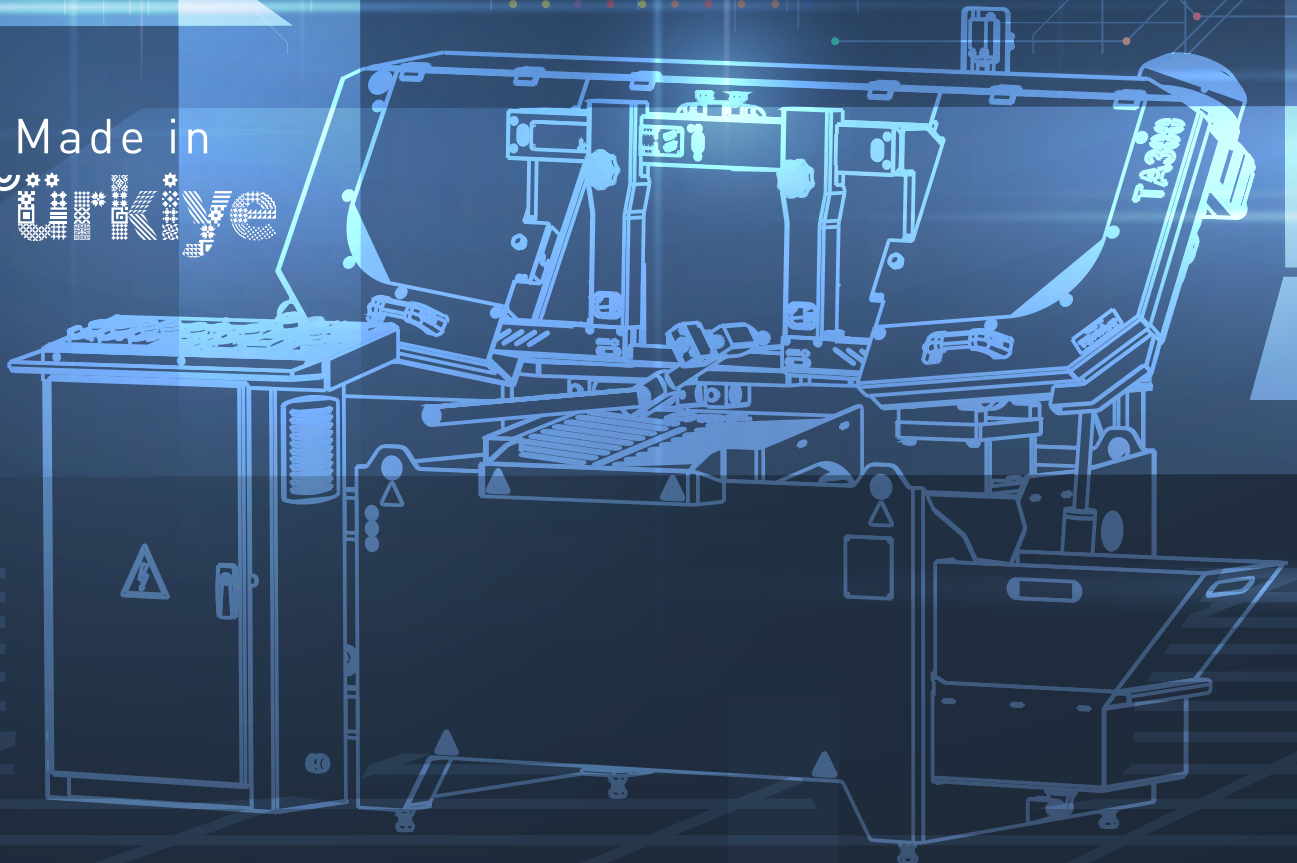


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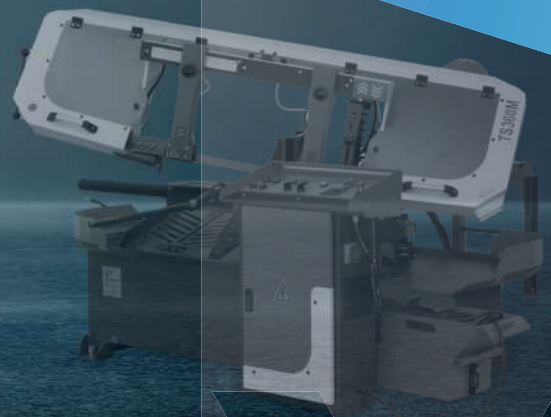
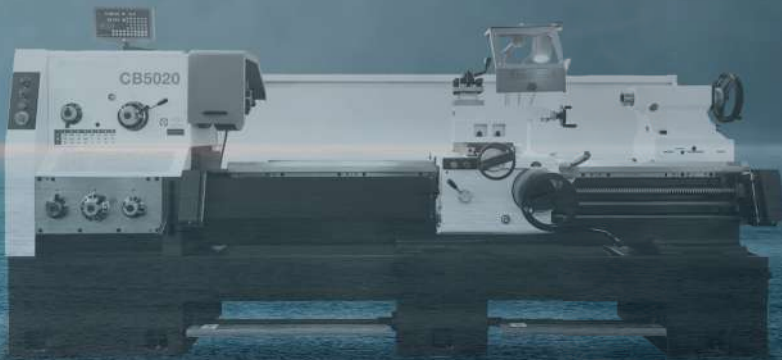
METALWORKING MACHINES

Made in
TURKEY



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UNIVERSAL PRODUCT CATALOG



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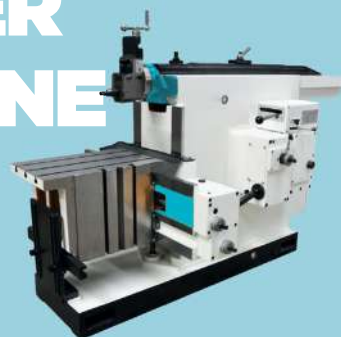
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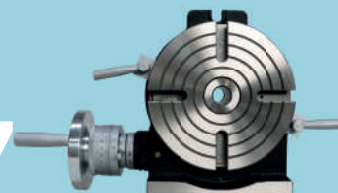
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OPTIONAL ACCESSORIES..... 76-77

MANUEL BANDSAW MACHINE

T200

Made in
Türkiye



• Angle cut up to 45° from the vice



• 32-64 m/min 2 steps, speed



• Coolant system



• Hydraulic system allowing the easy adjustment of the downward travel of the head and the feeding speed.



- Switch system that stops the saw after cutting
- 45° angle setting
- Coolant system
- Wheel system that provides mobility to the machine
- Hydraulic feeding system
- CE Standards

Standard Accessories

- Adjustable support arm
- Bi-metal saw blade mounted on the machine
- Wheel system

MODEL	T200
Main Motor Power	850 W, 380 V
Cutting Angle	0°-45°
Cutting Angle Adjustment	From Vice
Head descent speed regulation/feeding	Hydraulic
Blade Dimensions	20x0,9x2360 mm
Cutting Capacity 0°	● 200 mm; ■ 200x200 mm; ■ 120x300 mm
Cutting Capacity 45°	● 120 mm; ■ 120x120 mm; ■ 110x130 mm
Speed	32/64 m/min
Step	2
Machine Dimensions	1065x655x1160 mm
Weight	140 Kg

Optional Accessories:

Replacement saw band:

23605/8

20x0,9x2360mm- 5/8 tpi

23606/10

20x0,9x2360mm- 6/10 tpi

236010/14

20x0,9x2360mm- 10/14 tpi



MANUEL BANDSAW MACHINE

T225MV & T225MVS

380 V

230 V

- Unlimited step between 21-84 minutes with inverter speed regulation / Vario system
- Digital speed display
- LED light illuminating the cutting area
- Hydro-mechanical band tensioning and saw pressure gauge
- Angle adjustment up to 60° from the hub
- Ergonomic control panel that providing ease of use
- Special design cast pulleys
- High quality hydraulic system that adjusts the feed rate
- Domestic main engine, powerful reducer
- Domestic or Italian production cooling pump
- High quality electrical system
- Chip Brush
- CE Standards

Made in
TURKEY

Standard Accessories

- Adjustable support arm
- Bi-metal saw blade mounted on the machine



- Speed change with inverter
- Digital Speedometer



- Angle cut up to 60° from the hub



- Hydraulic system where you can easily adjust the downward movement of the head and the feeding speed



- Hydraulic-mechanical belt tensioning with which you can easily adjust the belt tension
- Monometer showing belt tension

MODEL	T225MV	T225MVS
Motor Power	1,1 kW, 380 V	1,1 kW, 230 V
Cutting Angle	0°-60°	
Cutting Angle Setting	Miter Cutting	
Head Landing Speed Feed	Hydraulic	
Blade Dimensions	27x0,9x2460 mm	
Cutting Capacity 0°	● 225mm; ■ 200x200 mm; ■ 265x100mm	
Cutting Capacity 45°	● 150mm; ■ 140x140mm; ■ 135x170mm	
Cutting Capacity 60°	● 80mm; ■ 80x80mm	
Speed	24 - 84 m/min	
Step	Inverter / Variable	
Machine Dimensions	1650x610x1092 mm	
Weight	225 Kg	

Optional Accessories:

Replacement saw band:

24605/8

27x0,9x2460mm- 5/8 tpi

24606/10

27x0,9x2460mm- 6/10 tpi

24608/12

27x0,9x2460mm- 8/12 tpi

246010/14

27x0,9x2460mm- 10/14 tpi



SEMI-AUTOMATIC BANDSAW MACHINE

TS275D

DUAL MITRE CUTTING

Angle adjustment from the hub up to 45° rear, up to 60° front/2-way swivel head angle cutting, up to 45° left and up to 60° right

Automatic clamping

Hydraulic/Automatic clamping

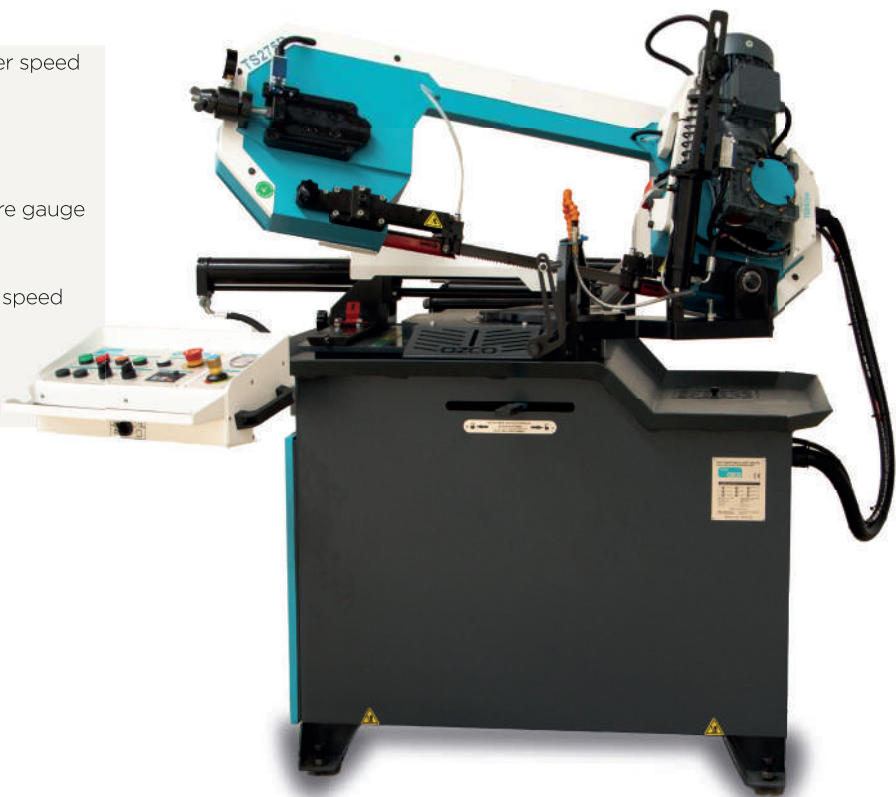
Hydraulic/Automatic head movement

Manual feeding

- Unlimited steps between 20-80 mt/min with inverter speed regulation/Vario system
- Digital speed display
- Single cutting line in the vise
- LED-Light illuminating the cutting area
- Hydro-mechanical band tensioning and saw pressure gauge
- Ergonomic control panel providing ease of use
- Special design cast pulleys
- High quality hydraulic system adjusting the feeding speed
- High quality main motor, strong reducer structure
- High quality electrical system
- Chip brush
- CE standard

Standard Accessories:

- Adjustable support arm
- Bi-metal saw blade mounted on the machine
- 3 Roll 1mt material stand



Made in
Türkiye

MODEL	TS275D
Motor Power	1,5 kW, 380 V
Swivel Head	-45°/+60°
Cutting Angle Setting	Adjustment Miter Cutting
Feed Rate Adjustment	Hydraulic
Blade Dimensions	27x0,9x3160 mm
Cutting Capacity 0°	● 275mm ■ 275x275 mm ■ 350x150mm
Cutting Capacity -45°	● 180mm ■ 160x160mm ■ 260x120mm
Cutting Capacity 60°	● 120mm ■ 120x120mm ■ 140x120mm
Speed	28-100 m/min
Step	Inverter / Variable
Material Stand Height	960 mm
Clamp Opening Range	350 mm
Clamp Height	145 mm
Hydraulic Motor Power	0,18 kW
Coolant Motor Power	0,12 kW
Machine Dimensions	1500x1750x1050 mm
Weight	588 kg

Optional Accessories:

Replacement saw band:

36103/4

27x0,9x3160mm- 3/4 tpi

31604/6

27x0,9x3160mm- 4/6 tpi

31605/8

27x0,9x3160mm- 5/8 tpi



SEMI-AUTOMATIC BANDSAW MACHINE

TS300

STRAIGHT CUTTING

- Unlimited step between 20-100 min with inverter speed regulation/Vario system
- Digital speed display
- Ergonomic control panel that providing ease of use
- Special design cast pulleys
- Hydro-mechanical band tensioning
- Domestic production powerful engine
- Domestic production special design reducer
- Clamping pressure setting suitable for material type with adjustable clamp pressure system
- Band saw system with double bearing pressure increasing cutting precision
- High quality cooling engine from Italy
- Chip Brush
- Schneider Electrical System
- CE Standards

TS300 (Semi-Automatic)

Hydraulic/Automatic material clamping

Hydraulic/Automatic head

Manuel material feeding



Standard Accessories

- 5 Roll material stand
- Bi-metal saw blade mounted on the machine

MODEL	TS300
Motor Power	1,5 kW, 380 V
Cutting Capacity	● 300mm; ■ 300x300 mm; ■ 300x350 mm
Saw Blade Dimensions	27x0,9x3660mm
Speed	20 - 100 m/min
Step	Inverter / Variable
Material feeding height	760 mm
Clamp Opening Range	0 - 375 mm
Clamp Height	190 mm
Driving Motor Power	-
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2005x1260x1275 mm
Weight	823 Kg

Made in
TURKEY

Optional Accessories:

Replacement saw band:

36603/4

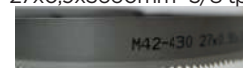
27x0,9x3660mm- 3/4 tpi

36604/6

27x0,9x3660mm- 4/6 tpi

36605/8

27x0,9x3660mm- 5/8 tpi



SEMI-AUTOMATIC BANDSAW MACHINE

TS300M

MITRE CUTTING

- Unlimited step between 20-100 min with inverter speed regulation/Vario system
- Digital speed display
- Ergonomic control panel that providing ease of use
- Special design cast pulleys
- Hydro-mechanical band tensioning
- Domestic production powerful engine
- Domestic production special design reducer
- Clamping pressure setting suitable for material type with adjustable clamp pressure system
- Band saw system with double bearing pressure increasing cutting precision
- High quality cooling engine from Italy
- Chip Brush
- Schneider Electrical System
- CE Standards

Hydraulic/Automatic material clamping
Hydraulic/Automatic head
Manuel material feeding



Standard Accessories

- 5 Roll material stand
- Bi-metal saw blade mounted on the machine

MODEL	TS300M
Main Motor Power	1,5 kW, 380 V
Swivel Head	0°-45°
Feed Rate Adjustment	Hydraulic
Saw Blade Dimensions	27x0,9x3960 mm
Cutting Capacity 0°	● 300mm; ■ 300x300 mm; ■ 240x360 mm
Cutting Capacity 30°	● 300mm; ■ 270x270 mm; ■ 270x300 mm
Cutting Capacity 45°	● 230mm; ■ 220x220 mm; ■ 200x300 mm
Speed	20 - 100 m/dak
Step	Inverter / Variable
Material Stand Height	760 mm
Vice Opening Range	0 - 415 mm
Vice Height	190 mm
Hydraulic Motor Power	0.18 kW
Coolant Motor Power	0.12 kW
Machine Dimensions	2340x1260x1430 mm
Weight	870 Kg

Made in
TURKEY

Optional Accessories:

Replacement saw band:

39603/4

27x0,9x3660mm- 3/4 tpi

39604/6

27x0,9x3660mm- 4/6 tpi

39605/8

27x0,9x3660mm- 5/8 tpi



SEMI-AUTOMATIC BANDSAW MACHINE

TS360

STRAIGHT CUTTING

- Unlimited steps in the range of 14-100 mt/min with inverter speed regulation/Vario system
- Angle adjustment from vise up to 45°
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Material support
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision.
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard

Hydraulic/Automatic material clamping
Hydraulic/Automatic head travel
Manuel material feeding



Standard Accessories

- 5 Roll material stand 1.5 mt
- Bi-metal saw blade mounted on the machine

MODEL	TS360
Main Motor Power	2,2 kW, 380 V
Cutting Capacity 0°	● 360mm ■ 360x360 mm ■ 400x300 mm
Cutting Capacity 45°	● 280mm ■ 280x280 mm ■ 280x360 mm
Saw Blade Dimensions	34x1,1x4560mm
Speed	20 - 100 m/min
Step	Inverter / Variable
Material Stand Height	760 mm
Vice Opening Range	0 - 450 mm
Vice Height	230 mm
Servo Motor	2,2 kW
Hydraulic Motor Power	0.18 kW
Coolant Motor Power	0.12 kW
Machine Dimensions	2470x1350x1300 mm
Weight	936 kg

Made in
Türkiye

Optional Accessories:

Replacement saw band:

45603/4

34x1,1x4560mm- 3/4 tpi

45604/6

34x1,1x4560mm- 4/6 tpi

45605/8

34x1,1x4560mm- 5/8 tpi



SEMI-AUTOMATIC BANDSAW MACHINE

TS360M

MITRE CUTTING

- Unlimited steps in the range of 14-100 mt/min with inverter speed regulation/Vario system
- Angle adjustment from vise up to 45°
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Material support
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision.
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard

Hydraulic/Automatic material clamping
Hydraulic/Automatic head
Manuel material feeding



Standard Accessories

- Double Roll material stand 40 cm
- 5 Roll material stand 1.5 mt
- Bi-metal saw blade mounted on the machine

MODEL	TA360M
Main Motor Power	2,2 kW, 380 V
Cutting Capacity 0°	● 360mm ■ 360x360 mm ■ 440x300 mm
Cutting Capacity 45°	● 280mm ■ 260x260 mm ■ 230x360 mm
Saw Blade Dimensions	34x1,1x4560mm
Speed	14 - 100 m/min
Step	Inverter / Variable
Material Stand Height	760 mm
Vice Opening Range	0 - 450 mm
Vice Height	230 mm
Servo Motor	0.37 kW
Hydraulic Motor Power	0.18 kW
Coolant Motor Power	0.12 kW
Machine Dimensions	2620x1460x1300 mm
Weight	970 kg

Made in
Türkiye

Optional Accessories:

Replacement saw band:

45603/4

34x1,1x4560mm- 3/4 tpi

45604/6

34x1,1x4560mm- 4/6 tpi

45605/8

34x1,1x4560mm- 5/8 tpi



SEMI-AUTOMATIC BANDSAW MACHINE

TS420M

MITRE CUTTING

- Unlimited steps in the range of 16-117 m/min with inverter speed regulation/Vario system
- Angle adjustment from head up to 60°
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Material support
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision.
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard

TS420M (Semi-Automatic)

Hydraulic/Automatic material clamping

Hydraulic/Automatic head

Manuel material feeding



Standard Accessories

- 3 Roll material stand
- 6 Roll material stand
- Bi-metal saw blade mounted on the machine



MODEL	TS420M
Motor Power	3,0 kW, 380 V
Cutting Angle	0°-60°
Vice Clamping	Hydraulic
Saw Blade Dimensions	41x1,3x5260mm
Cutting Capacity 0°	● 420 mm; ■ 420x420 mm; ■ 420x620 mm
Cutting Capacity 45°	● 420mm; ■ 400x400 mm; ■ 380x420 mm
Cutting Capacity 60°	● 270mm; ■ 240x240 mm; ■ 200x330 mm
Speed	16 - 117 m/min
Step	Inverter
Material feeding height	760 mm
Clamp Opening Range	0 - 415 mm
Clamp Height	250 mm
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2900x1800x1400 mm
Weight	1820 Kg

Made in
Türkiye

Optional Accessories:

Replacement saw band:

52603/4

41x1,3x5260mm- 3/4 tpi

52604/6

41x1,3x5260mm- 4/6 tpi

52605/8

41x1,3x5260mm- 5/8 tpi



FULL-AUTOMATIC BANDSAW MACHINE

TA300

STRAIGHT CUTTING

- Unlimited step between 20-100 min with inverter speed regulation/Vario system
- Digital speed display
- Ergonomic control panel that providing ease of use
- Special design cast pulleys
- Hydro-mechanical band tensioning
- Domestic production powerful engine
- Domestic production special design reducer
- Specially designed double bearing system, reinforced material sliding system and long-lasting roller balls
- Clamping pressure setting suitable for material type with adjustable clamp pressure system
- Band saw system with double bearing pressure increasing cutting precision
- High quality cooling engine from Italy
- Chip Brush
- Schneider Electrical System
- CE Standards

Hydraulic/Automatic material clamping
Hydraulic/Automatic head travel
Automatic material feeding



Made in
Turkey

Standard Accessories

- 5 Roll material stand
- 2 Roll material stand
- Bi-metal saw blade mounted on the machine

MODEL	TA300
Motor Power	1,5 kW, 380 V
Cutting Capacity	● 300mm; ■ 300x300 mm; ■ 250x375 mm
Saw Blade Dimensions	27x0,9x3660mm
Speed	20 - 100 m/min
Step	Inverter / Variable
Material feeding height	760 mm
Clamp Opening Range	0 - 375 mm
Clamp Height	190 mm
Driving Motor Power	0.37 kW
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2005x1260x1275 mm
Weight	820 Kg

Optional Accessories:

Replacement saw band:
36603/4
27x0,9x3660mm- 3/4 tpi

36604/6
27x0,9x3660mm- 4/6 tpi

36605/8
27x0,9x3660mm- 5/8 tpi



FULL-AUTOMATIC BANDSAW MACHINE

TA300M

MITRE CUTTING

- Unlimited step between 20-100 min with inverter speed regulation/Vario system
- Digital speed display
- Ergonomic control panel that providing ease of use
- Special design cast pulleys
- Hydro-mechanical band tensioning
- Domestic production powerful engine
- Domestic production special design reducer
- Specially designed double bearing system, reinforced material sliding system and long-lasting roller balls
- Clamping pressure setting suitable for material type with adjustable clamp pressure system
- Band saw system with double bearing pressure increasing cutting precision
- High quality cooling engine from Italy
- Chip Brush
- Schneider Electrical System
- CE Standards

Hydraulic/Automatic material clamping
Hydraulic/Automatic head travel
Automatic material feeding



Standard Accessories

- 5 Roll material stand
- 2 Roll material stand
- Bi-metal saw blade mounted on the machine



MODEL	TA300M
Motor Power	1,5 kW, 380 V
Cutting Angle	0°-45°
Vice Clamping	Hidrolik
Saw Blade Dimensions	27x0,9x3960 mm
Cutting Capacity 0°	● 300mm; ■ 300x300 mm; ■ 240x330 mm
Cutting Capacity 30°	● 270mm; ■ 240x240 mm; ■ 240x260 mm
Cutting Capacity 45°	● 200mm; ■ 180x180 mm; ■ 160x270 mm
Speed	20 - 100 m/min
Step	Inverter / Variable
Material feeding height	760 mm
Clamp Opening Range	0 - 335 mm
Clamp Height	190 mm
Driving Motor Power	0.37 kW
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2260x1260x1430 mm
Weight	935 Kg

Made in
Türkiye

Optional Accessories:

Replacement saw band:

39603/4

27x0,9x3960mm- 3/4 tpi

39604/6

27x0,9x3960mm- 4/6 tpi

39605/8

27x0,9x3960mm- 5/8 tpi



FULL-AUTOMATIC BANDSAW MACHINE

TA360

STRAIGHT CUTTING

- Unlimited steps in the range of 14-100 mt/min with inverter speed regulation/Vario system
- Angle adjustment from vise up to 45°
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Material support
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Special designed strong reducer structure
- Reinforced material sliding system and long-lasting roller balls with specially designed double bearing system.
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision.
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard

Hydraulic/Automatic material clamping
Hydraulic/Automatic head travel
Automatic material feeding



Standard Accessories

- Double Roll material stand 40 cm
- 5 Roll material stand 1.5 mt
- Bi-metal saw blade mounted on the machine

MODEL	TA360
Main Motor Power	2,2 kW, 380 V
Cutting Capacity 0°	● 360mm ■ 360x360 mm ■ 400x300 mm
Saw Blade Dimensions	34x1,1x4560mm
Speed	14 - 100 m/min
Step	Inverter / Variable
Material Stand Height	760 mm
Vice Opening Range	0 - 450 mm
Vice Height	230 mm
Servo Motor	0,37 kW
Hydraulic Motor Power	0.18 kW
Coolant Motor Power	0.12 kW
Machine Dimensions	2470x1350x1300 mm
Weight	950 kg

Made in
TURKEY

Optional Accessories:

Replacement saw band:

45603/4

34x1,1x4560mm- 3/4 tpi

45604/6

34x1,1x4560mm- 4/6 tpi

45605/8

34x1,1x4560mm- 5/8 tpi



FULL-AUTOMATIC BANDSAW MACHINE

TA360M

MITER CUTTING

- Unlimited steps in the range of 14-100 mt/min with inverter speed regulation/Vario system
- Angle adjustment from vise up to 45°
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Material support
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Special designed strong reducer structure
- Reinforced material sliding system and long-lasting roller balls with specially designed double bearing system.
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision.
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard

Hydraulic/Automatic material clamping
Hydraulic/Automatic head travel
Automatic material feeding



Standard Accessories

- Double Roll material stand 40 cm
- 5 Roll material stand 1.5 mt
- Bi-metal saw blade mounted on the machine

MODEL	TA360M
Main Motor Power	2,2 kW, 380 V
Cutting Capacity 0°	● 360mm ■ 360x360 mm ■ 400x300 mm
Cutting Capacity 45°	● 250mm ■ 230x230 mm ■ 200x360 mm
Saw Blade Dimensions	34x1,1x4560mm
Speed	14 - 100 m/min
Step	Inverter / Variable
Material Stand Height	760 mm
Vice Opening Range	0 - 450 mm
Vice Height	230 mm
Servo Motor	0.37 kW
Hydraulic Motor Power	0.18 kW
Coolant Motor Power	0.12 kW
Machine Dimensions	2620x1460x1300 mm
Weight	1.055 kg

Made in
Türkiye

Optional Accessories:

Replacement saw band:

45603/4

34x1,1x4560mm- 3/4 tpi

45604/6

34x1,1x4560mm- 4/6 tpi

45605/8

34x1,1x4560mm- 5/8 tpi



PORTABLE BANDSAW MACHINE

T125DC



- Features:**
- Emergency Stop-button
 - Automatic stop at the end of cutting
 - 60°degree adjustment
 - Lightweight as only of 21 kg
 - CE Standard

- Standard Accessories**
- Adjustable material stop
 - Saw with bimetal blade installed



Miter adjustment up to 60° with a built-in pivot

Adjustable stop-bar

Optional Accessories:

Machine base:
400125

Replacement saw band:
144010/14
13x0,65x1440 mm – 10/14 tpi

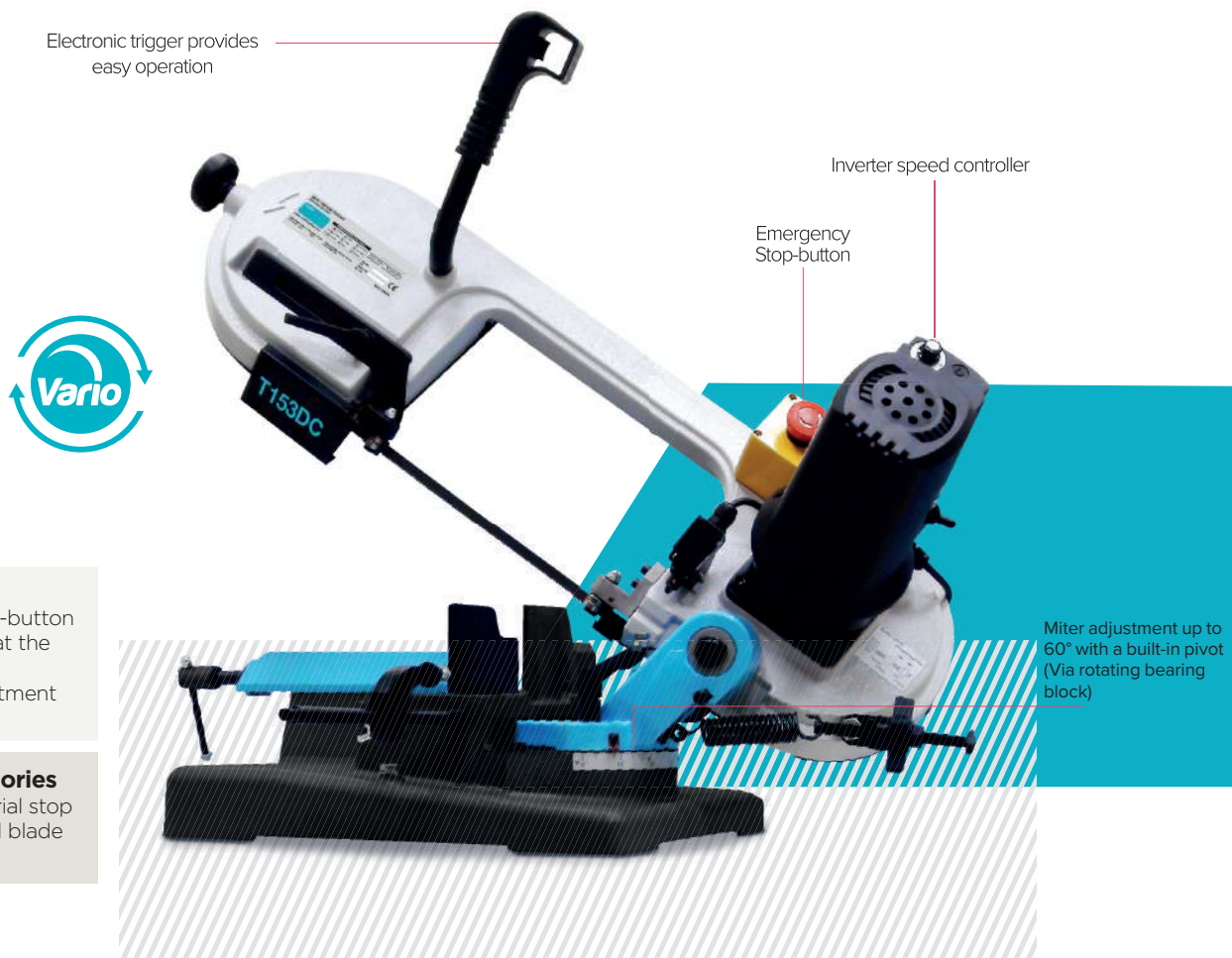


MADE IN TAIWAN

MODEL	T125DC
Motor Power	Input:1250 W - Output: 300 W, 230 V
Cutting Angle	0°-60°
Cutting Angle Adjustment	Miter Cutting
Lifting the Saw Head / Feed	Manual
Saw Blade Dimensions	13x0,65x1440 mm
Cutting Areas 0°	● 125mm; ■ 120x120mm
Cutting Areas 45°	● 70mm; ■ 70x120mm
Cutting Areas 60°	● 35mm; ■ 35x65mm
Saw Blade Dimensions	13x0,65x1440 mm
Cutting Speed	23-75 m/min
Number of Steps	Inverter Variable Speed
Dimensions (L x W x H)	1295x450x1060 mm
Packing Size	730x385x475 mm
Weight	21 Kg

PORTABLE BANDSAW MACHINE

T153DC



Features:

- Emergency Stop-button
- Automatic stop at the end of cutting
- 60°degree adjustment
- CE Standard

Standard Accessories

- Adjustable material stop
- Saw with bimetal blade installed

Optional Accessories:

Replacement saw band:

17856/10

13x0,65x1785mm- 6/10 tpi

17810/14

13x0,65x1785mm- 10/14 tpi



MADE IN TAIWAN

MODEL	T153DC
Motor Power	Input:1750 W, Output: 375 W, 230 V
Cutting Angle	0°-60°
Cutting Angle Adjustment	Miter Cutting
Lifting the Saw Head / Feed	Manual
Saw Blade Dimensions	13x0,65x1785 mm
Cutting Areas 0°	● 153mm; ■ 153x160mm
Cutting Areas 45°	● 110mm; ■ 110x120mm
Cutting Areas 60°	● 70mm; ■ 68x70mm
Cutting Speed	35-85 m/min
Number of Steps	Inverter Variable Speed
Dimensions (L x W x H)	1700 x 550 x 800 mm
Weight	38 Kg

BANDSAW BLADES

BI-METAL M42 BAND SAWS

PRODUCT CODE					
LENGTH	THREAD DIMENSION	WIDTH X THICKNESS	LENGTH	SUITABLE MODEL	1 Package: 5 Pcs
1440	10/14	13x0.65 mm	1440 mm	T125DC	
1785	6/10,10/14	13x0.65 mm	1785 mm	T153DC	
2360	5/8, 6/10, 10/14	20x0.9 mm	2360 mm	T200	
2460	5/8, 6/10, 8/12	27x0.9 mm	2460 mm	T225MV	
3660	3/4, 4/6, 5/8	27x0.9 mm	3660 mm	TS300/M, TA300/M	



Matters to be Considered in Cutting

- Check the working condition of the chip brush
- Check bearings and rolling bearings before every cut
- Make sure the band saw blade is at ideal tension
- Determine the band saw speed and feed speeds according to the cut you will make.
- Use coolant at appropriate concentration. Using coolant protects your material and blade. It allows you to make a more accurate cut.
- Make sure that the material to be cut is firmly fixed in the vise.
- To habituate a new band saw blade, start cutting at about 1/3 of the normal feed rate and gradually increase it to reach the ideal feed rate. Continue with the appropriate feed rate as your saw gets used to it.

THREAD SELECTION FOR FILLED MATERIALS



Material Diameter (mm)	Thread (mm)
Until the 20 mm	10/14
10-30	8/12-8/11
20-50	6/10
30-60	5/8-5/7
50-90	4/6
80-150	3/4
120-300	2/3
250-600	1,4/2

THREAD SELECTION FOR PIPE AND PROFILE MATERIALS



Thickness (mm)	Material Diameter Ø (mm)							
	20	40	60	80	100	150	200	400
2	14	14	14	14	14	10/14	10/14	8/12
3	14	14	10/14	10/14	10/14	8/12	8/12	6/10
4	14	14	10/14	10/14	8/12	8/12	8/12	5/8
6	14	10/14	8/12	8/12	8/12	5/8	5/8	4/6
8	14	10/14	8/12	8/12	8/12	5/8	5/8	4/6
10		8/12	6/10	6/10	6/10	4/6	4/6	4/6
15		8/12	6/10	6/10	5/8	4/6	4/6	3/4
20			6/10	5/8	4/6	4/6	4/6	3/4
30				4/6	4/6	4/6	4/6	3/4

CIRCULAR SAW

DW275 | DW315

MANUAL VISE

- Blade-stop switch system after cutting
- 45° angle setting
- Special Ozco-designed powerful gearbox system
- High-quality special yellow gear
- Cooling system
- Hydraulic feed system
- Ergonomic start/stop trigger on the control arm
- Compliant with CE standards

Scope of Supply

- Adjustable stop arm

Made in
Türkiye



MODEL	DW275	DW315
Motor Power	1,0-1,3 kW, 380 V	1,3-1,8 kW, 380 V
Cutting Angle	0°-45°	0°-45°
Vise Clamping	Manual	Manual
Speed	48-97 rpm	48-97 rpm
Blade Size	275x32 mm	315x32 mm
Cutting Capacity 0°	● 85 mm; ■ 70 mm; ■ 95x60 mm	● 105mm; ■ 85 mm; ■ 120x60 mm
Cutting Capacity 45°	● 70 mm; ■ 60 mm; ■ 70x55 mm	● 90mm; ■ 80 mm; ■ 90x60 mm
Speed Control/Feed	Manual	Manual
Vise Load Height	900 mm	900 mm
Vise Opening Range	0-120 mm	0-120 mm
Vise Height	62 mm	62 mm
Machine Dimensions	975x1000x1660 mm	975x1000x1660 mm
Net Weight	240 Kg	250 Kg

CIRCULAR SAW

DW275P | DW315P

PNEUMATIC VISE

The pneumatic vise system enables automatic clamping and releasing for efficient serial cutting operations..

