×10 P4	Φ40×10 P4
Z axis Ball screw(mm)	Φ32×5 P4	Φ40×5 P4	Φ40×10 P4	Φ40×10 P4	Φ40×10 P4
positioning accuracy (mm)	±0.015	±0.015	±0.015	±0.015	±0.015
Repeatability (mm)	±0.008	±0.008	±0.008	±0.008	±0.008
Machine Weight (kg)	2600	3800	5000	5000	6000

CNC Milling Machine

Standard accessories:

- Semi isolated table shield
- Cutting fluid circulation system
- Auto lubrication system
- Spindle air flow
- Working lamp
- Level adjustable screw & block
- Clamping kits
- Plastic splashing guard

with ATC



Optional accessories:

- The forth axis rotary table
- CNC system is equipped as customer's order

With ATC	905-0226	905-0227	905-0228	905-0229	905-0230
With Full-closed Cover	905-0231	905-0232	905-0233	905-0234	-
Table size (mm)	1370×330	1370×406	1600×510	1600×510	1854×610
Table loading (kg)	400	800	1200	1200	1500
T-slot (mm×No)	16×3	16×5	18×5	18×5	18×5
X axis (mm)	800	1000	1200	1200	1500
Y axis (mm)	450	480	700	800	740
Z axis (mm)	480	600	600	740	700
Max. move speed (mm/min)	8000	8000	10000	10000	10000
Max. feed speed (mm/min)	3000	3000	4000	4000	4000
spindle speed (rpm)	40-6000	40-6000	40-6000	40-6000	40-6000
spindle taper	BT40	BT40	BT40/BT50	BT40/BT50	BT40/BT50
spindle motor (Kw)	5.5	7.5	7.5	7.5	7.5
servo motor (Kw)	X/Y:1.0 / Z:1.5	X/Y/Z: 1.5	X/Y/Z: 2.0	X/Y/Z: 2.0	X/Y/Z: 2.0
spindle quill diameter (mm)	Φ120	Φ150	Φ150 / Φ160	Φ150 / Φ160	Φ150 / Φ160
spindle to column (mm)	160-640	20-620	60-660	60-800	80-780
X axis Ball screw (mm)	Φ32×5 P4	Φ32×5 P4	Φ40×10 P4	Φ40×10 P4	Φ40×10 P4
Y axis Ball screw (mm)	Φ32×5 P4	Φ40×5 P4	Φ40×10 P4	Φ40×10 P4	Φ40×10 P4
Z axis Ball screw(mm)	Φ32×5 P4	Φ40×5 P4	Φ40×10 P4	Φ40×10 P4	Φ40×10 P4
positioning accuracy (mm)	±0.015	±0.015	±0.015	±0.015	±0.015
Repeatability (mm)	±0.008	±0.008	±0.008	±0.008	±0.008
semi-closed cover (kg)	2600	3800	5000	5000	6000
full-closed cover (kg)	3400	4720	6400	6400	

Horizontal CNC Machining Center

Controller System
 Standard: FANUC
 Optional: SIEMENSE, MITSUBISHI



Order. No.	905-0040	905-0041	905-0042	905-0043
X travel (mm)	1250	1250	2400	3200
Y travel (mm)	1200	1200	1800	1800
Z travel (mm)	1100	1100	1500	1500
Spindle nose to table center (mm)	300-1400	300-1400	680-2180	680-2180
Spindle center to table face (mm)	70-1070	70-1270	50-1850	50-1850
Table manner	NC 0.001°	NC 0.001°	NC 0.001°	NC 0.001°
Table size (mm)	1000×1000	1000×1000	1500×1500	1500×1500
T-slot (wide×No×space)	22×7×125	22×7×125	28×5×275	28×5×275
Max load capacity (kg)	3000	3000	8000	8000
Spindle motor (kw)	18.5/22	18.5/22	18.5/22	18.5/22
Spindle Max. speed (rpm)	6000	6000	6000	6000
Spindle taper	BT50	BT50	BT50	BT50
Rapid speed (X/Y/Z) (m/min)	15	15	12	12
Cutting speed (mm/min)	1-5000	1-5000	1-5000	1-5000
Positioning accuracy (mm)	0.025	0.025	0.03	0.03
Repeatability positioning (mm)	0.012	0.012	0.015	0.015
Table indexing accuracy	15"(±5")	15"(±5")	15"(±5")	15"(±5")
Table repeatability	±2"(±1.5")	±2"(±1.5")	±2"(±1.5")	±2"(±1.5")
Tool shank	BT50	BT50	BT50	BT50
Tool magazine capacity (pcs)	40	40	40	40
Max tool (dia×weight×L)	φ125×20×400	φ125×20×400	φ125×20×400	φ125×20×400
Machine weight (kg)	20000	20000	30000	32000
Power requirement (KVA)	50	50	60	60

Horizontal Machining Center

Controller
Standard: FANUC
Optional: SIEMENSE, MITSUBISHI

Order No. 905-0044



Technical Data

Moving

X travel: 600 mm
Y travel: 530 mm
Z travel: 530 mm
Spindle nose to table center: 310-840 mm
Spindle center to table face: 0-530 mm

Table

Table size: 500×600 mm
Max load capacity of table: 500 kg

Spindle

Spindle motor: 7.5/9 kw
Spindle speed: 6000 rpm
Spindle taper: BT40

Feed

Rapid feed: 20 m/min
Cutting feed rate: 1-1000 mm/min

Accuracy

Positioning accuracy: 0.012 mm
Repeatability positioning: 0.006 mm
Table indexing accuracy: 15"
Table repeatability accuracy: ±2"

ATC

Tool shank: BT40
Tool magazine capacity: 24
Max tool(Dia×W×L): Φ100mm×7kg×350mm

Machine

Machine weight: 7500 kg
Power requirement: 30 KVA

Vertical Machining Center

with interchangeable worktable

Moving

X travel: 560 mm
Y travel: 410 mm
Z travel: 460 mm
Spindle nose to table: 150-610 mm

Table

Table size: 600×380 mm
Max load capacity of table: 250 kg

Spindle

Spindle motor: 5.5/7.5 kw
Spindle speed: 60-8000 rpm
Spindle taper: BT40

Feed

Sevor motor: 1.6/3.0 kw
Sevor motor torque: 8/12 N.m
Rapid feed: 8/8/12 m/min
Cutting feed rate: 1-5000 mm/min
hand federate: 0-2000 mm/min

Accuracy

Positioning accuracy: 0.008/300 mm
Repeatability: 0.004 mm

ATC

Change type: Arm type
Tool magazine capacity: 24
Max tool(Dia×W×L): Φ85mm×8kg×200mm
Change time: 1.5 s

Machine

Machine weight: 4000 kg
Power requirement: 25 KVA

Controller
Standard: FANUC
Optional: SIEMENSE, MITSUBISHI



Order No. 905-0060

Vertical Machining Center



Controller
Standard: FANUC
Optional:
SIEMENSE, MITSUBISHI

semi-full enclosed safety cover

- Integrative direct-connecting spindle unit with high precision and high rigidity.
- 4 axes base structure with high strength modified cast iron.
- Reverse-clamping guide way make the column with good stability to suit for heavy cutting.
- Automatic lubricating device with regular time and quantity.

Order No	905-0045	905-0046	905-0047	905-0048	905-0049
X travel (mm)	1500	1500	2000	2000	3000
Y travel (mm)	750	800	900	900	1250
Z travel (mm)	650	650	800	800	900
spindle nose to table (mm)	200-850	200-850	200-1000	200-1000	200-1100
Table size (mm)	1700×650	1700×750	2200×900	2200×900	3200×1250
T slot (wide×No.×space) (mm)	18×5×125	18×5×125	22×5×160	22×5×160	22×7×160
Max load (kg)	1800	2000	2500	3000	5000
Spindle motor (kw)	40132	40132	40132	15/18.5	15/18.5
Spindle speed (rpm)	60-5000				
Spindle taper	BT50				
Spindle connect to motor	Coupling				
Servo motor (kw)	4	38172	38172	39240	7/7/7×2
Sevor motor torque (N.m)	22	22/30/22	22/30/22	30/38/30	30/30/30
Rapid speed (m/min)	20/20/20	20/20/20	16/16/16	16/16/16	41255
Cutting feed rate (mm/min)	1-5000				
Hand feed rate (mm/min)	0-2000				
Position accuracy (mm)	0.016	0.016	0.016	0.02	0.025
Repeatability (mm)	0.008	0.008	0.008	0.01	0.012
Change type	Arm type				
Tool magazine capacity (T)	24				
Max tool (mm×kg×mm)	127×15×300	110×15×300	127×15×300	127×15×300	127×15×300
Change time (s)	5				
Machine weight (kg)	15000	16000	18000	18000	30000
Power requirement (KVA)	40	45	45	50	55

Vertical Machining Center



Standard accessories:

- Full-closed safety cover
- Cutting fluid cycling system
- Auto lubrication system
- Spindle air flow
- Working lamp
- Caution light for lack of lubrication, cutting fluid and air
- 3 colors caution lamp
- Level adjustable screw & block
- Telescopic cover for guideway
- Heat exchanger for control cabinet
- Automatic Tool Change (ATC)
- Tool box