- Blade-stop switch system after cutting
- 45° angle setting
- Special Ozco-designed powerful gearbox system
- High-quality special yellow gear
- Cooling system
- Hydraulic feed system
- Ergonomic start/stop trigger on the control arm
- Compliant with CE standards

Scope of Supply

- Adjustable stop arm

Made in
Turkey



MODEL	DW275P	DW315P
Motor Power	1,0-1,3 kW, 380 V	1,3-1,8 kW, 380 V
Cutting Angle	0°-45°	0°-45°
Vise Clamping	Pneumatic	Pneumatic
Speed	48-97 rpm	48-97 rpm
Blade Size	275x32 mm	315x32 mm
Cutting Capacity 0°	● 85 mm; ■ 70 mm; ■ 95x60 mm	● 105mm; ■ 85 mm; ■ 120x60 mm
Cutting Capacity 45°	● 70 mm; ■ 60 mm; ■ 70x55 mm	● 90mm; ■ 80 mm; ■ 90x60 mm
Speed Control/Feed	Manual	Manual
Vise Load Height	900 mm	900 mm
Vise Opening Range	0-120 mm	0-120 mm
Vise Height	62 mm	62 mm
Machine Dimensions	975x1110x1660 mm	975x1110x1660 mm
Net Weight	250 Kg	260 Kg

ARM TAPPING MACHINE

ATP16 Servo | ATP36 Servo | ATP36A Servo

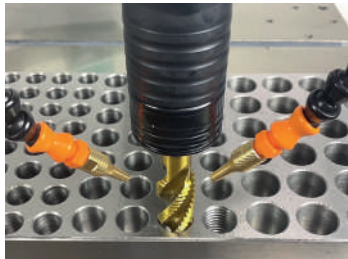
- Powerful servo motor
- Heavy cast body, solid construction
- Touch screen with ergonomic structure
- Manual or automatic tapping
- Gradual (forward-backward sequential movement) tapping
- Adjustable tap diameter, pitch length and speed adjustment
- Torque adjustment and intelligent torque protection system
- Parameter memory
- Quick change safety tap holder
- Large volume bottom stand with shelf
- Roller-bearing stand wheels that can rotate anywhere
- Turkish language option

Standard Accessories

- 8 pcs tapping collets with clutch
- **For ATP16 Servo** (M3,M4,M5-6,M8,M10,M12,M14,M16)
- **For ATP36 Servo, ATP36A Servo** (M5-6, M8, M10, M12, M16, M18, M20, M22-24)
- Magnetic upright device
- 800x500 mm T-groove casting table
- Large volume, lower stand with shelves



Cooling system and air blowing for ATP36A models



Optional Accessories: TAPPING COLLETS WITH CLUTCH



For ATP16 Servo

ITEM NO	DESCRIPTION
136359	UPPER ARM OF THE ATP16 SERVO
136600	MAGNETIC LIFT 600 Kg
136102	M2 TAPPING COLLET
136103	M3 TAPPING COLLET
136104	M4 TAPPING COLLET
136106	M5-M6 TAPPING COLLET
136108	M8 (6-8mm) TAPPING COLLET
136110	M10 TAPPING COLLET
136112	M12 TAPPING COLLET
136114	M14 TAPPING COLLET
136116	M16 TAPPING COLLET

For ATP36 Servo and ATP36A Servo

ITEM NO	DESCRIPTION
136360	UPPER ARM OF THE ATP36 SERVO
136361	UPPER ARM OF THE ATP36A SERVO
136600	MAGNETIC LIFT
136006	M5-M6 TAPPING COLLET
136008	M8 (6-8MM) TAPPING COLLET
136010	M10 TAPPING COLLET
136012	M12 TAPPING COLLET
136014	M14 TAPPING COLLET
136016	M16 TAPPING COLLET
136018	M18 TAPPING COLLET
136020	M20 (18-20mm) TAPPING COLLET
136024	M22-M24 TAPPING COLLET
136027	M27 TAPPING COLLET
136030	M30 TAPPING COLLET
136033	M33 TAPPING COLLET
136036	M36 TAPPING COLLET

MODEL	ATP16 Servo	ATP36 Servo	ATP36A Servo
Motor Power	1.0 kW , 230 V	1.2 kW , 230 V	
Tapping Capacity	M2-M16	M5-M36	
Maximum Arm Length	1000 mm	1200 mm	
Cooling System	-	-	✓
Air Blowing System	-	-	✓
Maximum Speed	312 rpm	156 rpm	
Head Rotation	Vertical/Horizontal		
Table Dimensions	800x500 mm		
Net Weight	110 Kg	120 Kg	125 Kg

COLUMN DRILLING MACHINE

M20H | M25 | M32 | M35



Standard Accessories
 • MT2-B16 morse taper
 • 3-16mm B16 chuck
 • 2 pcs T-nut



Standard Accessories
 • MT3-B16 morse taper
 • 3-16mm B16 chuck
 • 2 pcs T-nut



Standard Accessories
 • MT4-B16 morse taper
 • 3-16mm B16 chuck
 • 2 pcs T-nut



Standard Accessories
 • MT4-B16 morse taper
 • 3-16mm B16 chuck
 • 2 pcs T-nut

MODEL	M20H	M25	M32	M35
Main Motor Power	550 W, 400 V	750 W, 400 V	1.1 kW, 400 V	1,5 kW, 400 V
Working Type	Belt Drive			
Drilling Capacity	20 mm	25 mm	32 mm	35 mm
Spindle-Column Distance	180 mm	177mm	220 mm	255 mm
Spindle Taper	MT2	MT3	MT4	MT4
Spindle Stroke (Spindle Travel)	85 mm	85 mm	120 mm	120 mm
Speed Range	180-2770 rpm	280-2380 rpm	150-2450 rpm	150-2450 rpm
Number of Steps	16	12	12	12
Table Size	290x290 mm	290x290 mm	360x360 mm	420x475 mm
T-slot Size	14 mm	14 mm	14 mm	14 mm
Table Tilt / Rotation	±45° / 360°	±45° / 360°	±45° / 360°	±45° / 360°
Spindle - Table Distance	700	700	750 mm	750 mm
Spindle to Base Distance	1190	1190	1210 mm	1210 mm
Base Size	460x272 mm	460x272 mm	470x360 mm	560x450 mm
Column Diameter	72 mm	80 mm	92 mm	92 mm
Dimensions (L x W x H)	650x360x1570 mm	650x360x1570 mm	730x440x1680 mm	790x470x1730 mm
Net Weight	70 Kg	80 Kg	130 Kg	145 Kg

TAPPING DRILLING MACHINE

M16TP | M20TP | M25TP.



Standard Accessories (What is Included):

- MT2-B18 morse taper (M16TP; M20TP)
- MT3-B18 morse taper (M25TP)
- 0-16 mm B18 chuck
- Foot control pedal for tapping operation



MODEL	M16TP	M20TP	M25TP
Main Motor Power	750 W, 380 V		1,1 kW, 380 V
Working Type	Belt Drive		
Drilling Capacity	16 mm	20 mm	25 mm
Tapping Capacity	M12	M16	M20
Spindle Taper	MT2		MT3
Spindle Stroke (Spindle Travel)	100 mm	125 mm	
Spindle-Column Distance	193 mm	240 mm	
Spindle-Table Distance	297 mm	315 mm	367 mm
Spindle-Base Distance	556 mm	560 mm	630 mm
Column Diameter	70 mm	70 mm	85 mm
Speed Range	480-4100 rpm	290-2150 rpm	
Number of Steps	5		
Table Size	200x230 mm	280x300 mm	
Base Size	528x360 mm	590x375 mm	
Dimensions (L x W x H)	770x420x950 mm	820x480x1020 mm	
Net Weight	90 Kg	140 Kg	165 Kg

GEARBOX DRILLING MACHINE

MC32 | MC32 Plus | MC32F

MC32

- Threading mode
- Chuck cover with safety switch
- Lighting system
- Cooling unit
- CE standard

MC32 Plus

- **Automatic spindle feed**
- Threading mode
- Height-adjustable chuck cover with safety switch
- Lighting system
- Cooling unit
- CE standard

MC32F

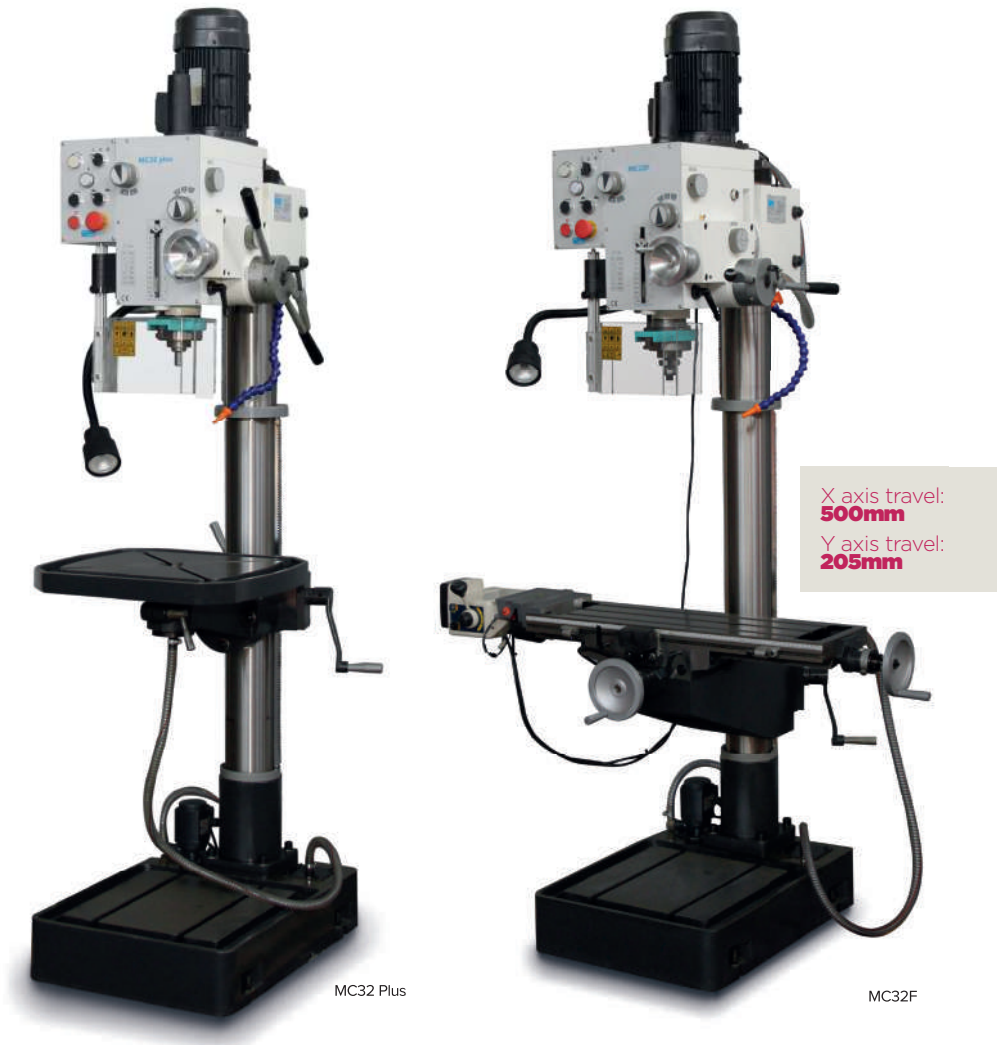
- X axis automatic table feed
- Table power feeder: Automatic Motor with gear table feed X-Axis
- 730x210 mm table size
- Automatic spindle feed
- Threading mode
- Height-adjustable chuck guard with safety switch
- Lighting system
- Cooling unit
- CE standard

Standard Accessories

- MT4-B16 morse taper
- 1-16mm B16 drill chuck

Optional Accessories:

- 110104: MT4-B16 morse taper
- 150200: Drill vice 200 mm



MODEL	MC32		MC32 Plus	MC32F
Main Motor Power	1,5 kW, 400 V			
Working Type	Geared			
Drilling Capacity	32 mm			
Tapping Capacity	M20			
Spindle Taper	MT4			
Spindle Stroke (Spindle Travel)	120 mm			
Spindle-Column Distance	298 mm			278 mm
Spindle-Table Distance	610 mm			
Spindle-Base Distance	1180 mm			
Column Diameter	115 mm			
Speed Range	75-1600 rpm			75-3200 rpm
Number of Steps	6			12
Table Size	560x460 mm			730x210 mm
Base Size	670x470 mm			
Spindle Feed	-		0,10,0,18,0,26 mm/rev	
Machine Size	935x560x2280 mm		935x560x2280 mm	935x560x2280 mm
Dimensions (L x W x H)	700x720x2050 mm			
Coolant Pump Power	40 W			
Net Weight	335 Kg			350 Kg

GEARBOX DRILLING MACHINE

MC35 S | MC35

Features:

- Electromagnetic automatic feed
- Height-adjustable chuck cover
- Digital depth reader
- Threading mode
- 360° rotatable worktable
- Machine lamp
- Cooling system
- CE Standard

MC35 S

- Spindle feed with mechanical clutch

MC35

- Spindle feed with electromagnetic clutch
- Digital depth indicator
- ±45° right and left rotating table

Standard Accessories

- MT4-B16 morse taper
- 3-16mm B16 drill chuck

Optional Accessories:

- 110104: MT4-B16 morse taper
150200: Drill vice 200 mm

MC35 S

MODEL	MC35 S & MC35
Main Motor Power	1,5 kW, 400 V
Working Type	Geared
Drilling Capacity	35 mm
Tapping Capacity	M24
Spindle Taper	MT4
Spindle Stroke (Spindle Travel)	180 mm
Spindle-Column Distance	350 mm
Spindle-Table Distance	780 mm
Spindle-Base Distance	1320 mm
Column Diameter	150 mm
Speed Range	50-1450 rpm
Number of Steps	18
Table Size	560x560 mm
Base Size	730x500 mm
Spindle Feed	0,1-0,2 mm/rev
Coolant Pump Power	60 W
Coolant Pump Tank Capacity	5 Lt
Machine Size	935x560x2280 mm
Dimensions (L x W x H)	1130x700x2480 mm
Net Weight	500 Kg



MC35



MC35

GEARBOX DRILLING MACHINE

MC50

Features:

- Heavy, solid cast (heavy-duty) design
- 200 mm column diameter
- Electromagnetic automatic feed
- Height-adjustable chuck cover
- Digital depth reader
- Threading mode
- Motorized table stroke
- Machine lamp
- Cooling system
- CE Standard

Standard Accessories

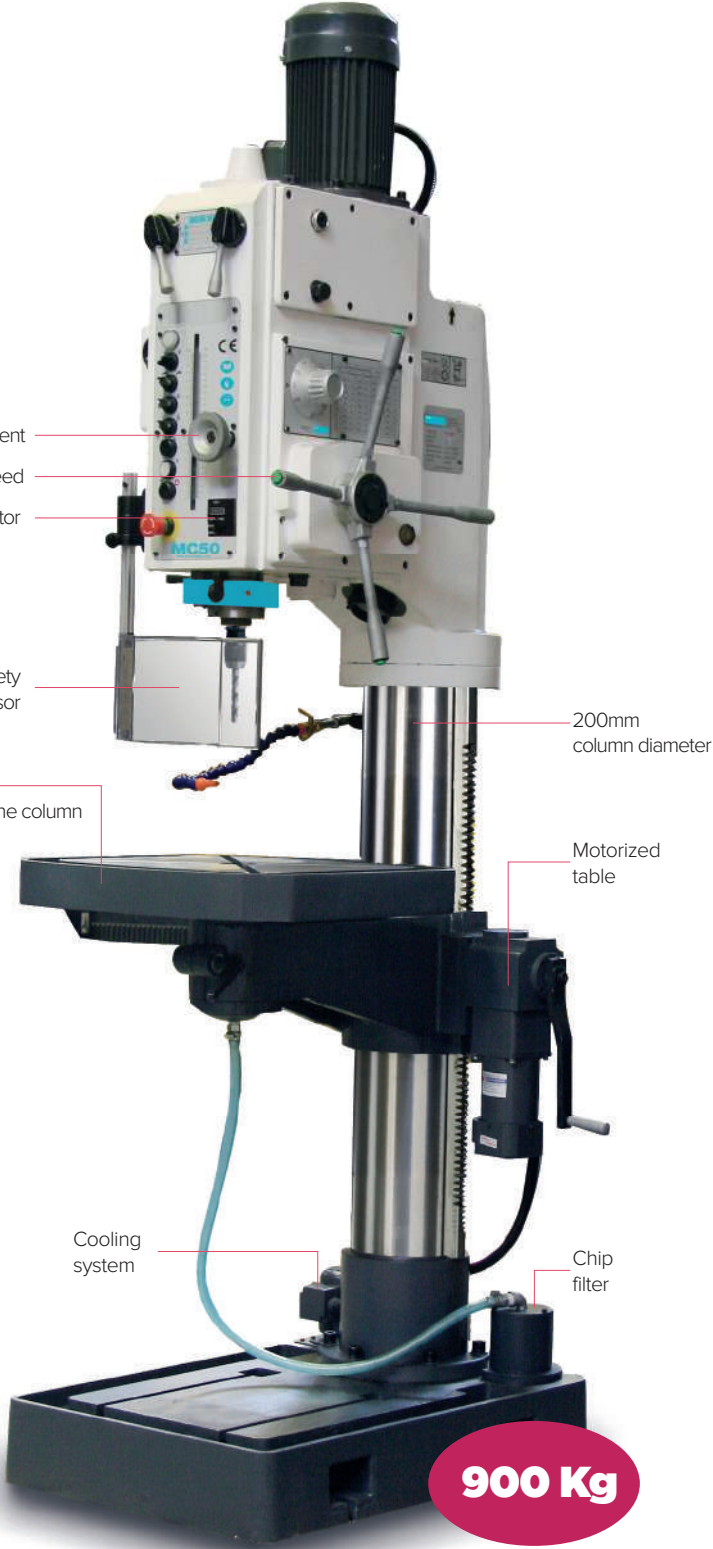
- MT4-B16 morse taper
- 3-16mm B16 drill chuck
- Operating tools

Optional Accessories:

- 110104: MT4-B16 morse taper
- 150200: Drill vice 200 mm

- High quality casting, solid construction
- Ability to rotate 360° around itself, ±90° around the column
- Large working area of 600x600mm
- Cross T channel

MODEL	MC50
Main Motor Power	3.0 kW, 400 V
Working Type	Geared
Drilling Capacity	50 mm
Tapping Capacity	M42
Spindle Taper	MT4
Spindle Stroke (Spindle Travel)	230 mm
Spindle-Column Distance	375 mm
Spindle-Table Distance	800 mm
Spindle-Base Distance	1300 mm
Column Diameter	200 mm
Speed Range	54-2090 rpm
Number of Steps	18
Table Size	600x600 mm
Base Size	600x860 mm
Spindle Feed	0.05-0.3 mm/rev(6 steps)
Coolant Pump Power	40 W
Coolant Pump Tank Capacity	5 Lt
Machine Size	1016x610x2454mm
Dimensions (L x W x H)	2580x750x1135mm
Net Weight	900 Kg



RADIAL DRILLING MACHINE

MR4010 | MR5016 | MR6320 | MR8025

Hydraulic Clamp System (MR5016, MR6320 and MR8025)

Features:

- Box-type worktable
- Cooling system
- Automatic lubrication system
- CE Standard

Standard Accessories

- Morse taper sleeves
- Operating tools

Optional Accessories:

- 110104: MT4-B16 morse taper (MR4010)
110105: MT5-B16 morse taper (MR5016, MR6320)
150200: Drill vice 200 mm (M32, M35)



MODEL	MR4010	MR5016	MR6320	MR8025
Main Motor Power	1.5 kW, 380 V	4 kW, 380 V	5.5 kW, 380 V	7.5 kW, 380 V
Working Type	Mechanic	Hydraulic	Hydraulic	Hydraulic
Clutch Type	Geared	Geared	Geared	Geared
Coolant Pump Power	90 W	90 W	90 W	90 W
Drilling Capacity	40 mm	50 mm	63 mm	80 mm
Spindle Taper	MT4	MT5	MT5	MT6
Spindle Stroke (Spindle Travel)	240 mm	315 mm	400 mm	450 mm
Spindle-Column Distance	320-1020 mm	350-1600 mm	450-2050 mm	500-2500 mm
Spindle-Table Distance	120-860 mm	320-1220 mm	400-1600 mm	550-2000 mm
Column Diameter	200 mm	350 mm	450 mm	550 mm
Speed Range	75-1220 rpm	25-2000 rpm	20-1600 rpm	16-1250 rpm
Number of Steps	6	16	16	16
Table Size	400x400x350 mm	630x500x500 mm	950x630x500 mm	1000x800x560 mm
Spindle Feed	0,1-0,25mm/rev (3 steps)	0,04-3,2 mm/rev (16 steps)	0,04-3,2mm/rev (16 steps)	0,04-3,2 mm/rev (16 steps)
Machine Size	1600x720x1885 mm	2500x1070x2840 mm	2900x1250x2500 mm	3750x1400x4025 mm
Dimensions (L x W x H)	1750x770x2100 mm	2580x1140x2550 mm	3110x1250x3150 mm	3850x1480x4100 mm
Net Weight	1200 Kg	3500 Kg	6800 Kg	11000 Kg
Gross Weight	1300 Kg	3700 Kg	7150 Kg	11500 Kg

BENCH MILLING MACHINE

FM16V

Vario (Stepless) Speed Adjustment Digital Speed Indication

- Right / Left Rotation
- Height-adjustable milling machine guard (chuck cover) with safety switch
- ±45° angle head (head pivots 45 degree left and right)
- CE Standard

Standard Accessories

- MT2 / M10 Morse taper sleeves
- Operating tools

Optional Accessories:

- 215116: X axis power feed
- 250100: Drill vice 100mm
- 250125: Drill vice 125mm
- 260100: Rotary table 100 mm
- 270008: 10 mm T slotted, M8 tool clamping set
- 295016: Stand for FM16V



Optional Accessories:



215116: X-Axis power feed



295016: Stand for FM16V

MODEL	FM16V
Main Motor Power	600 W , 230 V
Drilling Capacity	16 mm
End Mill (Finger Milling) Capacity	16 mm
Face Milling Capacity	50 mm
Table Size	400x120 mm
X Axis Travel	220 mm
Y axis Travel	160 mm
Z Axis Travel	210 mm
T-slots	3x10 mm
Spindle Taper	MT2
Spindle Speed	50-2250 rpm
Number of Steps	2/with Variator
Quill Travel	50 mm
Headstock Rotation	± 45°
Spindle to Column Distance	175 mm
Dimensions (L x W x H)	500x465x791 mm
Net Weight	70 Kg

BENCH MILLING MACHINE

FM20V | FM20VLD (3 eksen dijital koordinat okuyucu)

Vario (Stepless)
Speed Adjustment
Digital Speed
Indication (Reader)



Features:

- Right / Left Rotation
- Height-adjustable protection guard with (safety) switch
- Digital depth reader
- $\pm 45^\circ$ angle head (head pivots 45 degree left and right)
- CE Standard

Standard Accessories

- MT2 / M10 Morse taper sleeves
- Operating tools

Optional Accessories:

- 210102: MT2-B16 morse taper
- 210202: MT2-ER25 collet sets, 19 pcs
- 215120: X axis power feed
- 250100: Milling vice 100mm
- 250125: Milling vice 125mm
- 260100: Rotary table 100 mm
- 270010: 12 mm T slotted, M10 tool clamping set
- 295020: Stand for FM20V, FM20VL



FM20V & FM20VLD
 Long table: 700x180mm



Optional Accessories:



215120: X-Axis power feed



295020: Stand For FM20V

MODEL	FM20V	FM20VLD
Main Motor Power	750 W, 230 V	
Drilling Capacity	16 mm	
End Mill (Finger Milling)Capacity	20 mm	
Face Milling Capacity	63 mm	
Table Size	500x180 mm	700x180 mm
X Axis Travel	280 mm	480 mm
Y axis Travel	175 mm	
Z Axis Travel	270 mm	
T-slots	3x12 mm	
Spindle Taper	MT2	
Spindle Speed	50-2250 rpm	
Number of Steps	2/with Variator	
Quill Travel	50 mm	
Headstock Rotation	$\pm 45^\circ$	
Spindle to Column Distance	185 mm	
Dimensions (L x W x H)	750x560x930 mm	950x560x930 mm
Net Weight	105 Kg	115 Kg

BENCH MILLING MACHINE

FM30V | FM30 Plus

Vario (Stepless) Speed Adjustment Digital Speed Indication



Features:

- Right / Left Rotation
- Height-adjustable protective screen with micro switch
- Digital depth reader
- $\pm 45^\circ$ angle head
- CE Standard

Standard Accessories

- MT3 / M12 Morse taper sleeves
- Operating tools

Optional Accessories:

- 210102: MT2-B16 morse taper
- 210202: MT2-ER25 collet sets, 19 pcs
- 215130: X axis power feed
- 250100: Milling vice 100mm
- 250125: Milling vice 125mm
- 260100: Rotary table 100 mm
- 270010: 12 mm T slotted, M10 tool clamping set
- 295030: Stand for FM30V, FM30PLUS

FM30 Plus

Features:

- X-axis power feed motor is pre-assembled on the machine
- Integrated digital 3 axis readout



MODEL	FM30V / FM30 Plus
Main Motor Power	1.1 kW, 230 V
Drilling Capacity	32 mm
End Mill (Finger Milling) Capacity	25 mm
Face Milling Capacity	80 mm
Table Size	700x210 mm
X Axis Travel	425 mm
Y axis Travel	220 mm
Z Axis Travel	360 mm
T-slots	3x14 mm
Spindle Taper	MT3
Spindle Speed	50-2250 rpm
Number of Steps	2/with Vario
Quill Travel	70 mm
Head Tilt Angle	$\pm 45^\circ$
Spindle to Column Distance	90 mm
Dimensions (L x W x H)	1000x800x1200 mm
Net Weight	230 Kg

Optional Accessories:



215130: X-Axis power feed



295030: Stand for FM30 Plus

BENCH MILLING MACHINE

FS28

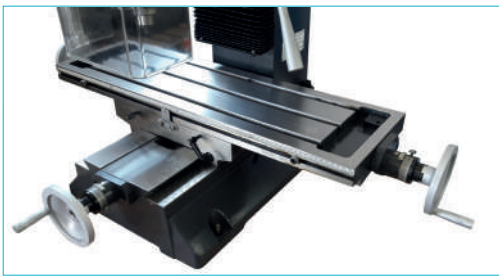
- Heavy die-cast body
- Threading mode
- Height-adjustable protective screen with micro switch
- (Height-adjustable protection guard with (safety) switch)
- CE Standard

Standard Accessories

- Operating tools

Optional Accessories:

- 210104: MT4-B16 morse taper
- 210204: MT4-ER32 collet sets, 18 pcs
- 220042: MT4-MT2 reduction sleeve
- 220043: MT4-MT3 reduction sleeve
- 250125: Milling vice 125 mm
- 260100: Rotary table 100 mm
- 270012: 14 mm T slotted, M12 mold set
- 295028: Stand for FS28



MODEL	FS28
Main Motor Power	1.5 kW, 400 V
Drilling Capacity	32 mm
End Mill (Finger Milling) Capacity	28 mm
Face Milling Capacity	63 mm
Table Size	800x240 mm
X Axis Travel	560 mm
Y axis Travel	200 mm
Z Axis Travel	430 mm
T-slots	3x14mm
Spindle Taper	MK4
Spindle Speed	75-3200 rpm
Number of Steps	12
Spindle Travel	120 mm
Spindle Feed	-
Headstock Rotation	± 45°
Spindle to Column Distance	460 mm
Spindle-Table Distance	275 mm
Dimensions (L x W x H)	1150x1150x850 mm
Net Weight	325 Kg

Optional Accessories:



295028: Stand for FS28

BENCH MILLING MACHINE

FS28 Plus

Vario Speed Adjustment Digital Speed Indication

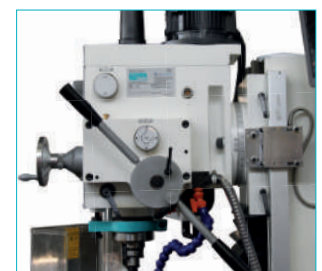
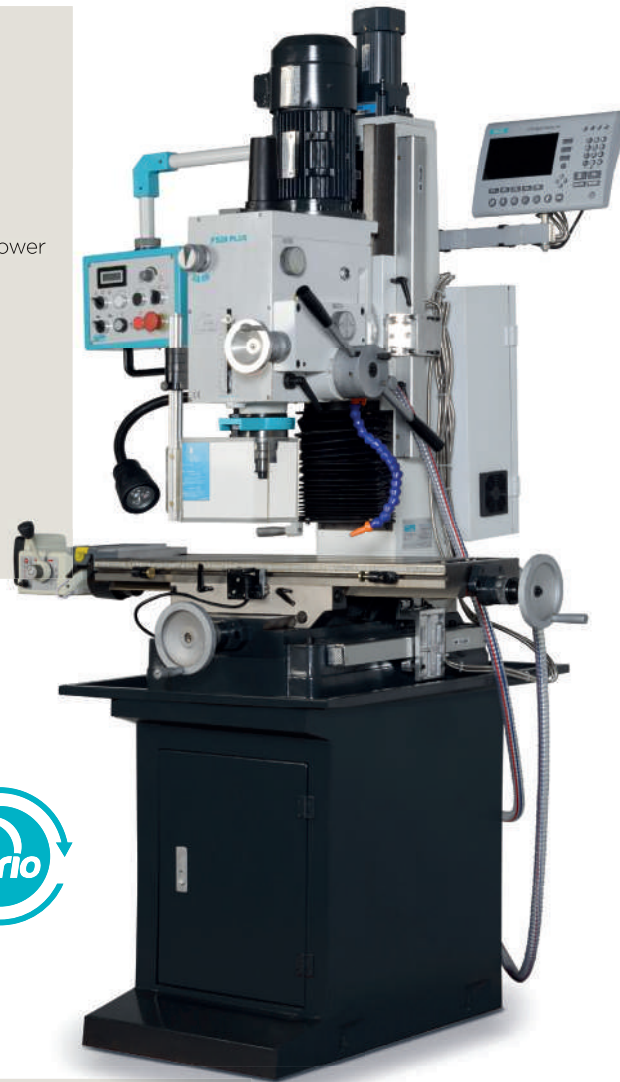
- Automatic milling machine with X-axis power feed motor
- Automatic milling machine with Z-axis power feed motor
- LCD digital 3 axis readout
- Thread tapping mode
- Height-adjustable milling machine guard (chuck cover) with safety switch
- Digital speed reader
- Cooling system
- Machine lamp
- Control panel
- Pre-assembled steel cabinet
- CE Standard

Standard Accessories

- Operating tools

Optional Accessories:

- 210104: MT4-B16 morse taper
- 210204: MT4-ER32 collet sets, 18 pcs
- 220042: MT4-MT2 reduction sleeve
- 220043: MT4-MT3 reduction sleeve
- 250125: Milling vice 125 mm
- 260100: Rotary table 100 mm
- 270012: 14 mm T slotted, M12 mold set



MODEL	FS28 Plus
Main Motor Power	1.5 kW, 400 V
Drilling Capacity	32 mm
End Mill (Finger Milling) Capacity	28 mm
Face Milling Capacity	63 mm
Table Size	800x240 mm
X Axis Travel	Manual: 560 mm, Automatic: 480 mm
Y axis Travel	200 mm
Z Axis Travel	430 mm
T-slots	3x14mm
Spindle Taper	MK4
Spindle Speed	75-2500 rpm
Number of Steps	2/with Vario
Spindle Travel	120 mm
Spindle Feed	0.10, 0.18, 0.26 rpm
Headstock Rotation	± 45°
Spindle to Column Distance	460 mm
Spindle-Table Distance	275 mm
Dimensions (L x W x H)	1240x930x2100 mm
Net Weight	480 Kg

VERTICAL MILLING MACHINE

F4

Features:

- High quality Meehanite cast iron design
- Height-adjustable chuck cover
- Automatic milling machine with X-Y-axis power feed motor
- Automatic milling machine with Z-axis rapid feed motor
- LCD digital 3 axis readout
- Digital depth reader
- Control panel
- Taiwan powerful milling head
- Automatic lubrication system
- Machine lamp
- Cooling system
- Chip tray
- CE Standard

Standard Accessories

- Mold set
- Clamping tools
- Milling (collet) chuck set
- 11-part ISO 40
- Operating tools

Optional Accessories:

- 210106: ISO40-B16 morse taper
- 210206: ISO40-ER40 collet set, 15 pcs
- 220404: ISO40-MT4 reduction sleeve
- 250160: Milling vice 160mm
- 250200: Milling vice 200mm
- 260160: Rotary table 160 mm
- 260200: Rotary table 200mm
- 270014: 16 mm T slotted, M14 mold set



MODEL	F4
Main Motor Power	3,75 kW , 400 V
Coolant Pump Power	1/8 Hp (100 W)
Table Size	1370x254 mm
X Axis Travel	950 mm
Y Axis Travel	400 mm
Z Axis Travel	420 mm
T-slots	3x16 mm
Spindle Taper	ISO 40
Spindle Speed	65-4500 rpm
Number of Steps	16
Spindle Diameter	105 mm
Spindle Travel	127 mm
Spindle Feed	0.04 - 0.08 - 0.15 rpm
Head Swivel Angle	sağ/sol: ±90°, ön/arka: ±45°
Spindle-Table Distance	40-446 mm
Spindle to Column Distance	200-680 mm
RAM Travel	470 mm
Dimensions (L x W x H)	1650x 1550x 2235 mm
Net Weight	1420 Kg



VERTICAL MILLING MACHINE

F4 Pro | F4V Pro

- High quality Meehanite cast iron design
- Height-adjustable chuck cover
- Schneider Electric System
- X- axis Geared power feed Motor
- Y-axis Automatic power feed Motor
- Automatic milling machine with Z-axis Rapid feed Motor
- Turcite-B coated Slideways (Bedways)
- Machine lamp
- Cooling system
- Chip tray
- CE Standard

Standard Accessories

- Milling (collet) chuck set 15-part ISO 40
- Mold set
- Milling vice
- Operating tools

Optional Accessories:

- 210106: ISO40-B16 morse taper
- 210206: ISO40-ER40 collet set, 15 pcs
- 220404: ISO40-MT4 reduction sleeve
- 250160: Milling vice 160mm
- 250200: Milling vice 200mm
- 260160: Rotary table 160 mm
- 260200: Rotary table 200mm
- 270014: 16 mm T slotted, M14 mold set

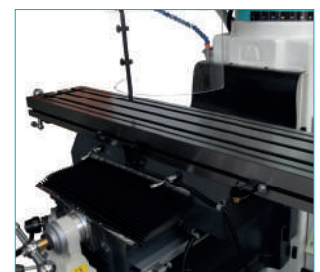
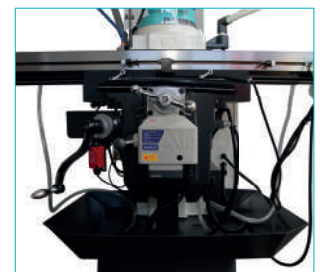


F4V Pro Vario Speed Adjustment



MADE IN TAIWAN

MODEL	F4 Pro	F4V Pro
Main Motor Power	3,75 kW, 400 V	
Coolant Pump Power	1/8 Hp (100 W)	
Table Size	1370x254 mm	
X Axis Travel	825 mm	
Y Axis Travel	400 mm	
Z Axis Travel	406 mm	
T-slots	3x16mm	
Spindle Taper	ISO 40	
Spindle Speed	70-3600 rpm	66-3165 rpm
Number of Steps	8	Vario speed adjuster
Spindle Diameter	100 mm	
Spindle Travel	127 mm	
Spindle Feed	0.04 - 0.08 - 0.15 rpm	
Head Swivel Angle	± 90°	
Spindle-Table Distance	40-446 mm	
Spindle to Column Distance	200-680 mm	
RAM Travel	480 mm	
Dimensions (L x W x H)	1750x1500x2200 mm	
Net Weight	1300 Kg	



UNIVERSAL MILLING MACHINE

FR50 | FR50 PLUS

FR50

- X- axis Geared power feed Automatic Motor
- Height-adjustable chuck cover
- Height-adjustable protective screen with micro switch
- (Height-adjustable protection guard with (safety) switch)
- Cooling system
- Machine lamp
- CE Standard

Optional Accessories:

- 210106: ISO40-B16 morse taper
- 210206: ISO40-ER40 collet set, 15 pcs
- 220404: ISO40-MT4 reduction sleeve
- 250160: Milling vice 160mm
- 260160: Rotary table 160 mm
- 270012: 14 mm T slotted, M12 mold set

FR50 Plus

- X- axis Geared power feed Motor - Automatic
- Y-axis Power feed Motor - Automatic
- Z-axis Power feed Motor - Automatic
- Height-adjustable Chuck Cover
- Height-adjustable protective screen with micro switch (Height-adjustable protection guard with (safety) switch)
- LCD digital 3 axis readout
- Control panel • Cooling system
- Machine lamp • CE Standard

Standard Accessories

- Mold set
- Clamping kits
- Milling (collet) chuck set 11-part ISO 40
- Operating tools



FR50

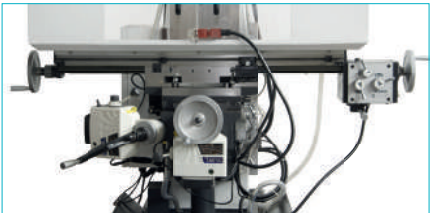


FR50 Plus

MODEL	FR50 - FR50 Plus
Main Motor Power	Vertical milling motor - 1,5kW; Horizontal milling motor - 1,5kW, 400 V
Coolant Pump Power	40 W
Table Size	1000x240 mm
X Axis Travel	580 mm
Y Axis Travel	230 mm
Z Axis Travel	340 mm
T-slots	4x14 mm
Spindle Taper	Vertical: ISO 40; Horizontal: ISO 40
Spindle Speed	Vertical: 115-1750 rpm; Horizontal: 60-1350 rpm
Number of Steps	Vertical: 8; Horizont: 9
Spindle Feed	120 mm
Head Swivel Angle	±45°
Spindle-Table Distance	60-360 mm
Spindle to Column Distance	250-650 mm
Table Feed	X: 24-720 rpm
Dimensions (L x W x H)	1360x1150x2080 mm
Net Weight	900 kg

Standard Accessories

- Mold set
- Clamping kits
- Milling (collet) chuck set 11-part ISO 40
- Operating tools



UNIVERSAL MILLING MACHINE

FR3

- 3- axis Feed Automatic Motor
- Height-adjustable chuck cover
- Height-adjustable protective screen with micro switch (Height-adjustable protection guard with (safety) switch)
- Cooling system
- Machine lamp
- CE Standard

- Standard Accessories**
- Mold set
 - Clamping tools
 - Milling (collet) chuck set 11-part ISO 40
 - Operating tools

- Optional Accessories:**
- 210106: ISO40-B16 morse taper
 - 210206: ISO40-ER40 collet set, 15 pcs
 - 220404: ISO40-MT4 reduction sleeve
 - 250160: Milling vice 160mm
 - 250200: Milling vice 200mm
 - 260160: Rotary table 160 mm
 - 260200: Rotary table 200mm
 - 270014: 16 mm T slotted, M14 mold set



MODEL	FR3
Main Motor Power	Vertical: 2,2k W, Horizontal: 2,2kW, 400 V
Working Type	Vertical: geared, Horizontal: geared
Coolant pump Power	90 W
Table Size	1270x280 mm
X Axis Travel	750 mm
Y Axis Travel	270 mm
Z Axis Travel	360 mm
T-slots	3x16
Spindle Taper	Vertical: ISO 40; Horizontal: ISO40
Spindle Speed	Vertical: 90-2000 rpm; Horizontal: 40-1300 rpm
Number of Steps	Vertical: 8; Horizontal: 12
Spindle Quill Diameter	90 mm
Spindle Quill Travel	120 mm
Head Swivel Angle	right/left ±90°
Spindle-Table Distance	115-545 mm
Spindle to Column Distance	210 mm
Dimensions (L x W x H)	1600x1500x2150 mm
Net Weight	1350 Kg



UNIVERSAL MILLING MACHINE

FR4

- 3- axis Feed Automatic Motor
- Height-adjustable chuck cover
- Height-adjustable protective screen with micro switch (Height-adjustable protection guard with (safety) switch)
- Cooling system
- Machine lamp
- CE Standard

Head Angle: Right/Left $\pm 90^\circ$, Front/Back $\pm 45^\circ$

Table Size: 1370x305 mm

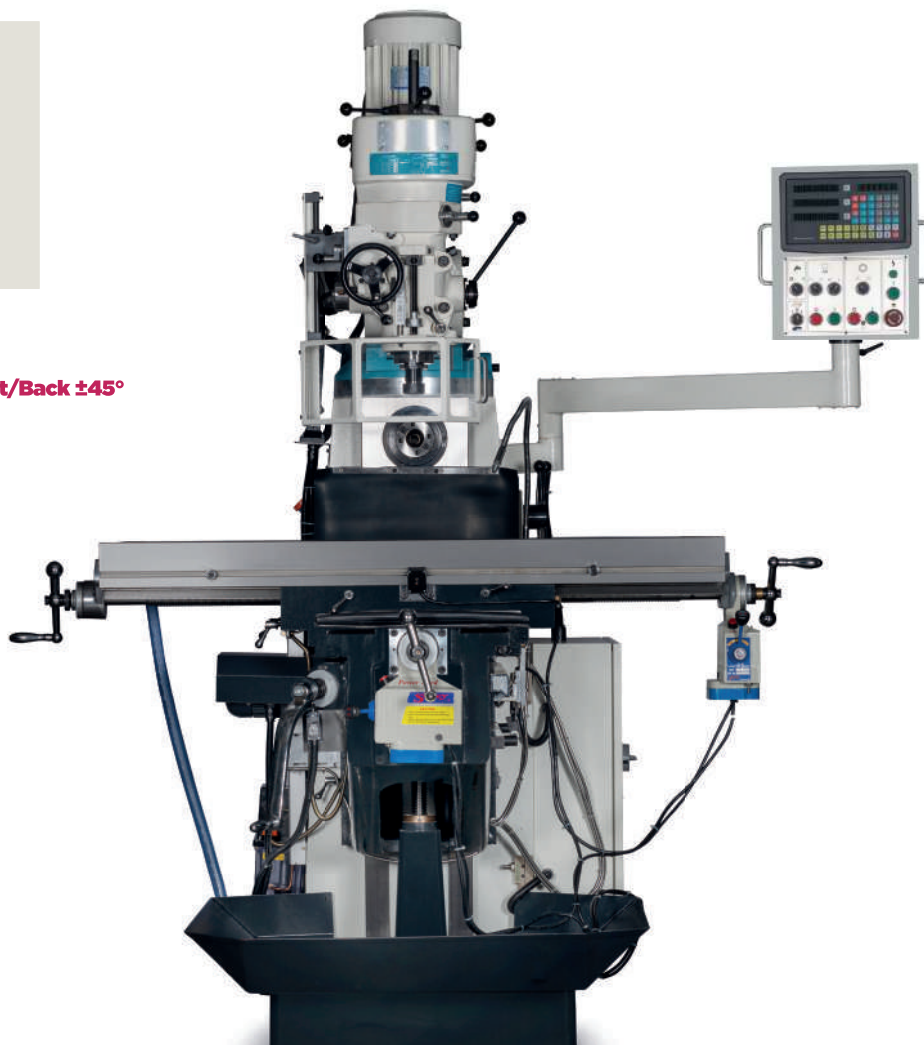
X/Y/Z Travel: 880/420/435 mm

Standard Accessories

- Mold set
- Clamping tools
- Milling (collet) chuck set 11-part ISO 40
- Operating tools