Controller

Standard: FANUC

Optional: SIEMENSE, ITSUBISHI

Order No.	905-0050	905-0051	905-0052	905-0053
X travel (mm)	600	1000	1250	1300
Y travel (mm)	450	550	650	750
Z travel (mm)	530	620	650	600
Spindle nose to table (mm)	140-670	150-770	200-850	220-820
Table size (mm)	750×450	1100×525	1550×650	1500×650
T-slot (wide×No×space)	18×4×100	18×5×100	18×5×125	18×5×125
Max load capacity (kg)	350	800	1250	1600
Spindle motor (kw)	5.5 / 7.5	5.5 / 9	9 / 11	11 / 15
Spindle speed (rpm)	60-8000	60-6000	60-8000	60-8000
Spindle taper	BT40	BT40	BT40	BT50
Sevor motor (kw)	1.6	3	4	4
Sevor motor torque (N.m)	8	12	22	22
Rapid speed (X/Y/Z) (mm/min)	18/18/15	18/18/15	20/20/20	20/20/20
Cutting feed rate (mm/min)	1-5000	1-5000	1-5000	1-5000
Hand feed rate (mm/min)	0-2000	0-2000	0-2000	0-2000
Positioning accuracy (mm)	0.008/300	0.008/300	0.008/300	0.008/300
Repeatability (mm)	±0.004	±0.004	±0.004	±0.004
Change type	Carousel	Carousel	Arm type	Arm type
Tool magazine capacity (pcs)	16	24	24	24
Max tool (dia×weight×L)	90×8×300	90×8×300	90×8×300	112×15×300
Change time (s)	8	8	3	3
Machine weight (kg)	4200	6000	10000	12000
Power requirement (KVA)	15	20	25	25

Vertical Machining Center

with spindle gear box
semi-full enclosed cover



Controller
Standard: FANUC
Optional:
SIEMENSE, MITSUBISHI

- High strength: the high-rigidity reverse-clamping guide way structure suits for heavy cutting, the high-speed ball screw direct coupling transmission, adopting pre-loaded design and central lubrication assure the machine get the smooth movement, high precision and long using life.
- Gear transmission: the spindle adopts two shifts gear box to change speed automatically with large torque and heavy duty cutting ability.
- High rigidity: high-rigidity structure design and high-intensity casting assure the heavy duty cutting stability. The hardness of the guide way can reach to 52 HRC.

Order No.	905-0054	905-0055	905-0056	905-0057
X travel (mm)	1300	1500	2000	3000
Y travel (mm)	750	800	900	1250
Z travel (mm)	600	650	800	900
Spindle nose to table (mm)	220-820	200-850	200-1000	200-1100
Table size (mm)	1500×650	1700×750	2200×900	3200×1250
T-slot (widexNoxspace)	18×5×125	18×5×125	22×5×160	22×7×160
Max load capacity (kg)	1600	2000	3000	5000
Spindle motor (kw)	11/15	11/15	15/18.5	15/18.5
Spindle speed (rpm)	10-590 (L) 590-3500 (H) Two shifts gear box speed changing			
Spindle taper	BT50	BT50	BT50	BT50
Sevor motor (X/Y/Z) (kw)	4	4/7/4	7/6/7	7/7/7×2
Sevor motor torque (X/Y/Z) (N.m)	22	22/30/22	30/38/30	30/30/30
Rapid speed (X/Y/Z) (mm/min)	20/20/20	20/20/20	16/16/16	12/12/12
Cutting feed rate (mm/min)	1-5000	1-5000	1-5000	1-5000
Hand feed rate (mm/min)	0-2000	0-2000	0-2000	0-2000
Positioning accuracy (mm)	0.016	0.016	0.020	0.025
Repeatability (mm)	0.008	0.008		
Change type	Arm type	Arm type	Arm type	Arm type
Tool magazine	24	24	24	24
Max tool (dia×weight×L)	112×15×300	110×15×300	127×8×300	127×15×3000
Change time (s)	3	5	5	5
Machine weight (kg)	12000	16000	18000	18000
Power requirement (KVA)	25	45	50	55

Horizontal Machining Center

with changing pallet



Standard Controller: FANUC 0i-Mc
Optional: SIEMENSE, MITSUBISHI, etc.

Standard machine configuration: Gear type changing pallets; VC full-closed safety cover; Cutting fluid cycling device; Automatic lubricating device with regular time & quantity; Spindle air blowing device; Working lamp; Caution light for less of lubrication, cutting fluid and air; 3 colours caution lamp; Leveling screw and block; Telescopic cover for 3-axis guide way; Heat exchange system for control cabinet; Automatic tool change; Operation manual; Tool box.

Order No	Unit	905-0061	905-0062	905-0063	905-0064
Table size	mm	400×400	500×500	630×630	800×800
Number of pallet		2	2	2	2
Pallets exchange type		revolving	revolving	Push-and-pull	Push-and-pull
Working manner		Standard: 1°dividing / optional: NC0.001°			
T-slot (wide×No.×space)	mm	14×5×80	14×6×80	18×5×100	22×5×160
Max. loading	Kg	500	500	1500	2000
Time of pallets exchange	S	8	8	12	12
X / Y / Z travel	mm	630/500/600	780/600/600	1000/800/900	1200/900/900
Spindle nose to table center	mm	200 ~ 800	150 ~ 750	200 ~ 1100	200 ~ 1100
Spindle center to table face	mm	-50 ~ 450	-20 ~ 580	-50 ~ 750	-50 ~ 850
Spindle motor	Kw	7.5 / 9	11 / 15	15 / 18.5	18.5 / 22
Spindle max. speed	rpm	8000	6000	6000	6000
Spindle taper	No.	BT40	BT50	BT50	BT50
X/Y/Z axis rapid feed	m/min	20/20/20	42353	42353	42353
Cutting feed	mm/min	1 ~ 5000	1 ~ 5000	1 ~ 5000	1 ~ 5000
Position accuracy	mm	0.012	0.012	0.016	0.02
Repeating accuracy	mm	0.006	0.006	0.008	0.01
Table indexing accuracy		±5" (15")	±5" (15")	±5" (20")	±5" (20")
Table repeating accuracy		±1.5" (±3")	±1.5" (±3")	±1.5" (±5")	±1.5" (±5")
Spindle Taper		BT40	BT50	BT50	BT50
Tool magazine capacity	T	24 (optional 32/40T)			
Max. tool (Dia×W×L)	mm×kg×mm	Φ100×7×350	Φ125×15×400	Φ125×15×400	Φ125×15×400
Machine weight	Kg	10000	13500	16500	17500
Power required	KVA	30	40	45	50

Horizontal Machining Center



Controller
 Standard: FANUC
 Optional: SIEMENSE, MITSUBISHI

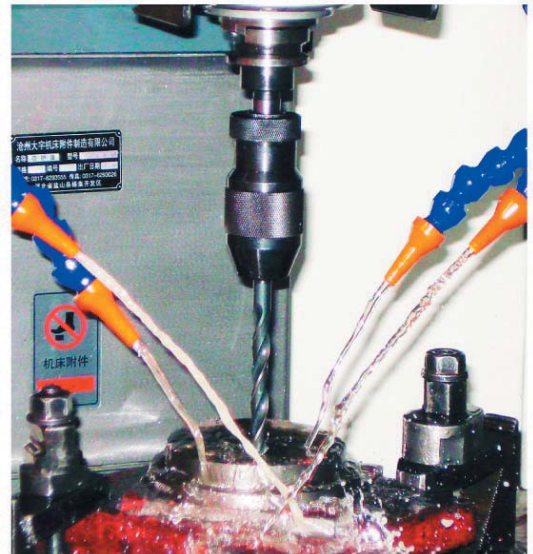
Order. No.	905-0066	905-0067	905-0068	905-0069
X travel (mm)	630	800	1000	1000
Y travel (mm)	500	600	800	800
Z travel (mm)	600	600	900	900
Spindle nose to table center (mm)	200-800	150-750	200-1100	285-1185
Spindle center to table face (mm)	50-550	50-650	0-800	0-800
Table manner	NC 0.001°	NC 0.001°	NC 0.001°	NC 0.001°
Table size (mm)	400×400	500×600	630×630	800×800
T-slot (wide×No×space)	14×5×80	14×6×80	18×5×125	22×5×160
Max load capacity (kg)	400	500	1500	2000
Spindle motor (kw)	7.5/9	11/15	15/18.5	18.5/22
Spindle Max. speed (rpm)	8000	6000	6000	6000
Spindle taper	BT40	BT50	BT50	BT50
Rapid speed (X/Y/Z) (m/min)	20	20	20	15
Cutting speed (mm/min)	1-5000	1-5000	1-5000	1-5000
Positioning accuracy (mm)	0.012	0.012	0.016	0.02
Repeatability positioning (mm)	0.006	0.006	0.008	0.01
Table indexing accuracy	15"(±5")	15"(±5")	20"(±5")	20"(±5")
Table repeatability	±2"(±1.5")	±2"(±1.5")	±2"(±1.5")	±1.5"(±2")
Tool shank	BT40	BT50	BT50	BT50
Tool magazine capacity (pcs)	24	24	24	24
Max tool (dia×weight×L)	Φ100×7×350	Φ125×18×400	Φ125×18×400	Φ125×20×450
Machine weight (kg)	8500	10500	15000	20000
Power requirement (KVA)	30	40	45	45

Drilling & Tapping Machining Center

- 3 axis linkage for drilling, tapping and other point processing.
- With additional the fourth axis, can realize spiral line machining.
- ATC placed at the top of spindle unit, can save tool changing time.
- Linear guideway and precision ball screw assure high rapid speed.
- Full-closed guard for safety working.