Optional Accessories:

- 210106: ISO40-B16 morse taper
 210206: ISO40-ER40 collet set, 15 pcs
 220404: ISO40-MT4 reduction sleeve
 250160: Milling vice 160mm
 250200: Milling vice 200mm
 260160: Rotary table 160 mm
 260200: Rotary table 200mm
 270014: 16 mm T slotted, M14 mold set



MODEL	FR4
Main Motor Power	Vertical: 3,75k W, Horizontal: 2,2kW, 400 V
Working Type	Vertical: belt drive, Horizontal: geared
Coolant pump Power	90 W
Table Size	1370x305 mm
Table Capacity	300 Kg
X Axis Travel	880 mm
Y Axis Travel	420 mm
Z Axis Travel	435 mm
T-slots	3x16
Spindle Taper	Vertical: ISO 40; Horizontal: ISO40
Spindle Speed	Vertical: 66-4540 rpm; Horizontal: 40-1300 rpm
Number of Steps	Vertical: 16; Horizontal: 12
Spindle Quill Diameter	105 mm
Spindle Quill Travel	127 mm
Head Swivel Angle	Right/Left $\pm 90^\circ$, Front/Back $\pm 45^\circ$
Spindle-Table Distance	0-380 mm
Spindle to Column Distance	210 mm
Dimensions (L x W x H)	1700x1600x2250 mm
Net Weight	1500 Kg



UNIVERSAL MILLING MACHINE

FR5 servo

- 3-axis Motor – automatic feed
- Digital 3 axis Readout
- Taiwan powerful milling head
- Height-adjustable protective screen with micro switch (Height-adjustable protection guard with (safety) switch)
- Control panel
- Automatic lubrication system
- Cooling system
- Machine lamp
- Chip tray
- CE Standard

Standard Accessories

- Mold set
- Clamping tools
- Milling (collet) chuck set
- 11-part ISO 40
- Operating tools

Optional Accessories:

- 210106: ISO40-B16 morse taper
- 210206: ISO40-ER40 collet set, 15 pcs
- 220404: ISO40-MT4 reduction sleeve
- 250160: Milling vice 160mm
- 250200: Milling vice 200mm
- 260160: Rotary table 160 mm
- 260200: Rotary table 200mm
- 270014: 16 mm T slotted, M14 mold set

3 AXIS
servo
DRIVE



MODEL	FR5 SERVO
Main Motor Power	Vertical: 3,75 kW; Horizontal: 3,0 kW, 400 V
Cooling Pump Power	90W
Table Size	1370x320 mm
Table Capacity	300 Kg
X Axis Travel	1000 mm
Y axis Travel	360 mm
Z Axis Travel	400 mm
T-Slots	3x14 mm
Spindle Taper	Vertical: ISO 40; Horizontal: ISO40
Spindle Speed	Vertical: 65-4660 rpm; Horizontal: 35-1500 rpm
Number of Steps	Vertical: 16; Horizontal: 12
Spindle Quill Diameter	105 mm
Spindle Quill Travel	127 mm
Quill Feed	0,03-0,08-0,2 mm/min
Head Tilt Angle	±45°
Spindle-Table Distance	Vertical: 200-600 mm; Horizontal: 35-435 mm
Spindle to Column Distance	200 mm
Table Feed Automatic	X,Y: 30-830 mm/min; Z: 23-625 mm/min
Rapid Traverse	X,Y: 1335 mm/min; Z: 1000 mm/min
Table Power Feed Motor	10 N.m (Servo)
RAM Travel	450 mm
Dimensions (L x W x H)	1820x1680x2350 mm
Net Weight	1800 kg

UNIVERSAL MILLING MACHINE

FR5 Pro

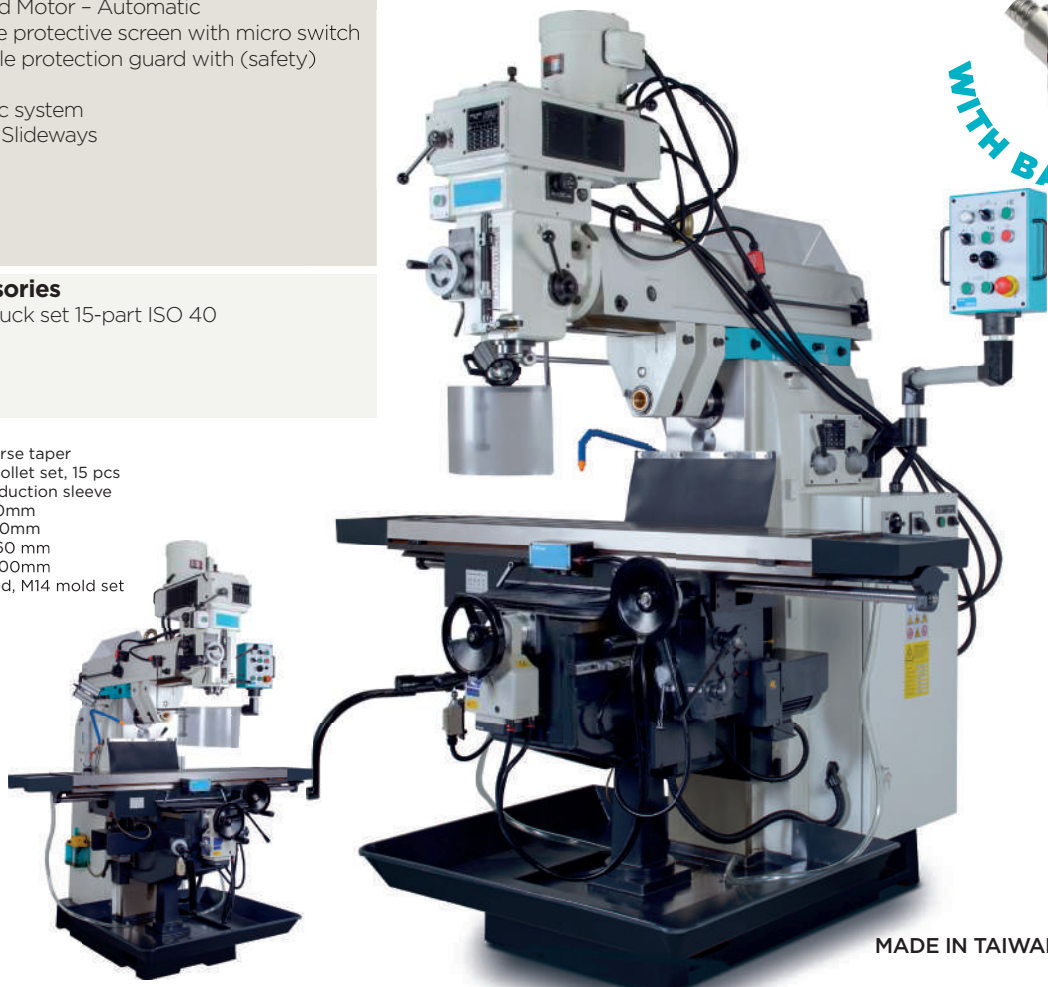
- X-axis Automatic Feed with Ball Screw
- Y-axis Electric motor with Ball Screw
- Z-axis Rapid Feed Motor – Automatic
- Height-adjustable protective screen with micro switch (Height-adjustable protection guard with (safety) switch)
- Schneider electric system
- Turcite-B coated Slideways
- Cooling system
- Machine lamp
- Chip tray
- CE Standard

Standard Accessories

- Milling (collet) chuck set 15-part ISO 40
- Mold set
- Milling vice
- Operating tools

Optional Accessories:

- 210106: ISO40-B16 morse taper
- 210206: ISO40-ER40 collet set, 15 pcs
- 220404: ISO40-MT4 reduction sleeve
- 250160: Milling vice 160mm
- 250200: Milling vice 200mm
- 260160: Rotary table 160 mm
- 260200: Rotary table 200mm
- 270014: 16 mm T slotted, M14 mold set



MADE IN TAIWAN

MODEL	FR5 Pro
Main Motor Power	Vertical: 5 Hp(3,75 kW); Horizontal: 5 HP (3,75 kW), 400 V
Cooling Pump Power	1/8 Hp (100W)
Table Size	1470x300 mm
Table Capacity	300 Kg
X Axis Travel	1130 mm
Y axis Travel	400 mm
Z Axis Travel	450 mm
T-Slots	3x16 mm
Spindle Taper	Vertical: ISO 40; Horizontal: ISO40
Spindle Speed	Vertical: 75-3600 rpm; Horizontal:65-1500 rpm
Number of Steps	Vertical: 16; Horizontal: 12
Spindle Quill Diameter	110 mm
Spindle Quill Travel	140 mm
Quill Feed	0,04-0,08-0,15 mm/min
Head Tilt Angle	±90°
Spindle-Table Distance	95-545 mm
Spindle to Column Distance	190-690 mm
Table Feed	X: 3/4 Hp; Y,Z: 1/2 Hp
RAM Travel	500 mm
Dimensions (L x W x H)	1750x1620x2350 mm
Net Weight	2350 kg



UNIVERSAL MILLING MACHINE

FR6 servo

3 AXIS
servo
DRIVE

- 3-axis Servo Motor – automatic feed
- Digital 3-axis Readout
- Height-adjustable protective screen with micro switch (Height-adjustable protection guard with (safety) switch)
- Taiwan powerful milling head
- Control Panel
- Automatic Lubrication System
- Cooling system
- Machine lamp
- Chip tray
- CE Standard

Standard Accessories

- Mold set
- Clamping tools
- Milling (collet) chuck set 11-part ISO 40
- Operating tools

Optional Accessories:

- 210106: ISO40-B16 morse taper
- 210206: ISO40-ER40 collet set, 15 pcs
- 220404: ISO40-MT4 reduction sleeve
- 250160: Milling vice 160mm
- 250200: Milling vice 200mm
- 260160: Rotary table 160 mm
- 260200: Rotary table 200mm
- 270016: 18 mm T slotted, M16 mold set

Optional
accessory,
Table
protection plate



MODEL	FR6 servo
Main Motor Power	Vertical: 5,5 kW, Horizontal: 5,5 kW, 400 V
Cooling Pump Power	90 W
Table Size	1600x360 mm
Table Capacity	400 Kg
X Axis Travel	1300 mm
Y axis Travel	300 mm
Z Axis Travel	400 mm
T-Slots	3x18 mm
Spindle Taper	Vertical: ISO40, Horizontal: ISO50
Spindle Speed	Vertical:60-3600 rpm, Horizontal 60-1800 rpm
Number of Steps	Vertical:12, Horizontal:12
Spindle Quill Travel	127 mm
Head Tilt Angle	± 90°
Spindle-Table Distance	Vertical: 200-650 mm, Horizontal:20-470 mm,
Table Feed Automatic	X:,30-750 mm/min, Y: 20-500 mm/min, Z:15-371 mm/min
Table Feed	X:1200 mm/min, Y: 800 mm/min, Z:600 mm/min
RAM Travel	550 mm
Table Power Feed Motor	15 N.m (Servo)
Dimensions (L x W x H)	2500x2100x2500 mm
Net Weight	2850 Kg



UNIVERSAL MILLING MACHINE

FR7 Pro | FR7V Pro

- X and Y axes ball screw, Japanese origin
- Yaskawa brand servo motor, automatic
- Z axis rapid motor-auto
- Height adjustable chuck guard with safety switch
- Schneider electrical system
- Turcite-B coated skids
- Lighting
- Cooling system
- Chip tank
- CE Standards

Standard Accessories

- Mold set
- Clamping tools
- Milling (collet) chuck set 11-part ISO 40
- Operating tools

FR7V Pro Vario (Stepless) Speed Adjustment

Optional Accessories:
270016: 18 mm T slotted, M16 mold set



FR7 Pro



FR7V Pro



MADE IN TAIWAN

MODEL	FR7 Pro	FR7V Pro
Main Motor Power	Vertical: 3,75 kW, Horizontal: 3,75 kW, 400 V	
Table Size	1470x300 mm	
Table Capacity	400 Kg	
X Axis Travel	1120 mm	
Y axis Travel	500 mm	
Z Axis Travel	440 mm	
T-Slots	3x18 mm	
Spindle Taper	Vertical: ISO40, Horizontal: ISO40	
Spindle Speed	Vertical:62-3000 rpm, Horizontal 60-1440 rpm	Vertical:60-3600 rpm(vario), Horizontal 60-1800 rpm
Number of Steps	Vertical:16, Horizontal:9	Vertical:Vario, Horizontal:9
Spindle Quill Travel	140 mm	
Head Tilt Angle	± 45°	
Spindle-Table Distance	Vertical: 85-505 mm, Horizontal:25-395 mm,	
Table Feed Automatic	X,Y:750 W servo motor, Z:750 W rapid motor	
Dimensions (L x W x H)	2070x2050x2600 mm	
Net Weight	2600 Kg	2700 Kg

UNIVERSAL MILLING MACHINE

FX200 servo

3 AXIS
servo
DRIVE



- 3-axis Servo Motor – automatic feed
- Digital 3-axis Readout
- Height-adjustable protective screen with micro switch (Height-adjustable protection guard with (safety) switch)
- Control Panel
- Automatic Lubrication System
- Cooling system
- Machine lamp
- Chip tray
- CE Standard

Standard Accessories

- Mold set
- Clamping tools
- M24 Shaft puller
- Milling (collet) chuck set
- 8-part ISO 50
- ISO 50-27 mandrel
- ISO 50-32 mandrel
- Operating tools

Optional Accessories:

- 210107: ISO50-B16 morse taper
- 210207: ISO40-ER40 collet set, 15 pcs
- 250160: Milling vice 160mm
- 250200: Milling vice 200mm
- 260160: Rotary table 160 mm
- 270014: 16 mm T slotted, M14 mold set

MODEL	FX200 SERVO
Main Motor Power	Vertical: 4 kW, Horizontal:5.5 kW 400 V
Cooling Pump Power	90 W
Table Size	1600X360 mm
Table Capacity	400 Kg
X Axis Travel	1300 mm
Y axis Travel	300 mm
Z Axis Travel	400 mm
T-Slots	3x18mm
Spindle Taper	Vertical: ISO50, Horizontal: ISO50
Spindle Speed	Vertical:60-1750 rpm, Horizontal: 60-1800 rpm
Number of Steps	Vertical: 12 Horizontal:12
Head Tilt Angle	± 360°
Spindle-Table Distance	Vertical 190-590 mm, Horizontal:20-420 mm
Spindle-Column Distance	380-930 mm
Table Tilt Angle	± 35°
Table Feed Automatic	X:30-750 mm/min, Y: 20-500 mm/min, Z:15-375 mm/min
Rapid Traverse	X:1200 mm/min, Y: 800 mm/min, Z:600 mm/min
Table Feed Motor	10 N.m (Servo)
RAM Travel	550 mm
Dimensions (L x W x H)	2000x2100x2000 mm
Net Weight	2900 Kg

HEAVY TYPE MILLING MACHINE

FX500.servo

3 AXIS
servo
DRIVE

Separate motor
on each axis

3 AXIS
WITH BALL SCREWS



Optional Accessories:
210107: ISO50-B16 morse taper
210207: ISO40-ER40 collet set, 15 pcs
220504: ISO50-MT2 reduction sleeve
250200: Milling vice 200mm
260200: Rotary table 200 mm
270016: 18 mm T slotted, M16 mold set



Features:

- Automatic feeding with 3-axes separate Servo Motors
- 3-axes with high precision ball screws
- Extra supporting column
- Precision table with 1800 kg max load capacity
- Powerful Milling Head
- Digital 3-axis Readout
- Height-adjustable protective screen with micro switch (Height-adjustable protection guard with (safety) switch)
- Control Panel
- Automatic Lubrication System
- Cooling system
- Machine lamp
- Chip tray
- CE Standard

Standard Accessories

- Mold set
- Clamping tools
- M24 Shaft puller
- Milling (collet) chuck set
- 8-part ISO 50
- ISO 50-27 mandrel
- ISO 50-32 mandrel
- Operating tools

MODEL	FX500 servo
Main Motor Power	7.5 kW 400 V
Cooling Pump Power	100 W
Table Size	2000x500 mm
Table Capacity	1800 Kg
X Axis Travel	1400 mm
Y axis Travel	700 mm
Z Axis Travel	500 mm
T-Slots	5x18 mm
Spindle Taper	ISO50
Spindle Speed	30-2050 rpm
Number of Steps	27
Head Tilt Angle	360°
Spindle-Table Distance	50-550 mm
Spindle-Column Distance	47-745 mm
Table Feed Automatic	X,Y: 10-1000 mm/mim, Z:5-500 mm/mim
Rapid Traverse	X,Y: 2200 mm/mim, Z:1100 mm/mim
Table Feed Motor	X,Y: 15 N.m, Z: 18 N.m (Servo)
RAM Travel	500 mm
Max Load Capacity	1800 Kg
Dimensions (L x W x H)	2650x2850x2100 mm
Net Weight	5500 Kg

BED TYPE MILLING MACHINE

FH20 | FH25 | FH30

- High-quality casting
- Strong body, rigid structure
- Special bearing system that extends Y-axis movement
- High-quality shaft bearings
- Special spindle/shaft made from high-quality steel alloy
- Easy-to-use ergonomic control panel
- Automatic lubrication
- Cooling system

Optional Accessories:

- 210107** ISO50-B16 milling arbor
- 210207** ISO50-ER40 collet set, 15 pieces
- 220504** ISO50-MK2 reduction sleeve
- 250200** 200 mm milling vise
- 260200** 200 mm rotary table for milling
- 270016** 18 mm T-slot, M16 clamping kit



MODEL	FH20	FH25	FH30
Main Motor Power	22/26 Kw		
Table Size	1000x2000mm	1000x2500mm	1000x3000mm
Max. Load Capacity	4000kg	5000kg	6000kg
T-Slot Size	7x22x140mm		
X, Y, Z Axis Travel	2100x1000x1400mm		
X, Y, Z Cutting Feed Rate	1-8000 mm/min		
X, Y, Z Rapid Traverse Rate	12,12,12 m/min		
Spindle-to-Table Distance	100-1500 mm		
Spindle Taper	ISO50		
Max. Torque	475 Nm		
Spindle Speed	2000 dev/dk		
Magazine Type & Capacity	24 Magazyn / Arm Type		
Max. Tool Diameter	Ø105/200mm		
Max. Tool Length	300 mm		
Max. Tool Weight	15 kg		
Positioning Accuracy	0.02/0.015/0.02mm	0.025/0.015/0.02mm	0.03/0.015/0.02mm
Repeat Positioning Accuracy	0.012/0.01/0.012mm	0.014/0.01/0.012mm	0.015/0.01/0.012mm
Machine Dimensions	4200x2500x2500	5200x2500x2500	6500x2500x2500
Machine Weight	12000 kg	15000kg	18000 kg

BORING AND MILLING MACHINE

FW110 | FW110L | FW130

- High quality casting
- Strong body, rigid structure
- Special bearing system that expands Y axis travel
- High-quality quill bearing
- Special quill made of high quality steel alloy
- Easy-to-use ergonomic control panel
- automatic lubrication
- Cooling system

Standard Accessories

- Newal Brand Digital Readout in X,Y axis
- Reduction Sleeve ISO50/MK5
- M8-M24 Tapping Quill
- Drilling Quill
- Collet Set

Optional Accessories:

- End support
(with digital display device, Z axis stroke 850 mm)



MODEL	FW110	FW110L	FW130
Motor Power	7,5 KW	7,5 KW	15 KW
Diameter of Quill	110 mm	110 mm	130 mm
Taper of Quill	ISO 50	ISO 50	ISO 50
Max Quill Torque	1000 Nm	1000 Nm	2000 Nm
Speed of Quill	9-1000 rpm	9-1000 rpm	6.6-755 rpm
Table Length (X) Travel	1000 mm	1600 mm	2000 mm
Table Transverse (Y) Travel	900 mm	1400 mm	1600 mm
Vertical (Z) Travel of the Head	1400 mm	1400 mm	2000 mm
Table Dimensions	1100x1000 mm	1200x1100 mm	1600x1400 mm
Table Capacity	2.500 Kg	4.000 Kg	10.000 Kg
T Slot Dimensions and Quantity	22mm / 7	22mm / 7	28mm / 7
Machine Dimensions	5170x2480x2920 mm	5215x3500x3300 mm	6560x4560x4085 mm
Weight	12.000 Kg	19.600 Kg	35.000 Kg

VERTICAL SLOTTING MACHINE

PV5020E | PV5032E | PV5040E | PV5050E

- High quality casting
- Strong body, rigid structure
- Automatic motorized X/Y axis travel
- Lighting system
- **Schneider Electric** Electrical System
- Emergency Stop Button

Standard Accessories

- 3-jaw chuck 250mm (PV5020E)
- 3-jaw chuck 315mm (PV5032E, PV5040E, PV5050E)
- Operating tools



MODEL	PV5020E	PV5032E	PV5040E	PV5050E
Motor Power	3.0 kW 400 V	4.0 kW 400 V	4.0 kW 400 V	7.5 kW 400 V
Stroke Length(max)	200 mm	320 mm	400 mm	500 mm
Spindle Speed	32,50,80,125 rpm	20,32,50,80 rpm		9,12.5,18,25,36,50 rpm
Tilt Angle	0°-8°			±10°
Distance Between Table and Spindle (max)	320 mm	490 mm	315 mm	740 mm
Table Diameter	Ø 500 mm	Ø 630 mm		1000 mm
X Axis Travel	480/500 mm	480/630 mm	620 mm	660 mm
Y Axis Travel	480/500 mm	480/630 mm	560 mm	1000 mm
Table Rotation Angle	360°			
Forward-Backward, Right-Left Automatic Feeding	0.08-1.21 mm			0.1-1.2 mm
Table Feed Range	0.052-0.783 mm			3-36 mm
Maximum Load Capacity	500 Kg			2000 Kg
Speed	1430 rpm	960 rpm		1400 rpm
Tool Holder Rotation Angle	360°			
Machine Dimensions (LxWxH)	1920x1300x2000 mm	2180x1500x2300 mm	2290x1525x2485 mm	3480x2085x3307 mm
Net Weight	2200 Kg	3500 Kg	3700 Kg	10.300 Kg

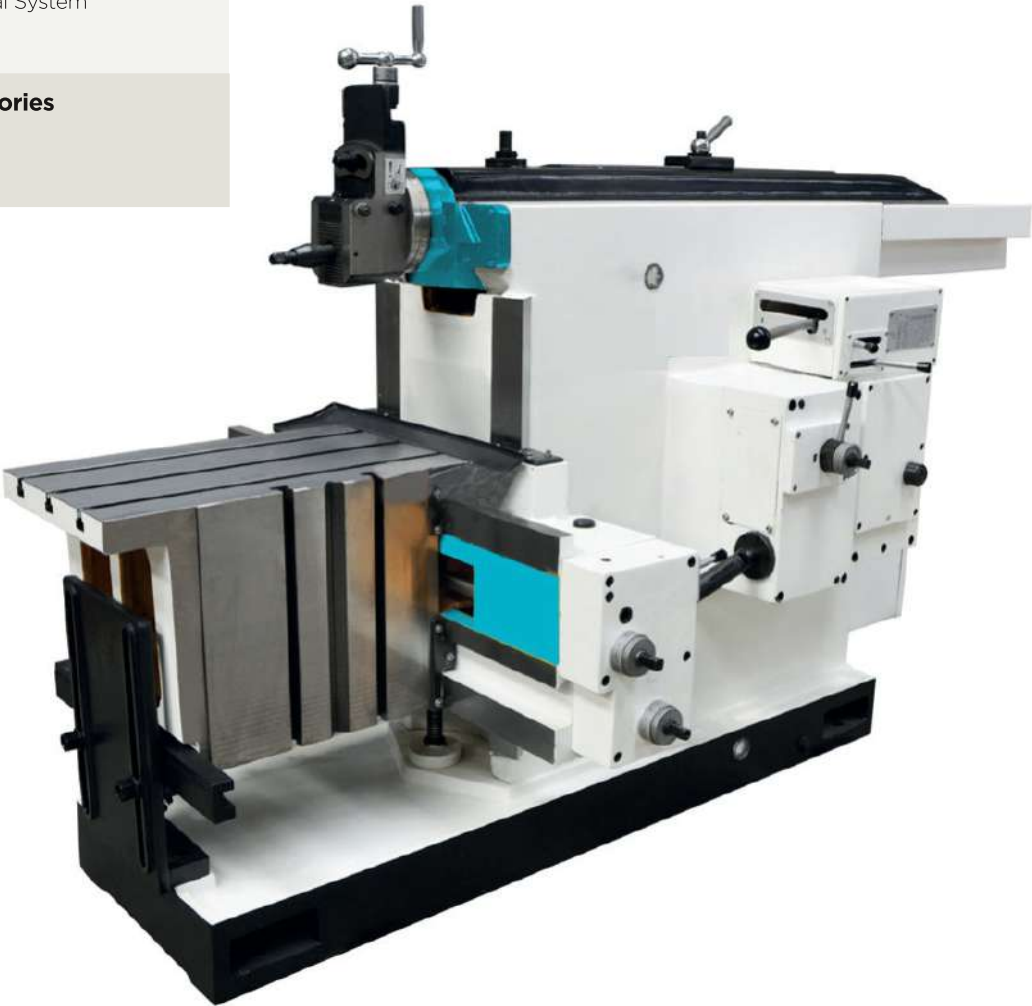
SHAPER MACHINE

PH350A | PH500A | PH630A | PH850A

- High quality casting
- Strong body, rigid structure
- Lighting system
- Schneider Electric Electrical System

Standard Accessories

- Clamping tools
- Wedge tip
- Operating tools



MODEL	PH350A	PH500A	PH630A	PH850A
Main motor power	1.5 kW	3 kW		5,5 kW
Maximum planing length	350 mm	500 mm	630 mm	850 mm
Distance from the bottom of the sleeper to the working table	330 mm	385 mm		400 mm
Lateral Travel	400 mm	630 mm		710 mm
Vertical Travel	270 mm	360 mm		360 mm
Tool frame travel	110 mm	120 mm		160 mm
Sleeper recipocating times(per minute	32/50/80/125	14/20/28/40/56/80		17/24/35/50/70/100
The maximum size (width x thichness) of the knife	20x30 mm	20x30 mm		30x45 mm
T slot Dimensions and Quantitiy	14 mm	18 mm		22
Head rotation angle	±60 °			
Table rotation angle	±90°(without clamp), ±55°(with clamp)eli			
Table Dimensions	350x300 mmm	440x360 mm	630x400 mm	800x450 mm
Machine Dimensionsi (GxUxY)	1530x930x1370	2000x1250x1400		2950x1325x1693 mm
Weight	1250 kg	1760 kg	1870 kg	3000 kg

BENCH LATHE MACHINE

CR2140V

Features:

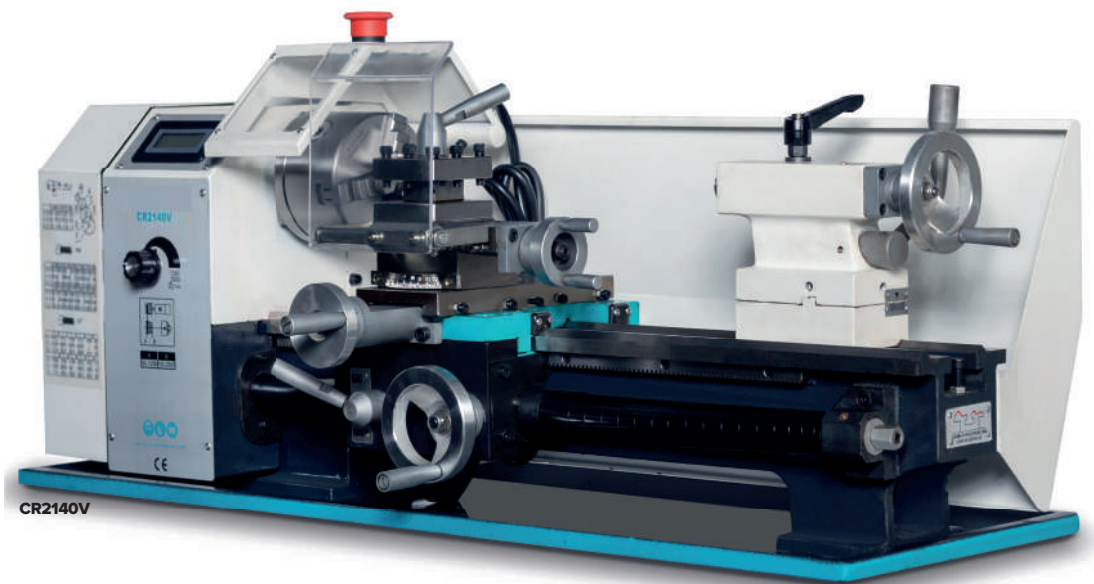
- Hardened and polished guideways
- Powerful and precision spindle
- Right / Left Rotation
- Automatic Carriage
- Threading Mode
- Splashguard (Rear Safety Guard)
- Emergency Stop Button
- Chip tray
- CE Standard



Vario Speed Adjustment

Standard Accessories

- 3 jaw lathe chuck – Ø80 mm (CR1530V)
- 3 jaw lathe chuck – Ø100 mm (CR2140V)
- Fixed Center
- Travelling Center
- Change Gear Wheels for Thread Cutting (Replaceable Gear Set)
- Splashguard (Rear Safety Guard)
- Chip tray
- Operating Tools



MODEL	CR2140V
Main Motor Power	600 W, 230 V
Swing Diameter over Machine Bed	210 mm
Bed Width	100 mm
Center Width	400 mm
Spindle Speed	50-2500 rpm
Number of Steps	2 / Variable
Spindle Taper	MT2
Spindle Bore	21 mm
Compound Rest Travel	55 mm
Cross Slide Travel	75 mm
Tailstock Spindle (Taper)	MT2
Tailstock Sleeve Stroke	65 mm
Longitudinal Feed	0.1-0.2 mm/rev
Pitch - metric	0.25-3 mm/rev
Pitch - inches	10-44
Tool Holder	10 mm
Dimensions (L x W x H)	820x480x360 mm
Weight	90 Kg

Optional Accessories:

- 310101: MT1 Live center (CR1530V)
- 310102: MT2 Live center (CR2140V)
- 320101: 12X50MM Quick change tool holder set (CR2140V)

BENCH LATHE MACHINE

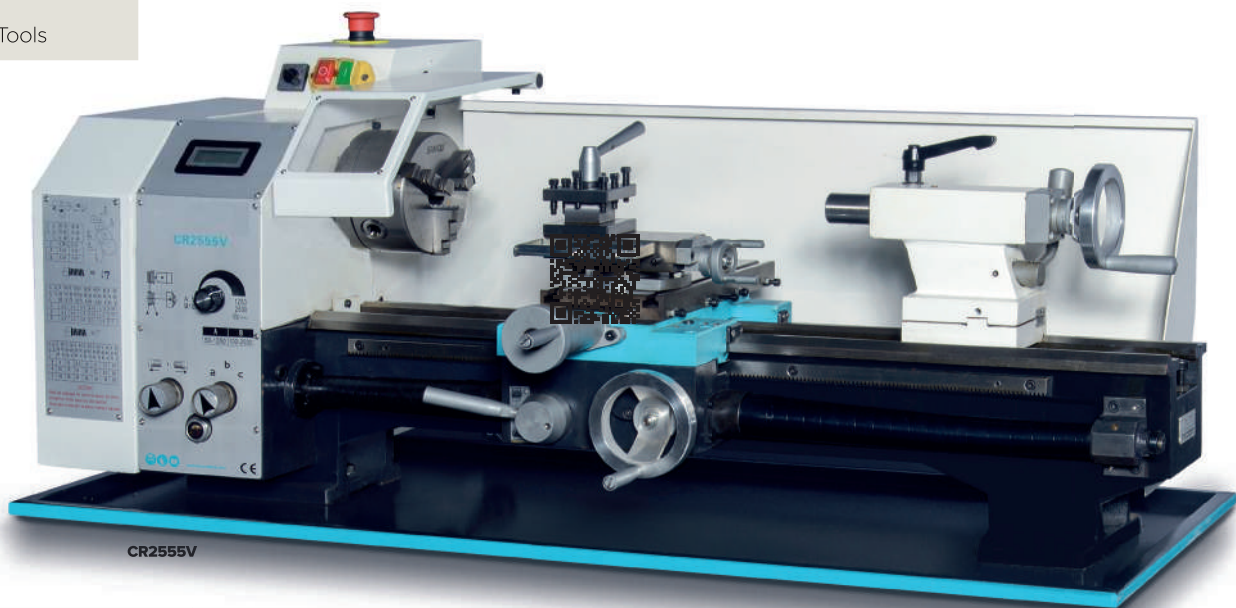
CR2555V

Features:

- Hardened and polished guideways
- Powerful and precision spindle
- Right / Left Rotation
- Automatic Carriage
- Threading Mode
- Splashguard (Rear Safety Guard)
- Emergency Stop Button
- Chip tray
- CE Standard

Standard Accessories

- 3 jaw lathe chuck
Ø125 mm
- Fixed Center
- Travelling Center
- Change Gear Wheels
for Thread Cutting
(Replaceable Gear Set)
- Splashguard (Rear
Safety Guard)
- Chip tray
- Operating Tools



MODEL	CR2555V
Main Motor Power	1.1 kW, 230 V
Swing Diameter over Machine Bed	250 mm
Bed Width	135 mm
Center Width	550 mm
Spindle Speed	50-2500 rpm
Number of Steps	Variable
Spindle Taper	MT4
Spindle Bore	26 mm
Compound Rest Travel	70 mm
Cross Slide Travel	110 mm
Tailstock Spindle (Taper)	MT2
Tailstock Sleeve Stroke	65 mm
Longitudinal Feed	0.07-0.4 mm/rev
Pitch - metric	0.2-0.4
Pitch - inches	8-56
Tool Holder	12
Dimensions (L x W x H)	1250x585x475 mm
Weight	125 Kg

Optional Accessories:
395055 Stand
310102: MT2 Live center
320102: 20X90mm Quick change tool holder set



395055: Lathe stand

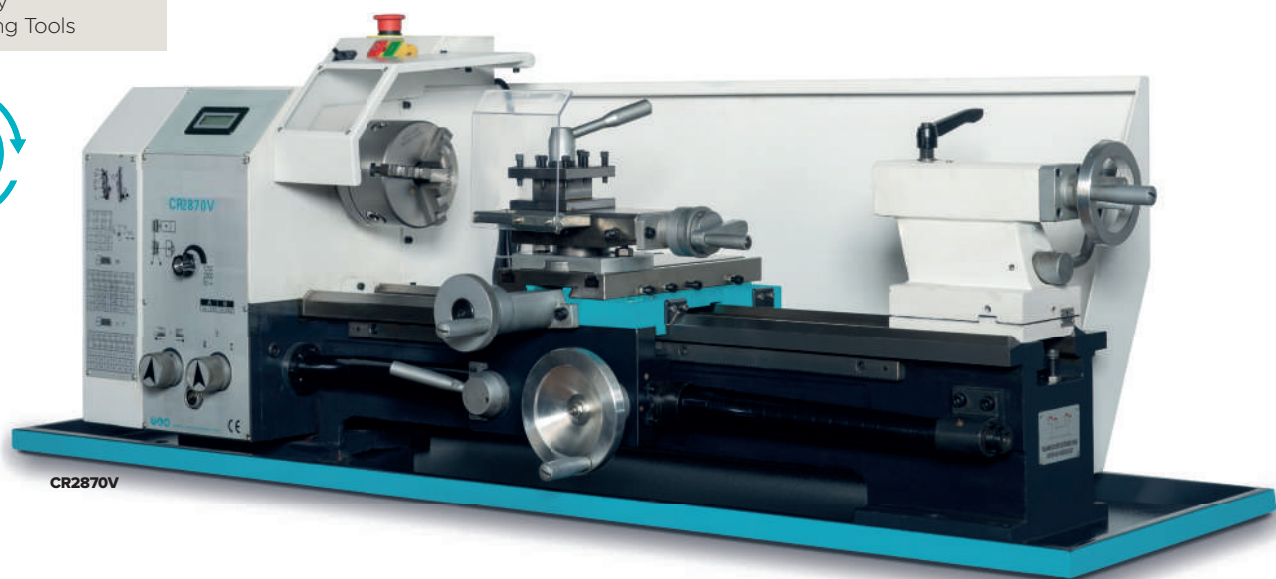
BENCH LATHE MACHINE

CR2870V

- Hardened and polished guideways
- Powerful and precision spindle
- Right / Left Rotation
- Automatic Carriage
- Threading Mode
- Splashguard (Rear Safety Guard)
- Emergency Stop Button
- Chip tray
- CE Standard

Standard Accessories

- 3 jaw lathe chuck
Ø125 mm
- Fixed Center
- Travelling Center
- Change Gear Wheels
for Thread Cutting
(Replaceable Gear Set)
- Splashguard (Rear
Safety Guard)
- Chip tray
- Operating Tools



CR2870V

Optional Accessories:

- 395070** Stand
- 310102:** MT2 Live center
- 320102:** 20X90mm Quick change tool holder set



395070: Lathe stand

MODEL	CR2870V
Main Motor Power	1.5 kW, 230 V
Swing Diameter over Machine Bed	280 mm
Bed Width	180 mm
Center Width	700 mm
Spindle Speed	50-2500 rpm
Number of Steps	Variable
Spindle Taper	MT4
Spindle Bore	26 mm
Compound Rest Travel	60 mm
Cross Slide Travel	160 mm
Tailstock Spindle (Taper)	MT2
Tailstock Sleeve Stroke	85 mm
Longitudinal Feed	0.07-0.4 mm/rev
Pitch - metric	0.2-3.5 mm
Pitch - inches	8-56
Tool Holder	16 mm
Dimensions (L x W x H)	1370x640x535
Weight	200 Kg

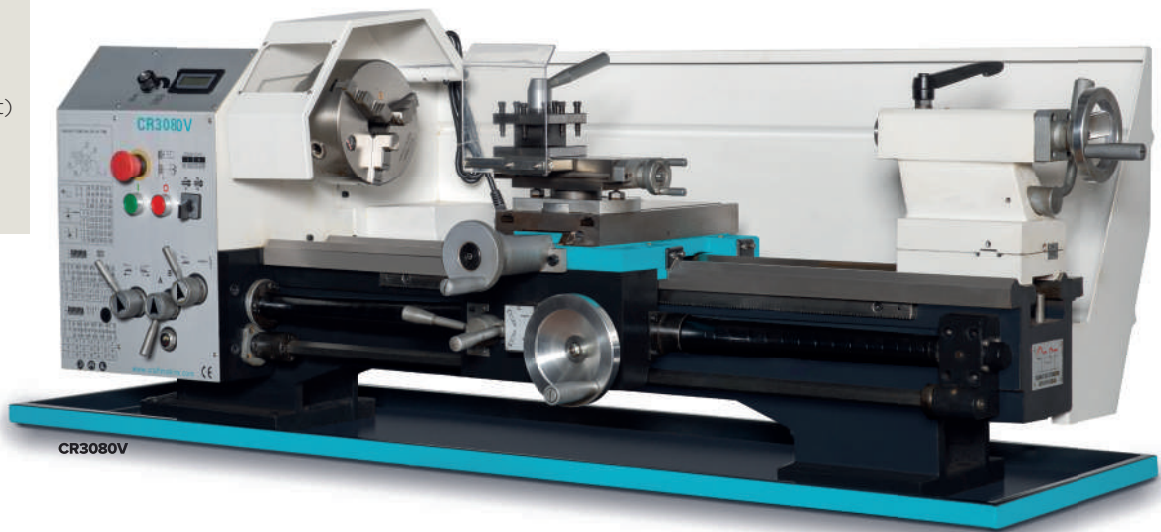
BENCH LATHE MACHINE

CR3080V

- Hardened and polished guideways
- Powerful and precision spindle
- Right / Left Rotation
- Automatic Carriage
- Threading Mode
- Splashguard (Rear Safety Guard)
- Emergency Stop Button
- Chip tray
- CE Standard

Standard Accessories

- 3 jaw lathe chuck
Ø160 mm
- Fixed Center
- Travelling Center
- Change Gear Wheels
for Thread Cutting
(Replaceable Gear Set)
- Splashguard (Rear
Safety Guard)
- Chip tray
- Operating Tools



MODEL	CR3080V
Main Motor Power	1.5 kW, 230 V
Swing Diameter over Machine Bed	300 mm
Swing Diameter over Cross Slide (Carriage)	190 mm
Bed Width	180 mm
Center Width	800 mm
Spindle Speed	80-2000 rpm
Number of Steps	Variable
Spindle Taper	MT5
Spindle Bore	38 mm
Compound Rest Travel	61 mm
Cross Slide Travel	150 mm
Tailstock Spindle (Taper)	MT3
Tailstock Sleeve Stroke	70 mm
Longitudinal Feed	0.085-0.83 mm/rev
Cross Feed	0.01-0.1 mm/rev
Pitch - metric	0.2-3.5 mm
Pitch - inches	8-48 mm
Tool Holder	16 mm
Dimensions (L x W x H)	1500x720x680 mm
Weight	270 Kg

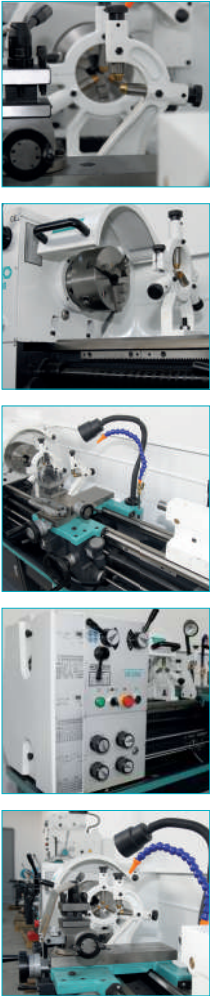
- Optional Accessories:
- 395080 Stand
 - 310102: MT2 Live center
 - 320103: 20X100mm Quick change tool holder set



395080: Lathe stand

CONVENTIONAL LATHE MACHINE

CR3290 | CR3290 DK



CR3290DK With 2 Axis
Digital Readout DRO

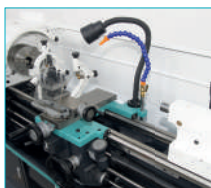
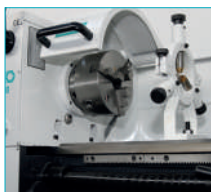
- Hardened and polished guideways
 - Safety Guard for Lathe Chuck with micro switch
 - Emergency Stop Button
 - Siemens Electrical System
 - Lathe Foot Brake
 - Protective Chuck and Tool Holder Shields
 - Coolant System
 - CE Standard
- Standard Accessories**
- 3 jaw lathe chuck - Ø200 mm
 - 4 jaw lathe chuck - Ø200 mm
 - Face plate - Ø250 mm
 - Steady Rest
 - Follow Rest
 - MT3 live center
 - MT3 dead center
 - MT5/MT3 Reduction Sleeves
 - Thread Gauge
 - Quadruple tool holder
 - Halogen machine lamp
 - Replaceable Gear Set
 - Operating Tools

MODEL	CR3290 / CR3290 DK
Main Motor Power	1.5 kW, 400 V
Swing Diameter over Machine Bed	320 mm
Swing Diameter over Cross Slide (Carriage)	190 mm
Bed Width	181 mm
Distance between Centers (Center Width)	920 mm
Spindle Speed	65-1800 rpm
Number of Steps	18
Spindle Taper	MT6
Spindle Holder	D1-4
Spindle Bore	38 mm
Compound Rest Travel	85 mm
Cross Slide Travel	162 mm
Tailstock Spindle (Taper)	MT3
Tailstock Sleeve Stroke	100 mm
Longitudinal Feed	0,052-1,392 mm/rev
Cross Feed	0,014-0,380 mm/rev
Pitch - metric	0,4-7mm
Pitch - inches	4-56 mm
Tool Holder	16x16 mm
Dimensions (L x W x H)	1985x750x1320 mm
Weight	410 Kg

Optional Accessories:
310103: MT3 Live center
320103: 20X100mm Quick change tool holder set

CONVENTIONAL LATHE MACHINE

CR3610 | CR3610 DK



CR3610



CR3610DK
With 2 Axis Digital
Readout DRO

Features:

- Hardened and grinded z-axis guideway
- **52 mm spindle**
- Safety Guard for Lathe Chuck with micro switch
- Emergency Stop Button
- Siemens Electrical System
- Lathe Foot Brake
- Protective Chuck and Tool Holder Shields
- Coolant System
- CE Standard

Standard Accessories

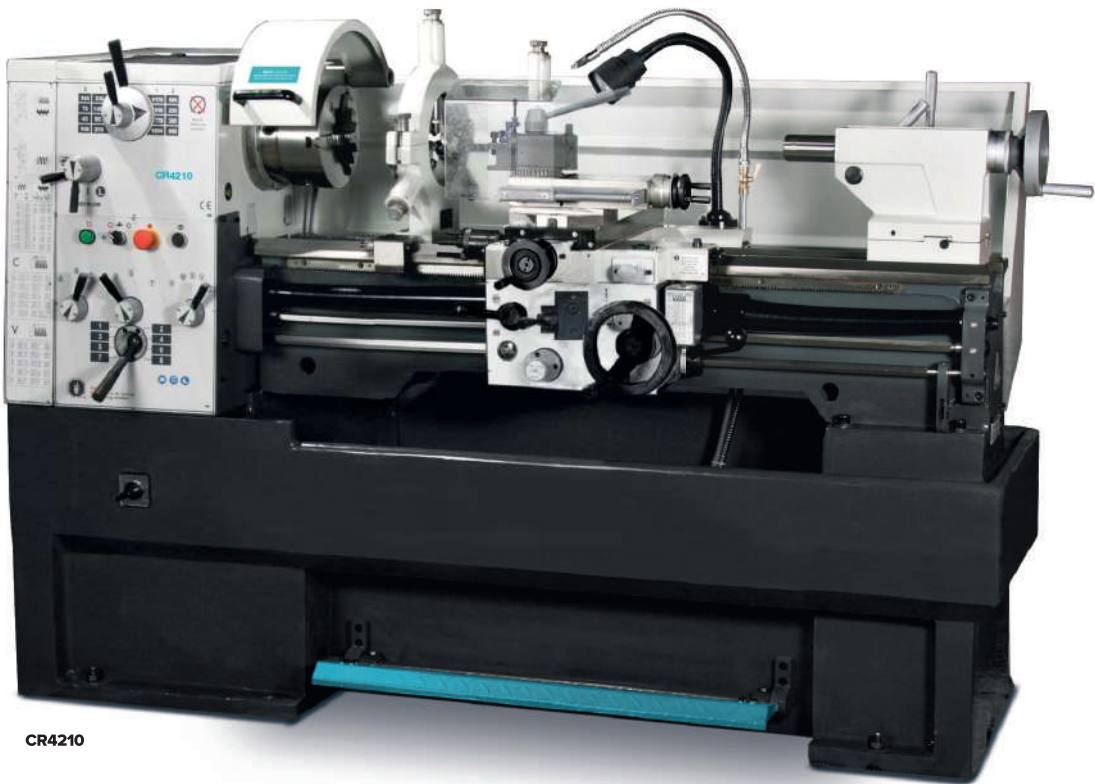
- 3 jaw lathe chuck - Ø200 mm
- 4 jaw lathe chuck - Ø200 mm
- Face plate - Ø250 mm
- Steady Rest
- Follow Rest
- MT3 live center
- MT3 dead center
- MT5/MT3 Reduction Sleeves
- Thread Gauge
- Quadruple tool holder
- Halogen machine lamp
- Quadruple tool holder
- Replaceable Gear Set
- Operating Tools

MODEL	CR3610 / CR3610 DK
Main Motor Power	1.5 kW, 400 V
Swing Diameter over Machine Bed	360 mm
Swing Diameter over Cross Slide (Carriage)	223 mm
Bed Width	187 mm
Distance between Centers (Center Width)	1000 mm
Spindle Speed	70-2000 rpm
Number of Steps	8
Spindle Taper	MT6
Spindle Holder	D2-5
Spindle Bore	52 mm
Compound Rest Travel	130 mm
Cross Slide Travel	160 mm
Tailstock Spindle (Taper)	MT3
Tailstock Sleeve Stroke	120 mm
Longitudinal Feed	0,052-1,392 mm/rev
Cross Feed	0,014-0,380 mm/rev
Pitch - metric	0,4-7mm
Pitch - inches	4-56 mm
Tool Holder	16x16 mm
Dimensions (L x W x H)	1930x725x1350 mm
Weight	610 Kg

Optional Accessories:
310103: MT3 Live center
320103: 20x100mm Quick change tool holder set

CONVENTIONAL LATHE MACHINE

CR4210 | CR4210 DK



CR4210

Features:

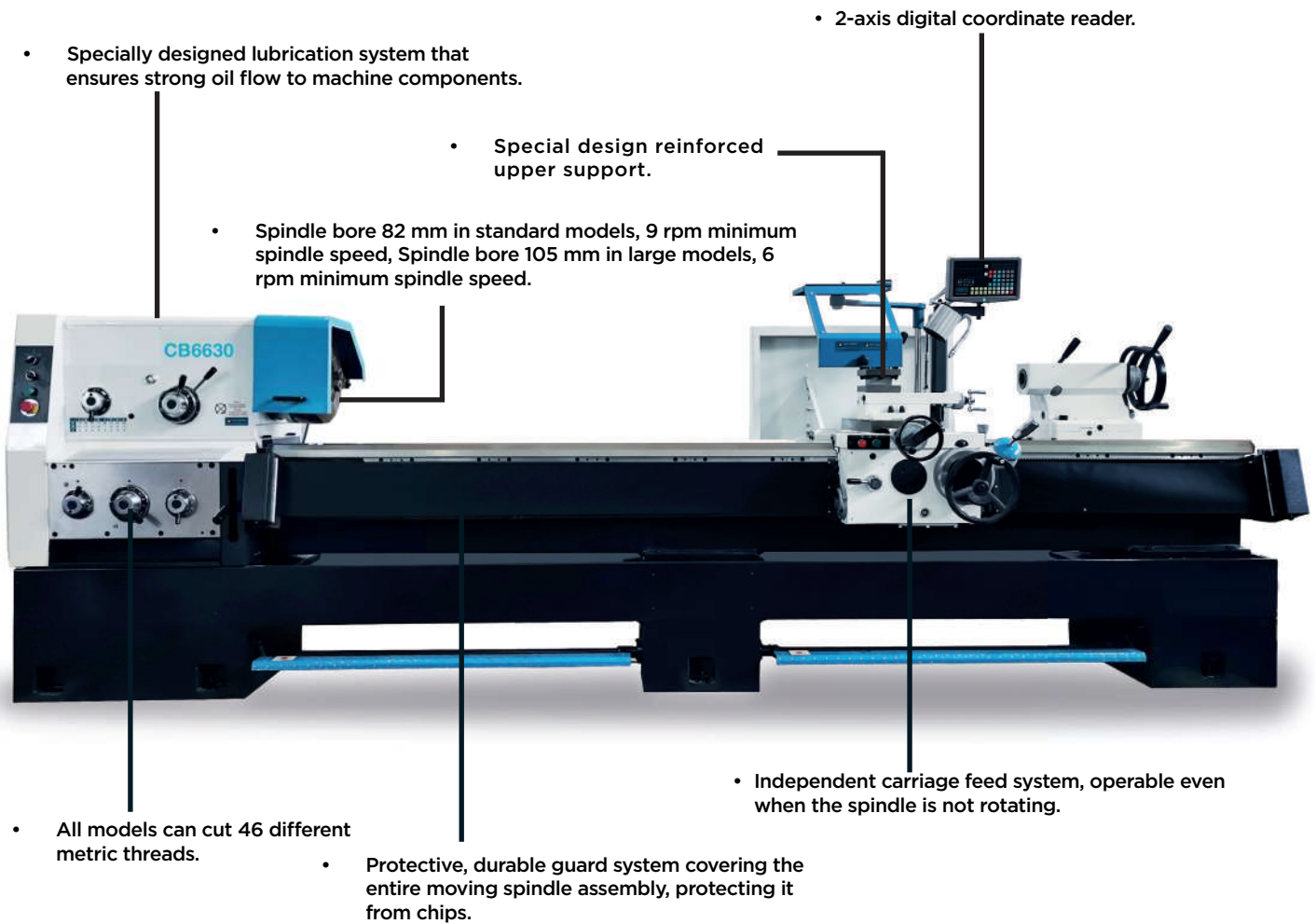
- Hardened and grinded z-axis guideway
- **Heavy-duty and rigid cast iron machine bed**
- Safety Guard for Lathe Chuck with micro switch
- Emergency Stop Button
- Siemens Electrical System
- Lathe Foot Brake
- Protective Chuck and Tooth Holder Shields
- Coolant System
- CE Standard

Standard Accessories

- 3 jaw lathe chuck – Ø200 mm
- 4 jaw lathe chuck – Ø250 mm
- Face plate – Ø350 mm
- Steady Rest
- Follow Rest
- MT4 live center
- MT4 dead center
- MT5/MT3 Reduction Sleeves
- Thread Gauge
- Quadruple tool holder
- Halogen machine lamp
- Quadruple tool holder
- Replaceable Gear Set
- Operating Tools

MODEL	CR4210 / CR4210DK
Main Motor Power	4.5 kW, 400 V
Swing Diameter over Machine Bed	420 mm
Swing Diameter over Bridge	590 mm
Swing Diameter over Cross Slide (Carriage)	250 mm
Bed Width	250 mm
Distance between Centers (Center Width)	1000 mm
Spindle Speed	45-1800 rpm
Number of Steps	18
Spindle Taper	MT6
Spindle Holder	D2-6
Spindle Bore	52 mm
Compound Rest Travel	140 mm
Cross Slide Travel	230 mm
Tailstock Spindle (Taper)	MT4
Tailstock Sleeve Stroke	120 mm
Longitudinal Feed	0,05-1,7 mm/rev
Cross Feed	0,025-0,85 mm/rev
Pitch – metric	0,2-14 mm
Pitch – inches	2-72 mm
Tool Holder	20x20 mm
Dimensions (L x W x H)	2025x915x1375 mm
Weight	1550 Kg

DISTINCTIONS OF THE NEW CB SERIES LATHES



ADDITIONALLY

- Contactors, overload relays, and all critical electrical components: Schneider.
- Spindle bore: 105 mm in large models (CB50-L, CB66, and CB76).
- 11 kW high-power motor.
- In lathes of 3 m and above, a second fixed steady rest (20-140 mm).

SERIES	CB50						CB66				CB76			
MODEL	CB5010	CB5015	CB5020	CB5030L	CB5040L	CB5050L	CB6620	CB6630	CB6640	CB6650	CB7620	CB7630	CB7640	CB7650
Swing Diameter Over Bed	500mm						660mm				760mm			
Swing Diameter Over Bridge	710mm				-		870mm		-		970mm		-	
Swing Diameter over Cross Slide (Carriage)	300mm						430mm				530mm			
Distance Between Centers	1000 mm	1500 mm	2000 mm	3000 mm	4000 mm	5000 mm	2000 mm	3000 mm	4000 mm	5000 mm	2000 mm	3000 mm	4000 mm	5000 mm
Spindle Bore	82 mm			105 mm			105 mm				105 mm			
Spindle Speed	9-1600 rpm			6-1120 rpm			6-1120 rpm				6-1120 rpm			
Main Motor Power	7,5 kW			11 kW			11 kW				11 kW			
Net Weight	2100 kg	2400 kg	2800 kg	2800 kg	3300 kg	3800 kg	2900 kg	3400 kg	4100 kg	4700 kg	3000 kg	3500 kg	4200 kg	4800 kg

UNIVERSAL LATHE MACHINE

CB5010 | CB5015 | CB5020



- CE Standard
- Mechanical clutch system
- **Schneider Electric** electrical System
- Chuck guard with safety switch
- Equipped with joystick featuring practical easy use
- Hardened and polished guideways
- Special Desing Lubrication System
- Foot Brake

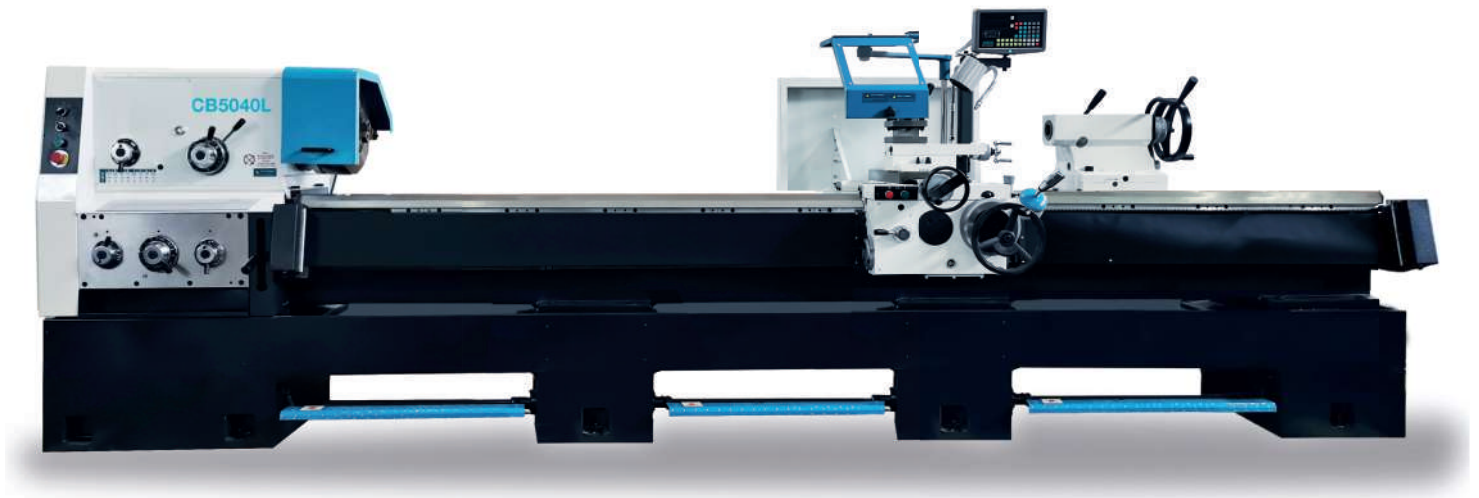
Standard Accessories:

- 3 jaw Chuck Ø 250 mm (self centering)
- 4 jaw Chuck Ø 400 mm (independent)
- Face plate Ø 630 mm
- Follow rest 20-80 mm
- Steady rest 130-260 mm
- MK5 live center
- MK5 dead center
- Cast machine foots
- Thread Gauge
- Chip guard
- LED lighting
- Protective Chuck and Tool Holder Shields
- Quadruple tool holder
- Coolant System

MODEL	CB5010	CB5015	CB5020
Main Motor Power	7.5 kW, 400 V		
Swing Diameter over Machine Bed	500 mm		
Swing Diameter over Bridge	710 mm		
Swing Diameter over Cross Slide (Carriage)	300 mm		
Bed Width	390 mm		
Bed Length	240 mm		
Distance between Centers	1000 mm	1500 mm	2000 mm
Maximum LoadingCapacity	With Chuck 300 kg, With Chuck+Tailstock 400 kg		
Spindle Speed	9-1600 rpm		
Number of Steps	24		
Spindle Taper	MK6		
Spindle Holder	D8		
Spindle Bore	82 mm		
Compound Rest Travel	340mm		
Cross Slide Travel	150 mm		
Tailstock Spindle (Taper)	MK5		
Tailstock Spindle Diameter	75 mm		
Tailstock Sleeve Stroke	150 mm		
Longitudinal Feed	0,012-2,73 mm/rev		
Cross Feed	0,028-6,43 mm/rev		
Pitch - metric	0,5-112 (42 piece)		
Pitch - inches	72/1-8 TPI (46 piece)		
Modular Thread Range	0,5-112 (42 piece)		
Diametral Pitch Range	56-1/4 DP (45 piece)		
Tool Holder	0,5-112 (42 piece)		
Dimensions (L x W x H)	56-1/4 DP (45 piece)		
Weight	25x25 mm		
Dimensions (L x W x H)	2500x1150x1300 mm	3000x1150x1300 mm	3500x1150x1300 mm
Package Dimensions	2750x1120x1940 mm	3250x1120x1940 mm	3750x1120x1940 mm
Net KG	2100 kg	2400 kg	2800 kg
Gross KG	2540 kg	2860 kg	3200 kg

UNIVERSAL LATHE MACHINE

CB5020L | CB5030L | CB5040L | CB5050L



- CE Standard
- Mechanical clutch system
- **Schneider Electric** electrical System
- Chuck guard with safety switch
- Equipped with joystick featuring practical easy use
- Hardened and polished guideways
- Special Desing Lubrication System
- Foot Brake

Standard Accessories:

- 3 jaw Chuck Ø 250 mm (self centering)
- 4 jaw Chuck Ø 400 mm (independent)
- Face plate Ø 630 mm
- Follow rest 20-80 mm
- Steady rest 130-260 mm
- MK5 live center
- MK5 dead center
- Cast machine foots
- Thread Gauge
- Chip guard
- LED lighting
- Protective Chuck and Tool Holder Shields
- Quadruple tool holder
- Coolant System

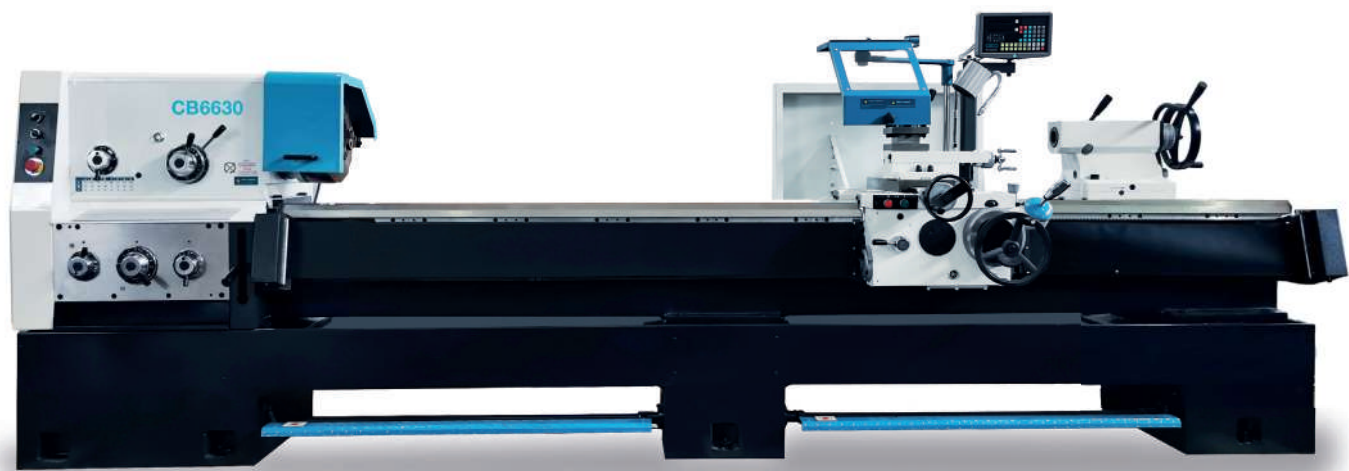
Optional Accessories:

320105: 32x150 mm Quick change tool holder
350101: 250 mm 3 Jaw Chuck (Self centering)
350102: 315 mm 3 Jaw Chuck (Self Centering)
350201: 400 mm 4 Jaw Chuck (Independent)
385001: 20-140 mm Steady Rest
385004: 130-260 mm Steady Rest
385015: 20-80 mm Follow Rest

MODEL	CB5020L	CB5030L	CB5040L	CB5050L
Main Motor Power	11 kW, 400 V			
Swing Diameter over Machine Bed	500 mm			
Swing Diameter over Bridge	710 mm		-	
Swing Diameter over Cross Slide (Carriage)	300 mm			
Bed Width	390 mm			
Bed Length	240 mm		-	
Distance between Centers	2000 mm	3000 mm	4000 mm	5000 mm
MaximumLoadingCapacity	With Chuck 350 kg, With Chuck+Tailstock 450 kg			
Spindle Speed	6-1120 rpm			
Number of Steps	24			
Spindle Taper	1:20			
Spindle Holder	D8			
Spindle Bore	105 mm			
Compound Rest Travel	340 mm			
Cross Slide Travel	150 mm			
Tailstock Spindle (Taper)	MK5			
Tailstock Spindle Diameter	75 mm			
Tailstock Sleeve Stroke	150 mm			
Longitudinal Feed	0,027-2,73 mm/rev			
Cross Feed	0,063-6,43 mm/rev			
Pitch - metric	1-224 (46 piece)			
Pitch - inches	28/1-8 TPI (42 piece)			
Modular Thread Range	0,5-112 (42 piece)			
Diametral Pitch Range	56-1/4 DP (45 piece)			
Tool Holder	25x25 mm			
Dimensions (L x W x H)	3500x1150x1300 mm	4500x1150x1300 mm	5500x1150x1300 mm	6500x1150x1300 mm
Package Dimensions	3750x1120x1940 mm	4770x1120x1940 mm	5770x1120x1940 mm	6770x1120x1940 mm
Net KG	2800 kg	3300 kg	3800 kg	4600 kg
Gross KG	3200 kg	4000 kg	4700 kg	5300 kg

UNIVERSAL LATHE MACHINE

CB6620 | CB6630



- CE Standard
- Mechanical clutch system
- **Schneider Electric** electrical System
- Chuck guard with safety switch
- Equipped with joystick featuring practical easy use
- Hardened and polished guideways
- Special Desing Lubrication System
- Foot Brake

Standard Accessories:

- 3 jaw Chuck Ø 250 mm (self centering)
- 4 jaw Chuck Ø 400 mm (independent)
- Face plate Ø 630 mm
- Follow rest 20-80 mm
- Steady rest 130-260 mm
- MK5 live center
- MK5 dead center
- Cast machine foots
- Thread Gauge
- Chip guard
- LED lighting
- Protective Chuck and Tool Holder Shields
- Quadruple tool holder
- Coolant System

Optional Accessories:

- 320105:** 32x150 mm Quick change tool holder
- 350101:** 250 mm 3 Jaw Chuck (Self centering)
- 350102:** 315 mm 3 Jaw Chuck (Self Centering)
- 350201:** 400 mm 4 Jaw Chuck (Independent)
- 385001:** 20-140 mm Steady Rest
- 385004:** 130-260 mm Steady Rest
- 385015:** 20-80 mm Follow Rest

MODEL	CB6620	CB6630
Main Motor Power	11 kW, 400 V	
Swing Diameter over Machine Bed	660 mm	
Swing Diameter over Bridge	870 mm	
Swing Diameter over Cross Slide (Carriage)	430 mm	
Bed Width	390 mm	
Bed Length	240 mm	
Distance between Centers	2000 mm	3000 mm
MaximumLoadingCapacity	With Chuck 350 kg, With Chuck+Tailstock 450 kg	
Spindle Speed	6-1120 rpm	
Number of Steps	24	
Spindle Taper	1:20	
Spindle Holder	D8	
Spindle Bore	105 mm	
Compound Rest Travel	360 mm	
Cross Slide Travel	200 mm	
Tailstock Spindle (Taper)	MK5	
Tailstock Spindle Diameter	75 mm	
Tailstock Sleeve Stroke	150 mm	
Longitudinal Feed	0,027-2,73 mm/rev	
Cross Feed	0,063-6,43 mm/rev	
Pitch - metric	1-224 (46 piece)	
Pitch - inches	28/1-8 TPI (42 piece)	
Modular Thread Range	0,5-112 (42 piece)	
Diametral Pitch Range	56-1/4 DP (45 piece)	
Tool Holder	25x25 mm	
Dimensions (L x W x H)	3500x1250x1400 mm	4500x1250x1400 mm
Package Dimensions	3750x1120x1940 mm	4770x1120x1940 mm
Net KG	2900 kg	3400 kg
Gross KG	3400 kg	4200 kg

UNIVERSAL LATHE MACHINE

CB6640 | CB6650



- CE Standard
- Mechanical clutch system
- **Schneider Electric** electrical System
- Chuck guard with safety switch
- Equipped with joystick featuring practical easy use
- Hardened and polished guideways
- Special Desing Lubrication System
- Foot Brake

Standard Accessories:

- 3 jaw Chuck Ø 250 mm (self centering)
- 4 jaw Chuck Ø 400 mm (independent)
- Face plate Ø 630 mm
- Follow rest 20-80 mm
- Steady rest 130-260 mm
- MK5 live center
- MK5 dead center
- Cast machine foots
- Thread Gauge
- Chip guard
- LED lighting
- Protective Chuck and Tool Holder Shields
- Quadruple tool holder
- Coolant System

Optional Accessories:

- 320105:** 32x150 mm Quick change tool holder
- 350101:** 250 mm 3 Jaw Chuck (Self centering)
- 350102:** 315 mm 3 Jaw Chuck (Self Centering)
- 350201:** 400 mm 4 Jaw Chuck (Independent)
- 385001:** 20-140 mm Steady Rest
- 385004:** 130-260 mm Steady Rest
- 385015:** 20-80 mm Follow Rest

MODEL	CB6640	CB6650
Main Motor Power	11 kW, 400 V	
Swing Diameter over Machine Bed	660 mm	
Swing Diameter over Bridge	870 mm	
Swing Diameter over Cross Slide (Carriage)	430 mm	
Bed Width	390 mm	
Bed Length	240 mm	
Distance between Centers	4000 mm	5000 mm
Maximum Loading Capacity	With Chuck 350 kg, With Chuck+Tailstock 450 kg	
Spindle Speed	6-1120 rpm	
Number of Steps	24	
Spindle Taper	1:20	
Spindle Holder	D8	
Spindle Bore	105 mm	
Compound Rest Travel	360 mm	
Cross Slide Travel	200 mm	
Tailstock Spindle (Taper)	MK5	
Tailstock Spindle Diameter	75 mm	
Tailstock Sleeve Stroke	150 mm	
Longitudinal Feed	0,027-2,73 mm/rev	
Cross Feed	0,063-6,43 mm/rev	
Pitch - metric	1-224 (46 piece)	
Pitch - inches	28/1-8 TPI (42 piece)	
Modular Thread Range	0,5-112 (42 piece)	
Diametral Pitch Range	56-1/4 DP (45 piece)	
Tool Holder	25x25 mm	
Dimensions (L x W x H)	5500x1250x1400 mm	6500x1250x1400 mm
Package Dimensions	5770x1120x1940 mm	6770x1120x1940 mm
Net KG	4100 kg	4700 kg
Gross KG	5000 kg	5400 kg

UNIVERSAL LATHE

CB7620 | CB7630 | CB7640 | CB7650

- A robust enclosure system that completely protects all moving spindle components from chips.
- All critical electrical components such as contactors and overload relays are Schneider
- 2 axis digital coordinate reader
- Special design lubrication system
- 11 kW powerful motor in CB76 series
- CB76 series can produce 46 different metric threads thanks to the 6 rpm decreasing speed.
- CB7630, CB7640 and CB7650 (3m and above lathes) second steady rest (20-140mm)



- CE Standard
- Mechanical clutch system
- **Schneider Electric** electrical System
- Chuck guard with safety switch
- Equipped with joystick featuring practical easy use
- Hardened and polished guideways
- Special Desing Lubrication System
- Foot Brake

Standard Accessories:

- 3 jaw Chuck Ø 250 mm (self centering)
- 4 jaw Chuck Ø 400 mm (independent)
- Face plate Ø 630 mm
- Follow rest 20-80 mm
- Steady rest 130-260 mm
- MK5 live center
- MK5 dead center
- Cast machine foots
- Thread Gauge
- Chip guard
- LED lighting
- Protective Chuck and Tool Holder Shields
- Quadruple tool holder
- Coolant System

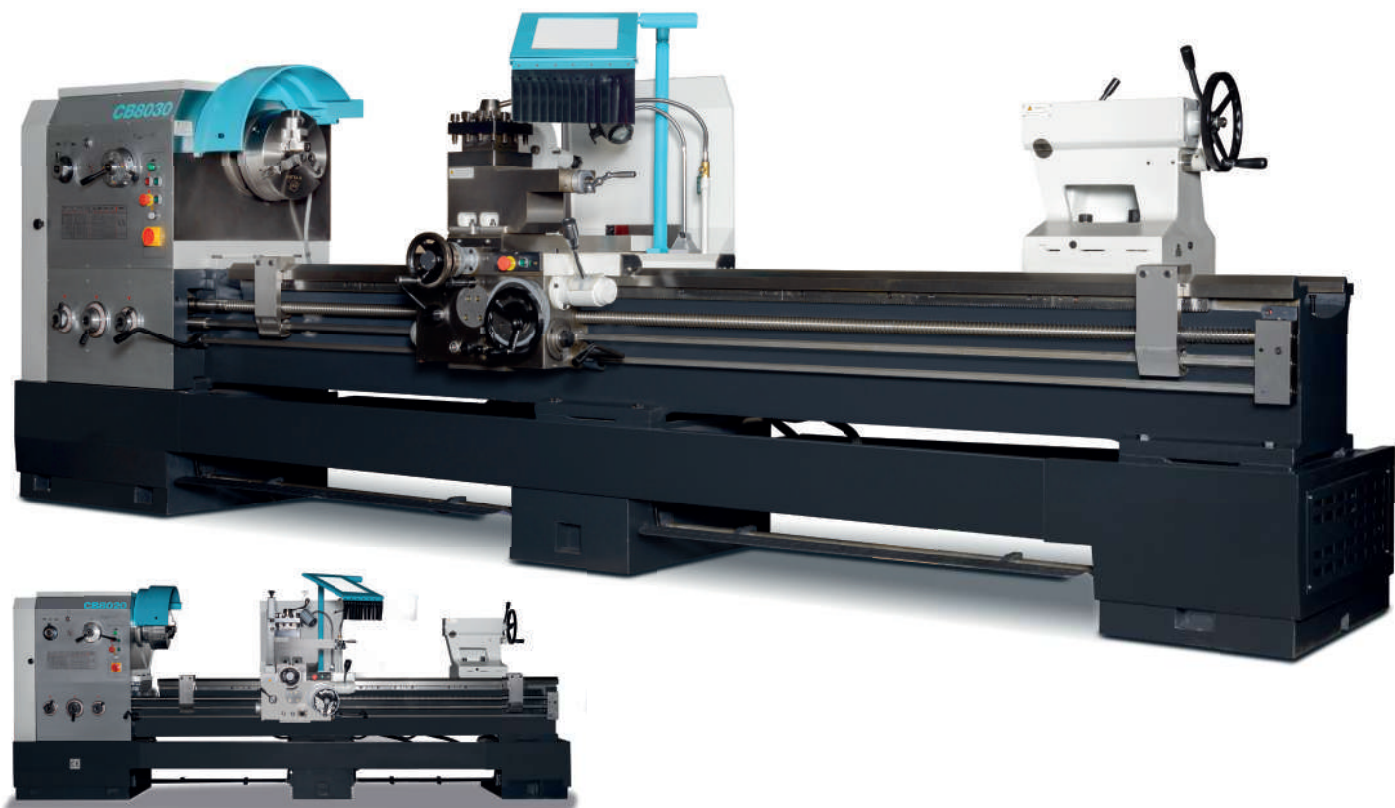
Optional Accessories:

- 310105:** MK5 live center
320105: 32x150 mm Quick change tool holder
350101: 250 mm 3 Jaw Chuck (Self centering)
350102: 315 mm 3 Jaw Chuck (Self Centering)
350201: 400 mm 4 Jaw Chuck (Independent)
385001: 20-140 mm Steady Rest
385004: 130-260 mm Steady Rest
385015: 20-80 mm Follow Rest

MODEL	CB7620	CB7630	CB7640	CB7650
Main Motor Power	11 kW, 400 V			
Swing Diameter over Machine Bed	760 mm			
Swing Diameter overBridge	870 mm			-
Swing Diameter over Cross Slide (Carriage)	530 mm			
Bed Width	390 mm			
Bed Length	240 mm			-
Distance between Centers	2000 mm	3000 mm	4000 mm	5000 mm
Maximum Loading Capacity	With Chuck 350 kg, With Chuck+Tailstock 450 kg			
Spindle Speed	6-1120 rpm			
Number of Steps	24			
Spindle Taper	1:20			
Spindle Holder	D8			
Spindle Bore	105 mm			
Compound Rest Travel	360 mm			
Cross Slide Travel	200 mm			
Tailstock Spindle (Taper)	MK5			
Tailstock Spindle Diameter	75 mm			
Tailstock Sleeve Stroke	150 mm			
Longitudinal Feed	0,027-2,73 mm/rev			
Cross Feed	0,063-6,43 mm/rev			
Pitch - metric	1-224 (46 piece)			
Pitch - inches	28/1-8 TPI (42 piece)			
Modular Thread Range	0,5-112 (42 piece)			
Diametral Pitch Range	56-1/4 DP (45 piece)			
Tool Holder	25x25 mm			
Dimensions (L x W x H)	3500x1250x1400 mm	4500x1250x1400 mm	5500x1250x1400 mm	6500x1250x1400 mm
Package Dimensions	3750x1120x1940 mm	4770x1120x1940 mm	5770x1120x1940 mm	6770x1120x1940 mm
Net KG	3000 kg	3500 kg	4200 kg	4800 kg
Gross KG	3500 kg	4300 kg	5100 kg	5500 kg

UNIVERSAL LATHE

CB8020 | CB8030



CB8020

Optional Accessories :
310105 - MK5 Rotating Tailstock
320105: 32x150 mm Quick-Change Tool Post Set

- CE Standard
- Mechanical clutch system
- **Schneider Electric** electrical System
- Chuck guard with safety switch
- Equipped with joystick featuring practical easy use
- Hardened and polished guideways
- Special Desing Lubrication System
- Foot Brake

Standard Accessories:

- 3 jaw Chuck Ø 250 mm (self centering)
- 4 jaw Chuck Ø 400 mm (independent)
- Face plate Ø 630 mm
- Follow rest 20-80 mm
- Steady rest 130-260 mm
- MK5 live center
- MK5 dead center
- Cast machine foots
- Thread Gauge
- Chip guard
- LED lighting
- Protective Chuck and Tool Holder Shields
- Quadruple tool holder
- Coolant System

MODEL	CB8020	CB8030
Main Motor Power	7.5 kW, 400 V	
Swing Diameter over Machine Bed	800 mm	
Swing Diameter over Bridge	1000 mm	
Swing Over Carriage	560 mm	
Bed Width	510 mm	
Distance Between Centers	2000 mm	3000 mm
Spindle Speed	30-1400 rev/min	
Number of Steps	12	
Spindle Taper	MK7	
Spindle Holder	D1-8	
Spindle Bore	105 mm	
Compound Rest Travel	320 mm	
Cross Slide Travel	145 mm	
Tailstock Spindle (Taper)	MK5	
Tailstock Spindle Diameter	75 mm	
Tailstock Sleeve Stroke	150 mm	
Longitudinal Feed	0,027-1,07 mm/rev	
Cross Feed	0,063-2,52 mm/rev	
Pitch - metric	1-14mm (22 piece)	
Pitch - inches	20-2 TPI (20 piece)	
Modular Thread Range	0,5-7 (18 piece)	
Diametral Pitch Range	56-4 DP (24 piece)	
Tool Holder	25X25mm	
Dimensions (L x W x H)	3370x1350x1500	4370x1350x1500
Net Kg	3300 Kg	3750 Kg