► efficiently Drilling



Order No.	905-0070
X/Y/Z travel	450/300/300 mm
spindle motor	2.2Kw
spindle speed	60-8000rpm
thread-cutting feature speed	4000rpm
spindle taper	BT30
spindle nose to table	170-470mm
spindle center to Z axis slide way guard	370mm
X/Y/Z axis rapid feed	48m/min
table size	520×320mm
Max. load capacity	200Kg
tool magazine capacity	12T
Max. tool weight	3Kg
Max. tool size (dia. × length)	90×200mm
tool changing time	2s
positioning accuracy	0.005/300mm
double direction repeatability accuracy	±0.003mm
X/Y/Z axis servo motor	1.0/1.0/1.5Kw
CNC system	MITSUBISHI E68-M
packing dimension	230×170×265cm
machine weight	2050Kg

◀ high speed Tapping



Standard accessories:

- Spiral chip conveyer
- Hand wheel pulser (MPG)
- Colorful LCD
- Heat exchange system for control cabinet
- Tool coolant system
- Auto lubrication system
- Double color caution light
- Working lamp
- Leveling screw and block
- Tool box and tools

Optional accessories:

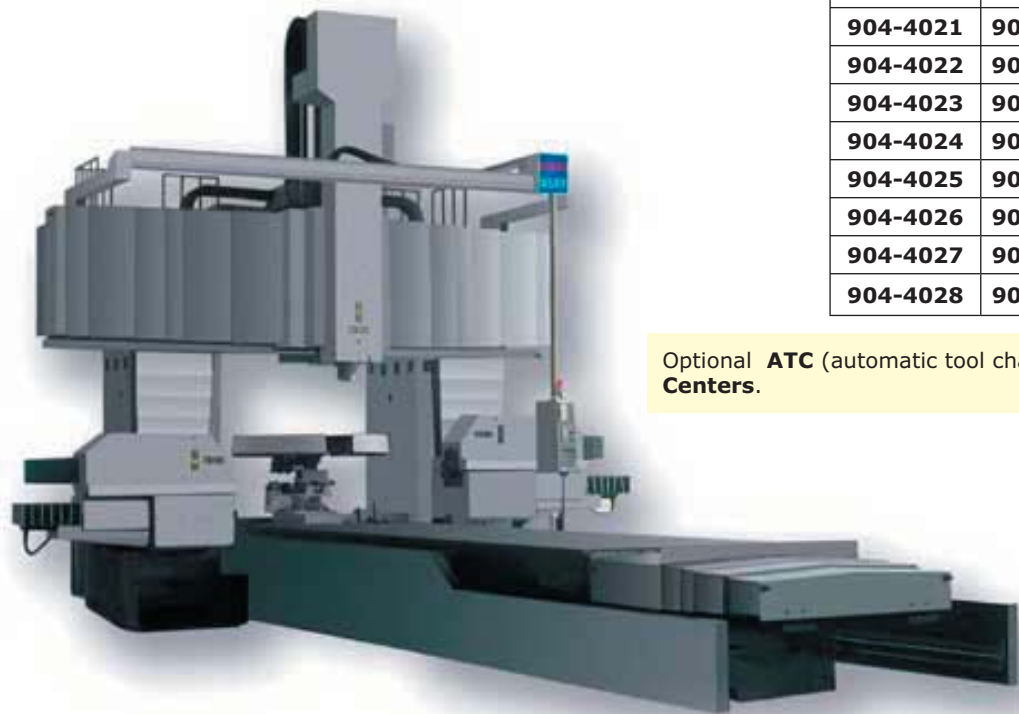
- the 4th axis rotating table
- 12000rpm spindle
- squirt gun for cleaning
- workpiece blow-out system

CNC Gantry Boring and Milling Machine *with Fixed-beam & Moving-table*

- Gantry structure with fixed-beam and movable table. The fixed-beam is equipped with vertical ram-type boring and milling head. The table moves along bed guideway in longitudinal direction.
- Constant-current hydro-static pressure rectangular guideway for X axis for heavy duty cutting, rolling-sliding compounded long-span rectangular ladder type guideway for Y axis, 500*500 square ram for Z axis.
- AC-servo motor driving ball screw or double gear & rack transmission for X axis, Ac-servo motor driving ball screw transmission for Y and Z axis. Three axis position measurement adopts encoder to realize semi-closed loop control.
- AC servo motor is connected to the spindle unit via automatic two speed gear-box, so the spindle can realize low speed & big torque heavy-duty cutting and high speed & constant power precision cutting. and it supported by high precision special bearings.
- With automatic lubrication system and chip & coolant liquid collection function.
- ATC and the 4th axis are optional.

Order No.		904-4001 to 904-4028	904-4031 to 904-4058
Table size	Width	1250 mm	1600 mm
	Length	2500-16000 mm	2500-16000 mm
Machining travel	Width	1400 mm	2000 mm
	Length	2800-16500 mm	2800-16500 mm
	Height	1000 mm	1200 mm
Gantry width		1600 mm	2200 mm
Distance from spindle nose to table surface		1200 mm	1400 mm
Max loading		Standard 2T/M (optional 5T/M)	Standard 3T/M (optional 8T/M)
Spindle	Power	vertical spindle standard FANUC 30/37 KW horizontal spindle standard 15KW	
	Speed	std. 10-3000 rpm (opt. 20-2000 or 10-6000)	
	Torque	std. FANUC 1245 N.M (opt. 560-4151 N.M.)	
	Taper	standard BT50 (optional BT60)	
	Speed ratio	std. 1:1/1:5 (opt. 1:1/1:4 or 1:2.5/1:10)	
Feed	Work feed	1000-5000 mm/min	
	Rapid feed	10000 mm/min	
Feedback control of moving axis		Standard Semi-closure circle (optional Full-closure circle)	
CNC control system		Standard FANUC 0I-MC	

Order No.	Order No.	Table length (mm)	Travel length (mm)
904-4001	904-4031	2500	2800
904-4002	904-4032	3000	3300
904-4003	904-4033	3500	3800
904-4004	904-4034	4000	4300
904-4005	904-4035	4500	4800
904-4006	904-4036	5000	5300
904-4007	904-4037	5500	5800
904-4008	904-4038	6000	6300
904-4009	904-4039	6500	6800
904-4010	904-4040	7000	7300
904-4011	904-4041	7500	7800
904-4012	904-4042	8000	8500
904-4013	904-4043	8500	9000
904-4014	904-4044	9000	9500
904-4015	904-4045	9500	10000
904-4016	904-4046	10000	10500
904-4017	904-4047	10500	11000
904-4018	904-4048	11000	11500
904-4019	904-4049	11500	12000
904-4020	904-4050	12000	12500
904-4021	904-4051	12500	13000
904-4022	904-4052	13000	13500
904-4023	904-4053	13500	14000
904-4024	904-4054	14000	14500
904-4025	904-4055	14500	15000
904-4026	904-4056	15000	15500
904-4027	904-4057	15500	16000
904-4028	904-4058	16000	16500



Optional **ATC** (automatic tool changer) for the **Gantry Machining Centers**.

Choice of tool magazine 24T, 32T, 40T or 60T.

CNC Gantry Boring and Milling Machine *with Fixed-beam & Moving-table*

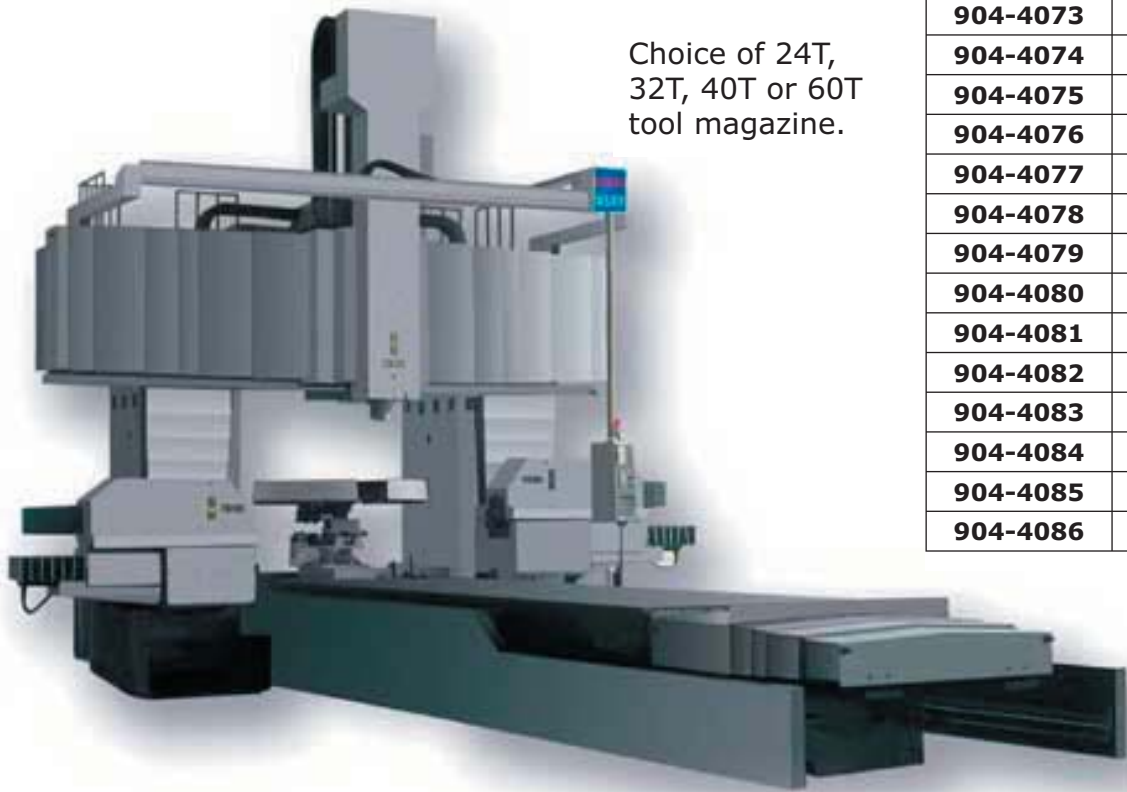
- Gantry structure with fixed-beam and movable table. The fixed-beam is equipped with vertical ram-type boring and milling head. The table moves along bed guideway in longitudinal direction.
- Constant-current hydro-static pressure rectangular guideway for X axis for heavy duty cutting, rolling-sliding compounded long-span rectangular ladder type guideway for Y axis, 500*500 square ram for Z axis.
- AC-servo motor driving ball screw or double gear & rack transmission for X axis, Ac-servo motor driving ball screw transmission for Y and Z axis. Three axis position measurement adopts encoder to realize semi-closed loop control.
- AC servo motor is connected to the spindle unit via automatic two speed gear-box, so the spindle can realize low speed & big torque heavy-duty cutting and high speed & constant power precision cutting. and it supported by high precision special bearings.
- With automatic lubrication system and chip & coolant liquid collection function.
- ATC and the 4th axis are optional.