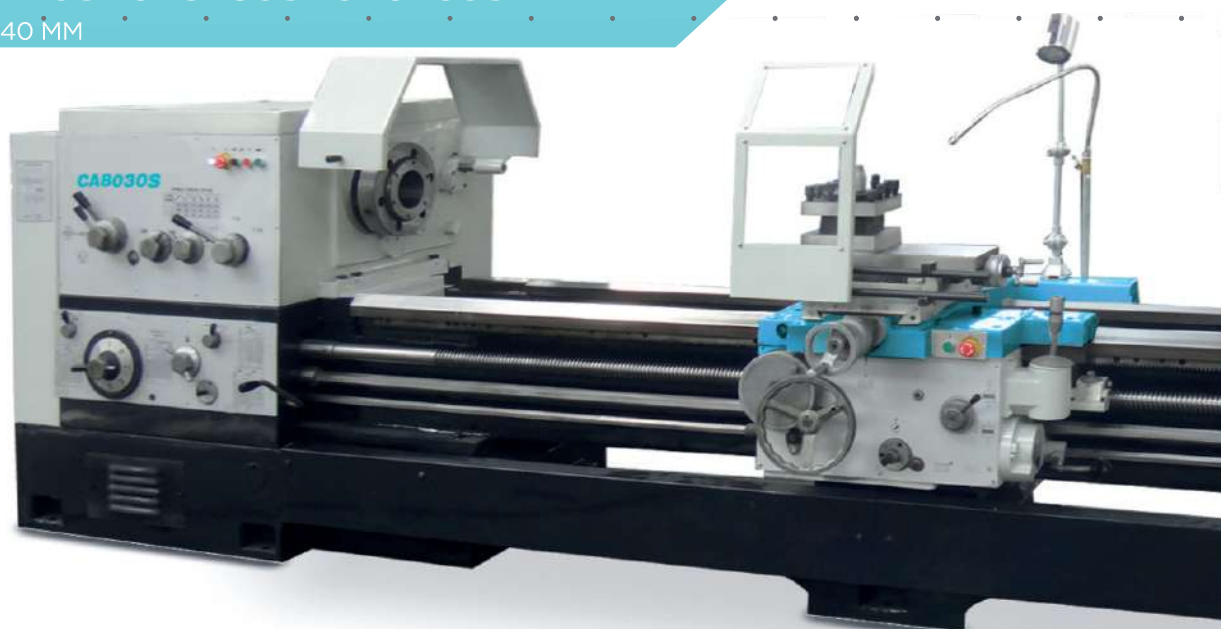
HEAVY-DUTY LATHE MACHINE

CA8030S | CA8040S | CA8050S | CA8060S

SWING Ø OVER BED: 800MM

CA9430S | CA9440S | CA9450S | CA9460S

SWING Ø OVER BED: 940 MM



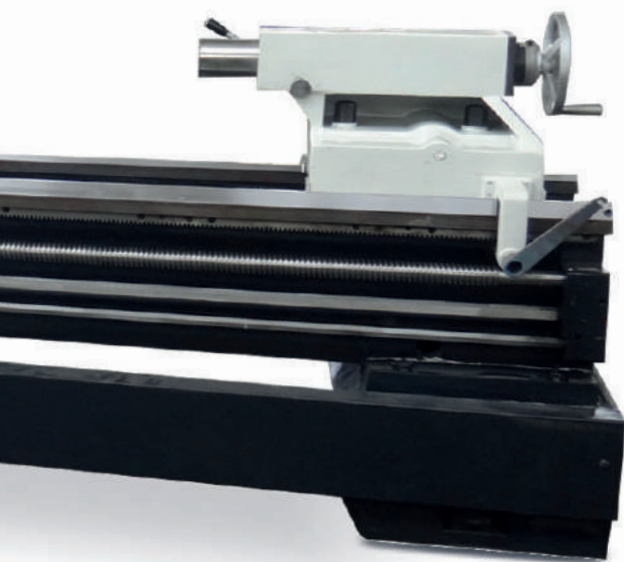
MODEL	CA8030S	CA8040S	CA8050S	CA8060S	CA9430S	CA9440S	CA9450S	CA9460S
Main Motor Power	11 kW, 400 V				11 kW, 400 V			
Swing Diameter over Machine Bed	800 mm				940mm			
Swing Diameter over Bridge	1000 mm				1140 mm			
Swing Diameter over Cross Slide (Carriage)	520 mm				660 mm			
Bed Width	550 mm				550 mm			
Distance between Centers	3000 mm	4000 mm	5000 mm	6000 mm	3000 mm	4000 mm	5000 mm	6000 mm
Max. Capacity	1500 Kg				1500 Kg			
Spindle Speed	6-800 rpm				6-800 rev			
Number of Steps	18				18			
Spindle Taper	MT6				MT6			
Spindle Holder	C11				C11			
Spindle Bore	100 mm / in L models 130 mm				100 mm / in L models 140 mm			
Compound Rest Travel	540 mm				570 mm			
Cross Slide Travel	200 mm				200 mm			
Tailstock Spindle (Taper)	MT5				MT5			
Tailstock Spindle Diameter	100 mm				100 mm			
Tailstock Sleeve Stroke	250 mm				250 mm			
Longitudinal Feed	0.1-24.32 ; 64 mm/rev				0.1-24.32 ; 64 mm/rev			
Cross Feed	0.024-12.15 mm/rev				0.024-12.15 mm/rev			
Pitch - metric	1-240 mm				1-240 mm			
Pitch - inches	1-14				1-14			
Modular Thread Range	0,5-120 mm				0,5-120 mm			
Diametral Pitch Range	1-28				1-28			
Tool Holder	32x32mm				32x32mm			
Dimensions (L x W x H) mm	5230x 1470x1620	6230x 1470x1620	7230x 1470x1620	8230x 1470x1620	5130 x1460x1830	6040 x1550x1830	7120 x1550x1830	8240 x1550x1830
Weight	5350 Kg	6650 Kg	7300 Kg	7850 Kg	5600 Kg	6950 Kg	7450 Kg	8000 Kg

CA8030M | CA8040M | CA8050M | CA8060M

SWING Ø OVER BED: 800 MM

CA10030M | CA10040M | CA10050M | CA10060M

SWING Ø OVER BED: 1000 MM



140 mm Spindle for L-models

Features:

- Mechanical clutch system
- Chuck and Tool holder safety shields
- **Heavy-duty and rigid cast iron machine bed**
- Equipped with joystick featuring practical easy use
- Machine lamp
- Lathe Foot Brake
- Coolant System
- CE Standard

Standard Accessories

- 3 jaw lathe chuck Ø400 mm
- 4 jaw lathe chuck Ø630 mm
- Face plate Ø800 mm
- Steady Rest 160-350 mm
- Follow Rest
- MT6 Live center
- MT6 Dead center
- Thread Gauge
- Quadruple tool holder
- Machine lamp
- Protective Chuck and Tool Holder Shields
- Coolant System
- Anti-vibration pad
- Operating Tools

MODEL	CA8030M	CA8040M	CA8050M	CA8060M	CA10030M	CA10040M	CA10050M	CA10060M
Main Motor Power	11 kW, 400 V				11 kW, 400 V			
Swing Diameter over Machine Bed	800 mm				1000 mm			
Swing Diameter over Bridge	480 mm				680 mm			
Bed Width	600 mm				600 mm			
Distance between Centers	3000 mm	4000 mm	5000 mm	6000 mm	3000 mm	4000 mm	5000 mm	6000 mm
Max. Capacity	2000 Kg				2000 Kg			
Spindle Speed	6-750 rpm (forward) / 10-775 rpm (reverse)				6-750 rpm (forward) / 10-775 rpm (reverse)			
Number of Steps	18 (forward) / 6 (reverse)				18 (forward) / 6 (reverse)			
Spindle Taper	MT6				MT6			
Spindle Holder	C11				C11			
Spindle Bore	100 mm / in L models 140 mm				100 mm / in L models 140 mm			
Compound Rest Travel	500 mm				500 mm			
Cross Slide Travel	200 mm				200 mm			
Tailstock Spindle (Taper)	MT6				MT6			
Tailstock Spindle Diameter	100 mm				100 mm			
Tailstock Sleeve Stroke	250 mm				250 mm			
Longitudinal Feed	0.1-24.32 ; 64 mm/rev				0.1-24.32 ; 64 mm/rev			
Cross Feed	0.024-12.15 mm/rev				0.024-12.15 mm/rev			
Pitch - metric	1-240 mm				1-240 mm			
Pitch - inches	1-14				1-14			
Modular Thread Range	0,5-120 mm				0,5-120 mm			
Diametral Pitch Range	1-28				1-28			
Tool Holder	32x32mm				32x32mm			
Dimensions (L x W x H) mm	5230x 1730x1470	6230x 1730x1470	7230x 1730x1470	8230x 1730x1470	5230x 1730x1570	6230x 1730x1570	7230x 1730x1570	8230x 1730x1570
Weight	5650 Kg	6950 Kg	7800 Kg	8500 Kg	5900 Kg	7250 Kg	7700 Kg	8600 Kg

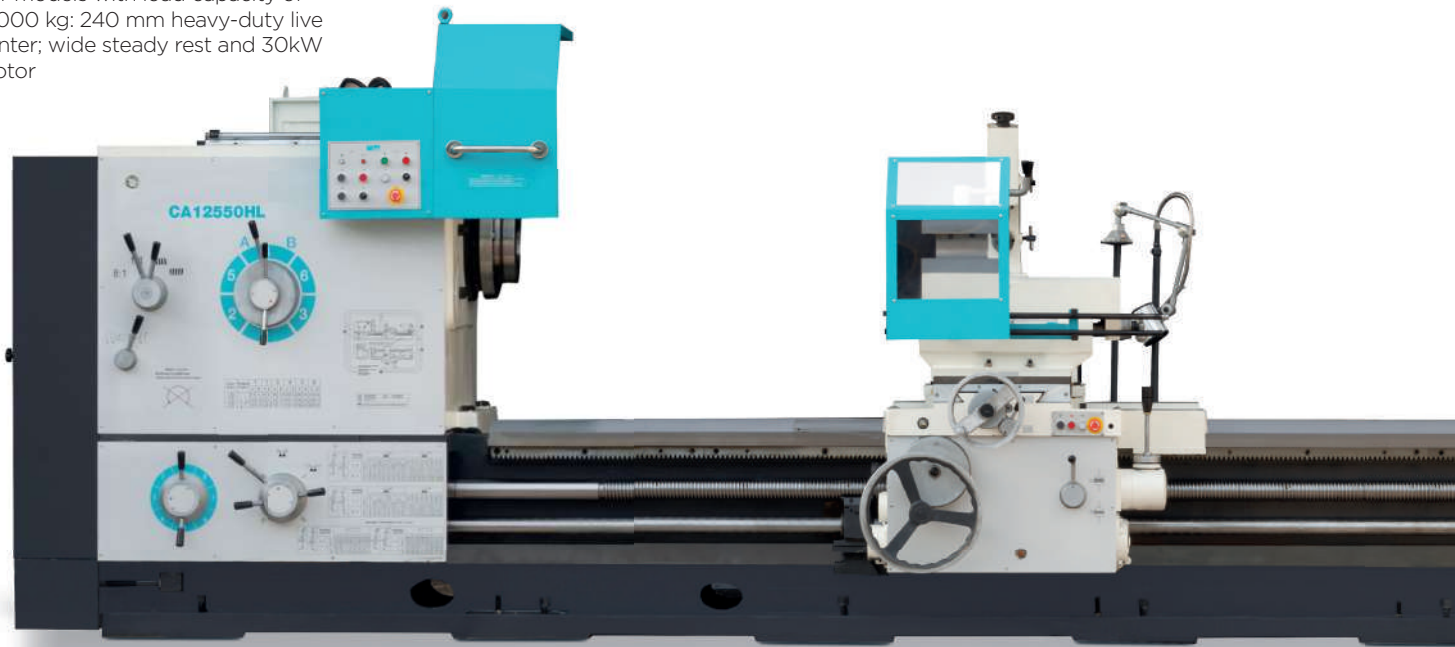
HEAVY-DUTY LATHE MACHINE

CA12530HL | CA12540HL | CA12550HL | CA12560HL
SWING Ø OVER BED: 1250MM

CA14030HL | CA14040HL | CA14050HL | CA14060HL
SWING Ø OVER BED: 1400 MM

Optional Accessories:

- For models with load capacity of 10000 kg: 240 mm heavy-duty live center; wide steady rest and 30kW motor



MODEL	CA12530HL	CA12540HL	CA12550HL	CA12560HL
Main Motor Power	22 kW, 400 V			
Swing Diameter over Machine Bed	1250 mm			
Swing Diameter over Cross Slide (Carriage)	870 mm			
Bed Width	780 mm			
Distance between Centers	3000 mm	4000 mm	5000 mm	6000 mm
Max Load Capacity	8000 Kg			
Spindle Speed	3,15-315 rpm (forward) / 4,5-390 rpm (reverse)			
Number of Steps	21 (forward) / 12 (reverse)			
Spindle Taper	A2-15			
Spindle Bore	130 mm			
Compound Rest Travel	670 mm			
Cross Slide Travel	300 mm			
Tailstock Spindle (Taper)	M80			
Tailstock Spindle Diameter	160 mm			
Tailstock Sleeve Stroke	300 mm			
Longitudinal Feed	0,1-12 (56 pitches)			
Cross Feed	0,05-6 (56 pitches)			
Pitch - metric	1-120 (44 pitches)			
Pitch - inches	0,25-28 (31 pitches)			
Modular Thread Range	0,5-60 (45 pitches)			
Diametral Pitch Range	0,5-56 (38 pitches)			
Tool Holder	45x45 mm			
Dimensions (L x W x H)	5950x1895x1955	6950x1895x1955	7950x1895x1955	8950x1895x1955
Weight	13.000 Kg	13.800 Kg	14.600 Kg	15.400 Kg

CA14030HL	CA14040HL	CA14050HL	CA14060HL
22kW, 400V			
1400 mm			
1000 mm			
780 mm			
3000 mm	4000 mm	5000 mm	6000 mm
8000 kg			
3,15-315 rpm (forward) / 4,5-390 rpm (reverse)			
21 (forward) / 12 (reverse)			
A2-15			
130 mm			
670 mm			
300 mm			
M80			
160 mm			
300 mm			
0,1-12 (56 pitches)			
0,05-6 (56 pitches)			
1-120 (44 pitches)			
0,25-28 (31 pitches)			
0,5-60 (45 pitches)			
0,5-56 (38 pitches)			
45x45 mm			
5950x2045x2010	6950x2045x2010	7950x2045x2010	8950x2045x2010
13.700 Kg	14.700 Kg	15.700 Kg	16.700 Kg

CA16030HL | CA16040HL | CA16050HL | CA16060HL

SWING Ø OVER BED: 1600 MM

CA20060DL | CA20080DL | CA200100DL

SWING Ø OVER BED: 2080 MM - BED WIDTH: 1100 MM

130 mm
Spindle

Features:

- Turcite-B coated Slideways
- Hardened and grinded slideway
- Slideways Hardness – HRC48
- Heavy-duty 780 mm width machine bed
- Hydraulic clutch system
- Chuck and Tool holder safety shields
- **Heavy-duty rigid cast iron machine bed**
- Equipped with joystick featuring practical easy use
- Machine lamp
- Coolant System
- CE Standard

Standard Accessories

- 4 jaw lathe chuck Ø1250 mm
- Steady Rest 50-425 mm
- Steady Rest 285-635 mm
- Follow Rest 50-220 mm
- Live center
- Dead center
- Quadruple tool holder
- Machine lamp
- Protective Chuck and Tool Holder Shields
- Coolant System
- Operating Tools

Automatic/Motorized
Tailstock

MODEL	CA16030HL	CA16040HL	CA16050HL	CA16060HL
Main Motor Power	22kW, 400V			
Swing Diameter over Machine Bed	1600 mm			
Swing Diameter over Cross Slide (Carriage)	1200 mm			
Bed Width	780 mm			
Distance between Centers	3000 mm	4000 mm	5000 mm	6000 mm
Max Load Capacity	8000 kg			
Spindle Speed	3,15-315 rpm (forward) / 4,5-390 rpm (reverse)			
Number of Steps	21 (forward) / 12 (reverse)			
Spindle Taper	A2-15			
Spindle Bore	130 mm			
Compound Rest Travel	825 mm			
Cross Slide Travel	300 mm			
Tailstock Spindle (Taper)	M80			
Tailstock Spindle Diameter	160 mm			
Tailstock Sleeve Stroke	300 mm			
Longitudinal Feed	0,1-12 (56 pitches)			
Cross Feed	0,05-6 (56 pitches)			
Pitch - metric	1-120 (44 pitches)			
Pitch - inches	0,25-28 (31 pitches)			
Modular Thread Range	0,5-60 (45 pitches)			
Diametral Pitch Range	0,5-56 (38 pitches)			
Tool Holder	45x45 mm			
Dimensions (L x W x H)	5950x 2110x2245	6950x 2110x2245	7950x 2110x2245	8950x 2110x2245
Weight	14.400 Kg	15.400 Kg	16.400 Kg	17.400 Kg

CA20060DL	CA20080DL	CA200100DL
30 kW, 400 V		
2080 mm		
1600 mm		
1100 mm		
6000 mm	8000 mm	10000 mm
12000 Kg		
2,5-250 rpm (reverse)		
21 (forward) / 12 (reverse)		
A2-15		
130 mm		
760 mm		
300 mm		
M80		
260 mm		
300 mm		
0,1-12 (56 pitches)		
0,05-6 (56 pitches)		
1-120 (44 pitches)		
0,25-28 (31 pitches)		
0,5-60 (45 pitches)		
0,5-56 (38 pitches)		
45x45 mm		
9280x 2200x2600	11280x 2200x2600	13280x 2200x2600
22.000 Kg	24.000 Kg	26.000 Kg

SURFACE GRINDER

SG36 servo | SG36 NC

Features:

- X-axis with hydraulic drive
- Heavy-duty rigid cast iron machine bed
- High precision long service NSK P4 grade spindle ball bearing
- V-type high precision long-term use guideways
- Hardened and grinded table slideways
- Teflon laminated slideways
- Centralized lubrication system
- Separate hydraulic tank prevents heat and vibrations from being transferred to the machine
- Hydraulic clutch system
- Chuck and Tool holder safety shields
- Ergonomic and easily accessible electric panel
- Adjustable (variable) magnetic force
- Safety 24V control circuit power
- CE Standard



Main Configuration of the Machine:

- Spindle motor: ABB trademark
- Spindle bearing: NSK trademark (Japan) P4 grade high precision ball bearing
- Y axis spindle: P5 grade precision ball screw
- Main electrical components: SIEMENS
- Main hydraulic components by Taiwan's trade mark

ABB SIEMENS NSK

SG36 servo

- Easy to use servo control system
- Automatic pass accuracy up to 0.001 mm

SG36 NC

- Automatic cross feed with precise step up to 0,001 mm
- SIEMENS PLC control system with touch screen and servo motor drive for vertical (Z-axis) feed

Standard Accessories

- Grinding wheel
- Grinding wheel flange
- Balancing stand
- Balancing shaft (arbor)
- Wheel dresser (diamond dresser)
- Anchor bolt
- Hydraulic oil tank
- Magnetic separator
- Magnetic table
- Cooling system
- Machine lamp
- Pads
- Operating Tools

MODEL	SG36 servo	SG36 NC
Spindle Motor Power	4 kW, 400 V	
Table Dimensions	300x600 mm	
Longitudinal Movement Hydraulic Travel	660 mm	
Longitudinal Movement Manuel Travel	340 mm	
Distance from table surface to spindle center	520 mm	
Table Load Capacity (max)	420 Kg	
T-slots (numberxwidth)	1x14 mm	
Table Speed (mm/min)	5-25 m/dak.	
Vertical (Y-axis) Downfeed	0,02 mm	
Handfeed per grad		
Vertical (Y-axis) Downfeed	5 mm	
Handfeed per rev		
Automatic Y-axis Movement	0,5-12 mm	
Y-axis Rapid Speed	790 mm/min	
Grinding Wheel Dimensions (diaxwidthxbore)	355x40x127 mm	
Spindle Speed	1450 rpm	
Cross feed (Z-axis) Movement	0,001 mm	0,001 mm
Handfeed per grad		
Cross feed (Z-axis) Movement	0,5 mm	0,1 mm
Handfeed per rev		
Automatic down feed precision (rate)	0,005-0,05 mm (8 steps, variable speed)	0,001-1 mm
Z-axis feeding speed	230 mm/min	210 mm/min
Hydraulic Motor	1,5 kW	
Dust Collector Motor	550 W	
Coolant Motor Capacity	90 W	
Y-axis (Vertical) Motor Capacity	90 W	
Z-axis (Cross feed) Motor Capacity	4NM Servo Motor	1 kW
Floor Space	2600x2500 mm	
Dimensions (L x W x H)	2150x1940x2195 mm	
Net Weight	1910 Kg	
Gross Weight	2210 Kg	

SURFACE GRINDER

SG48 SERVO | SG48 NC

- X-axis with hydraulic drive
- Heavy-duty rigid cast iron machine bed
- High precision long service NSK P4 grade spindle ball bearing
- V-type high precision long-term use guideways
- Hardened and grinded table slideways
- Teflon laminated slideways
- Centralized lubrication system
- Separate hydraulic tank prevents heat and vibrations from being transferred to the machine
- Hydraulic clutch system
- Chuck and Tool holder safety shields
- Ergonomic and easily accessible electric panel
- Adjustable (variable) magnetic force
- Safety 24V control circuit power
- CE Standard



Main Configuration of the Machine:

- Spindle motor: ABB trademark
- Spindle bearing: NSK trademark (Japan) P4 grade high precision ball bearing
- Y axis spindle: P5 grade precision ball screw
- Main electrical components: SIEMENS
- Main hydraulic components by Taiwan's trade mark

ABB SIEMENS NSK

MODEL	SG48 servo	SG48 NC
Spindle Motor Power	5,5 kW, 400 V	
Table Dimensions	400x800 mm	
Longitudinal Movement Hydraulic Travel	850 mm	
Longitudinal Movement Manuel Travel	440 mm	
Distance from table surface to spindle center	580 mm	
Table Load Capacity (max)	700 Kg	
T-slots (numberxwidth)	3x14 mm	
Table Speed (mm/min)	5-25 mm/rev	
Vertical (Y-axis) Downfeed Handfeed per grad	0,02 mm	
Vertical (Y-axis) Downfeed Handfeed per rev	5 mm	
Automatic Y-axis Movement	0,5-12 mm	
Y-axis Rapid Speed	790 mm/min	
Grinding Wheel Dimensions (diaxwidthxbore)	355x40x127 mm	
Spindle Speed	1450 rpm	
Cross feed (Z-axis) Movement Handfeed per grad	0,001 mm	0,001 mm
Cross feed (Z-axis) Movement Handfeed per rev	0,5 mm	0,1 mm
Automatic down feed precision (rate)	0,005-0,05 mm (8 step, variable speed)	0,001-1 mm
Z-axis feeding speed	230 mm/min	210 mm/min
Hydraulic Motor	2,2 kW	
Dust Collector Motor	550 W	
Coolant Motor Capacity	90 W	
Y-axis (Vertical) Motor Capacity	90 W	
Z-axis (Cross feed) Motor Capacity	4NM Servo	1 kW
Floor Space	3600x2600 mm	
Dimensions (L x W x H)	2790x2225x2195 mm	
Net Weight	2850 Kg	
Gross Weight	3150 Kg	

SG48 servo

- Easy to use servo control system
- Automatic pass accuracy up to 0.001 mm

SG48 NC

- Automatic cross feed with precise step up to 0,001 mm
- SIEMENS PLC control system with touch screen and servo motor drive for vertical (Z-axis) feed

Standard Accessories

- Grinding wheel
- Grinding wheel flange
- Balancing stand
- Balancing shaft (arbor)
- Wheel dresser (diamond dresser)
- Anchor bolt
- Hydraulic oil tank
- Magnetic separator
- Magnetic table
- Cooling system
- Machine lamp
- Pads
- Operating Tools

SURFACE GRINDER

SG510 Servo | NC

Features:

- X-axis with hydraulic drive
- Heavy-duty rigid cast iron machine bed
- High precision long service NSK P4 grade spindle ball bearing
- V-type high precision long-term use guideways
- Hardened and grinded table slideways
- Teflon laminated slideways
- Centralized lubrication system
- Separate hydraulic tank prevents heat and vibrations from being transferred to the machine
- Hydraulic clutch system
- Chuck and Tool holder safety shields
- Ergonomic and easily accessible electric panel
- Adjustable (variable) magnetic force
- Safety 24V control circuit power
- CE Standard

Main Configuration of the Machine:

- Spindle motor: ABB trademark
- Spindle bearing: NSK trademark (Japan)
P4 grade high precision ball bearing
- Y axis spindle: P5 grade precision ball screw
- Main electrical components: SIEMENS
- Main hydraulic components by Taiwan's
trade mark

ABB SIEMENS NSK

SG510 Servo

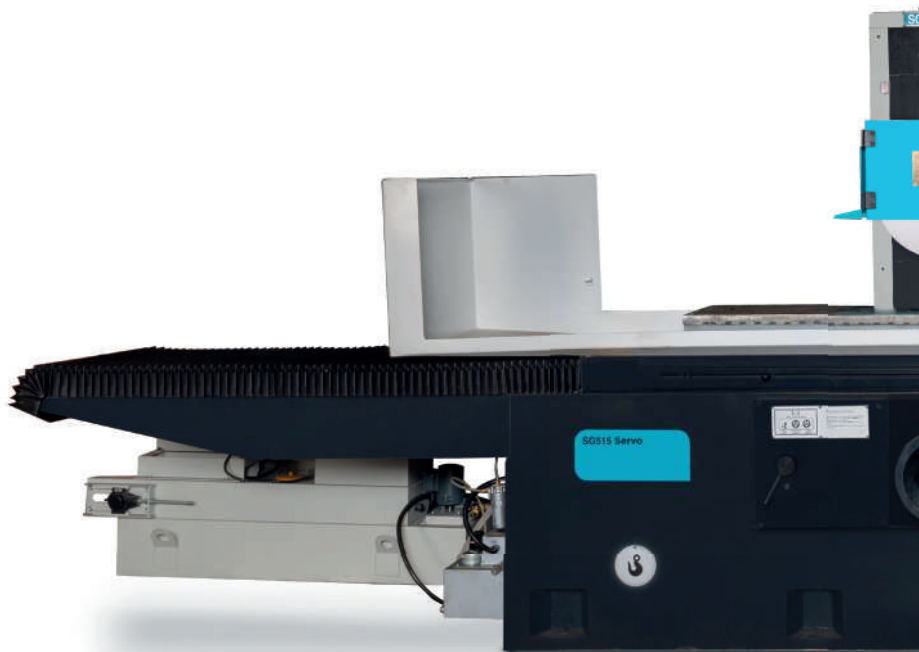
Automatic feed

SG510 NC

- Automatic cross feed with precise step up to 0,001 mm
- SIEMENS PLC control system with touch screen and servo motor drive for vertical (Z-axis) feed

Standard Accessories

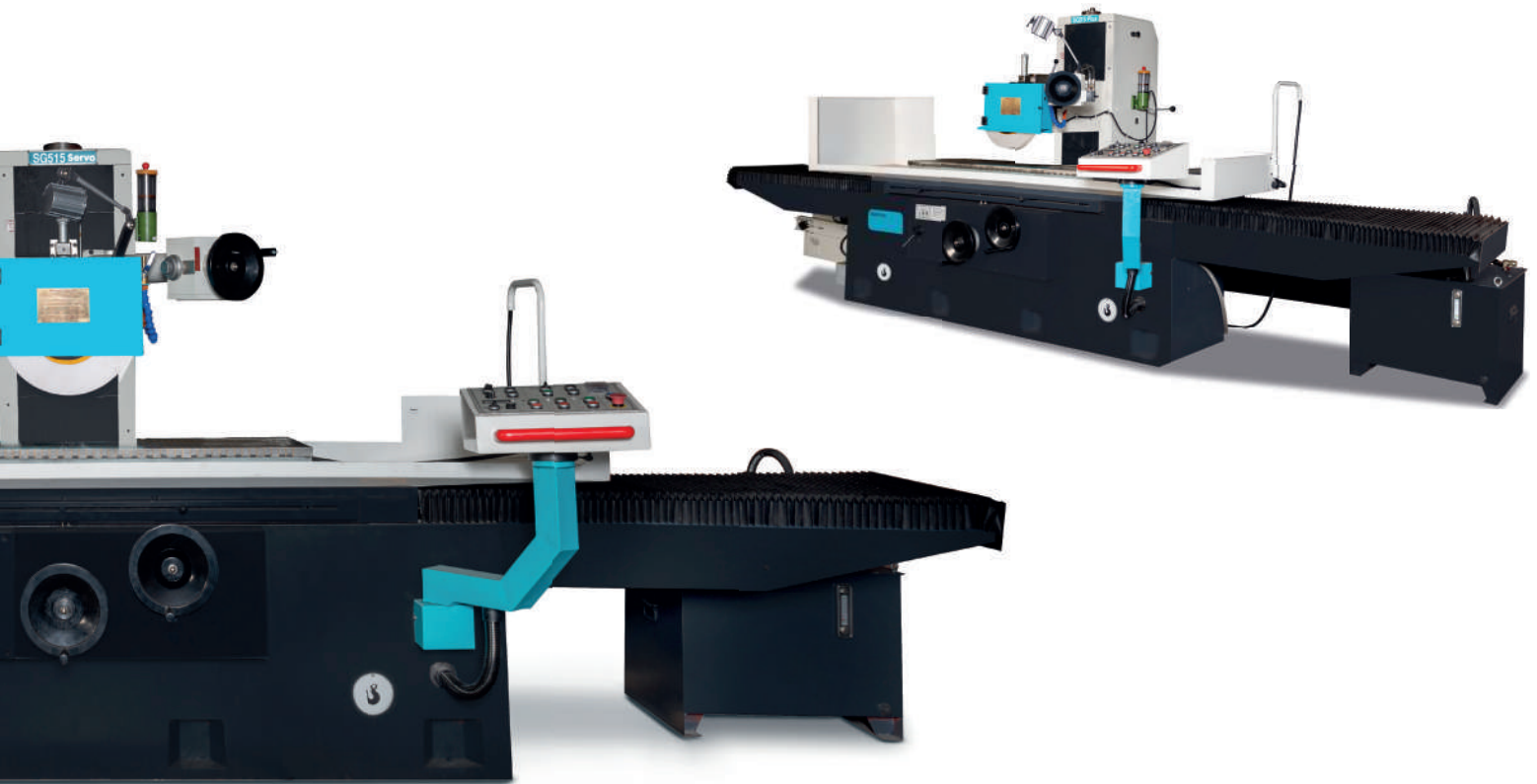
- Grinding wheel
- Grinding wheel flange
- Balancing stand
- Balancing shaft (arbor)
- Wheel dresser (diamond dresser)
- Anchor bolt
- Hydraulic oil tank
- Magnetic separator
- Magnetic table
- Cooling system
- Machine lamp
- Pads
- Operating Tools



MODEL	SG510 Servo	SG510 NC
Spindle Motor Power	7,5 kW, 400 V	
Table Dimensions	500x1000 mm	
Longitudinal Movement Hydraulic Travel	1140 mm	
Longitudinal Movement Manuel Travel	540 mm	
Distance from table surface to spindle center	590 mm	
Table Load Capacity (max)	700 Kg	
T-slots (numberxwidth)	3x16 mm	
Table Speed (mm/min)	5-25 m/min	
Vertical (Y-axis) Downfeed	0,02 mm	
Handfeed per grad	5 mm	
Vertical (Y-axis) Downfeed	0,02 mm	
Handfeed per rev	5 mm	
Automatic Y-axis Movement	0,5-12 mm	
Y-axis Rapid Speed	1250 mm/min	
Grinding Wheel Dimensions (diaxwidthxbore)	355x40x127 mm	
Spindle Speed	1450 rpm	
Cross feed (Z-axis) Movement	0,002 mm	0,001 mm
Handfeed per grad	0,5 mm	0,1 mm
Cross feed (Z-axis) Movement	0,005-0,04 mm	0,001-1 mm
Handfeed per rev	230 mm/min	210 mm/min
Automatic down feed precision (rate)	0,005-0,04 mm	0,001-1 mm
Z-axis feeding speed	230 mm/min	210 mm/min
Hydraulic Motor	2,2 kW	
Dust Collector Motor	550 W	
Coolant Motor Capacity	90 W	
Y-axis (Vertical) Motor Capacity	370 W	
Z-axis (Cross feed) Motor Capacity	370 W	1,5 kW
Floor Space	4445x2200 mm	
Dimensions (L x W x H)	3390x2255x2225 mm	3400x2265x2250 mm
Net Weight	5000 Kg	
Gross Weight	6000 Kg	

SURFACE GRINDER

SG515 Servo | SG515 NC



MODEL	SG515 Servo	SG515 NC
Spindle Motor Power	7,5 kW, 400 V	
Table Dimensions	500x1500 mm	
Longitudinal Movement Hydraulic Travel	1600 mm	
Longitudinal Movement Manuel Travel	540 mm	
Distance from table surface to spindle center	590 mm	
Table Load Capacity (max)	700 Kg	
T-slots (numberxwidth)	3x16 mm	
Table Speed (mm/min)	5-25 m/min	
Vertical (Y-axis) Downfeed	0,02 mm	
Handfeed per grad	5 mm	
Vertical (Y-axis) Downfeed	0,5-12 mm	
Handfeed per rev	1250 mm/min	
Automatic Y-axis Movement	355x40x127 mm	
Y-axis Rapid Speed	1450 rpm	
Grinding Wheel Dimensions (diaxwidthxbore)	0,002 mm	
Spindle Speed	0,001 mm	
Cross feed (Z-axis) Movement	0,5 mm	0,1 mm
Handfeed per grad	0,005-0,04 mm	0,001-1 mm
Cross feed (Z-axis) Movement	230 mm/min	210 mm/min
Handfeed per rev	2,2 kW	1,5 kW
Automatic down feed precision (rate)	550 W	
Z-axis feeding speed	90 W	
Hydraulic Motor	370 W	
Dust Collector Motor	370 W	
Coolant Motor Capacity	370 W	
Y-axis (Vertical) Motor Capacity	370 W	
Z-axis (Cross feed) Motor Capacity	370 W	
Floor Space	5810x2445 mm	
Dimensions (L x W x H)	3890x2255x2225 mm	4000x2285x2250 mm
Net Weight	6000 Kg	
Gross Weight	7000 Kg	

SG515 Servo

Automatic feed

SG515 NC

- Automatic cross feed with precise step up to 0,001 mm
- SIEMENS PLC control system with touch screen and servo motor drive for vertical (Z-axis) feed

Standard Accessories

- Grinding wheel
- Grinding wheel flange
- Balancing stand
- Balancing shaft (arbor)
- Wheel dresser (diamond dresser)
- Anchor bolt
- Hydraulic oil tank
- Magnetic separator
- Magnetic table
- Cooling system
- Machine lamp
- Pads
- Operating Tools

DRILL BIT SHARPENERS

GD13R | GD30T | GD30T PLUS

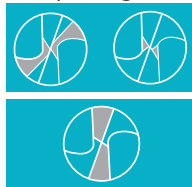
GD13R

MODEL	GD13R
Motor Power	120 W
Voltage	230 V
Speed	4400 rpm
Drill Bit Angle	95° - 135°
Sharpening capacity	Ø3- Ø13 mm
Dimensions(LxWxH)	320x180x190 mm
Net Weight	9 Kg

Standard Accessories

- Machine mounted sharpening wheel (for HSS bits)
- Collet holder
- Ø 3,4,5,6,7,8,9,10,11,12,13 mm ER20 collet

Sharpening surfaces



610013: HSS Sharpening Wheel **610014:** Carbide Sharpening Wheel

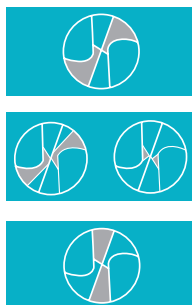
GD30T

MODEL	GD30T
Motor Power	250 W
Voltage	230 V
Speed	4400 rpm
Drill Bit Angle	85° - 140°
Sharpening capacity	Ø13- Ø30 mm (standart) Ø8- Ø32 mm (opsiyonel)
Dimensions(LxWxH)	500x260x270 mm
Net Weight	30 Kg

Standard Accessories

- Machine mounted sharpening wheel (for HSS bits)
- Collet holder
- Ø13- Ø30 mm arası 18 pcs ER40 collet

Sharpening surfaces



Optional Accessories:

- 610032:** HSS Sharpening Wheel
- 610033:** Carbide Sharpening Wheel
- 660030:** 31-32mm Collet Sets
- 660035:** 31-32mm Collet Holder
- 660010:** 8-12mm ER40 Collet Sets

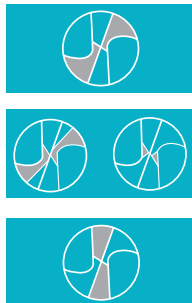
GD30T Plus

MODEL	GD30T Plus
Motor Power	250 W
Voltage	230 V
Speed	4400 rpm
Drill Bit Angle	85° - 140°
Sharpening capacity	Ø3- Ø30 mm (standart) Ø8- Ø32 mm (opsiyonel)
Dimensions(LxWxH)	400x260x300 mm
Net Weight	36 Kg

Standard Accessories

- Machine mounted sharpening wheel (for HSS bits)
- Collet holder
- Ø3- Ø30 mm arası 28 pcs collet

Sharpening surfaces



Optional Accessories:

- 610032:** HSS Sharpening Wheel
- 610033:** Carbide Sharpening Wheel
- 660030:** 31-32mm Collet Sets
- 660035:** 31-32mm Collet Holder

END-MILLING BIT SHARPENERS

GF14 | GF14A | GF30A

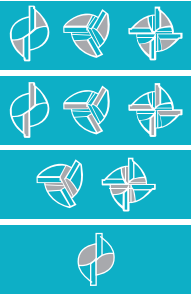
GF14

MODEL	GF14
Motor Power	160 W
Voltage	230 V
Speed	4400 rpm
Drill Bit Angle	3°
Sharpening capacity	Ø4- Ø14 mm
Dimensions(LxWxH)	350x230x240 mm
Net Weight	14 Kg

Standard Accessories

- Machine mounted sharpening wheel (for HSS bits)
- Collet holder
- Ø 4,6,8,10,12,14 mm collet

Sharpening surfaces



Optional Accessories:

- 620014:** HSS Sharpening Wheel
- 620015** Carbide Sharpening Wheel

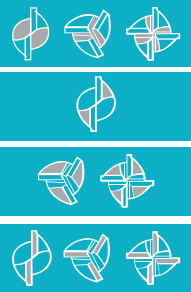
GF14A

MODEL	GF14A
Motor Power	180 W
Voltage	230 V
Speed	4400 rpm
Drill Bit Angle	0°-5°
Sharpening capacity	Ø4- Ø14 mm
Dimensions(LxWxH)	350x230x240 mm
Net Weight	14 Kg

Standard Accessories

- Machine mounted sharpening wheel (for HSS bits)
- Collet holder
- Ø 4,6,8,10,12,14 mm collet

Sharpening surfaces



Optional Accessories:

- 620016:** HSS Sharpening Wheel
- 620017** Carbide Sharpening Wheel

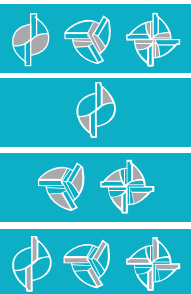
GF30A

MODEL	GF30A
Motor Power	250 W
Voltage	230 V
Speed	4400 rpm
Drill Bit Angle	0°-5°
Sharpening capacity	Ø12- Ø30 mm
Dimensions(LxWxH)	400x280x310 mm
Net Weight	28 Kg

Standard Accessories

- Machine mounted sharpening wheel (for HSS bits)
- Collet holder
- Ø12-Ø30 mm arası 19 pcs collet

Sharpening surfaces

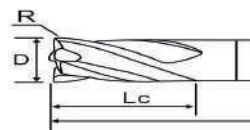
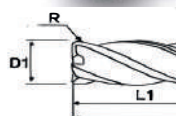


Optional Accessories:

- 620030:** HSS Sharpening Wheel
- 620031** Carbide Sharpening Wheel

UNIVERSAL SHARPENING MACHINE

GA20 SERVO



GA20 SERVO UNIVERSAL SHARPENING MACHINE

Motor Power		1,5 kW
Voltage		230 V
Speed		3500-5000 rpm
Sharpening Capacity	3 and 4 Flute Radius End Milling	Ø3-Ø20mm
	2,3 and 4 Flute Flat End Milling	Ø3-Ø20mm
	5 and 4 Flute Ball Nose End Milling	Ø4-Ø16mm
	Drill Bit	Ø3-Ø20mm
	Chamfer Cutter	Ø3-Ø12mm
Grinding Wheel Size		120x10x32 mm
Dimensions (LxWxH)		1580x400x715 mm
Net Weight		

• Standard Accessories

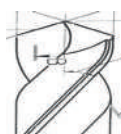
- Machine mounted sharpening wheel (for HSS bits)
- Sharpening wheel for carbide bits
- 3-20mm collet set
- Machine stand

3 Flute Radius End Milling

Diameter (D)	R	R	R	R	R	R	R	R	R	R	R
Ø3	0,2	0,3	0,5								
Ø4	0,2	0,3	0,5	1							
Ø5	0,2	0,3	0,5	1							
Ø6	0,2	0,3	0,5	1	1,5	2					
Ø8	0,2	0,3	0,5	1	1,5	2	2,5	3			
Ø10			0,5	1	1,5	2	2,5	3			
Ø12			0,5	1	1,5	2	2,5	3	4		
Ø14			0,5	1	1,5	2	2,5	3	4		
Ø16			0,5	1	1,5	2	2,5	3	4	5	
Ø18			0,5	1	1,5	2	2,5	3	4	5	6
Ø20			0,5	1	1,5	2	2,5	3	4	5	6

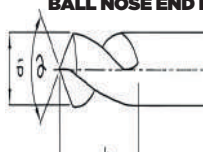
4 Flute Radius End Milling

Diameter (D)	R	R	R	R	R	R	R	R	R	R	R
Ø3	0,2	0,3	0,5								
Ø4	0,2	0,3	0,5	1							
Ø5	0,2	0,3	0,5	1							
Ø6	0,2	0,3	0,5	1	1,5	2					
Ø8	0,2	0,3	0,5	1	1,5	2	2,5	3			
Ø10			0,5	1	1,5	2	2,5	3			
Ø12			0,5	1	1,5	2	2,5	3	4		
Ø14			0,5	1	1,5	2	2,5	3	4		
Ø16			0,5	1	1,5	2	2,5	3	4	5	
Ø18			0,5	1	1,5	2	2,5	3	4	5	6
Ø20			0,5	1	1,5	2	2,5	3	4	5	6

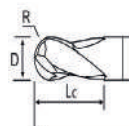


Drill Bit	Diameter
2,3,4 Flute Flat End Mill	Ø3-Ø20

BALL NOSE END MILL

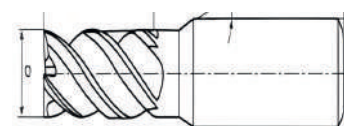


Ball Nose Tip	Diameter
Ball Nose Tip	Ø3-Ø12



Diameter (ØD)	RADIUS (R)
Ø4	R2
Ø5	R2.5
Ø6	R3
Ø8	R4
Ø10	R5
Ø12	R6
Ø14	R7
Ø16	R8

CHAMFER CUTTER



2,3 and 4 Flute Flat End Milling	Diameter (D)				
2,3 and 4 Flute Flat End Milling	Ø3	Ø4	Ø5	Ø6	Ø8
2,3 and 4 Flute Flat End Milling	Ø10	Ø12	Ø14	Ø16	Ø18
	Ø20				

UNIVERSAL SHARPENERS/ACCESSORIES

GU20 | SHARPENERS ACCESSORIES

GU20

MODEL	GU20
Motor Power	250 W
Voltage	230 V
Speed	5200 rpm
Peak Angle	0°-180°
Well Angle	0°-45°
Negative angle	0°-25°
Clamp Capacity(max)	Ø18 mm
Sharpening Capacity(max)	Ø18 mm
Dimensions(LxWxH)	550x460x490 mm
Net Weight	55 Kg

Standard Accessories

- Sharpening Wheel
- Drill bit sharpener
- End mill sharpener
- Lathe tool sharpening
- Ø 4-6-8 mm collet



Optional Accessories:
620022: Sharpening Wheel
Collets between 662203 and 662218

SHARPENING ACCESSORIES

WHETSTONES

PRODUCT CODE	INSTRUCTION
610010	Sharpening Wheel GM13
610013	Sharpening Wheel- HSS for GD13R
610014	Sharpening Wheel- Carbide for GD13R
610015	Sharpening Wheel- HSS for GD13T/GD30T Plus(3-13mm)
610016	GD13T/GD30T Plus(3-13mm) For Sharpening Wheel- Carbide
610022	Sharpening Wheel for GU20
610032	Sharpening Wheel- HSS for GD30/T/Plus (13-30mm)
610033	Sharpening Wheel- Carbide for GD30/T/Plus (13-30mm)
620014	Sharpening Wheel- HSS for GF14
620015	Sharpening Wheel- Carbide for GF14
620016	Sharpening Wheel- HSS for GF14A
620017	Sharpening Wheel- Carbide for GF14A
620030	Sharpening Wheel- HSS for GF30A
620031	Sharpening Wheel- Carbide for GF30A

TO INCREASE THE SHARPENING CAPACITY ;
• Sharpening capacity can be increased with 660010 the models GD30 and GD30T
• The sharpening capacity can be increased with the models 660030 and 660035 GD30, GD30T and GD30T Plus

COLLET AND HOLDERS

PRODUCT CODE	INSTRUCTION
660010	ER40 collet sets 8-12mm
660030	ER40 collet sets 31-32mm
660035	ER40 collet holder 31-32mm
662003	ER20-3mm collet
662004	ER20-4mm collet
662005	ER20-5mm collet
662006	ER20-6mm collet
662007	ER20-7mm collet
662008	ER20-8mm collet
662009	ER20-9mm collet
662010	ER20-10mm collet
662011	ER20-11mm collet
662012	ER20-12mm collet
662013	ER20-13mm collet
662203	3mm collet for GU20
662204	4mm collet for GU20
662205	5mm collet for GU20
662206	6mm collet for GU20
662208	8mm collet for GU20
662209	9mm collet for GU20
662210	10mm collet for GU20
662212	12mm collet for GU20

PRODUCT CODE	INSTRUCTION
662214	14mm collet for GU20
662216	16mm collet for GU20
662218	18mm collet for GU20
664013	ER40-13mm collet
664014	ER40-14mm collet
664015	ER40-15mm collet
664016	ER40-16mm collet
664017	ER40-17mm collet
664018	ER40-18mm collet
664019	ER40-19mm collet
664020	ER40-20mm collet
664021	ER40-21mm collet
664022	ER40-22mm collet
664023	ER40-23mm collet
664024	ER40-24mm collet
664025	ER40-25mm collet
664026	ER40-26mm collet
664027	ER40-27mm collet
664028	ER40-28mm collet
664029	ER40-29mm collet
664030	ER40-30mm collet



ACCESSORIES

DRILL MORSE TAPER

ITEM NO	MK-B	d (mm)	L (mm)
110102	MK2-B16	15,73	112
110103	MK3-B16	15,73	131
110104	MK4-B16	15,73	156



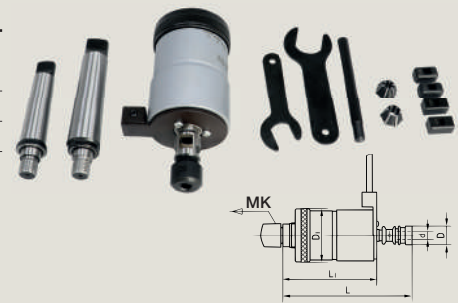
DRILLING MACHINE VICE

ITEM NO	WIDTH OF JAW (mm)	HEIGHT OF JAW (mm)	MAX. OPENING (mm)	NET WEIGHT (kg)
150100	100	23	75	7,90
150125	125	26	100	8,95
150150	150	30	125	9,50
150200	200	35	175	11,82



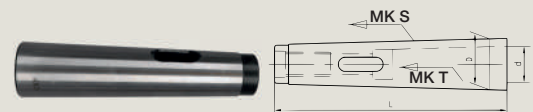
REVERSIBLE TAPPING CHUCK

ITEM NO	TAPPING CAPACITY	MS NO	d (mm)	D (mm)	D1 (mm)	L (mm)	L1 (mm)
190002	M2-M7	MK2	2,5	23	55	135	95
190003	M5-M12	MK3	3,5	28	75	164	114,5
190004	M8-M20	MK4	6	38	90,5	205	135



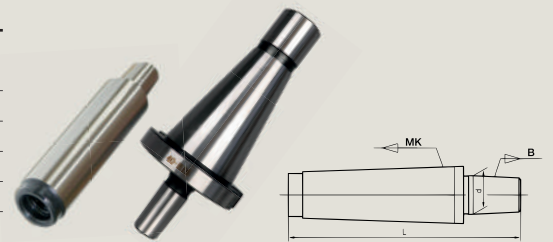
MORSETAPER SLEEVES (Drawbar type)

ITEM NO	MS NO (MT No.S)	MS NO (MT No.T)	D (mm)	d (mm)	L(mm)
220032	3	2	23,82	17,78	116
220042	4	2	31,26	17,78	120
220043	4	3	31,26	23,82	140



MILLING MORSE TAPER

ITEM NO	MS No	d (mm)	L (mm)
210102	MK2	15,73	101
210103	MK3	15,73	118
210104	MK4	15,73	141
210106	ISO40	15,73	143
210107	ISO50	15,73	182



MILLING MACHINE VICE

ITEM NO	WIDTH OF JAW (mm)	HEIGHT OF JAW (mm)	MAX. OPENING (mm)	NET WEIGH (kg)
250100	100	32	100	16
250125	125	40	125	20
250160	160	45	150	35
250200	200	50	190	56



58 - Pcs CLAMPING KIT

ITEM NO	STUD SIZE (mm)	T-SLOT (mm)
270008	M8x1,25	10 mm
270010	M10x1,5	12 mm
270012	M12X1,75	14 mm
270014	M14x2	16 mm
270016	M16x2	18 mm



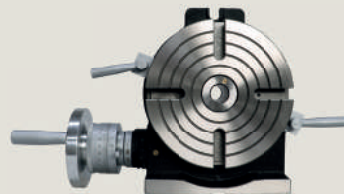
COLLET SET

ITEM NO	COLLET CHUCK	COLLET PCS.	COLLET SIZE(mm)
210202	MT2 - ER25 COLLET SET	19 PCS	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20
210203	MT3 - ER25 COLLET SET	18 PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20
210204	MT4 - ER32 COLLET SET	18 PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20
210206	ISO40 - ER40 COLLET SET	15 PCS	3,4,5,6,8,10,12,14,15,16,18,20,22,24,26
210207	ISO50 - ER40 COLLET SET	15 PCS	3,4,5,6,8,10,12,14,15,16,18,20,22,24,26



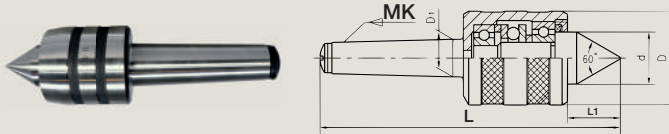
ROTARY TABLE

ITEM NO	TABLE DIAMETER (mm)	MORSE TAPER OF THE CENTER HOLE	DIAMETER OF THE CENTER HOLE	T-SLOT (mm)	HOR. LOAD CAPACITY (KG)	VERT. LOAD CAPACITY (KG)	NET WEIGHT
260100	100	MK2	20x8	6	20	10	8
260160	160	MK2	25x6	10	100	50	30
260200	200	MK3	30x6	12	150	75	42



MEDIUM-DUTY LIVE CENTER

ITEM NO	MS NO	L (mm)	L1 (mm)	D (mm)	D1 (mm)	d (mm)	Max Load (N)	Max. Speed (prm)	WEIGHT	Sensitivity (mm)
310101	MK1	115	20	34	12,065	18	900	5000	0,29	0,01
310102	MK2	145	26	45	17,78	25	1500	5000	0,7	0,01
310103	MK3	170	30	52	23,082	28	2000	4200	0,93	0,01
310104	MK4	205,7	34,7	60	31,26	32	3200	3200	1,7	0,01
310105	MK5	254	45	77	44,39	45	6300	2400	3,39	0,015



QUICK CHANGE TOOL HOLDER

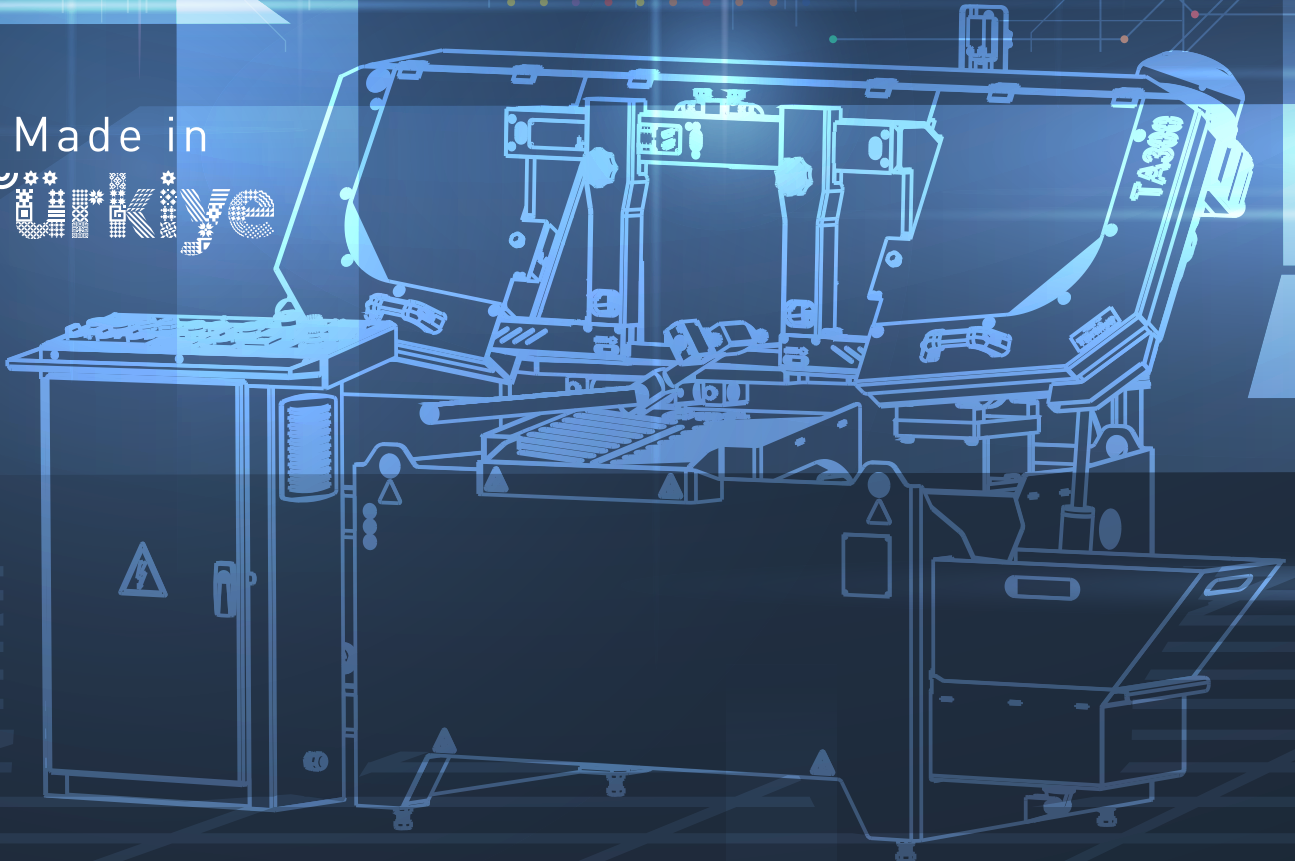
ITEM NO	TOOL HOLDER (mm)	SET CONTENT
320101	12x50	1 Pcs A type, 1Pcs H type & 3 Pcs Dtype tool holder
320102	20x90	1 Pcs A type, 1Pcs H type & 3 Pcs Dtype tool holder
320103	20x100	1 Pcs A type, 1Pcs H type & 3 Pcs Dtype tool holder
320104	25x120	1 Pcs A type, 1Pcs H type & 3 Pcs Dtype tool holder
320105	32x150	1 Pcs A type, 1Pcs H type & 3 Pcs Dtype tool holder



AVRASYA BANDSAW MACHINES

Made in

TURKEY



www.avrasyaexport.com

MANUAL BANDSAW MACHINE

T200



- Angle cut up to 45° from vice



- 32-64 m/min 2 speed step



- Coolant system



- Hydraulic system allowing the easy adjustment of the downward travel of the head and the feeding speed.

- Switch system that stops the saw after cutting
- 45° angle setting
- Coolant system
- Wheel system that provides mobility to the machine
- Hydraulic feeding system
- CE standard

Standard Accessories

- Adjustable support arm
- Bi-metal saw blade mounted on the machine
- Wheel system



MODEL	T200
Main Motor Power	0.7-0,85 kW, 380 V
Cutting Angle	0°-45°
Cutting Angle Adjustment	From Vice
Head descent speed regulation/feeding	Hydraulic
Blade Dimensions	20x0,9x2360 mm
Cutting Capacity 0°	● 200 mm; ■ 200x200 mm; ■ 120x300 mm
Cutting Capacity 45°	● 120 mm; ■ 120x120 mm; ■ 110x130 mm
Speed	32/64 m/min
Step	2
Machine Dimensions	1065x655x1160 mm
Weight	140 kg

Optional Accessories:

Replacement saw band:

23605/8

20x0,9x2360mm- 5/8 tpi

23606/10

20x0,9x2360mm- 6/10 tpi

236010/14

20x0,9x2360mm- 10/14 tpi



MANUAL BANDSAW MACHINE

T225MV & T225MVS

380 V

230 V

- Unlimited steps between 24-84 m/min with inverter speed regulation/Vario system
- Digital speed display
- Hydro-mechanical band tensioning and saw pressure gauge
- Angle cut the hub up to 60°
- Ergonomic control panel providing ease of use
- Specially designed cast iron pulleys
- High quality hydraulic system that adjusts the feed rate
- High quality main motor, strong reducer structure
- Efficient coolant pump motor
- High quality electrical system
- Chip brush
- CE standard

Standard Accessories

- Adjustable support arm
- Bi-metal saw blade mounted on the machine



- Speed change with inverter
- Digital Speedometer



- Swivel head angle cutting capacity up to 60°



- Hydraulic system which allows easy adjustment of downward travel and feed rate



- Convenient hydro-mechanical band tensioning and saw pressure gauge



MODEL	T225MV	T225MVS
Motor Power	1,1 kW, 380 V	1,1 kW, 230 V
Swivel Head	0°-60°	
Cutting Angle Setting	Miter Cutting	
Feed Rate Adjustment	Hydraulic	
Blade Dimensions	27x0,9x2460 mm	
Cutting Capacity 0°	● 225mm; ■ 200x200 mm; ■ 265x150mm	
Cutting Capacity 45°	● 150mm; ■ 140x140mm; ■ 135x170mm	
Cutting Capacity 60°	● 80mm; ■ 80x80mm	
Speed	24 - 84 m/min	
Step	Inverter / Variable	
Machine Dimensions	13300x1080x1470 mm	
Weight	225 kg	

Optional Accessories:

Replacement saw band:

24605/8

27x0,9x2460mm- 5/8 tpi

24606/10

27x0,9x2460mm- 6/10 tpi

24608/12

27x0,9x2460mm- 8/12 tpi

246010/14

27x0,9x2460mm- 10/14 tpi



SEMI-AUTOMATIC BANDSAW MACHINE

TS275D

DUAL MITRE CUT

Angle adjustment from the hub up to 45° rear, up to 60° front/2-way swivel

head angle cutting, up to 45° left and up to 60° right

Automatic clamping

Hydraulic/Automatic clamping

Hydraulic/Automatic head movement

Manual feeding

- Unlimited steps between 28-100 m/min with inverter speed regulation/Vario system
- Digital speed display
- Single cutting line in the vise
- LED-Light illuminating the cutting area
- Hydro-mechanical band tensioning and saw pressure gauge
- Ergonomic control panel providing ease of use
- Special design cast pulleys
- High quality hydraulic system adjusting the feeding speed
- High quality main motor, strong reducer structure
- High quality electrical system
- Chip brush
- CE standard



6

Standard Accessories:

- Adjustable support arm
- Bi-metal saw blade mounted on the machine
- 3 Roll 1mt material stand

MODEL	TS275D
Motor Power	1,5 kW, 380 V
Swivel Head	-45°/+60°
Cutting Angle Setting	Adjustment Miter Cutting
Feed Rate Adjustment	Hydraulic
Blade Dimensions	27x0,9x3160 mm
Cutting Capacity 0°	● 275mm ■ 275x275 mm ■ 350x150mm
Cutting Capacity 60°	● 120mm ■ 120x120mm ■ 120x140mm
Cutting Capacity -45°	● 180mm ■ 160x160mm ■ 120x140mm
Saw Blade Dimensions	27x0,9x3160mm
Speed	28-100 m/min
Step	Inverter / Variable
Material Stand Height	960 mm
Clamp Opening Range	350 mm
Clamp Height	145 mm
Hydraulic Motor Power	0,18 kW
Coolant Motor Power	0,12 kW
Machine Dimensions	1530x1405x1585 mm
Weight	550 kg

Optional Accessories:

Replacement saw band:

36103/4

27x0,9x3160mm- 3/4 tpi

31604/6

27x0,9x3160mm- 4/6 tpi

31605/8

27x0,9x3160mm- 5/8 tpi



SEMI-AUTOMATIC BANDSAW MACHINE

TS300

STRAIGHT CUT

- Unlimited steps between 20-100 m/min with inverter speed regulation/Vario system
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Special designed strong reducer structure
- Reinforced material sliding system and long-lasting roller balls with specially designed double bearing system.
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard

TS300 (Semi-Automatic)

Hydraulic/Automatic material clamping
Hydraulic/Automatic head
Manuel material feeding



Standard Accessories

- 5 Roll material stand 1,5 mt
- Bi-metal saw blade mounted on the machine

MODEL	TS300
Motor Power	1,5 kW, 380 V
Cutting Angle	-
Vice Clamping	Hydraulic
Cutting Capacity	● 300mm; ■ 300x300 mm; ■ 300x350 mm
Saw Blade Dimensions	27x0,9x3660mm
Speed	20 - 100 m/min
Step	Inverter / Variable
Material feeding height	760 mm
Clamp Opening Range	0 - 375 mm
Clamp Height	190 mm
Driving Motor Power	0.37 kW
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2030x1300x1330 mm
Weight	725 Kg

Optional Accessories:

Replacement saw band:

36603/4

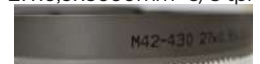
27x0,9x3660mm- 3/4 tpi

36604/6

27x0,9x3660mm- 4/6 tpi

36605/8

27x0,9x3660mm- 5/8 tpi



SEMI-AUTOMATIC BANDSAW MACHINE

TS300M

MITRE CUT

- Unlimited steps between 20-100 m/min with inverter speed regulation/Vario system
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Special designed strong reducer structure
- Reinforced material sliding system and long-lasting roller balls with specially designed double bearing system.
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision.
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard

Standard Accessories

- 5 Roll material stand 1.5 mt
- Bi-metal saw blade mounted on the machine

TS300M

(Semi Automatic-Miter Cutting)

Hydraulic/Automatic material clamping

Hydraulic/Automatic head travel

Manual material feeding



MODEL	TS300M
Motor Power	1,5 kW, 380 V
Cutting Angle	0-45°
Vice Clamping	Hydraulic
Saw Blade Dimensions	27x0,9x3960mm
Cutting Capacity 0°	● 300mm; ■ 300x300 mm; ■ 240x360 mm
Cutting Capacity 45°	● 230mm; ■ 220x220 mm; ■ 200x300 mm
Speed	20 - 100 m/min
Step	Inverter / Variable
Material feeding height	760 mm
Clamp Opening Range	0 - 415 mm
Clamp Height	190 mm
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2340x1430x1280 mm
Weight	825 Kg

Optional Accessories:

Replacement saw band:

39603/4

27x0,9x3960mm- 3/4 tpi

39604/6

27x0,9x3960mm- 4/6 tpi

39605/8

27x0,9x3960mm- 5/8 tpi



SEMI-AUTOMATIC BANDSAW MACHINE

TS360

STRAIGHT CUT

- Unlimited steps in the range of 14-100 m/min with inverter speed regulation/Vario system
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Material support
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision.
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard



Standard Accessories

- 5 Roll material stand 1.5 mt
- Bi-metal saw blade mounted on the machine



MODEL	TS360
Motor Power	2,2 kW, 380 V
Cutting Angle	-
Vice Clamping	Hydraulic
Saw Blade Dimensions	34x1,1x4560mm
Cutting Capacity 0°	● 360mm; ■ 360x360 mm; ■ 400x300 mm
Speed	14 - 100 m/min
Step	Inverter / Variable
Material feeding height	760 mm
Clamp Opening Range	0 - 450 mm
Clamp Height	230 mm
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2470x1350x1300 mm
Weight	893 Kg

TS360

(Semi Automatic-Straight Cut)

Hydraulic/Automatic material clamping
Hydraulic/Automatic head travel
Manuel material feeding

Optional Accessories:

Replacement saw band:

45603/4

34x1,1x4560mm- 3/4 tpi

45604/6

34x1,1x4560mm- 4/6 tpi

45605/8

34x1,1x4560mm- 5/8 tpi



SEMI-AUTOMATIC BANDSAW MACHINE

TS360M

MITRE CUT

- Unlimited steps in the range of 14-100 m/min with inverter speed regulation/Vario system
- Angle adjustment from head up to 45°
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Material support
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision.
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard



TS360M (Semi-Automatic)

- Hydraulic/Automatic material clamping
- Hydraulic/Automatic head
- Manuel material feeding



Standard Accessories

- Double Roll material stand 40 cm
- 5 Roll material stand 1.5 mt
- Bi-metal saw blade mounted on the machine

MODEL	TS360M
Motor Power	2,2 kW, 380 V
Cutting Angle	0°-45°
Vice Clamping	Hydraulic
Saw Blade Dimensions	34x1,1x4560mm
Cutting Capacity	● 360mm; ■ 360x360 mm; ■ 400x300 mm
Speed	14 - 100 m/min
Step	Inverter / Variable
Material feeding height	760 mm
Clamp Opening Range	0 - 520 mm
Clamp Height	230 mm
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2620x1460x1300 mm
Weight	910 Kg

Optional Accessories:

Replacement saw band:

45603/4

34x1,1x4560mm- 3/4 tpi

45604/6

34x1,1x4560mm- 4/6 tpi

45605/8

34x1,1x4560mm- 5/8 tpi



SEMI-AUTOMATIC BANDSAW MACHINE

TS420M

MITRE CUT

- Unlimited steps in the range of 16-117 m/min with inverter speed regulation/Vario system
- Angle adjustment from head up to 60°
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Material support
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision.
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard

TS420M (Semi-Automatic)

- Hydraulic/Automatic material clamping
- Hydraulic/Automatic head
- Manuel material feeding



Standard Accessories

- Double Roll material stand 40 cm
- 5 Roll material stand 1.5 mt
- Bi-metal saw blade mounted on the machine



MODEL	TS420M
Motor Power	3,0 kW, 380 V
Cutting Angle	0°-60°
Vice Clamping	Hydraulic
Saw Blade Dimensions	41x1,3x5260mm
Cutting Capacity 0°	● 420 mm; ■ 420x420 mm; ■ 420x620 mm
Cutting Capacity 45°	● 420mm; ■ 400x400 mm; ■ 380x420 mm
Cutting Capacity 60°	● 270mm; ■ 240x240 mm; ■ 200x330 mm
Speed	16 - 117 m/min
Step	Inverter
Material feeding height	760 mm
Clamp Opening Range	0 - 415 mm
Clamp Height	250 mm
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2900x1800x1400 mm
Weight	1650 Kg



Optional Accessories:

Replacement saw band:

52603/4

41x1,3x5260mm- 3/4 tpi

52604/6

41x1,3x5260mm- 4/6 tpi

52605/8

41x1,3x5260mm- 5/8 tpi



FULL-AUTOMATIC BANDSAW MACHINE

TA300

STRAIGHT CUT

- Unlimited steps in the range of 20-100 m/min with inverter speed regulation/Vario system
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Special designed strong reducer structure
- Reinforced material sliding system and long-lasting roller balls with specially designed double bearing system.
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision.
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard



TA300

(Full Automatic-Straight Cut)

Hydraulic/Automatic material clamping

Hydraulic/Automatic head travel

Automatic material feeding



MODEL	TA300
Motor Power	1,5 kW, 380 V
Cutting Angle	-
Vice Clamping	Hydraulic
Saw Blade Dimensions	27x0,9x3660mm
Cutting Capacity	● 300mm; ■ 300x300 mm; ■ 250x375 mm
Speed	20 - 100 m/min
Step	Inverter / Variable
Material feeding height	760 mm
Clamp Opening Range	0 - 375 mm
Clamp Height	190 mm
Driving Motor Power	0.37 kW
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2020x2560x1330 mm
Weight	785 Kg

Standard Accessories

- 5 Roll material stand 1.5 mt
- Double Roll material stand 400 cm
- Bi-metal saw blade mounted on the machine

Optional Accessories:

Replacement saw band:

36603/4

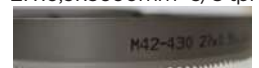
27x0,9x3660mm- 3/4 tpi

36604/6

27x0,9x3660mm- 4/6 tpi

36605/8

27x0,9x3660mm- 5/8 tpi



FULL-AUTOMATIC BANDSAW MACHINE

TA300M

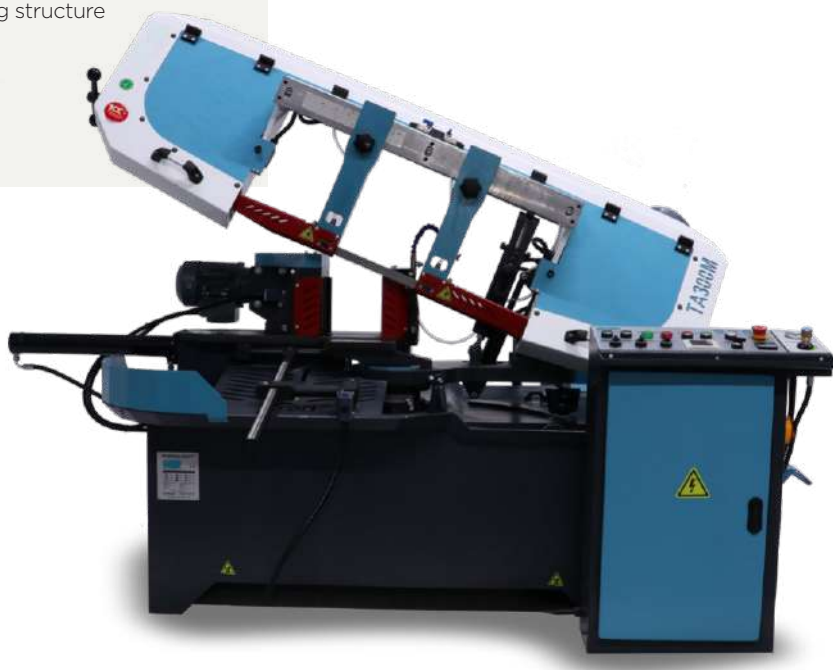
MITRE CUT

- Unlimited steps in the range of 20-100 m/min with inverter speed regulation/Vario system
- Angle adjustment from head up to 45°
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Special designed strong reducer structure
- Reinforced material sliding system and long-lasting roller balls with specially designed double bearing system.
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard



TA300M (Full Auto)

Hydraulic/Automatic material clamping
Hydraulic/Automatic head travel
Automatic material feeding



Standard Accessories

- 5 Roll material stand
- 2 Roll material stand
- Bi-metal saw blade mounted on the machine

MODEL	TA300M
Motor Power	1,5 kW, 380 V
Cutting Angle	0°-45°
Vice Clamping	Hydraulic
Saw Blade Dimensions	27x0,9x3960mm
Cutting Capacity	● 300mm; ■ 300x300 mm; ■ 240x330 mm
Speed	20 - 100 m/min
Step	Inverter / Variable
Material feeding height	760 mm
Clamp Opening Range	0 - 335 mm
Clamp Height	190 mm
Driving Motor Power	0.37 kW
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2250x2590x1280 mm
Weight	890 Kg

Optional Accessories:

Replacement saw band:

39603/4

27x0,9x3960mm- 3/4 tpi

39604/6

27x0,9x3960mm- 4/6 tpi

39605/8

27x0,9x3960mm- 5/8 tpi



FULL-AUTOMATIC BANDSAW MACHINE

TA360

STRAIGHT CUT

- Unlimited steps in the range of 14-100 m/min with inverter speed regulation/Vario system
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Material support
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Special designed strong reducer structure
- Reinforced material sliding system and long-lasting roller balls with specially designed double bearing system.
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision.
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard

TA360 (Full Auto)

Hydraulic/Automatic material clamping
Hydraulic/Automatic head travel
Automatic material feeding



Standard Accessories

- Double Roll material stand 40 cm
- 5 Roll material stand 1.5 mt
- Bi-metal saw blade mounted on the machine

MODEL	TA360
Motor Power	2,2 kW, 380 V
Cutting Angle	-
Vice Clamping	Hydraulic
Saw Blade Dimensions	34x1,1x4560mm
Cutting Capacity	● 360mm; ■ 360x360 mm; ■ 400x300 mm
Speed	14 - 100 m/min
Step	Inverter / Variable
Material feeding height	760 mm
Clamp Opening Range	0 - 450 mm
Clamp Height	230 mm
Driving Motor Power	0.37 kW
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2460x2680x1330 mm
Weight	905 Kg

Optional Accessories:

Replacement saw band:

45603/4

34x1,1x4560mm- 3/4 tpi

45604/6

34x1,1x4560mm- 4/6 tpi

45605/8

34x1,1x4560mm- 5/8 tpi



FULL-AUTOMATIC BANDSAW MACHINE

TA360M

MITRE CUT

- Unlimited steps in the range of 14-100 m/min with inverter speed regulation/Vario system
- Angle adjustment from head up to 45°
- Digital speedometer
- Ergonomic control panel providing ease of use.
- Material support
- Special design cast pulleys
- Hydro-mechanical band tensioning
- High quality main motor
- Special designed strong reducer structure
- Reinforced material sliding system and long-lasting roller balls with specially designed double bearing system.
- Adjustable vice pressure system
- Band saw system with double bearing structure that increases the cutting precision.
- Efficient coolant pump motor
- Chip brush
- High quality electrical system
- CE standard



Standard Accessories

- Double Roll material stand 40 cm
- 5 Roll material stand 1.5 mt
- Bi-metal saw blade mounted on the machine



MODEL	TA360M
Motor Power	2,2 kW, 380 V
Cutting Angle	0°-45°
Vice Clamping	Hydraulic
Saw Blade Dimensions	34x1,1x4560mm
Cutting Areas 0°	● 360mm; ■ 360x360 mm; ■ 400x300 mm
Cutting Areas 45°	● 250mm; ■ 230x230 mm; ■ 200x360 mm
Speed	14 - 100 m/min
Step	Inverter / Variable
Material feeding height	760 mm
Clamp Opening Range	0 - 450 mm
Clamp Height	230 mm
Driving Motor Power	0.37 kW
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2620x2690x1330 mm
Weight	995 Kg

TA360M (Full Auto)

- Hydraulic/Automatic material clamping
- Hydraulic/Automatic head travel
- Automatic material feeding

Optional Accessories:

Replacement saw band:

45603/4

34x1,1x4560mm- 3/4 tpi

45604/6

34x1,1x4560mm- 4/6 tpi

45605/8

34x1,1x4560mm- 5/8 tpi



AVRASYA CNC PRODUCT CATALOG



www.avrasyaexport.com



CNC VERTICAL MACHINING CENTER

MODEL	VM4	VM4D	VM6	VM6D	VM7	VM7D	VM8	VM8D	VM11	VM11D	VM13	VM13D	VM15	VM15D	VM18	VM18D
Main Engine Power	5.5 kW		5.5/7.5 kW	7.5/11 kW	5.5/7.5 kW		11/15 kW		11/15 kW		11/15 kW		15/18.5 kW		15/18.5 kW	
Powertrain	With belt	Direct Drive	With belt	Direct Drive	With belt	Direct Drive	With belt	Direct Drive	With belt	Direct Drive	With belt	Direct Drive	With belt	Direct Drive	With belt	Direct Drive
Spindle Speed	10,000 rpm	15,000 rpm	10,000 rpm	12,000 rpm	10,000 rpm	12,000 rpm	10,000 rpm	12,000 rpm	10,000 rpm	12,000 rpm	10,000 rpm	12,000 rpm	8,000 rpm	10,000 rpm	8,000 rpm	10,000 rpm
Spindle/Shaft Cone	BT40	BBT40	BT40	BBT40	BT40	BBT40	BT40	BBT40	BT40	BBT40	BT40	BBT40	BT50	BBT50	BT50	BBT50
Spindle Diameter	120 mm		120 mm		120 mm		150 mm		150 mm		155 mm		155 mm		190 mm	
Table Size	700x260 mm		800x500 mm		900x500 mm		1000x550 mm		1200x600 mm		1500x700 mm		1700x800 mm		2000x900 mm	
Table Capacity (max.)	200 kg		400 kg		400 kg		600 kg		1000 kg		1300 kg		1500 kg		1600 kg	
X, Y, Z Axis Movements	450, 260, 420 mm		600, 500, 500 mm		700, 500, 500 mm		800, 550, 550 mm		1100, 600, 600 mm		1300, 700, 700 mm		1500, 800, 700 mm		1800, 900, 600 mm	
X,Y,Z Serial Feed Rates	12/12/12 m/min	18/18/12 rpm	36/36/30 m/min		48/48/42 m/min		48/48/42 m/min		36/36/30 m/min		30/30/30 m/min		20/20/15 m/min		12/12/12 m/min	
Machine Dimensions (LxWxH)	2300x2000x2100 mm		3450x2150x2450 mm		3500x2240x2450 mm		3655x2657x2429 mm		3826x3000x2450 mm		4400x3500x2520 mm		5300x4200x3500 mm		5900x4300x3500mm	
Net Weight	1800 kg		4000 kg		4200 kg		5400 kg		7400 kg		10500 kg		14500 kg		16000 kg	

VM4 & VM4D CNC VERTICAL MACHINING CENTER



Sensitive and Economical Solution for Small Parts

X, Y, Z axis movements are 450, 260, 420 mm
VM4 & VM4D offer economical solutions for small parts with their high precision and advanced equipment.