Table size	Width	2000 mm
	Length	3500-16000 mm
Ma-chining travel	Width	2400 mm
	Length	3800-16500 mm
	Height	1200 mm
Gantry width		2600 mm
Distance from spindle nose to table surface		1400 mm
Max loading		8 T/M
Spindle	Power	vertical spindle standard FANUC 30/37 KW
		horizontal spindle standard 15KW
	Speed	standard 10-3000 rpm (optional 20-2000 or 10-6000)
	Torque	standard FANUC 1245 N.M (optional 560-4151 N.M.)
	Speed ratio	standard 1:1/1:5 (optional 1:1/1:4 or 1:2.5/1:10)
Feed	Work feed	1000-5000 mm/min
	Rapid feed	10000 mm/min
Feedback control of moving axis		Standard Semi-closure circle (optional Full-closure circle)
CNC control system		Standard FANUC 0I-MC

This series Boring and Milling Machine can be equipped with **ATC** (automatic tool changer) to compose the **Gantry Machining Center**.

Order No.	Table length (mm)	Travel length (mm)
904-4061	3500	3800
904-4062	4000	4300
904-4063	4500	4800
904-4064	5000	5300
904-4065	5500	5800
904-4066	6000	6300
904-4067	6500	6800
904-4068	7000	7300
904-4069	7500	7800
904-4070	8000	8500
904-4071	8500	9000
904-4072	9000	9500
904-4073	9500	10000
904-4074	10000	10500
904-4075	10500	11000
904-4076	11000	11500
904-4077	11500	12000
904-4078	12000	12500
904-4079	12500	13000
904-4080	13000	13500
904-4081	13500	14000
904-4082	14000	14500
904-4083	14500	15000
904-4084	15000	15500
904-4085	15500	16000
904-4086	16000	16500

Choice of 24T, 32T, 40T or 60T tool magazine.



CNC Gantry Boring and Milling Machine *with Fixed-beam & Moving-table*

- Gantry structure with fixed-beam and movable table. The fixed-beam is equipped with vertical ram-type boring and milling head. The table moves along bed guideway in longitudinal direction.
- Constant-current hydro-static pressure rectangular guideway for X axis for heavy duty cutting, rolling-sliding compounded long-span rectangular ladder type guideway for Y axis, 500*500 square ram for Z axis.
- AC-servo motor driving ball screw or double gear & rack transmission for X axis, Ac-servo motor driving ball screw transmission for Y and Z axis. Three axis position measurement adopts encoder to realize semi-closed loop control.
- AC servo motor is connected to the spindle unit via automatic two speed gear-box, so the spindle can realize low speed & big torque heavy-duty cutting and high speed & constant power precision cutting. and it supported by high precision special bearings.
- With automatic lubrication system and chip & coolant liquid collection function.
- ATC and the 4th axis are optional.

Order No.		904-4091 to 904-4114	904-4115 to 905-4138
Table size	Width	2500 mm	3000 mm
	Length	4500-16000 mm	4500-16000 mm
Machining travel	Width	3000 mm	3500 mm
	Length	4800-16500 mm	4800-16500 mm
	Height	1250 mm	1250 mm
Gantry width		3200 mm	3700 mm
Distance from spindle nose to table surface		1450 mm	1450 mm
Max loading		10 T/M	10 T/M
Spindle	Power	vertical spindle standard FANUC 30/37 KW	
		horizontal spindle standard 15KW	
	Speed	std. 10-3000 rpm (opt. 20-2000 or 10-6000)	
	Torque	std. FANUC 1245 N.M (opt. 560-4151 N.M.)	
	Taper	standard BT50 (optional BT60)	
Speed ratio	std. 1:1/1:5 (opt. 1:1/1:4 or 1:2.5/1:10)		
Feed	Work feed	1000-5000 mm/min	
	Rapid feed	10000 mm/min	
Feedback control of moving axis		Standard Semi-closure circle (optional Full-closure circle)	
CNC control system		Standard FANUC 0I-MC	

Order No.	Order No.	Table length (mm)	Travel length (mm)
904-4091	904-4115	4500	4800
904-4092	904-4116	5000	5300
904-4093	904-4117	5500	5800
904-4094	904-4118	6000	6300
904-4095	904-4119	6500	6800
904-4096	904-4120	7000	7300
904-4097	904-4121	7500	7800
904-4098	904-4122	8000	8500
904-4099	904-4123	8500	9000
904-4100	904-4124	9000	9500
904-4101	904-4125	9500	10000
904-4102	904-4126	10000	10500
904-4103	904-4127	10500	11000
904-4104	904-4128	11000	11500
904-4105	904-4129	11500	12000
904-4106	904-4130	12000	12500
904-4107	904-4131	12500	13000
904-4108	904-4132	13000	13500
904-4109	904-4133	13500	14000
904-4110	904-4134	14000	14500
904-4111	904-4135	14500	15000
904-4112	904-4136	15000	15500
904-4113	904-4137	15500	16000
904-4114	904-4138	16000	16500



This series Boring and Milling Machine can be equipped with **ATC** (automatic tool changer) to compose the **Gantry Machining Center**.

Choice of 24T, 32T, 40T or 60T tool magazine.

Economical CNC Gantry Boring and Milling Machine

with Fixed-beam & Moving-table



- Gantry structure with fixed-beam and movable table. The fixed-beam is equipped with vertical ram-type boring and milling head. The table moves along bed guideway in longitudinal direction.
- Constant-current hydro-static pressure rectangular guideway for X axis for heavy duty cutting, rolling-sliding compound-ed long-span rectangular ladder type guideway for Y axis, 500*500 square ram for Z axis.
- AC-servo motor driving ball screw or double gear & rack transmission for X axis, Ac-servo motor driving ball screw transmission for Y and Z axis. Three axis position measurement adopts encoder to realize semi-closed loop control.

Order No.		904-4141 to 904-4148	904-4149 to 904-4176	904-4177 to 904-4202
Table size	Width	1250 mm	1600 mm	2000 mm
	Length	2500-6000 mm	2500-16000 mm	3500-16000 mm
Machining travel	Width	1400 mm	2000 mm	2400 mm
	Length	2800-6300 mm	2800-16500 mm	3800-16500 mm
	Height	1000 mm	1200 mm	1200 mm
Gantry width		1600 mm	2200 mm	2600 mm
Distance from spindle nose to table surface		1200 mm	1400 mm	1400 mm
Max loading		Std. 2T/M (opt. 5T/M)	Std. 3T/M (opt. 8T/M)	8 T/M
Spindle	Power	vertical spindle standard 22KW optional 30KW horizontal spindle standard 15KW optional 22KW		
	Speed	std. 72,110,165,248,338,508 rpm (opt. 148,220,335,498,685,1016)		
	Torque	std. 2100 N.M (22KW) 2900 N.M. (30KW)		
	Taper	standard NT50 (optional BT50)		
Feed	Work feed	1000-5000 mm/min		
	Rapid feed	10000 mm/min		
Feedback control of moving axis		Semi-closure circle		
CNC control system		HD500 (2500-6000mm); FANUC18I-MB (8000-16000)		

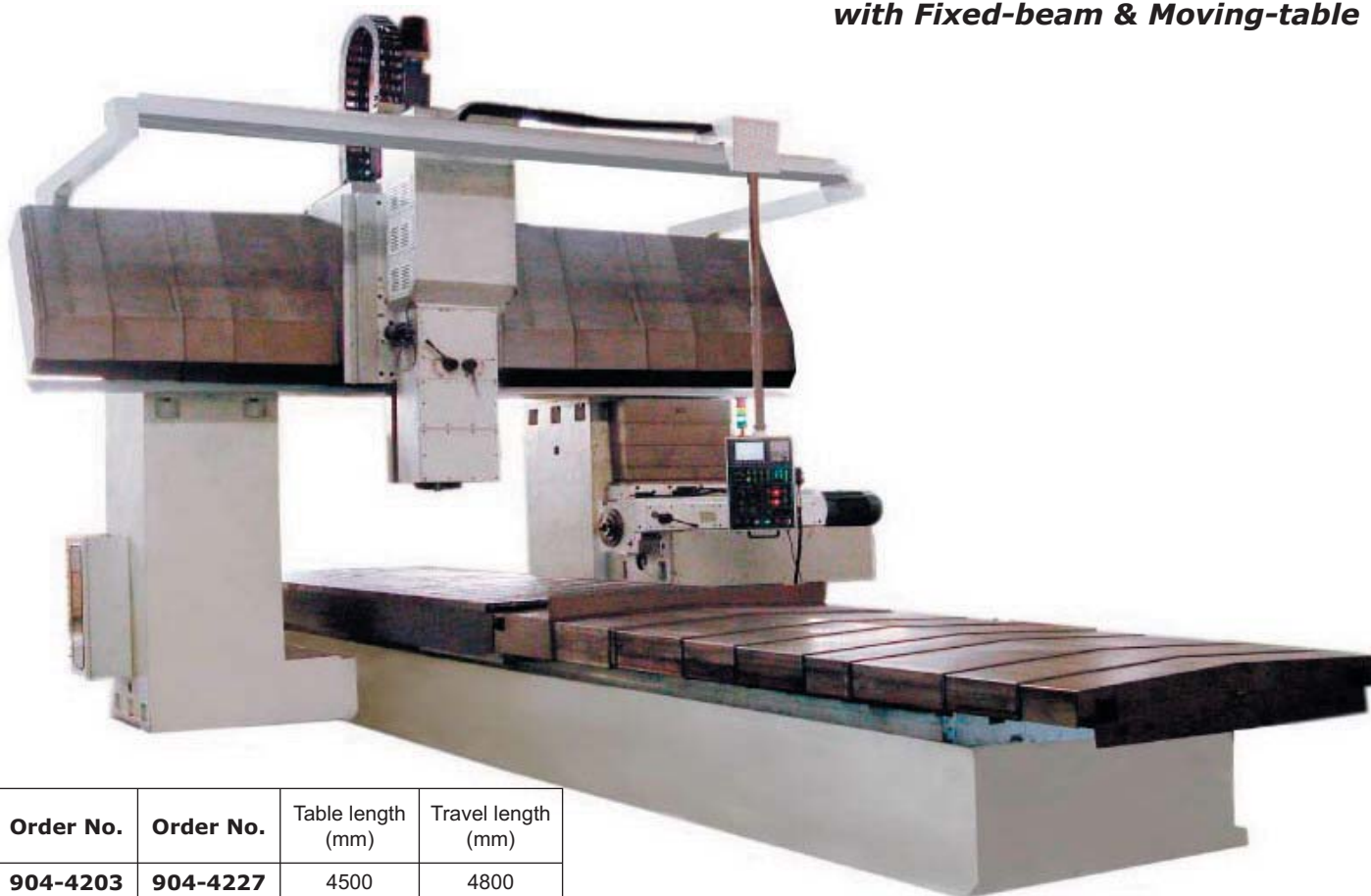
- AC motor speed is changed by manual gear-box with six steps, so the spindle can realize low speed & big torque heavy-duty cutting. and it supported by high precision special bearings.
- With automatic lubrication system.
- Optional Chip & coolant liquid collection
- The 4th axis is optional.