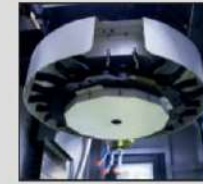
Optional Features

- Syntec M22A, Mitsubishi M80V, Fanuc 0i-MF Plus control unit
- BBT40 spindle
- 170 mm divider, TJR
- Divisor counter tailstock

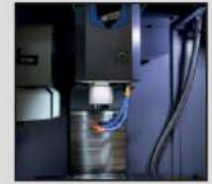
MODEL	VM4	VM4D
Main Engine Power	5.5 kW	
Table Size	700x260 mm	
T Slot Size	3/14/80 mm	
Table Capacity (max.)	200 kg	
X, Y, Z Axis Movements	450, 260, 420 mm	
Distance Between Shaft and Table	80-500 mm	
Distance Between Shaft and Column	330 mm	
Spindle Speed	10,000 rpm, Belt Type BT40	15,000 rpm, Direct Drive
Spindle/Shaft Cone	BBT40	
Spindle Diameter	120 mm	
X, Y, Z Serial Feed Rates	BT40	BBT40
X, Y, Z Motor Powers	1.1-1.1-2.4 kW	
Cutting Speed	10,000 mm/min	
Magazine Type and Capacity	12 Station Umbrella Type ATC	
Maximum Tool Diameter	100/200 mm	
Tool Change Time	1.8 seconds	
Pull Stud Type	P40-1 (45°)	
Control Unit	Syntec M22-A, Fanuc 0i-MF PLUS,	
Driver and Encoder	Syntec - Fanuc	
Main Engine Torque Power	35 Nm	17 Nm
X, Y, Z Roller Linear Guide Dimensions	25,30,30 mm	
X, Y, Z Ball Screw Diameters	25,25,25 mm	
Position Precision	±0.005	
Repeatable Position Sensitivity	±0.003	
Total Power Requirement	15 kW / 18 KVA	
Machine Dimensions (LxWxH)	2300x2000x2100 mm	
Net Weight	1,800 kg	

Hardware

- High precision ball bearing spindles (Taiwan) **HIWIN**)
- Roller linear guides with high rigidity and high dynamic/static load carrying capacity (Japan) • Roller linear **THK**)
- designed, strong bearing group (Japan) **NSK**
- High efficiency and precision spindle (Taiwan) • High top quality electrical system (France) **ROYAL**)
- Long-lasting central lubrication system (Japan) **Schneider**
- All axis motors, drives and encoders are with the control unit brand; **Mitsubishi** **FANUC** **SIEMENS** **SYNTEC**
- Ultra durable and highly leak-proof, stainless steel used in liquid contact areas, creating an ergonomic work area with systems such as lighting and cabin wash, patented special design machine cabin
- High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more



• 12-station Umbrella Type Magazine



• Royal Brand Precision Spindle



• 700x260mm Precision Table



• Syntec M22A & Fanuc 0i-TF Control Unit



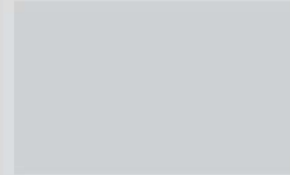
• Cooling System



• Syntec & Fanuc Drivers and Schneider Electrical System

Scope of Shipment

- 3 Axis linear guideway with rollers
- Telescopic slide guards on 3 axes
- Spindle cooling system • Air and cooling gun • Rigid tapping
- M30 automatic closing system
- Electrical cabinet cooling system
- Scale and balance shoes
- Interior cabin lighting • 3-color warning light
- Central lubrication system
- RS232 data transfer port system
- MPG, portable handwheel
- Fully enclosed cabin
- 380V/50 Hz transformer
- CE hardware



Optional Features



Table•255mm TJR



• Fanuc Oi-MF Plus/
Mitsubishi M80A/Syntec
22MA Control unit



• Fanuc/Mitsubishi /unit22A

SystemVM6 VM6D CNC VERTICAL MAC

MODEL	VM6	VM6D
Main Engine Power	5.5/7.5 kW	7.5/11 kW
Table Size	800x500 mm	
T Slot Size	5/18/90 mm	
Table Capacity (max.)	400 kg	
X, Y, Z Axis Movements	600, 500, 500 mm	
Spindle-Table Distance	120-620 mm	
Distance Between Shaft and Column	573 mm	
Spindle Speed	8,000 rpm, Belt Type BT40	12,000 rpm, Direct Drive
Spindle/Shaft Cone	BBT40	
Spindle Diameter	120 mm	
X,Y,Z Serial Feed Rates	36/36/30 mm	
X,Y,Z Motor Powers	2/2/3 kW	
Cutting Speed	1-12000 mm/min	
Magazine Type and Capacity	*24 Station Arm Type ATC	
Maximum Tool Diameter	80/150 mm	
Tool Change Time	*1.55 sec	
Control Unit	Mitsubishi M80A - Optional: Fanuc, Syntec	
Driver and Encoder	Mitsubishi - Fanuc, Syntec	
Main Engine Torque Power	23.6/52.5 Nm	
X,Y,Z Guideway Type	Roller linear guideway	
X, Y, Z Roller Linear Guide Dimensions	35/35/35 mm	
X, Y, Z Ball Screw Diameters	32/32/32 mm	
Chip Conveyor	Spiral Type	Pallet Type
Position Precision	0.008 mm	
Repeatable Position Accuracy	±0.025 mm	
Total Power Requirement	21.3 kW/25 kVA	
Machine Dimensions (LxWxH)	3450x2150x2450 mm	
Net Weight	4000 kg	

High precision ball bearings (Taiwan) High precision **HIWIN**)
static load carrying capacity linear roller guides (Japan) High
rigidity linear roller guides (Japan) Specially designed, strong **THH**)

•High efficiency and precision spindle (Taiwan) •High efficiency **ROYAL**)
system (France)

•Long-lasting central lubrication system (Japan)



•Ultra durable and highly leak-proof, stainless steel used in liquid contact areas,
creating an ergonomic work area with systems such as lighting and cabin
wash, patented special
design machine cabin

•High strength, vibration absorbing, rigid cast body that has been aged
for 6 months or more

•3 Axis linear guide with rollers •3

Axis telescopic guide protectorsHardware

•Spindle cooling system •Air and
cooling gun •Rigid tapping

•M30 automatic closing system

•Interior cabin lighting •3-
color warning light

•All axis motors, drives and encoders are with the control

•2x4 Bar cabin interior washing system

•MPG, portable hand wheel

•Fully enclosed cabin

•Pallet type chip conveyor

•CE hardware

VM7 & VM7D CNC VERTICAL MACHINING CENTER



Optional Features

- Mitsubishi M80V, Fanuc Oi-MF Plus control unit
- BBT40 spindle
- Cut-in quenching (CTS)
- Paddle type chip conveyor for VM7D
- Mitsubishi 15" screen for VM7D
- 255mm divider
- 320 mm divider
- Divisor counter tailstock

MODEL	VM7	VM7D
Main Engine Power	5.5/7.5 kW	
Table Size	900x500 mm	
T Slot Size	3/18/125 mm	
Table Capacity (max.)	400 kg	
X,Y,Z Axis Movements	700, 500, 500 mm	
Distance Between Shaft and Table	120-620 mm	
Distance Between Shaft and Column	560 mm	
Spindle Speed	10,000 rpm, Belt Type BT40	12,000 rpm, Direct Drive
Spindle/Shaft Cone	BBT40	
Spindle Diameter	120 mm	
X,Y,Z Serial Feed Rates	48/48/42 m/min	
X,Y,Z Motor Powers	2/2/3 kW	
Cutting Speed	10,000 mm/min	
Magazine Type and Capacity	24 Station Arm Type ATC	
Maximum Tool Diameter	80/130 mm	
Tool Change Time	1.55 sec	
Control Unit	Mitsubishi M80V - Optional: Fanuc Oi-MF PLUS	
Driver and Encoder	Mitsubishi-Fanuc	
Main Engine Torque Power	23.6/52.5 Nm	
X,Y,Z Guideway Type	Roller linear guideway	
X, Y, Z Roller Linear Guide Dimensions	35/35/35 mm	
X, Y, Z Ball Screw Diameters	32/32/32 mm	
Chip Conveyor	Spiral Type	Pallet Type
Position Precision	±0.005	
Repeatable Position Accuracy	±0.003	
Total Power Requirement	21.3 kW/25 kVA	
Machine Dimensions (LxWxH)	3500x2240x2450 mm	
Net Weight	4200 kg	

Hardware

High precision ball bearings (Taiwan) High precision **HIWIN**)
static load carrying capacity linear roller guides (Japan) High
rigidity linear roller guides (Japan) Specially designed, strong **THH**)

NSK

•High efficiency and precision spindle (Taiwan) •High efficiency **ROYAL**)
system (France)

Schneider

•Long-lasting central lubrication system (Japan)

•All axis motors, drives and encoders are with the control unit brand;

Mitsubishi **FANUC** **SIEMENS** **SYNTEC**

•Ultra durable and highly leak-proof, stainless steel used in liquid contact areas,
creating an ergonomic work area with systems such as lighting and cabin
wash, patented special
design machine cabin

•High strength, vibration absorbing, rigid cast body that has been aged
for 6 months or more



• 24-station Arm Type Magazine



• Royal Brand Precision Spindle



• 900x500mm Precision Table



• Fanuc Oi-MF Plus/ Mitsubishi M80A Control unit



• Cooling System and Chip Conveyor



• Fanuc/Mitsubishi Drivers and Schneider Electrical System

Scope of Shipment

•3 Axis linear guide with rollers •3

Axis telescopic guide protectors

•Z Axis nitrogen balancer

•Spindle cooling system •Air and cooling gun •Rigid tapping

•M30 automatic closing system

•Full molder package

•Electrical cabinet cooling system •Scale and balance shoes

•Interior cabin lighting •3-color warning light

•Central lubrication system

•RS232 data transfer port system

•P05 10,000 corners smooth rotation function

•2x4 Bar cabin interior washing system

•MPG, portable hand wheel

•Fully enclosed cabin

•Ready on the bench for CNC dividing
4th axis electrical system

•380V/50 Hz transformer

•CE hardware

VM8 & VM8D CNC VERTICAL MACHINING CENTER



Optional Features

- Mitsubishi M80V, Fanuc 0i-MF Plus control unit
- BBT40 spindle
- Cut-in quenching (CTS)
- Paddle type chip conveyor for VM8
- Mitsubishi 15" screen for VM8
- 255mm divider
- 320 mm divider
- Divisor counter tailstock

MODEL	VM8	VM8D
Main Engine Power	11/15 kW	
Table Size	1000x550 mm	
T Slot Size	5/18/90 mm	
Table Capacity (max.)	600 kg	
X,Y,Z Axis Movements	800, 550, 550 mm	
Distance Between Shaft and Table	120-670 mm	
Distance Between Shaft and Column	590 mm	
Spindle Speed	10,000 rpm, Belt Type BT40	12,000 rpm, Direct Drive
Spindle/Shaft Cone	BBT40	
Spindle Diameter	150 mm	
X,Y,Z Serial Feed Rates	48/48/42 m/min	
X,Y,Z Motor Powers	3/3/3 kW	
Cutting Speed	10,000 mm/min	
Magazine Type and Capacity	24 Station Arm Type ATC	
Maximum Tool Diameter	80/150 mm	
Tool Change Time	1.55 sec	
Control Unit	Mitsubishi M80V - Optional: Fanuc 0i-MF PLUS	
Driver and Encoder	Mitsubishi-Fanuc	
Main Engine Torque Power	52.5/118 Nm	
X,Y,Z Guideway Type	Roller linear guideway	
X, Y, Z Roller Linear Guide Dimensions	35/45/45 mm	
X, Y, Z Ball Screw Diameters	40/40/40 mm	
Chip Conveyor	Spiral Type	Pallet Type
Position Precision	±0.005	
Repeatable Position Accuracy	±0.003	
Total Power Requirement	25 kW/30 KVA	
Machine Dimensions (LxWxH)	3655x2657x2429 mm	
Net Weight	5400 kg	

Hardware

- High precision ball bearing spindles (Taiwan) Roller **HIWIN**) linear guides with high rigidity and high dynamic/static load carrying capacity (Japan) • Roller linear guides with high roud **THK**) (Japan) **NSK**
- High efficiency and precision spindle (Taiwan) • High efficiency **ROYAL**) system (France) **Schneider**
- Long-lasting central lubrication system (Japan) **SIEMENS**
- All axis motors, drives and encoders are with the control unit brand; **FANUC**
- Ultra durable and highly leak-proof, stainless steel used in liquid contact areas, creating an ergonomic work area with systems such as lighting and cabin wash, patented special design machine cabin
- High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more



• 24-station Arm Type Magazine



• Royal Brand Precision Spindle



• 900x500mm Precision Table



• Fanuc 0i-MF Plus/Mitsubishi M80A Control unit



• Cooling System and Chip Conveyor



• Fanuc/Mitsubishi Drivers and Schneider Electrical System

Scope of Shipment

- 3 Axis linear guide with rollers • 3 Axis telescopic guide protectors
- Z Axis nitrogen balancer
- Spindle cooling system • Air and cooling gun • Rigid tapping
- M30 automatic closing system
- Full molder package
- Electrical cabinet cooling system • Scale and balance shoes
- Interior cabin lighting • 3-color warning light
- Central lubrication system
- RS232 data transfer port system
- P05 10,000 corners smooth rotation function
- 2x4 Bar cabin interior washing system (except VM4 series)
- MPG, portable handwheel
- Fully enclosed cabin
- Ready on the bench for CNC dividing 4th axis electrical system
- 380V/50 Hz transformer
- CE hardware

VM11 & VM11D CNC VERTICAL MACHINING CENTER



Optional Features

- Mitsubishi M80V, Fanuc Oi-MF Plus control unit
- BBT40 spindle
- Cut-in quenching (CTS)
- Paddle type chip conveyor for VM11D
- Mitsubishi 15" screen for VM11D
- 255mm divider
- 320 mm divider
- Divisor counter tailstock



• 24-station Arm Type Magazine



• Royal Brand Precision Spindle



• 1200x600mm Precision Table



• Fanuc Oi-MF Plus/Mitsubishi M80A Control unit



• Cooling System and Chip Conveyor



• Fanuc/Mitsubishi Drivers and Schneider Electrical System

MODEL	VM11	VM11D
Main Engine Power	11/15 kW	
Table Size	1200x600 mm	
T Slot Size	5/18/100 mm	
Table Capacity (max.)	1000 kg	
X,Y,Z Axis Movements	1100, 600, 600 mm	
Distance Between Shaft and Table	120-720 mm	
Distance Between Shaft and Column	650 mm	
Spindle Speed	10,000 rpm, Belt Type BT40	12,000 rpm, Direct Drive
Spindle/Shaft Cone	BBT40	
Spindle Diameter	150 mm	
X,Y,Z Serial Feed Rates	36/36/30 m/min	
X,Y,Z Motor Powers	3/3/3 kW	
Cutting Speed	10,000 mm/min	
Magazine Type and Capacity	24 Station Arm Type ATC	
Maximum Tool Diameter	80/150 mm	
Tool Change Time	1.55 sec	
Control Unit	Mitsubishi M80V - Optional: Fanuc Oi-MF PLUS	
Driver and Encoder	Mitsubishi-Fanuc	
Main Engine Torque Power	70/118 Nm	
X,Y,Z Guideway Type	Roller linear guideway	
X, Y, Z Roller Linear Guide Dimensions	45/45/45 mm	
X, Y, Z Ball Screw Diameters	40/40/40 mm	
Chip Conveyor	Spiral Type	Pallet Type
Position Precision	±0.005	
Repeatable Position Accuracy	±0.003	
Total Power Requirement	27 kW/30 kVA	
Machine Dimensions (LxWxH)	3826x3000x2450 mm	
Net Weight	7400 kg	

Hardware

- High precision ball bearing spindles (Taiwan)  ()
- Roller linear guides with high rigidity and high dynamic/static load carrying capacity (Japan) • Roller linear  () designed, strong bearing group (Japan)  ()
- High efficiency and precision spindle (Taiwan) • High top quality electrical system (France)  ()
- Long-lasting central lubrication system (Japan)  ()
- All axis motors, drives and encoders are with the control unit brand;   
- Ultra durable and highly leak-proof, stainless steel used in liquid contact areas, creating an ergonomic work area with systems such as lighting and cabin wash, patented special design machine cabin
- High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more

Scope of Shipment

- 3 Axis linear guide with rollers • 3 Axis telescopic guide protectors
- Z Axis nitrogen balancer
- Spindle cooling system • Air and cooling gun • Rigid tapping
- M30 automatic closing system
- Full molder package
- Electrical cabinet cooling system • Scale and balance shoes
- Interior cabin lighting • 3-color warning light
- Central lubrication system
- Nitrogen balancer
- RS232 data transfer port system
- P05 10,000 corners smooth rotation function
- 2x4 Bar cabin interior washing system
- MPG, portable hand wheel
- Fully enclosed cabin
- Ready on the bench for CNC dividing 4th axis electrical system
- 380V/50 Hz transformer
- CE hardware

VM13 & VM13D CNC VERTICAL MACHINING CENTER



Optional Features

- Mitsubishi M80V, Fanuc Oi-MF Plus control unit
- BBT40 spindle
- Cut-in quenching (CTS)
- Paddle type chip conveyor for VM13D
- Mitsubishi 15" screen for VM13D
- 255mm divider
- 320 mm divider
- Divisor counter tailstock

MODEL	VM13	VM13D
Main Engine Power	11/15 kW	
Table Size	1500x700 mm	
T Slot Size	5/22/135 mm	
Table Capacity (max.)	1300 kg	
X,Y,Z Axis Movements	1300, 700, 700 mm	
Distance Between Shaft and Table	160-860 mm	
Distance Between Shaft and Column	740 mm	
Spindle Speed	10,000 rpm, Belt Type BT40	12,000 rpm, Direct Drive
Spindle/Shaft Cone	BBT40	
Spindle Diameter	155 mm	
X,Y,Z Serial Feed Rates	30/30/30 m/min	
X,Y,Z Motor Powers	3/3/3 kW	
Cutting Speed	10,000 mm/min	
Magazine Type and Capacity	24 Station Arm Type ATC	
Maximum Tool Diameter	80/150 mm	
Tool Change Time	1.55 sec	
Control Unit	Mitsubishi M80V - Optional: Fanuc Oi-MF PLUS	
Driver and Encoder	Mitsubishi-Fanuc	
Main Engine Torque Power	77.8/159 Nm	
X,Y,Z Guideway Type	Roller linear guideway	
X, Y, Z Roller Linear Guide Dimensions	45/45/55 mm	
X, Y, Z Ball Screw Diameters	50/50/50 mm	
Chip Conveyor	Spiral Type	Pallet Type
Position Precision	±0.005	
Repeatable Position Accuracy	±0.003	
Total Power Requirement	27 kW/30 kVA	
Machine Dimensions (LxWxH)	4400x3500x2520 mm	
Net Weight	10,500 kg	

Hardware

- High precision ball bearing spindles (Taiwan) **HIWIN**)
- Roller linear guides with high rigidity and high dynamic/static load carrying capacity (Japan) • Roller linear **THK**)
- designed, strong bearing group (Japan) **NSK**
- High efficiency and precision spindle (Taiwan) • High end **ROYAL**)
- top quality electrical system (France) **Schneider**
- Long-lasting central lubrication system (Japan) **DAI**
- All axis motors, drives and encoders are with the control unit brand; **FANUC** **SIEMENS**
- Ultra durable and highly leak-proof, stainless steel used in liquid contact areas, creating an ergonomic work area with systems such as lighting and cabin wash, patented special design machine cabin
- High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more



• 24-station Arm Type Magazine



• Royal Brand Precision Spindle



• 1500x700mm Precision Table



• Fanuc Oi-MF Plus/Mitsubishi M80A Control unit



• Cooling System and Chip Conveyor



• Fanuc/Mitsubishi Drivers and Schneider Electrical System

Scope of Shipment

- 3 Axis linear guide with rollers • 3 Axis telescopic guide protectors
- Z Axis nitrogen balancer
- Spindle cooling system • Air and cooling gun • Rigid tapping

- M30 automatic closing system
- Full molder package
- Electrical cabinet cooling system • Scale and balance shoes
- Interior cabin lighting • 3-color warning light
- Central lubrication system
- Nitrogen balancer
- RS232 data transfer port system
- P05 10,000 corners smooth rotation function
- 2x4 Bar cabin interior washing system
- MPG, portable handwheel
- Fully enclosed cabin
- Ready on the bench for CNC dividing 4th axis electrical system
- 380V/50 Hz transformer
- CE hardware

VM15 & VM15D CNC VERTICAL MACHINING CENTER



Optional Features

- Mitsubishi M80V, Fanuc Oi-MF Plus control unit
- BBT50 spindle
- Cut-in quenching (CTS)
- Paddle type chip conveyor for VM15D
- Mitsubishi 15" screen for VM15D
- 255mm divider
- 320 mm divider
- Divisor counter tailstock

MODEL	VM15	VM15D
Main Engine Power	15/18.5 kW	
Table Size	1700x800 mm	
T Slot Size	5/22/135 mm	
Table Capacity (max.)	1500 kg	
X,Y,Z Axis Movements	1500, 800, 700 mm	
Distance Between Shaft and Table	130-830 mm	
Distance Between Shaft and Column	810 mm	
Spindle Speed	8,000 rpm, Belt Type BT50	10,000 rpm, Direct Drive
Spindle/Shaft Cone	BBT50	
Spindle Diameter	155 mm	
X,Y,Z Serial Feed Rates	20/20/15 m/min	
X,Y,Z Motor Powers	3/3/4.5 kW	
Cutting Speed	8000 mm/min	
Magazine Type and Capacity	24 Station Arm Type ATC	
Maximum Tool Diameter	110/220 mm	
Tool Change Time	2.91 sec	
Control Unit	Mitsubishi M80V - Fanuc Oi-MF PLUS	
Driver and Encoder	Mitsubishi-Fanuc	
Main Engine Torque Power	70/118 Nm	
X,Y,Z Guideway Type	X,Y: Roller Linear, Z: Box Type	
X, Y, Z Roller Linear Guide Dimensions	55/45/Box Slide mm	
X, Y, Z Ball Screw Diameters	63/63/50 mm	
Chip Conveyor	Spiral Type	Pallet Type
Position Precision	±0.006	
Repeatable Position Accuracy	±0.004	
Total Power Requirement	34.5 kW/40 kVA	
Machine Dimensions (LxWxH)	5300x4200x3500 mm	
Net Weight	14,500 kg	

Hardware

- High precision ball bearings (Taiwan) High **HIWIN**)
and high dynamic/static load carrying capacity linear
roller guides (Japan) High rigidity linear roller guides **THK**)
(Japan) **NSK**
• High efficiency and precision spindle (Taiwan) • High **ROYAL**)
top quality electrical system (France) **Schneider**
• Long-lasting central lubrication system (Japan) **DAIWA**
• All axis motors, drives and encoders are with the control unit brand;
FANUC SIEMENS
• Ultra durable and highly leak-proof, stainless steel used in liquid
contact areas, creating an ergonomic work area with systems such
as lighting and cabin wash, patented special
design machine cabin
• High strength, vibration absorbing, rigid cast body that has
been aged for 6 months or more



• 24-station Arm Type Magazine



• Royal Brand Precision Spindle



• 1700x800mm Precision Table



• Fanuc Oi-MF Plus/Mitsubishi M80A Control unit



• Cooling System and Chip Conveyor



• Fanuc/Mitsubishi Drivers and Schneider Electrical System

Scope of Shipment

- 3 Axis linear guide with rollers • 3 Axis telescopic guide protectors
- Z Axis nitrogen balancer
- Spindle cooling system • Air and cooling gun • Rigid tapping
- M30 automatic closing system
- Full molder package
- Electrical cabinet cooling system • Scale and balance shoes
- Interior cabin lighting • 3-color warning light
- Central lubrication system
- RS232 data transfer port system
- P05 10,000 corners smooth rotation function
- 2x4 Bar cabin interior washing system
- MPG, portable hand wheel
- Fully enclosed cabin
- Ready on the bench for CNC dividing 4th axis electrical system
- 380V/50 Hz transformer
- CE hardware

VM18 & VM18D CNC VERTICAL MACHINING CENTER



Optional Features

- Mitsubishi M80V, Fanuc 0i-MF Plus control unit
- BBT50 spindle
- Cut-in quenching (CTS)
- Paddle type chip conveyor for VM18D
- Mitsubishi 15" screen for VM18D
- 255mm divider
- 320 mm divider
- Divisor counter tailstock



• 24-station Arm Type Magazine



• Royal Brand Precision Spindle



• 2000x900mm Precision Table



• Fanuc 0i-MF Plus/ Mitsubishi M80A Control unit



• Cooling System and Chip Conveyor



• Fanuc/Mitsubishi Drivers and Schneider Electrical System

Hardware

- High precision ball bearings (Taiwan) High **HIWIN**)
and high dynamic/static load carrying capacity linear roller guides (Japan) High rigidity lineargroup guides **THK**) (Japan)
• High efficiency and precision spindle (Taiwan) • High **NSK** and **ROYAL**)
top quality electrical system (France) **Schneider**
• Long-lasting central lubrication system (Japan) **CEC**
• All axis motors, drives and encoders are with the control unit brand; **FANUC** **SIEMENS**
• Ultra durable and highly leak-proof, stainless steel used in liquid contact areas, creating an ergonomic work area with systems such as lighting and cabin wash, patented special design machine cabin
• High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more

MODEL	VM18	VM18D
Main Engine Power	15/18.5 kW	
Table Size	2000x900 mm	
T Slot Size	5/22/165 mm	
Table Capacity (max.)	1600 kg	
X,Y,Z Axis Movements	1800, 900, 600 mm	
Distance Between Shaft and Table	112-712 mm	
Distance Between Shaft and Column	950 mm	
Spindle Speed	8,000 rpm, Belt Type BT50	10,000 rpm, Direct Drive
Spindle/Shaft Cone	BBT50	
Spindle Diameter	190 mm	
X,Y,Z Serial Feed Rates	12/12/12 m/min	
X,Y,Z Motor Powers	4.5/4.5/4.5 kW	
Cutting Speed	"	
Magazine Type and Capacity	24 Station Arm Type ATC	
Maximum Tool Diameter	110/220 mm	
Tool Change Time	2.91 sec	
Control Unit	Mitsubishi M80V - Fanuc 0i-MF PLUS	
Driver and Encoder	Mitsubishi-Fanuc	
Main Engine Torque Power	"	
X,Y,Z Guideway Type	X,Y: Roller Linear, Z: Box Type	
X, Y, Z Roller Linear Guide Dimensions	55/45/Box Sled	
X, Y, Z Ball Screw Diameters	55/55/55 mm	
Chip Conveyor	Spiral Type	Pallet Type
Position Precision	±0.006	
Repeatable Position Accuracy	±0.004	
Total Power Requirement	34.5 kW/40 kVA	
Machine Dimensions (LxWxH)	5900x4300x3500 mm	
Net Weight	16,000 kg	

Scope of Shipment

- 3 Axis linear guide with rollers • 3

Axis telescopic guide protectors

- Z Axis nitrogen balancer
- Spindle cooling system • Air and cooling gun • Rigid tapping

- M30 automatic closing system
- Full molder package
- Electrical cabinet cooling system • Scale and balance shoes
- Interior cabin lighting • 3-color warning light

- Central lubrication system
- RS232 data transfer port system
- P05 10,000 corners smooth rotation function
- 2x4 Bar cabin interior washing system
- MPG, portable handwheel
- Fully enclosed cabin
- Ready on the bench for CNC dividing 4th axis electrical system
- 380V/50 Hz transformer
- CE hardware

CNC VERTICAL MACHINING CENTER STANDARD/ OPTIONAL EQUIPMENT

MODEL	BT40 B	BT40 BT50	BBT50	15/18.5 kW	8000 RPM 20 BAR CTS OIL SCRAPER			MITSUBISHI M80V, 10" FANUC 0i-MF PLUS, 10"	"MITSUBISHI M80V,15"	SYNTEC M22A 10"	SPIRAL MEDICINE CONVEYOR	PALLET TYPE CONTAINER
VM4	•	•	-	-	-	-	•	•	-	•	-	-
VM4D	•	•	-	-	-	-	•	•	-	•	-	-
VM6	•	•	-	-	-	•	•	•	•	•	-	•
VM6D	•	•	-	-	-	•	•	•	•	•	-	•
VM7	•	•	-	-	-	•	•	•	•	•	•	•
VM7D	•	•	-	-	-	•	•	•	•	•	•	•
VM8	•	•	-	-	-	•	•	•	•	•	•	•
VM8D	•	•	-	-	-	•	•	•	•	•	•	•

- Indicates that it is a standard feature.
- Indicates that it can be selected as an option.
- Indicates that it is not suitable.

Note: VM15D and VM18D models are not equipped with CTS. They can be produced with CTS upon special request.

CNC VERTICAL MACHINING CENTER STANDARD/ OPTIONAL EQUIPMENT

MODEL	BT40	BT40	BT50	15/18.5 kW	8000 RPM 20 BAR CTS OIL SCRAPER			MITSUBISHI M80V, 10" FANUC 0i-MF PLUS, 10"	"MITSUBISHI M80V,15"	SYNTEC M22A 10"	SPIRAL MEDICINE CONVEYOR	PALLET TYPE CONTAINER
VM11	•	•	-	-	-	•	•	•	•	•	•	•
VM11D	•	•	-	-	-	•	•	•	•	•	•	•
VM13	•	• •		•	•	•	•	•	•	•	•	•
VM13D	•	• •		•	•	•	•	•	•	•	•	•
VM15	-	-	•	•	•	•	•	•	•	•	•	•
VM15D	-	-	•	• • (CTS CAN ALSO BE ADDED)	-	•	•	•	•	•	•	•
VM18	-	-	•	•	•	•	•	•	•	•	•	•
VM18D	-	-	•	• • (CTS CAN ALSO BE ADDED)	-	•	•	•	•	•	•	•

- Indicates that it is a standard feature.
- Indicates that it can be selected as an option.
- Indicates that it is not suitable.

Note: VM15D and VM18D models are not equipped with CTS. They can be produced with CTS upon special request.

Table Fixed Column Movable

- It has high rigidity, symmetrical structure and superior stability features. By optimizing the structure of core components and improving the dynamic performance of the product, the perfect combination of high power, high torque, high efficiency and high precision machining is achieved.
- Shipbuilding, metallurgy, petrochemicals, mining machinery, electricity
It is suitable for use in large and heavy processing areas such as energy, construction machinery, heavy industrial machinery.

MODEL	VG104	VG105
Main Engine	30/37 kW	30/37 kW
Table Measurement	10000/12000/14000/16000/20000/24000mm	10000/12000/14000/16000/20000/24000
T Slot Size	36/260 mm	36/260 mm
Table Capacity	10000 KG/m ²	15000 KG/m ²
X-Axis Movements	10200/12200/14200/16200/20200/24200mm	10200/12200/14200/16200/20200/24200mm
Y Axis Movements	4800 mm	5200 mm
Z Axis Movements	1250 mm	1250 mm
Distance Between Two Columns/Bridges	4200 mm	5200 mm
Distance Between Spindle and Table	300-1550 mm	500-1750 mm
Spindle Speed	4200 rpm.	5200 rpm.
Spindle/Shaft Cone	BT50	BT50
Spindle/Shaft Cone Diameter	γ250	γ250
X, Y, Z Axis Serial Feed Rates Spindle	10/10/10	10/10/10
Motor Type	DIRECT DRIVE	DIRECT DRIVE
Magazine Type and Capacity	"30 (option 40 or 60)"	"30 (option 40 or 60)"
Maximum Tool Diameter	Ø125/350 mm	Ø125/350 mm
Control Unit	FANUC 0i-MF 1(Opt. Siemens 828D)	FANUC 0i-MF 1(Opt. Siemens 828D)
Driver and Encoder	FANUC 0i-MF 1	FANUC 0i-MF 1
Main Engine Torque Power	1338 Nm	1338 Nm
Repeatable/Position Sensitivity X	"10m: 0.055/0.034 12m: 0.06/0.038 14m: 0.065/0.042"	"10m: 0.055/0.034 12m: 0.06/0.038 14m: 0.065/0.042"
Repeatable/Position Sensitivity Y	0.03/0.02 mm	0.03/0.02 mm
Repeatable/Position Sensitivity Z	0.02/0.013	0.02/0.013
Total Power Requirement	120 kVA	120 kVA
Machine Dimensions	16000*8000*4000	16000*8000*4000
Weight	125,000kg	135,000kg

High Rigidity & Symmetrical Structure: 500×500 square column (high rigidity), balanced mechanism and superior stability.

X-Axis Heidenhain Ruler

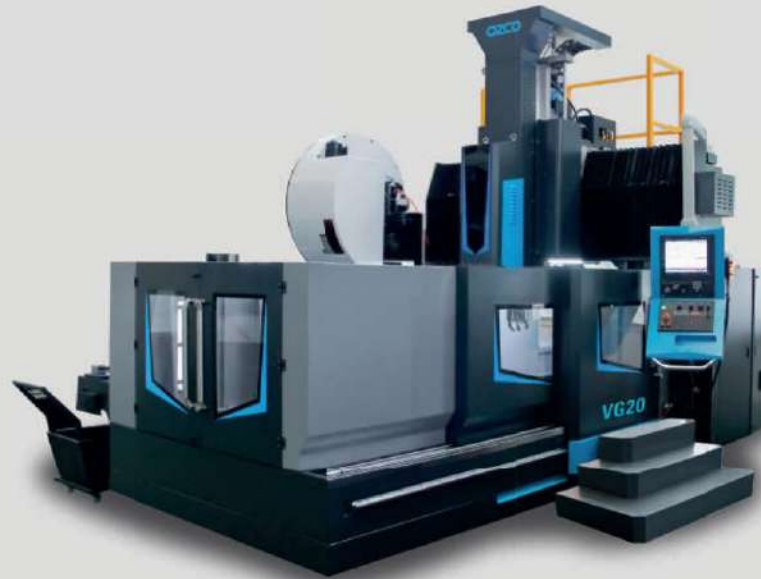
The Heidenhain linear scale system ensures high-precision positioning on the X-axis.
This German-origin technology offers repeatable micron-level accuracy in CNC machining centers.



CNC BRIDGE TYPE PROCESSING CENTER

Optional Features

- BBT50 spindle
- 50 Bar coolant supply (CTS)
- ZF transmission system
- 90° manual angle head
- 360° automatic angle head
- Renishaw tool setting probe
- Vertical magazine with 40 stations
- Heidenhain linear scale
- 10,000 rpm, 15/18.5 kW motor •10,000 rpm, 11/15KW direct motor •10,000 rpm, 15/18.5 kW direct motor
- 255 mm divider
- 320 mm divider



• 30-station Arm Type Magazine



• Royal Brand Precision Spindle



• Precision Table



• Fanuc Oi-MF Plus/ Mitsubishi M80V Control unit

Scope of Shipment

- X, Y Axis linear guide with rollers, Z axis box guide
- Telescopic guide protectors on 3 Axis
- Spindle cooling system •Air and cooling gun •Rigid tapping
- M30 automatic closing system
- Full mold package
- Electrical cabinet cooling system
- Scale and balance shoes
- Interior cabin lighting
- 3-color warning light
- Central lubrication system
- RS232 data transfer port system
- P05 10,000 corners smooth rotation function
- 2x6 Bar cabin interior washing system
- MPG, portable handwheel
- Fully enclosed cabin
- Pallet type chip conveyor
- Ready-made 4th axis electrical system on the machine for CNC divider •380V/50 Hz transformer
- Oil skimmer
- 20 Bar coolant supply (CTS)
- CE hardware

Hardware

- High precision ball bearing shafts (Taiwan) • **HIWIN**
- Roller linear guides with high rigidity and high dynamic/ static load carrying capacity (Japan) • Roller linear designed, strong bearing group (Japan) **NSK**
- High efficiency and precision spindle (Taiwan) •High top quality electrical system (France) **ROYAL**
- Long-lasting central lubrication system (Japan) **Schneider**
- All axis motors, drives and encoders are with the control unit brand; **FANUC SIEMENS**
- Ultra durable and highly leak-proof, stainless steel used in liquid contact areas, creating an ergonomic work area with systems such as lighting and cabin wash , patented special design machine cabin
- High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more

MODEL	VG11	VG20	VG21	VG22
Main Engine Power	11/15 kW	15/18.5 kW	15/18.5 kW	15/18.5 kW
Table Measurement	1600x1300 mm	2000x1200 mm	2500x1200 mm	2500x1500 mm
T Slot Size	22/9/130 mm	22/7/140 mm	22/7/140 mm	22/7/140 mm
Table Capacity (max.)	1600 kg	5000 kg	6000 kg	7000 kg
X, Y, Z Axis Movements	1600, 1600, 750 mm	2100, 1400, 800 mm	2600,1400,800 mm	2600, 1900, 900 mm
Distance Between Two Columns/Bridges	1600 mm	1400 mm	1400 mm	1900 mm
Distance Between Spindle and Table	150-900 mm	150-950 mm	150-950 mm	150-950 mm
Spindle Speed	6,000 rpm	6,000 rpm	6,000 rpm	6,000 rpm
Spindle/Shaft Cone	BT50	BT50	BT50	BT50
Spindle Diameter	160 mm	190 mm	190 mm	190 mm
X, Y, Z Axis Serial Feed Rates	15,15,12 m/min	12,12,10 m/min	12,12,10 m/min	12,12,10 m/min
X,Y,Z Motor Powers	3,3,3 kW	3,3,3 kW	3,3,3 kW	3,3,3 kW
Cutting Speed	1-8000 mm/min	1-8000 mm/min	1-8000 mm/min	1-8000 mm/min
Magazine Type and Capacity	24T Station Arm Type ATC	30T Station Arm Type ATC	30T Station Arm Type ATC	30T Station Arm Type ATC
Maximum Tool Diameter	110/200mm	110/350mm	110/350mm	110/350mm
Control Unit	Mitsubishi M80V - Fanuc Oi-MF PLUS			
Driver and Encoder	Mitsubishi-Fanuc			
Main Engine Torque Power	Mitsubishi: 70/118 Nm, Fanuc: 52.5/118 Nm	Mitsubishi:143/236 Nm, Fanuc:143/236 Nm		
X,Y Axis Guide Type	Linear Guide	Linear Guide	Linear Guide	Linear Guide
Z Axis Guide Type	Box	Box	Box	Box Type
X-Axis Roller Linear Guide Dimensions	Type 2x45mm&3TA	Type 2x45mm&4TA	Type 2x45mm&4TA	2x55mm&3TA
Y-Axis Linear Guideway Dimensions	2x45mm&2TA	1x45m&2TA, 1x45mm&3TA	1x45mm&2TA, 1x45mm&3TA	1x55mm&2TA, 1x55mm&3TA
X, Y, Z Ball Screw Diameters	40,40,40 mm	50,50,50 mm	63,50,50 mm	63,50,50 mm
Position Accuracy X/Y/Z	0.02/0.02/0.018	0.016/0.015/0.015	0.016/0.015/0.015	0.016/0.015/0.015
Repeatable Position Accuracy X/Y/Z	0.015/0.015/0.015	0.012/0.01/0.01	0.012/0.01/0.01	0.012/0.01/0.01
Total Power Requirement	34kW/40kVA	38kW/45kVA	38kW/45kVA	38kW/45kVA
Machine Dimensions	4700x3300x3750 mm	6300x3800x4700 mm	7300x3800x4700 mm	7300x4300x4900 mm
Weight	12,500 kg	15,000 kg	17,500 kg	20,000 kg

CNC BRIDGE TYPE

Optional Features

- BBT50 spindle
- 50 Bar coolant supply (CTS)
- ZF transmission system
- 90° manual angle head
- 360° automatic angle head
- Renishaw tool setting probe
- Vertical magazine with 40 stations
- Heidenhain linear ruler
- 10,000 rpm, 15/18.5 kW engine •10,000
- 11/15KW direct engine •10,000 kW
- 10,000 rpm, 15/18.5 kW direct engine
- 255 mm divider
- 320 mm divider
- Divisor counter tailstock



30-Station Arm Type • 30-station Magazine



• Royal Brand Precision Spindle



Precision Table •



• Fanuc Oi-MF Plus/ Mitsubishi M80V Control Unit

Scope of Shipment

- X, Y Axis linear guide with rollers, Z axis box guide •X, Y
- Telescopic slide guards on 3 axes
- Spindle/Spindle cooling system
- Air and cooling gun •Rigid tapping
- M30 automatic closing system
- Full molder package
- Electrical cabinet cooling system
- Scale and balance shoes
- Interior cabin lighting
- 3-color warning light
- Central lubrication system
- RS232 data transfer port system
- P05 10,000 corners smooth rotation function
- 2x6 Bar cabin interior washing system
- MPG, portable handwheel
- Fully enclosed cabin
- Pallet type chip conveyor
- Ready-made 4th axis electrical system on the machine for CNC divider •380V/50 Hz transformer
- Oil skimmer
- 20 Bar coolant supply (CTS)
- CE hardware

Hardware

- High precision ball bearing spindles (Taiwan) 
- Roller linear guides with high rigidity and high dynamic/ static load carrying capacity (Japan) • Roller linear  designed, strong bearing group (Japan) 
- High efficiency and precision spindle (Taiwan) •High  top quality electrical system (France) 
- Long-lasting central lubrication system (Japan) 
- Low vibration, wear-resistant and precision magazine (Taiwan) 
- All axis motors, drivers and encoders are with the control unit brand;   
- Ultra durable and highly leak-proof, stainless steel used in liquid contact areas, creating an ergonomic work area with systems such as lighting and cabin wash, patented special design machine cabin
- High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more

MODEL	VG31	VG32	VG33
Main Engine Power	15/18.5 kW	22/26 kW	22/26 kW
Table Measurement	3000x1500 mm	3000x1800 mm	3000x2200 mm
T Slot Size	22/9/160 mm	22/9/180 mm	28/11/200 mm
Table Capacity (max.)	8,000 kg	10,000 kg	10,000 kg
X, Y, Z Axis Movements	3100, 1900, 900 mm	3200, 2200(+300), 1000 mm	3200, 3000(+150), 1000 mm
Distance Between Two Columns/Bridges	1900 mm	2200 mm	3000 mm
Distance Between Spindle and Table	150-1050 mm	200-1200 mm	250-1250 mm
Spindle Speed	6,000 rpm	6,000 rpm	6,000 rpm
Spindle/Shaft Cone	BT50	BT50	BT50
Spindle Diameter	190 mm	190 mm	190 mm
X, Y, Z Axis Serial Feed Rates	12,12,10 m/min	12,12,10 m/min	12,12,10 m/min
X,Y,Z Motor Powers	3,3,3 kW	7,7,7 kW	7,4,4 kW
Cutting Speed	1-8000 mm/min	1-8000 mm/min	1-8000 mm/min
Magazine Type and Capacity	30T Station Arm Type ATC	30T Station Arm Type ATC	30T Station Arm Type ATC
Maximum Tool Diameter	110/350mm	110/350mm	110/350mm
Control Unit	Mitsubishi M80V - Fanuc Oi-MF PLUS		
Driver and Encoder	Mitsubishi-Fanuc		
Main Engine Torque Power	Mitsubishi:143/236 Nm, Fanuc:143/236 Nm	Mitsubishi:140/223 Nm, Fanuc:140/286 Nm	Mitsubishi:140/223 Nm, Fanuc:140/286 Nm
X,Y Axis Guide Type	Linear Guide	Linear Guide	Linear Guide
Z Axis Guide Type	Box Type	Box Type	Box Type
X-Axis Roller Linear Guide Dimensions	2x55mm&4TA	2x55mm&4TA	2x65mm&5TA
Y-Axis Linear Guideway Dimensions	1x55mm&2TA, 1x55mm&3TA	1x55mm&2TA, 1x55mm&3TA	3x55mm&2TA
X, Y, Z Ball Screw Diameters	63.50.50 mm	63.63.50 mm	80.63.63 mm
Position Accuracy X/Y/Z	0.02/0.015/0.015	0.02/0.02/0.018	0.02/0.02/0.02
Repeatable Position Accuracy X/Y/Z	0.012/0.01/0.01	0.012/0.012/0.012	0.013/0.014/0.013
Total Power Requirement	38kW/45kVA	45kW/50kVA	45kW/50kVA
Machine Dimensions	8300x4300x4900 mm	8300x5200x5300 mm	8500x5800x5600 mm
Weight	23,000 kg	31,000 kg	38,000 kg

Note: Specifications indicated with + are valid when using the angle head.