Order No.	Order No.	Table length (mm)	Travel length (mm)
904-4157	904-4183	6500	6800
904-4158	904-4184	7000	7300
904-4159	904-4185	7500	7800
904-4160	904-4186	8000	8500
904-4161	904-4187	8500	9000
904-4162	904-4188	9000	9500
904-4163	904-4189	9500	10000
904-4164	904-4190	10000	10500
904-4165	904-4191	10500	11000
904-4166	904-4192	11000	11500
904-4167	904-4193	11500	12000
904-4168	904-4194	12000	12500
904-4169	904-4195	12500	13000
904-4170	904-4196	13000	13500
904-4171	904-4197	13500	14000
904-4172	904-4198	14000	14500
904-4173	904-4199	14500	15000
904-4174	904-4200	15000	15500
904-4175	904-4201	15500	16000
904-4176	904-4202	16000	16500

Order No.	Order No.	Order No.	Table length (mm)	Travel length (mm)
904-4141	904-4149	/	2500	2800
904-4142	904-4150	/	3000	3300
904-4143	904-4151	904-4177	3500	3800
904-4144	904-4152	904-4178	4000	4300
904-4145	904-4153	904-4179	4500	4800
904-4146	904-4154	904-4180	5000	5300
904-4147	904-4155	904-4181	5500	5800
904-4148	904-4156	904-4182	6000	6300

Economical CNC Gantry Boring and Milling Machine

with Fixed-beam & Moving-table



Order No.	Order No.	Table length (mm)	Travel length (mm)
904-4203	904-4227	4500	4800
904-4204	904-4228	5000	5300
904-4205	904-4229	5500	5800
904-4206	904-4230	6000	6300
904-4207	904-4231	6500	6800
904-4208	904-4232	7000	7300
904-4209	904-4233	7500	7800
904-4210	904-4234	8000	8500
904-4211	904-4235	8500	9000
904-4212	904-4236	9000	9500
904-4213	904-4237	9500	10000
904-4214	904-4238	10000	10500
904-4215	904-4239	10500	11000
904-4216	904-4240	11000	11500
904-4217	904-4241	11500	12000
904-4218	904-4242	12000	12500
904-4219	904-4243	12500	13000
904-4220	904-4244	13000	13500
904-4221	904-4245	13500	14000
904-4222	904-4246	14000	14500
904-4223	904-4247	14500	15000
904-4224	904-4248	15000	15500
904-4225	904-4249	15500	16000
904-4226	904-4250	16000	16500

Order No.		904-4203 to 904-4226	904-4227 to 904-4250
Table size	Width	2500 mm	3000 mm
	Length	4500-16000 mm	4500-16000 mm
Machining travel	Width	3000 mm	3500 mm
	Length	4800-16500 mm	4800-16500 mm
	Height	1200 mm	1250 mm
Gantry width		3200 mm	3700 mm
Distance from spindle nose to table surface		1400 mm	1450 mm
Max loading		10 T/M	10 T/M
Spindle	Power	vertical spindle standard 22KW optional 30KW horizontal spindle standard 15KW optional 22	
	Speed	std. 72,110,165,248,338,508 rpm (opt. 148,220,335,498,685,1016)	
	Torque	std. 2100 N.M (22KW) 2900 N.M. (30KW)	
	Taper	standard NT50 (optional BT50)	
Feed	Work feed	1000-5000 mm/min	
	Rapid feed	10000 mm/min	
Feedback control of moving axis		Semi-closure circle	
CNC control system		HD500 (2500-6000mm); FANUC (8000-16000)	

CNC Gantry Boring and Milling Machine with fixed-beam & moving-column



- **Frame structure:** The working table is fixed on the foundation and the gantry frame moving. A vertical ram boring and milling head which can move along the beam in both cross (Y axis) and vertical Z axis) direction is equipped on the beam, the gantry frame moves along the bed guideway in longitudinal (X axis) direction.
- **Guideway model:** Constant-current hydro-static pressure rectangular guideway for X axis, rolling-sliding compounded long-span rectangular ladder type guideway for Y axis, 500*500mm square ram for Z axis. The whole frame use high rigidity top quality casting iron structure with a 1250*1400mm beam and 1400*1400mm column suitable for heavy duty working.
- **Feed drive:** X axis adopts 4 sets AC servo motors to drive respectively 2 sets gear & rack driving mechanisms which located on both sides of the bed. Y axis adopts 2 sets AC servo motors to drive respectively 2 sets gear & rack driving mechanisms which located on transverse slide board. Automatic electronic transmission-clearance eliminating control and the advanced synchro driving technology assure X, Y axis transmission get a high rigidity and steady moving precision. Z axis adopts AC servo motor directly connected with precise planet reduce gearbox and then drive ballscrew transmission. Hydraulic cylinder balancing apparatus realizes a high stability and precision. Y, Z axes are equipped with high pressure hydraulic cylinder automatic-clamping device to increase the cutting rigidity of gantry frame.
- **Spindle transmission:** AC servo spindle motor with automatic two speed gear-box to realize low speed & big torque for heavy-duty cutting and high speed & constant power for precise cutting. The spindle is supported by high precision special bearings with the functions of automatically shift changing, automatically tools changing, rigid tapping and automatically cleaning.
- The milling head can install and unload the attaching-milling-heads in magazine under the CNC system control; automatically fast and loose the attaching-milling-head and rotate 4*90°; automatically recognize the type of the attaching-milling-heads and change output power limitation; protect the attaching-milling-heads from dropping.
- Automatically lubricating, chip and cutting fluid collecting.
- Various kinds of attaching-milling-heads are available for option.
- ATC and the 4th axis rotating table are optional.

Order No.		904-4251 to 904-4272	904-4273 to 904-4294	904-4295 to 904-4316	904-4317 to 904-4338	904-4339 to 904-4360
Table size	Width	3000 mm	3500 mm	4000 mm	4500 mm	5000 mm
	Length	8000-50000 mm	8000-50000 mm	8000-50000 mm	8000-50000 mm	8000-50000 mm
Machining travel	Width	5000 mm	5500 mm	6000 mm	6500 mm	7000 mm
	Length	8500-55000 mm	8500-55000 mm	8500-55000 mm	8500-55000 mm	8500-55000 mm
	Height	1250 mm	1250 mm	1250 mm	1250 mm	1250 mm
Gantry width		4300 mm	4800 mm	5300 mm	5800 mm	6300 mm
Distance from spindle nose to table surface		200-1450 mm	200-1450 mm	200-1450 mm	200-1450 mm	200-1450 mm
Max loading		20 T/M2	20 T/M2	25 T/M2	25 T/M2	25 T/M2
Spindle	Power	vertical spindle standard FANUC 30/37 KW (optional 22/26, 37/45 KW)				
	Speed	standard 10-3000 rpm (optional 20-1500 or 10-6000)				
	Torque	standard 1245 N.M (optional 560-4151 N.M.)				
	Taper	standard BT50 (optional BT60)				
	Speed ratio	standard 1:1/1:5 (optional 1:1/1:4 or 1:2.5/1:10)				
Feed	Work feed	1000-5000 mm/min				
	Rapid feed	10000 mm/min				
CNC control system		Standard FANUC 18i-MB (optional SIMENS 804D)				

CNC Gantry Boring and Milling Machine
with fixed-beam & moving-column



Table Length (mm)	Travel Length (mm)	Order No.	Order No.	Order No.	Order No.	Order No.
8000	8500	904-4251	904-4273	904-4295	904-4317	904-4339
10000	10500	904-4252	904-4274	904-4296	904-4318	904-4340
12000	12500	904-4253	904-4275	904-4297	904-4319	904-4341
14000	14500	904-4254	904-4276	904-4298	904-4320	904-4342
16000	16500	904-4255	904-4277	904-4299	904-4321	904-4343
18000	18500	904-4256	904-4278	904-4300	904-4322	904-4344
20000	20500	904-4257	904-4279	904-4301	904-4323	904-4345
22000	22500	904-4258	904-4280	904-4302	904-4324	904-4346
24000	24500	904-4259	904-4281	904-4303	904-4325	904-4347
26000	26500	904-4260	904-4282	904-4304	904-4326	904-4348
28000	28500	904-4261	904-4283	904-4305	904-4327	904-4349
30000	30500	904-4262	904-4284	904-4306	904-4328	904-4350
32000	32500	904-4263	904-4285	904-4307	904-4329	904-4351
34000	34500	904-4264	904-4286	904-4308	904-4330	904-4352
36000	36500	904-4265	904-4287	904-4309	904-4331	904-4353
38000	38500	904-4266	904-4288	904-4310	904-4332	904-4354
40000	40500	904-4267	904-4289	904-4311	904-4333	904-4355
42000	42500	904-4268	904-4290	904-4312	904-4334	904-4356
44000	44500	904-4269	904-4291	904-4313	904-4335	904-4357
46000	46500	904-4270	904-4292	904-4314	904-4336	904-4358
48000	48500	904-4271	904-4293	904-4315	904-4337	904-4359
50000	50500	904-4272	904-4294	904-4316	904-4338	904-4360

CNC Gantry Boring and Milling Machine *with moving-beam & Column*



Main Features

- **Frame structure:** The working table is fixed on the foundation and the gantry frame moving. A vertical ram boring and milling head which can move along the beam in both cross (Y axis) and vertical Z axis) direction is equipped on the beam. The moving beam moves along the right/left column in vertical (W axis) direction, the gantry frame moves along the bed guideway in longitudinal (X axis) direction.

- **Guideway model:** Constant-current hydro-static pressure rectangular guideway for X axis, rolling-sliding compounded long-span rectangular ladder type guideway for Y axis, 500*500mm square ram for Z axis. The whole frame use high rigidity top quality casting iron structure with a 1250*1400mm beam and 1400*1400mm column suitable for heavy duty working.

- **Feed drive:** X axis adopts 4 sets AC servo motors to drive respectively 2 sets gear & rack driving mechanisms which located on both sides of the bed. Y axis adopts 2 sets AC servo motors to drive respectively 2 sets gear & rack driving mechanisms which located on transverse slide board. Automatic electronic transmission-clearance eliminating control and the advanced synchro driving technology assure X, Y axis transmission get a high rigidity and steady moving precision. Z axis adopts AC servo motor directly connected with precise planet reduce gearbox and then drive ballscrew transmission, hydraulic cylinder balancing apparatus realizes a high stability and precision. W axis moving is realized by setting ball-screw transmission on right and left column respectively, both adopt AC servo motor directly connected with precise planet reduce gearbox and then drive ball-screw transmission.

Y, Z, W axes are equipped with high pressure hydraulic cylinder automatic-clamping device to increase the cutting rigidity of gantry frame.

- **Spindle transmission:** AC servo spindle motor with automatic two speed gear-box to realize low speed & big torque for heavy-duty cutting and high speed & constant power for precise cutting. The spindle is supported by high precision special bearings with the functions of automatically shift changing, automatically tools changing, rigid tapping and automatically cleaning.

- The milling head can install and unload the attaching-milling-heads in magazine under the CNC system control; automatically fast and loose the attaching-milling-head and rotate 4*90°; automatically recognize the type of the attaching-milling-heads and change output power limitation; protect the attaching-milling-heads from dropping.

- Automatically lubricating, chip and cutting fluid collecting.

- Various kinds of attaching-milling-heads are available for option.

- ATC and the 4th axis rotating table for working table are optional.

Paremeters

Order No.		904-4361 to 904-4382	904-4383 to 904-4404	904-4405 to 904-4426	904-4427 to 904-4448	904-4449 to 904-4470
Table size	Width	3000 mm	3500 mm	4000 mm	4500 mm	5000 mm
	Length	8000-50000 mm	8000-50000 mm	8000-50000 mm	8000-50000 mm	8000-50000 mm
Machining travel	X axis	5300 mm	5500 mm	6000 mm	6500 mm	7000 mm
	Y axis	8500-55000 mm	8500-55000 mm	8500-55000 mm	8500-55000 mm	8500-55000 mm
	Z axis	Ram travel 1250 mm (optional 1500mm)				
	W axis	1720mm	2220mm	2720mm	3220mm	3720mm
Gantry width		4300 mm	4800 mm	5300 mm	5800 mm	6300 mm
Distance from spindle nose to table surface		200-3000 mm	200-3500 mm	200-4000 mm	200-4500 mm	200-5000 mm
Max loading		20 T/M2	20 T/M2	25 T/M2	25 T/M2	25 T/M2
Spindle	Power	standard 40/66 KW (optional 60/84 KW)				
	Speed	10-1500 rpm				
	Torque	standard 3050/5032 N.M (optional 4580/6410 N.M.)				
	Taper	standard ISO50 (optional ISO60)				
	Speed ratio	1:2.5/1:10				
Feed	Work feed	1000-5000 mm/min				
	Rapid feed	10000 mm/min				
CNC control system		SIMENS 840D				

Order No

Table Length (mm)	Travel Length (mm)	Order No.	Order No.	Order No.	Order No.	Order No.
8000	8500	904-4361	904-4383	904-4405	904-4427	904-4449
10000	10500	904-4362	904-4384	904-4406	904-4428	904-4450
12000	12500	904-4363	904-4385	904-4407	904-4429	904-4451
14000	14500	904-4364	904-4386	904-4408	904-4430	904-4452
16000	16500	904-4365	904-4387	904-4409	904-4431	904-4453
18000	18500	904-4366	904-4388	904-4410	904-4432	904-4454
20000	20500	904-4367	904-4389	904-4411	904-4433	904-4455
22000	22500	904-4368	904-4390	904-4412	904-4434	904-4456
24000	24500	904-4369	904-4391	904-4413	904-4435	904-4457
26000	26500	904-4370	904-4392	904-4414	904-4436	904-4458
28000	28500	904-4371	904-4393	904-4415	904-4437	904-4459
30000	30500	904-4372	904-4394	904-4416	904-4438	904-4460
32000	32500	904-4373	904-4395	904-4417	904-4439	904-4461
34000	34500	904-4374	904-4396	904-4418	904-4440	904-4462
36000	36500	904-4375	904-4397	904-4419	904-4441	904-4463
38000	38500	904-4376	904-4398	904-4420	904-4442	904-4464
40000	40500	904-4377	904-4399	904-4421	904-4443	904-4465
42000	42500	904-4378	904-4400	904-4422	904-4444	904-4466
44000	44500	904-4379	904-4401	904-4423	904-4445	904-4467
46000	46500	904-4380	904-4402	904-4424	904-4446	904-4468
48000	48500	904-4381	904-4403	904-4425	904-4447	904-4469
50000	50500	904-4382	904-4404	904-4426	904-4448	904-4470

Gantry Grinding Machine



- Constant-current hydro-static pressure rectangular guideway for X axis for heavy duty cutting, rolling-sliding compounded long-span rectangular ladder type guideway for Y axis, 500*500 square ram for Z axis.
- AC-servo motor driving ball screw or double gear & rack transmission for X axis, Ac-servo motor driving ball screw transmission for Y and Z axis. Three axis position measurement adopts encoder to realize semi-closed loop control.

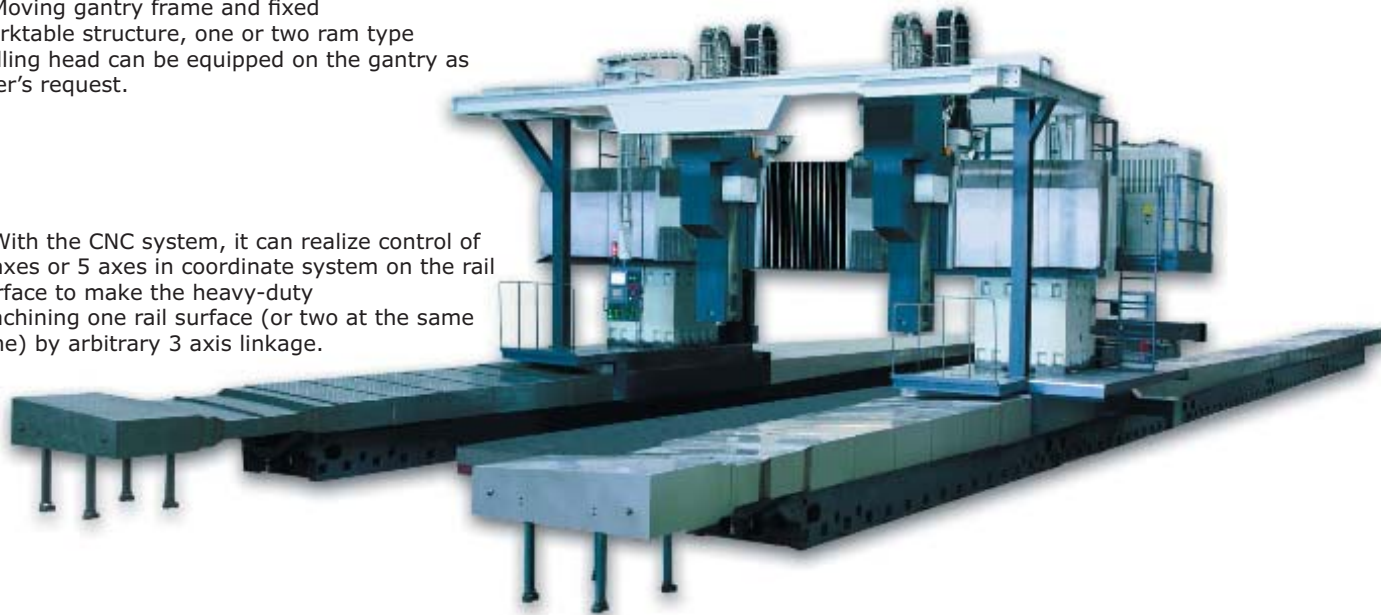
PLC Surface grinder	904-4501 to 904-4506	904-4507 to 904-4518	904-4519 to 904-4544	904-4545 to 904-4568
PLC Guideway grinder	904-4569 to 904-4574	904-4575 to 904-4586	904-4587 to 904-4612	904-4613 to 904-4636
CNC Surface grinder	904-4637 to 904-4642	904-4643 to 904-4654	904-4655 to 904-4680	904-4681 to 904-4704
CNC Guideway grinder	904-4705 to 904-4710	904-4711 to 904-4722	904-4723 to 904-4748	904-4749 to 904-4772
Main sizes				
Table width	1250mm	1600	2000	2500
Table length	2000-8000mm	2500-8000	3500-16000	4500-16000
Machining width	1400mm	2000	2400	3000
Machining length	the same as the Table Length			
Machining height	800mm	1000	1200	1200
Gantry width	1600mm	2200	2600	3200
Horizontal spindle				
Motor	22Kw	22Kw	22Kw	22Kw
Spindle speed	1300rpm	1300rpm	1300rpm	1300rpm
Min. feed	0.005mm	0.005mm	0.005mm	0.005mm
Wheel size	Φ500×100×Φ203mm	Φ500×100×Φ203mm	Φ500×100×Φ203mm	Φ500×100×Φ203mm
Vertical spindle (FOR THE GUIDEWAY GRINDING MACHINE ONLY)				
Motor	11Kw	11Kw	11Kw	11Kw
Spindle speed	1450/2970rpm	1450/2970rpm	1450/2970rpm	1450/2970rpm
Min. feed	0.005mm	0.005mm	0.005mm	0.005mm
Wheel size	Φ400×50×Φ127mm	Φ400×50×Φ127mm	Φ400×50×Φ127mm	Φ400×50×Φ127mm
Swivel of grinding head	±110°	±110°	±110°	±110°

CNC Column-moving Gantry Railway Milling Machine

This machine is a heavy duty gantry machine specially designed and made to meet the need of railway machining for railway manufacturing industry. It is mainly used for machining high-carbon steel rails, such as heavy cutting or precision processing.

- Moving gantry frame and fixed worktable structure, one or two ram type milling head can be equipped on the gantry as user's request.

- With the CNC system, it can realize control of 3 axes or 5 axes in coordinate system on the rail surface to make the heavy-duty machining one rail surface (or two at the same time) by arbitrary 3 axis linkage.



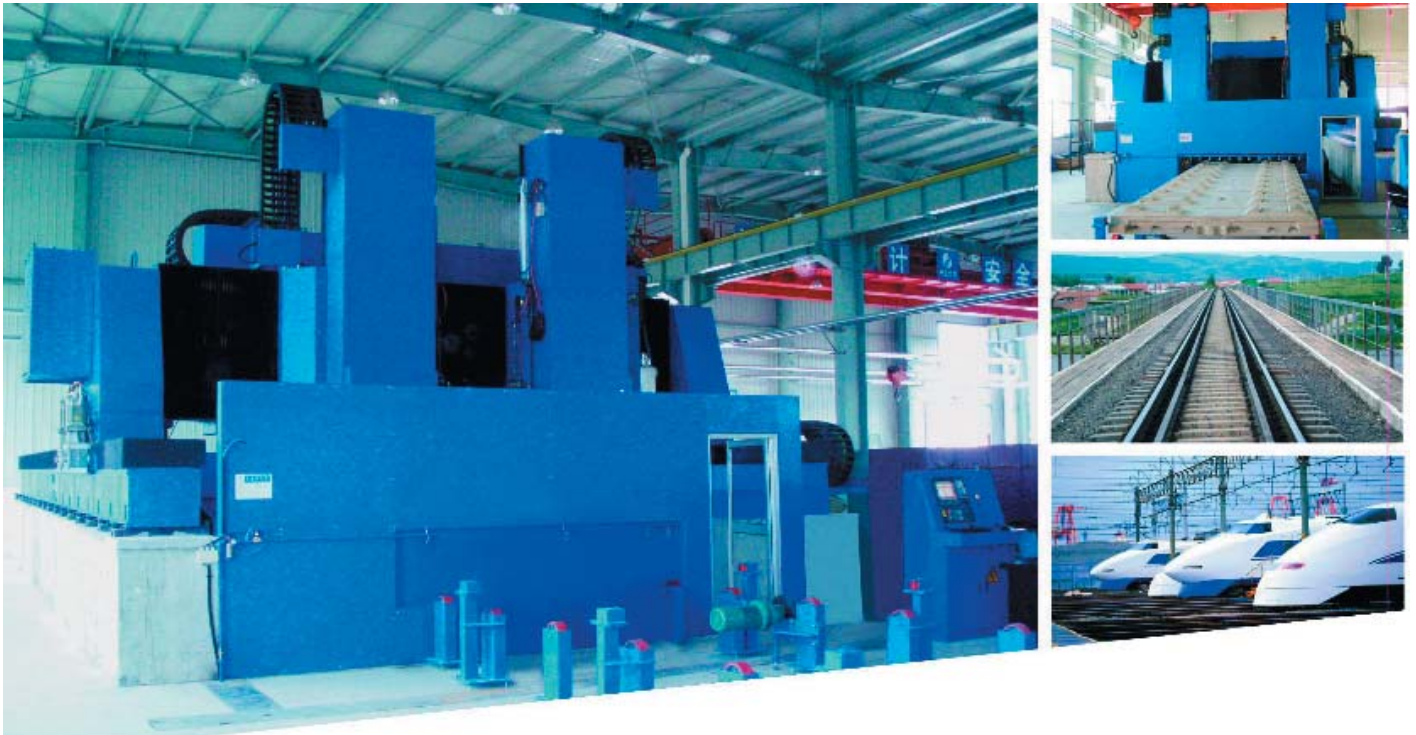
- Rack and pinion for X axis transmission, on each bed there are two servo motors to realize auto elimination and synchronous drive. Ball screw for Y and Z axis. The spindle adopts 2 shifts gear box for speed changing.
- The whole layout of the machine can meet the clamping requirements for long workpiece & low height and the hard situation for machining high hardness steel rails. It can also assure the machining request of few cutting times, deep feed and high efficiency.
- Low gravity center; all the basic components use high quality resin-sand modeling casting iron, which can enhance the anti-curvedness capacity, anti-torsion rigidity and anti-vibration performance of the machine to meet the request of the settle rails machining.
- Constant current hydrostatic guideway for worktable guideway (X axis); the cross moving of spindle (Y axis) is realized by a combination of sliding and roller guideway; the spindle ram (Z axis) is 500×500 square structure.

Specifications

Order No.	904-4781	904-4782	904-4783	905-4784	904-4785	904-4786
Worktable width (mm)	1400	1400	2000	2000	2000	2000
Worktable length (mm)	12000	14000	14000	25000	40000	52000
Worktable loading capacity (t/m)	6	6	8	8	8	8
Distance between columns (mm)	2600	2600	3200	3200	3200	3200
Spindle nose to table surface (mm)	750	750	750	750	750	750
Worktable travel (mm)	12500	14500	14500	25500	40500	47000
Spindle cross travel (mm)	3100	3100	±535/±2100	±535/±2100	±535/±2100	±535/±2100
Spindle vertical travel (mm)	600	600	600	600	600	600
Spindle quantity (set)	1	1	2	2	2	2
Gantry quantity (set)	1	1	1	1	1	2
Spindle power (Kw)	60	60	60×2	60×2	60×2	60×2
Spindle speed (rpm)	5-1000	5-1000	5-1000	5-1000	5-1000	5-1000
Spindle torque (Nm)	4580	4580	4580	4580	4580	4580
Spindle taper (BT)	BT60	BT60	BT60	BT60	BT60	BT60
Spindle ram section (mm)	500×500	500×500	500×500	500×500	500×500	500×500
Worktable speed (mm/min)	0-10000	0-10000	0-10000	0-10000	0-10000	0-10000
Spindle cross speed (mm/min)	0-10000	0-10000	0-10000	0-10000	0-10000	0-10000
Spindle vertical speed (mm/min)	0-6000	0-6000	0-6000	0-6000	0-6000	0-6000
Control system	SIEMENS 840D or FANUC 18I-MB					

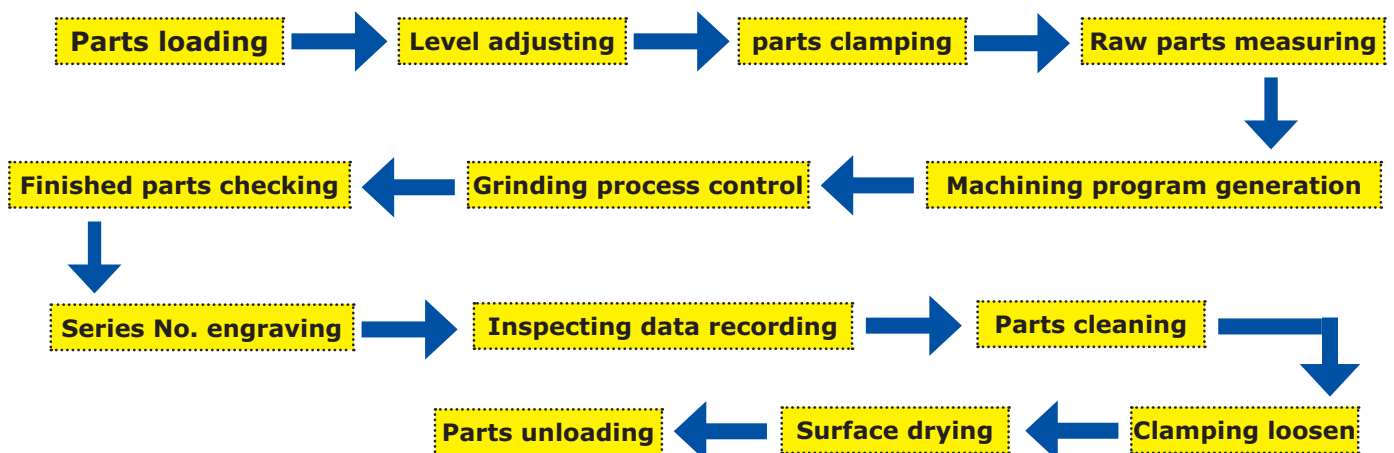
Special Purpose CNC Grinding Machine for slabs of the railway table board

This special purpose CNC Grinding Machine is designed for the development of the high speed railway, used to machine the slagless slabs of the high speed railway board.



Summary

It can realize automatically control the slabs process by this machine. The whole slab process is finished automatically without any manual intervention:

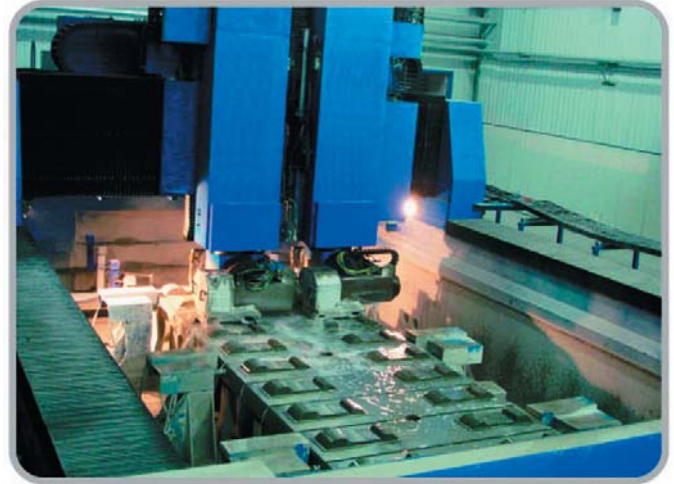


It can be used to cooperate with the conveyor line of the Slabs factory and realize automatically manufacturing.

Structure

Servo Movement structure

- Bridge type gantry moving structure. The cross beam move along the guideway of the left and right bed (X axis); two large power grinding heads which can move independently are set on the cross beam.
- Left grinding head cross moving (Y1 axis), right grinding head cross moving (Y2 axis), left grinding head vertical moving (Z1 axis), right grinding head vertical moving (Z2 axis), left grinding head rotating around Z1 axis (C1 axis), right grinding head rotating around Z2 axis (C2 axis), left grinding head rotating around X axis (A1), right grinding head rotating around X axis (A2 axis),.
- X, Y1, Y2, Z1, Z2, C1, C2, A1, A2 axes adopt AC servo motors drive, arbitrary four axes can be linkage and controlled by CNC system.



▲ The machine is in auto. running

Spindle movement

- **Engrave Spindle:** The engrave spindle unit is located on the side of the right grinding head vertical slide ram. It is built-in electro spindle units which can automatic flex, drive and controlled by inverter.

► The engrave spindle is in working



◀ The grinding heads are in working

- **Left and right grinding head spindle:** Built-in water cooling spindle unit for left and right grinding head, which is driven and controlled by Siemens servo unit.

Measuring system

- Automatically telescopic measuring system is assembled on the vertical slide ram of each grinding head. It can measure the machining parts rapidly by the laser scanning device.

► **Auto. measuring system in working**



Auto. Clamping and aligning

- It is equipped inside of the gantry frame and composed by the following: slabs loading roller system, hydraulic automatic slabs leveling servo system and hydraulic slabs automatic clamping & loosening system.

► **Auto. clamping and aligning device**



Main Specification

Order No. 904-4790

Machining range (L×W×H): 6500×2550×1200mm

X axis travel: 8700mm

L / R grinding head cross travel (from the center line of the machine): ±1800mm

Z1 / Z2 axis travel: 1200mm

Distance between gantries: 6300mm

A1 / A2 rotating range: -3° ~ 93°

C1 / C2 rotating range: -3° ~ 183°

Grinding wheel size (O.D.×I.D.×W): 525×305×200mm

Grinding wheel speed: 500-3000rpm

Grinding wheel motor power (continuous/intermittent): 103 / 124Kw

Grinding wheel motor torque (continuous/intermittent): 820 / 1110Nm

X / Y1 / Y2 axis moving speed: 0-20m/min

Z1 / Z2 axis moving speed: 0-6m/min

Coolant flow rate: 750L/min

Linear positioning accuracy: 0.020/1000; ≤0.07mm for the full length

X / Z1 / Z2 axis motor: 8.17Kw / 48Nm

Y1 / Y2 / C1 / C2 / A1 / A2 axis motor: 3.3Kw / 16Nm

Engrave spindle motor power: 5Kw

Engrave spindle speed: Max. 9000rpm

Total power: about 350Kw

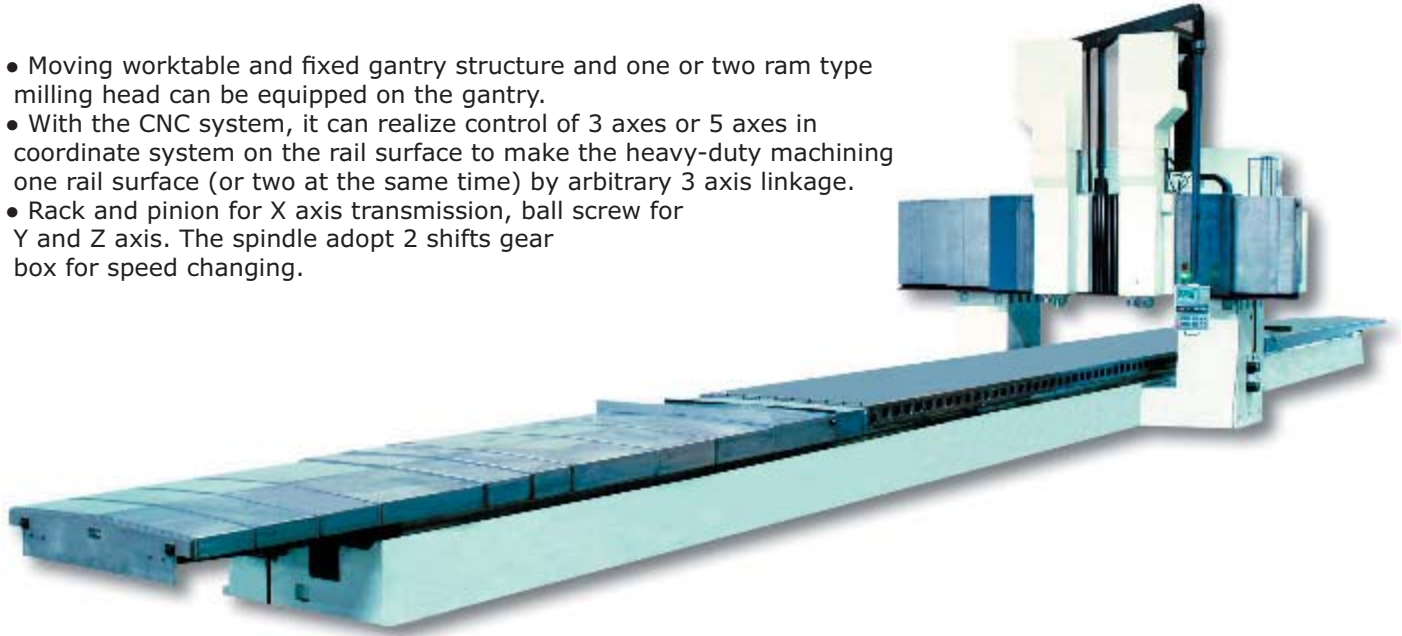
Machine weight: 70Ton

Machining efficiency: under normal condition, the machining allowance of slab is within 2mm, the machine can finish 80-100pcs per 20 working hours.

CNC Fixed-beam Gantry Railway Milling Machine

This machine is a heavy duty gantry machine specially designed and made to meet the need of railway machining for railway manufacturing industry. It is mainly used for machining high-carbon steel rails, such as heavy cutting or precision processing.

- Moving worktable and fixed gantry structure and one or two ram type milling head can be equipped on the gantry.
- With the CNC system, it can realize control of 3 axes or 5 axes in coordinate system on the rail surface to make the heavy-duty machining one rail surface (or two at the same time) by arbitrary 3 axis linkage.
- Rack and pinion for X axis transmission, ball screw for Y and Z axis. The spindle adopt 2 shifts gear box for speed changing.



- The whole layout of the machine can meet the clamping requirements for long workpiece & low height and the hard situation for machining high hardness steel rails. It can also assure the machining request of few cutting times, deep feed and high efficiency.
- Low gravity center; all the basic components use high quality resin-sand modeling casting iron, which can enhance the anti-curveness capacity, anti-torsion rigidity and anti-vibration performance of the machine to meet the request of the settle rails machining.
- Constant current hydrostatic guideway for worktable guideway (X axis); the cross moving of spindle (Y axis) is realized by a combination of sliding and roller guideway; the spindle ram (Z axis) is 500×500 square structure.

Main Specification

Order No.	904-4775	904-4776	904-4777	904-4778	904-4779	904-4780
Worktable width (mm)	1250	1250	1250	1250	2000	2000
Worktable length (mm)	6000	9000	12000	14000	12000	14000
Worktable loading capacity (t/m)	4	4	4	4	6	6
Distance between columns (mm)	1750	1750	1750	1750	2600	2600
Spindle nose to table surface (mm)	750	750	750	750	750	750
Worktable travel (mm)	6500	9500	12500	14500	12500	14500
Spindle cross travel (mm)	2050	2050	2050	2050	±535/±1300	±535/±1300
Spindle vertical travel (mm)	600	600	600	600	600	600
Spindle quantity (set)	1	1	1	1	2	2
Spindle power (Kw)	60	60	60	60	60×2	60×2
Spindle speed (rpm)	5-1000	5-1000	5-1000	5-1000	5-1000	5-1000
Spindle torque (Nm)	4580	4580	4580	4580	4580	4580
Spindle taper (BT)	BT60	BT60	BT60	BT60	BT60	BT60
Spindle ram section (mm)	500×500	500×500	500×500	500×500	500×500	500×500
Worktable speed (mm/min)	0-10000	0-10000	0-10000	0-10000	0-10000	0-10000
Spindle cross speed (mm/min)	0-10000	0-10000	0-10000	0-10000	0-10000	0-10000
Spindle vertical speed (mm/min)	0-6000	0-6000	0-6000	0-6000	0-6000	0-6000
Control system	SIEMENS 840D or FANUC 18I-MB					