CNC BRIDGE TYPE PROCESSING CENTER

Scope of Shipment

- X, Y Axis linear guide with rollers, Z axis box guide
- Telescopic guide protectors on 3 Axis
- Spindle cooling system •Air and cooling gun •Rigid tapping
- M30 automatic closing system
- Full molder package
- Electrical cabinet cooling system •Scale and balance shoes
- Interior cabin lighting
- 3-color warning light
- Central lubrication system
- RS232 data transfer port system
- P05 10,000 comers smooth rotation function
- 2x6 Bar cabin interior washing system
- MPG, portable handwheel
- Fully enclosed cabin
- Pallet type chip conveyor
- Ready-made 4th axis electrical system on the machine for CNC divider •380V/50 Hz transformer
- Oil skimmer
- 20 Bar coolant supply (CTS)
- CE hardware



• 30-station Arm Type Magazine



• Royal Brand Precision Spindle



• Precision Table



• Fanuc 0i-MF Plus/
Mitsubishi M80V
Control unit

Optional Features

- BBT50 spindle
- 50 Bar coolant supply (CTS)
- ZF transmission system
- 90° manual angle head
- 360° automatic angle head
- Renishaw tool setting probe
- Vertical magazine with 40 stations
- Heidenhain linear ruler
- 10,000 rpm, 15/18.5 kW engine •10,000 rpm, 11/15kW direct engine •10,000 rpm, 15/18.5 kW direct engine
- 255 mm divider
- 320 mm divider
- Divisor counter tailstock

MODEL	VG42	VG43	VG44	VG53
Main Engine Power	22/26 kW	22/26 kW	22/26 kW	22/26 kW
Table Measurement	4000x1800 mm	4000x2200 mm	4000x2500 mm	5000x2500 mm
T Slot Size	28/9/180 mm	28/11/200 mm	28/11/200 mm	28/11/200 mm
Table Capacity (max.)	12,000 kg	15,000 kg	22,000 kg	26,000 kg
X,Y,Z Axis Movements Distance	4200, 2200(+300), 1000 mm	4200, 3000(+150), 1000 mm	4200, 3200(+200), 1200 mm	5200, 3200(+200), 1200 mm
Between Two Columns/Bridges Distance	2200 mm	3000 mm	3200 mm	3200 mm
Between Spindle Table	200-1200 mm	250-1250 mm	250-1450 mm	250-1450 mm
Spindle Speed	6,000 rpm BT50	6,000 rpm BT50	6,000 rpm BT50	6,000 rpm
Spindle/Shaft Cone				BT50
Spindle Diameter	190 mm	190 mm	190 mm	190 mm
X, Y, Z Axis Serial Feed Rates	12,12,10 m/min	12,12,10 m/min	10,12,10 m/min	10,12,10 m/min
X,Y,Z Motor Powers	7,7,7 kW	7,4,4 kW	6,6,6 kW	6,6,6 kW
Cutting Speed	1-8000 mm/min	1-8000 mm/min	1-8000 mm/min	1-8000 mm/min
Magazine Type and Capacity	30T Station Arm Type ATC	30T Station Arm Type ATC	30T Station Arm Type ATC	30T Station Arm Type ATC
Maximum Tool Diameter	110/350mm	110/350mm	110/350mm	110/350mm
Control Unit	Mitsubishi M80V - Fanuc 0i-MF PLUS			
Driver and Encoder	Mitsubishi-Fanuc			
Main Engine Torque Power	Mitsubishi:140/223 Nm, Fanuc:140/286 Nm			
X,Y Axis Guide Type	Linear Guide	Linear Guide	Linear Guide	Linear Guide
Z Axis Guide Type	Box Type	Box Type	Box Type	Box Type
X-Axis Roller Linear Guide Dimensions	2x55mm&5TA	2x65mm&5TA	3x55mm&5TA	3x55mm&6TA
Y-Axis Linear Guideway Dimensions	1x55mm&2TA, 1x55mm&3TA	3x55mm&2TA	3x55mm&2TA	3x55mm&2TA
X, Y, Z Ball Screw Diameters	63,63,50 mm	80,63,63 mm	80,80,63 mm	80,80,63 mm
Position Accuracy X/Y/Z	0.025/0.02/0.018	0.025/0.02/0.02	0.025/0.025/0.02	0.035/0.025/0.02
Repeatable Position Accuracy X/Y/Z	0.016/0.012/0.012	0.016/0.014/0.013	0.016/0.018/0.014	0.025/0.018/0.014
Total Power Requirement	45kW/50kVA	47kW/50kVA	54kW/60kVA	54kW/60kVA
Machine Dimensions	10200x5200x5300 mm	10,300x5800x5600 mm	11,000x6,300x5400 mm	13,000x6,300x5400 mm
Weight	35,000 kg	45,000 kg	52,000 kg	59,000 kg

Note: Specifications indicated with + are valid when using the angle head.

Hardware

- High precision ball bearings (Taiwan) High **HIWIN**)
- and high dynamic/static load carrying capacity linear roller guides (Japan) High rigidity linear roller group (Japan) **NSK** **THM**)
- High efficiency and precision spindle (Taiwan) •High **ROYAL**)
- top quality electrical system (France) **Schneider**)
- Long-lasting central lubrication system (Japan) **DAIICHI**)
- Low vibration, wear-resistant and precision magazine (Taiwan **TAIPEI**)
- All axis motors, drivers and encoders are with the control unit brand; **FANUC** **SIEMENS**)
- Ultra durable and highly leak-proof, stainless steel used in liquid contact areas, creating an ergonomic work area with systems such as lighting and cabin wash , patented special design machine cabin
- High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more

CNC BRIDGE TYPE PROCESSING CENTER

Scope of Shipment

- X, Y Axis linear guide with rollers, Z axis box guide
- Telescopic guide protectors on 3 Axis
- Spindle cooling system •Air and cooling gun •Rigid tapping

- M30 automatic closing system
- Full molder package
- Electrical cabinet cooling system
- Scale and balance shoes
- Interior cabin lighting
- 3-color warning light
- Central lubrication system
- RS232 data transfer port system
- P05 10,000 corners smooth rotation function
- 2x6 Bar cabin interior washing system
- MPG, portable handwheel
- Fully enclosed cabin
- Pallet type chip conveyor
- Ready-made 4th axis electrical system on the machine for CNC divider •380V/50 Hz transformer
- Oil skimmer
- 20 Bar coolant supply (CTS)
- CE hardware



• 30-station Arm Type Magazine



• Royal Brand Precision Spindle



• Precision Table



• Fanuc Oi-MF Plus/
Mitsubishi M80V
Control unit

Optional Features

- BBT50 spindle
- 50 Bar coolant supply (CTS)
- ZF transmission system
- 90° manual angle head
- 360° automatic angle head
- 3+2 angled head
- Renishaw tool setting probe
- Vertical magazine with 40 stations
- Heidenhain linear scale
- 10,000 rpm, 15/18.5 kW motor (VG61,VG62,VG63)
- 10,000 rpm, 11/15KW direct engine (VG61,VG62,VG63)
- 10,000 rpm, 15/18.5 kW direct engine (VG61,VG62,VG63)
- 255 mm divider
- 320 mm divider
- Divisor counter tailstock

MODEL	VG61	VG62	VG63	VG64
Main Engine Power	22/26 kW	22/26 kW	22/26 kW	22/26 kW
Table Measurement	6000x1800 mm	6000x2200 mm	6000x2500 mm	6000x3000 mm
T Slot Size	28/9/180 mm 15,000	28/11/200 mm 22,000	28/11/200 mm	28/15/200 mm
Table Capacity (max.)	kg	kg	26,000 kg	35,000 kg
X, Y, Z Axis Movements	6200,2200(+300),1000 mm	6200,3000(+150),1000 mm	6200, 3200(+200), 1200 mm	6200, 3800(+400) ,1200 mm
Distance Between Two Columns/Bridges	2200 mm	3000 mm	3200 mm	3800 mm (Optional: 4200, 5200)
Distance Between Spindle and Table	200-1200 mm	250-1250 mm	250-1450 mm	250-1450 mm
Spindle Speed	6,000 rpm	6,000 rpm	6,000 rpm	4,000 rpm
Spindle/Shaft Cone	BT50	BT50	BT50	BT50
Spindle Diameter	190 mm	190 mm	190 mm	210 mm
X, Y, Z Axis Serial Feed Rates	15,15,12 m/min	10,12,10 m/min	10,12,10 m/min	10,12,10 m/min
X,Y,Z Motor Powers	6,6,6 kw	6,6,6 kw	6,6,6 kw	6,6,6 kW
Cutting Speed	1-8000 mm/min	1-8000 mm/min	1-8000 mm/min	1-8000 mm/min
Magazine Type and Capacity	30T Station Arm Type ATC	30T Station Arm Type ATC	30T Station Arm Type ATC 110/350mm	30T Station Arm Type ATC
Maximum Tool Diameter	110/350mm		110/350mm	110/350mm
Control Unit	Mitsubishi M80V - Fanuc Oi-MF PLUS			
Driver and Encoder	Mitsubishi-Fanuc			
Main Engine Torque Power	Mitsubishi:140/223 Nm, Fanuc:140/286 Nm			
X,Y Axis Guide Type	Linear Guide	Linear Guide	Linear Guide	Linear Guide
Z Axis Guide Type	Box Type	Box Type	Box Type	Box Type
X-Axis Roller Linear Guide Dimensions	2x55&8TA	2x55&8TA	3x55mm&7TA	4x55mm&6TA
Y-Axis Linear Guideway Dimensions	1x55mm&2TA, 1x55mm&3TA	3x55&8TA	3x55mm&2TA	3x55mm&2TA
X, Y, Z Ball Screw Diameters	80, 63, 50 mm	80,63,63 mm	80,80,63 mm	80,80,63 mm
Position Accuracy X/Y/Z	0.04/0.02/0.018	0.05/0.025/0.02	0.04/0.025/0.02	0.04/0.03/0.02
Repeatable Position Accuracy X/Y/Z	0.016/0.012/0.012	0.035/0.018/0.014	0.03/0.018/0.014	0.03/0.025/0.014
Total Power Requirement	45kW/50kVA	54kW/60kVA	54kW/60kVA	54kW/60kVA
Machine Dimensions	14.300x5300x5300 mm	14.500x5.800x5.600mm 15.000x6.300x5400mm		15,000x7,600x6,200
Weight 44,000 kg Note: Specifications indicated with + are valid when using the angle head.		57,000 kg	68,000 kg	75,000 kg

Hardware

- High precision ball bearings (Taiwan) High **HIWIN**)
- and high dynamic/static load carrying capacity linear roller guides (Japan) High rigidity linear roller guides **THK**) (Japan)
- High efficiency and precision spindle (Taiwan) •Highnd **NSK**)
- top quality electrical system (France) **ROVAL**)
- Long-lasting central lubrication system (Japan) **SIEMENS**)
- Low vibration, wear-resistant and precision magazine (Taiwan **SIEMENS**)
- All axis motors, drivers and encoders are with the control unit brand; **FANUC** **SIEMENS**)
- Ultra durable and highly leak-proof, stainless steel used in liquid contact areas, creating an ergonomic work area with systems such as lighting and cabin wash, patented special design machine cabin
- High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more

CNC BRIDGE TYPE PROCESSING CENTER

Scope of Shipment

- X, Y Axis linear guide with rollers, Z axis box guide
- Telescopic guide protectors on 3 Axis
- Spindle cooling system •Air and cooling gun •Rigid tapping
- M30 automatic closing system
- Full molder package
- Electrical cabinet cooling system •Scale and balance shoes
- Interior cabin lighting
- 3-color warning light
- Central lubrication system
- RS232 data transfer port system
- P05 10,000 corners smooth rotation function
- 2x6 Bar cabin interior washing system
- MPG, portable handwheel
- Fully enclosed cabin
- Pallet type chip conveyor
- Ready-made 4th axis electrical system on the machine for CNC divider •380V/50 Hz transformer
- Oil skimmer
- 20 Bar coolant supply (CTS)
- CE hardware



• 30-station Arm Type Magazine



• Precision Table



• Fanuc 0i-MF Plus/ Mitsubishi M80V Control unit

Optional Features

- BBT50 spindle
- 50 Bar coolant supply (CTS)
- ZF transmission system
- 90° manual angle head
- 360° automatic angle head
- 3+2 angled head
- Renishaw tool setting probe
- Vertical magazine with 40 stations
- Heidenhain linear ruler
- 10,000 rpm, 15/18.5 kW engine (VG82, VG83)
- 10,000 rpm, 11/15KW direct engine (VG82, VG83)
- 10,000 rpm, 15/18.5 kW direct engine (VG82, VG83)
- 255 mm divider
- 320 mm divider
- Divisor counter tailstock

MODEL	VG82	VG83	VG84
Main Engine Power	22/26 kW	22/26 kW	22/26 kW
Table Measurement	8000x2200 mm	8000x2500 mm	8000x3000 mm
T Slot Size	28/11/200 mm	28/11/200 mm	28/15/200 mm
Table Capacity (max.)	30,000 kg	35,000 kg	40,000 kg
X,Y,Z Axis Movements Distance	8200,3000(+150),1000mm	8200, 3200(+200),1200mm	8200, 3800(+400), 1200 mm
Between Two Columns/Bridges Distance	3000 mm	3200 mm	3800 mm (Optional: 4200, 5200)
Between Spindle Table	250-1250 mm	250-1450 mm	250-1450 mm
Spindle Speed	6,000 rpm	6,000 rpm 4,000	4,000 rpm
Spindle/Shaft Cone	BT50	rpm	BT50
Spindle Diameter	190 mm	210 mm	210 mm
X, Y, Z Axis Serial Feed Rates	10,12,10 m/min	8, 12, 10 m/min	8, 12, 10 m/min
X,Y,Z Motor Powers	9.6.6 kW	9.6.6 kW	9,6,6 kW
Cutting Speed	1-8000 mm/min	1-8000 mm/min	1-8000 mm/min
Magazine Type and Capacity	30T Station Arm Type ATC	30T Station Arm Type ATC	30T Disc Type ATC
Maximum Tool Diameter	110/350mm	110/350mm	110/350mm
Control Unit	Mitsubishi M80V - Fanuc 0i-MF PLUS		
Driver and Encoder	Mitsubishi-Fanuc		
Main Engine Torque Power	Mitsubishi:140/223 Nm, Fanuc:140/286 Nm		
X,Y Axis Guide Type	Linear Guide	Linear Guide	Linear Guide
Z Axis Guide Type	Box Type	Box Type	Box Type
X-Axis Roller Linear Guide Dimensions	2x65mm&10TA	3x55mm&9TA	2x55mm&9TA, 2x55mm&7TA
Y-Axis Linear Guideway Dimensions	3x55mm%2TA	3x55mm&2TA	3x55mm&2TA
X, Y, Z Ball Screw Diameters	80.63.63 mm	100.80.63 mm	100, 80, 63 mm
Position Accuracy X/Y/Z	0.05/0.025/0.02	0.05/0.025/0.02	0.05/0.03/0.02
Repeatable Position Accuracy X/Y/Z	0.035/0.018/0.014	0.035/0.018/0.014	0.035/0.025/0.014
Total Power Requirement	54kW/60kVA	54kW/60kVA	54kW/60kVA
Machine Dimensions	19,000x5800x5600 mm	20,000x6,300x5,400	20,000x7,600x6,200
Weight	71,000 kg	85,000 kg	90,000 kg

Note: Specifications indicated with + are valid when using the angle head.

Hardware

- High precision ball bearings (Taiwan) High **HIWIN**) and high dynamic/static load carrying capacity linear roller guides (Japan) High rigidity linear roller guides **THK**) (Japan) **NSK**
- High efficiency and precision spindle (Taiwan) and **ROYAL**) top quality electrical system (France) **Schneider**
- Long-lasting central lubrication system (Japan) **FANUC**
- Low vibration, wear-resistant and precision magazine (Taiwan) **FANUC**
- All axis motors, drivers and encoders are with the control unit brand; **FANUC SIEMENS**
- Ultra durable and highly leak-proof, stainless steel used in liquid contact areas, creating an ergonomic work area with systems such as lighting and cabin wash, patented special design machine cabin
- High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more

BM 110 & 130 CNC BORVERK

The BM110 and BM130 CNC horizontal drilling and milling machines are manufactured using modern mechanical, electrical, and hydraulic technologies, offering high torque, robust construction, and high productivity. Equipped with the advanced Siemens FANUC 0i-MF PLUS system, these machines provide simultaneous control of four axes and offer linear and circular interpolation capabilities. They are ideal for precision machining of frame or box-type workpieces and can perform a variety of operations, including milling, drilling, reaming, and tapping, all in a single setup.

Large torque and heavy load capacity
High precision transmission
Complex processing capabilities
Long-lasting, robust construction

As a table type CNC machine, it has front and rear beds in a T-shape.
X axis: Longitudinal movement of the table
Y axis: Vertical movement of the spindle head
W axis: Axial movement of the spindle
Z axis: Transverse movement of the column
B axis: Rotation of the table

Spindle: Made of high strength 38CrMoAlA alloy steel, offering high speed and hardness.

Main drive system: equipped with AC servo motor.
Feed mechanism: Servo motors and preloaded ball screws are used on the X, Y and Z axes.

Hydraulic and lubrication system: Automatic timing lubrication ensures protection of components.

Electrical system: Works integrated with the FANUC 0i-MF PLUS system.

Scope of Shipment

•Heavy-duty linear guideways, featuring high dynamic performance, fast movement, and low friction, were used on the X and Z axes. Box-type guideways, which provide high rigidity, heavy load-carrying capacity, high damping, and low vibration, were used on the Y axis.

• Telescopic guideway protectors on 3 axes • Spindle/ Spindle cooling system • Air and cooling gun • Electrical cabinet cooling system • 3-color warning lamp • Central lubrication system • Cabin lighting • Fully enclosed cabin • Pallet type chip conveyor • High precision transmission • Rigid and robust structure for long-lasting use • High torque

• High load capacity • High efficiency • CE equipment

Optional Features

• Optical linear scale and angular encoder (HEIDENHAIN) • 60-station magazine • Measuring probes



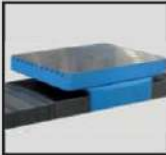
MODEL	BM110	BM130
Main Engine Power	22/26 kW	
Table Measurement	1200x1400mm	1600x1800mm
T Slot Size	22mm	24mm
Maximum Load Capacity	5000kg	15000kg
X/Y/Z Axis Movements	2000x1600x1500mm	3000x2000x1600mm
W Axis Movement	550mm	700mm
Distance Between Spindle and Table	1600mm	2000mm
Distance Between Mile Centers	600-2050mm	800-240mm
Spindle Speed	2500 rpm	
Spindle/Shaft Cone	BT50	
Idle Progress Speeds	X/Y/Z:10m/min W:4m/min	
Control Unit	FANUC, MITSUBISHI, SIEMENS, HEIDENHAIN	
Head Movement	360°	
Minimum Head Angle	0.001°	
Maximum Rotation Speed	2.78 r/min	2.2 r/min
X/Y/Z Positioning Accuracy	0.025/0.02/0.02 mm	0.03/0.025/0.02mm
W Positioning Accuracy	0.022mm	0.025mm
B Positioning Accuracy	10 arc seconds	
X/Y/Z Repeatable Positioning Accuracy	0.018/0.013/0.013 mm	0.02/0.015/0.015mm
W Repeatable Positioning Accuracy	0.015mm	
B Repeatable Positioning Accuracy	6 arc seconds	
Total Power Capacity	80KVA	85KVA
Maximum Torque	1286Nm	2500Nm
Maximum Axial Machining Force	11000N	20000N
Pneumatic Feeding Pressure	6-8 BAR (0.6-0.8 Mpa)	
Programmable Minimum Movement and Adjustment Value	0.001mm	



• Powerful Spindle



• FANUC 0i-MF Plus



• Precision Table



• Central lubrication system



• FANUC/Mitsubishi Drivers and Schneider Electric System



• Reinforced skid and body structure

Hardware

High precision ball bearing shafts (Taiwan) • **HIWIN**)
Roller linear guides with high rigidity and high dynamic/ static load carrying capacity (Japan) • Roller linear **THK**) designed, strong bearing group (Japan) **NSK**
•High efficiency and precision spindle (Taiwan) •Highnd **ROYAL**) top quality electrical system (France) **Schneider Electric**
•Long-lasting central lubrication system (Japan) **SKF**
•Low vibration, wear-resistant and precision magazine (Taiwan) **CPA**
•All axis motors, drivers and encoders are with the control unit brand; **FANUC SIEMENS**
•Ultra durable and highly leak-proof, stainless steel used in liquid contact areas, creating an ergonomic work area with systems such as lighting and cabin wash , patented special design machine cabin
•High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more

CNC LATHES

Heavy Cast Body, High-Quality Hardware

All tilting bed lathes are special with true tilting. It features a bed design and a heavy cast base. The turret and tailstock are precisely positioned on the same plane. With components on the same plane, heat and thermal expansion generated during operation are significantly reduced, allowing for higher precision operation.

Precise alignment of components ensures high efficiency and trouble-free operation. It allows for the production of highly accurate parts with extremely fine surface finishes.

Keys to Our Success



Turret Features

The high-speed 12-station driven tool-type turret provides optimum tool change efficiency and high tool change speed.



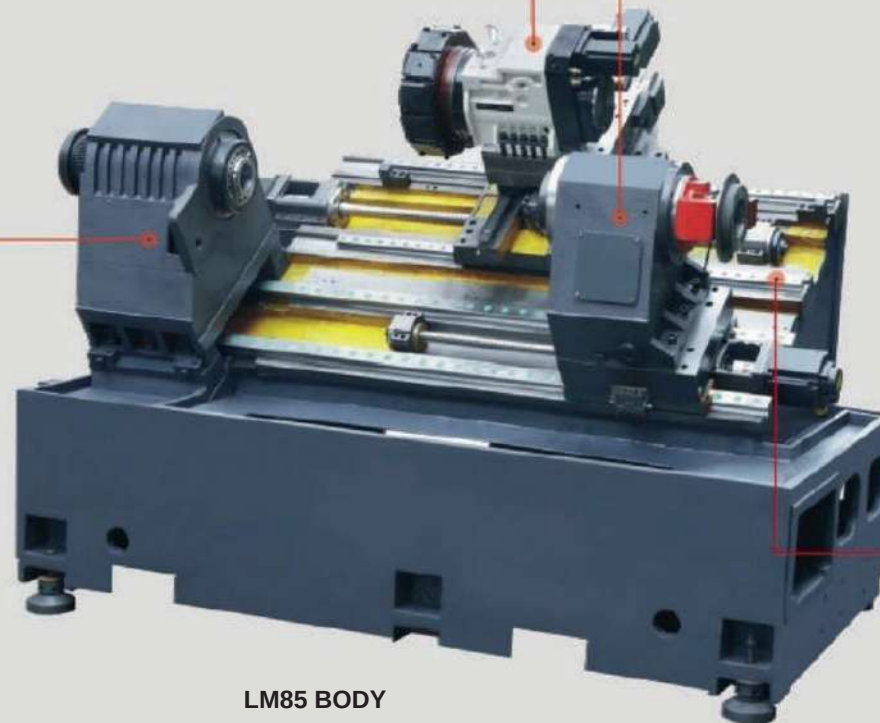
Hydraulic/Programmable Tailstock

High-precision hydraulic or programmable hydraulic tailstocks provide high operating speeds. Furthermore, the tailstock body is positioned on a linear guideway using a traction system, enabling much more economical high-end equipment.



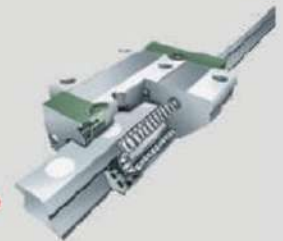
Rigid Body, Precision Spindle

Rigid spindle bearings specially designed for each model. A powerful spindle with high precision and processing performance that does not require lubrication.



LM85 BODY

Roller Linear Guide
High precision slide system



The machine lower body and benches
are one piece
Monoblock
casting

LM6G GANG TYPE SLANT BANK CNC LATHE



• Heavy, rigid machine body



• Gang type station with 4 turrets.



• Fanuc Oi-TF Plus

Hardware

- **FANUC** Oi-TF Plus control unit
- High precision ball bearing shafts (Taiwan, •High **PMI**) guides with high rigidity and high dynamic/static load carrying capacity (Japan, (Japan,) **HIWIN**)
- Specially designed, strong bearing group **NSK** (Japan, •Reliable and top quality electrical system **Schneider**) (France, •Long-lasting central lubrication system.
- Low vibration, wear-resistant and precision magazine (Taiwan, •Low **PO-JU**)
- **FANUC** motor, axis motors and drivers drives
- Specially designed machine cabin that is ultra-durable and highly leak-proof, using stainless material in liquid contact areas, creating an ergonomic work area.
- High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more

MODEL	LM6G
Main Engine Power	5.5/7.5kW
Chuck	6"
Diameter Swing	420 mm
Diameter Maximum Turning	300 mm
Length Maximum Turning	120 mm
Diameter Spindle/	5,000 rpm
Spindle Speed	56mm
Spindle Diameter Max. Bar Capacity	42mm
X-Axis Movement	460 mm
Z Axis Movement	400 mm
X,Z Axis Rapid Feed Turret	28 m/min
Type	Gang
Turret Station Number	4
Turret Max. Hole Square Clamping Diameter	20x20/Ø25mm
X,Z Guideway	Roller Linear Guide
Type Inclined Bed	35°
Angle Total Power	12 kVA
Requirement	3000×1600×1800
Machine Dimensions Weight	3000kg

Optional Features

- Renishaw tool setting probe
- Part holder
- Automatic bar feeding system
- Oil skimmer

Scope of Shipment

- 6" hydraulic chuck
- 4-station gang type tool holder
- Cooling system
- Air and cooling gun •Electrical cabinet cooling system •Balance and balance shoes
- Interior cabin lighting
- 3-color warning light
- Central lubrication system
- Fully enclosed cabin •Pallet type chip conveyor
- 380V/50 Hz transformer
- 4 Station gang type tool holder
- CE hardware

LM85 & LM87 SLANT BENCH CNC LATHE



• Renishaw tool setting probe



• Fanuc 0i-TF Plus control unit

MODEL	LM85	LM87
Main Engine Power	11/15 kW	11/15 kW
Chuck	8"	8"
Diameter Swing	560 mm	560 mm
Diameter Max. Turning	520 mm	750mm
Length Max. Turning	330 mm	330 mm
Diameter Spindle	4,200 rpm	4,200 rpm
Speed Spindle	62 mm	62 mm
Diameter Max. Bar Capacity	52 mm	52 mm
X-Axis Movement	260 mm	260 mm
Z Axis Movement	610 mm	830 mm
X,Z Axis Motor Power	3 kW	3 kW
X,Z Axis Rapid Feed Turret	30 m/min	30 m/min
Type	Servo Turret	Servo Turret
Turret Center Height Turret	100 mm	100 mm
Station Number Turret	12	12
Max. Bore Size Clamping Diameter Tailstock	25x25/Ø32 mm	25x25/Ø32 mm
Type Tailstock	Hydraulic	Hydraulic
Taper Tailstock	MK5	MK5
Diameter Tailstock	80 mm	80 mm
Taper Movement Tailstock	80 mm	80 mm
Movement	100-450 mm	100-450 mm
Inclined Bank Angle	30°	30°
Total Power Requirement	15 kVA	15 kVA
Machine Dimensions	3800×1700×1900	4300×1700×1900
Weight	4000 kg	4500 kg

Hardware

- **FANUC** 0i-TF Plus control unit
- High precision ball bearing shafts (Taiwan, **PMI**)
- Roller linear guides with high rigidity and high dynamic/static load carrying capacity (Japan, **HIWIN**)
- Specially designed, strong bearing group (**NSK**)
- (Japan, •Reliable and top quality electrical system **Siegler**)
- (France, •Long-lasting central lubrication system.
- Low vibration, wear-resistant and precision magazine (Taiwan, **POJUN**)
- **FANUC** spindle motor, axis motors and drives
- Specially designed machine cabin that is ultra-durable and highly leak-proof, using stainless material in liquid contact areas, creating an ergonomic work area.
- High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more

Optional Features

- Renishaw tool setting probe
- Live team
- Part holder
- Automatic bar feeding system
- Oil skimmer
- Programmable hydraulic tailstock

Scope of Shipment

- 8" hydraulic chuck
- Hydraulic tailstock
- 12-station servo turret
- Cooling system
- Air and cooling gun •Electrical cabinet cooling system •Balance and balance shoes
- Interior cabin lighting
- 3-color warning light
- Central lubrication system
- Fully enclosed cabin •Pallet type chip conveyor
- 380V/50 Hz transformer
- CE hardware

LM105C & LM107C & LM1010C SLANT BENCH CNC LATHE



• Renishaw tool setting probe



• Fanuc Oi-TF Plus control unit

MODEL	LM105C	LM107C	LM1010C
Main Engine Power	11-15 kW	15/18.5 kW	15/18.5 kW
Chuck	10"	10"	10"
Diameter Swing	650mm	650 mm	650 mm
Diameter Maximum Turning	480mm	700 mm	950 mm
Length Maximum Turning	380mm	380 mm	380 mm
Diameter Spindle/	4200 rpm	3,000 rpm	3,000 rpm
Spindle Speed	y87	y87	y87
Spindle Diameter Max. Bar Capacity	y75	y75	y75
X-Axis Movement	260 mm	260 mm	260 mm
Z Axis Movement	610 mm	830 mm	1050 mm
X,Z Axis Rapid Feed Turret	20 m/min	20/20m/min	20/20m/min
Type	Servo Turret	Servo Turret	Servo Turret
Turret Center Height Turret	100 mm	100 mm	100 mm
Station Number Turret	12	12	12
Max. Bore Size Clamping Diameter Tailstock	25x25/Ø32mm	25x25/Ø32mm	25x25/Ø32mm
Type Tailstock	Hydraulic	Hydraulic	Hydraulic
Taper Tailstock Taper	MK4	MK5	MK5
Movement Tailstock Movement	90 mm	150 mm	150 mm
	100-550 mm	100-750 mm	100-1000 mm
Inclined Bank Angle	35°	35°	35°
Total Power Requirement	16 kVA	20 kVA	20 kVA
Machine Dimensions	3800×1700×1900	4300×1700×1900	4300×1700×1900
Weight	4500 kg	4500 kg	5000 kg

Hardware

- **FANUC** Oi-TF Plus control unit
- High precision ball bearing shafts (Taiwan, **PMI**)
- Roller linear guides with high rigidity and high dynamic/static load carrying capacity (Japan, **HIWIN**)
- Specially designed, strong bearing group (**NSK**)
- (Japan, •Reliable and top quality electrical system **Schneider**)
- (France, •Long-lasting central lubrication system.
- Low vibration, wear-resistant and precision magazine (Taiwan, **FANUC**)
- **FANUC** spindle motor, axis motors and drivers
- Specially designed machine cabin that is ultra-durable and highly leak-proof, using stainless material in liquid contact areas, creating an ergonomic work area.
- High strength, vibration absorbing, rigid cast body that has been aged for 6 months or more

Optional Features

- Renishaw tool setting probe
- Part holder
- Automatic bar feeding system
- Oil skimmer
- Programmable hydraulic tailstock

Scope of Shipment

- 10" hydraulic chuck
- 12-station servo turret
- Live set (2 pieces)
- Hydraulic tailstock
- Cooling system
- Air and cooling gun • Electrical cabinet cooling system • Balance and balance shoes
- Interior cabin lighting
- 3-color warning light
- Central lubrication system
- Fully enclosed cabin • Pallet type chip conveyor
- 380V/50 Hz transformer
- CE hardware

LY-F FLAT BANK CNC LATHE

Hardware

- **FANUC** Oi-TF Plus control unit
- High precision ball spindles (Taiwan, •High precision **HIWIN**) bearing group (Japan, •High efficiency and precision spindle **NSK**)
- Reliable and top quality electrical system (France, **Schneider**)
- High strength, vibration absorbing, 6 months and above rigid cast body that has been tempered over time
- High torque, powerful spindle motor
- **FANUC** and drivers



Optional Features

- 105mm spindle diameter
- 6-station turret
- 8-station turret
- 12" hydraulic chuck
- 20-140 mm manual fixed bed
- 130-260 mm manual fixed bed
- Mobile bed (not used with turret)
- Electronic arm system

MODEL	LY507F	LY510F	LY515F	LY520F	LY530F
Main Engine Power	7.5/11 kW	11/15 kW	11/15 kW	11/15 kW	11/15 kW
Chuck	10"	10"	10"	10"	10"
Diameter Max. Diameter on the Bank Distance Between Centers	500 mm	500 mm	500 mm	500 mm	500 mm
Max. Diameter on Carriage	750 mm	1000 mm	1500 mm	2000 mm	3000 mm
Spindle Speed	290 mm	290 mm	290 mm	290 mm	290 mm
Spindle Diameter	44-1600 rpm (3 stages, unlimited)	44-1600 rpm (3 stages, unlimited)	44-1600 rpm (3 stages, unlimited)	44-1600 rpm (3 stages, unlimited)	44-1600 rpm (3 stages, unlimited)
Max. Bar Capacity	82 mm	82 mm	82 mm	82 mm	82 mm
X-Axis Movement	65 mm	65 mm	65 mm	65 mm	65 mm
Z Axis Movement	290 mm	290 mm	290 mm	290 mm	290 mm
X,Z Axis Rapid Feed Turret	670 mm	920 mm	1420 mm	1920 mm	2920 mm
Type Turret	6/12 m/min	6/12 m/min	6/12 m/min	6/12 m/min	6/12 m/min
Station Number Turret	4 way automatic pen holder	4 way automatic pen holder	4 way automatic pen holder	4 way automatic pen holder	4-way automatic pen holder
Max. Hole Square Clamping Diameter Traveling	4	4	4	4	4
Tailstock Type	25x25/Ø32mm	25x25/Ø32mm	25x25/Ø32mm	25x25/Ø32mm	25x25/Ø32mm
Traveling Tailstock	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Taper Traveling Tailstock Taper	MK5	MK5	MK5	MK5	MK5
Movement Traveling Tailstock Movement	75 mm	75 mm	75 mm	75 mm	75 mm
Total Power Requirement	150 mm	150 mm	150 mm	150 mm	150 mm
Machine Dimensions	20 kVA	20 kVA	20 kVA	20 kVA	20 kVA
Weight	2200x1720x1775 mm	2950x1720x1775 mm	3200x1720x1775 mm	3700x1720x1775 mm	4700x1720x1775 mm
	3300 kg	2400 kg	2700 kg	3100 kg	3600 kg

Scope of Shipment

- 10" hydraulic chuck
- Hydraulic floating tailstock
- Electronic 4-way pen holder
- Cooling system
- Air and cooling gun •Electrical cabinet cooling system •Balance and balance shoes
- Interior cabin lighting
- 3-color warning light
- Central lubrication system
- Fully closed cabin (LY507F LY510F LY515F LY520F models)
- Semi-closed cabin (LY530F model)
- 380V/50 Hz transformer
- CE hardware

LY-F FLAT BANK CNC LATHE



Hardware

- **FANUC** Oi-TF Plus control unit
- High precision ball spindles (Taiwan, •High precision **HIWIN** bearing group (Japan, •High efficiency and precision spindle **NSK**)
- Reliable and top quality electrical system (France, **Schneider**)
- High strength, vibration absorbing, 6 months and above rigid cast body that has been tempered over time
- High torque, powerful spindle motor axis motors **FANUC** and drivers

Optional Features

- 6-station turret
- 8-station turret
- 20-140 mm manual fixed bed
- 130-260 mm manual fixed bed
- Mobile bed (not used with turret) • Electronic arm system

MODEL	LY607F	LY610F	LY615F	LY620F	LY630F
Main Engine Power	11/15 kW	11/15 kW	11/15 kW	11/15 kW	11/15 kW
Mirror Diameter	12"	12"	12"	12"	12"
Max. Diameter Above the Bench	660 mm	660 mm	660 mm	660 mm	660 mm
Distance Between Centers	750 mm	1000 mm	1500 mm	2000 mm	3000 mm
Max. Carriage Diameter	380 mm	380 mm	380 mm	380 mm	380 mm
Spindle/Spindle	40-1200 rpm (2 stages, unlimited) 105	40-1200 rpm (2 stages, unlimited) 40-1200 rpm (2 stages, unlimited)	40-1200 rpm (2 stages, unlimited)	40-1200 rpm (2 stages, unlimited) 40-1200 rpm (2 stages, unlimited)	40-1200 rpm (2 stages, unlimited)
Speed Spindle	mm	105 mm	105 mm	105 mm	105 mm
Diameter Max. Bar Capacity	84 mm	84 mm	84 mm	84 mm	84 mm
X Axis Movement	240 mm	240 mm	240 mm	240 mm	240 mm
Z Axis Movement	390 mm	390 mm	390 mm	390 mm	390 mm
X,Z Axis Rapid Feed Turret	6/12 m/min	6/12 m/min	6/12 m/min	6/12 m/min	6/12 m/min
Type Turret	4-way automatic pen holder	4-way automatic pen holder	4-way automatic pen holder	4-way automatic pen holder	4-way automatic pen holder
Station Number Turret	4	4	4	4	4
Max. Hole Square Clamping Diameter Traveling	25x25/Ø32mm	25x25/Ø32mm	25x25/Ø32mm	25x25/Ø32mm	25x25/Ø32mm
Tailstock Type	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Traveling Tailstock	MK5	MK5	MK5	MK5	MK5
Taper Traveling Tailstock Taper	75 mm	75 mm	75 mm	75 mm	75 mm
Movement Traveling Tailstock Movement	150 mm	150 mm	150 mm	150 mm	150 mm
Total Power Requirement	30 kVA	30 kVA	30 kVA	30 kVA	30 kVA
Machine Dimensions	2200x1720x1775 mm	2950x1720x1775 mm	3200x1720x1775 mm	3700x1720x1775 mm	4700x1720x1775 mm
Weight	3300 kg	2400 kg	2700 kg	3100 kg	3600 kg

Scope of Shipment

- 12" hydraulic chuck
- Hydraulic floating tailstock
- Electronic 4-way pen holder
- Cooling system
- Air and cooling gun • Electrical cabinet cooling system • Balance and balance shoes
- Interior cabin lighting
- 3-color warning light
- Central lubrication system
- Fully closed cabin (LY607F, LY610F, LY615F, LY620F models)
- Semi-closed cabin (LY630F model)
- 380V/50 Hz transformer
- CE hardware

CNC VERTICAL LATHE

Hardware

- **FANUC** Oi-TF Plus control unit
- High precision ball spindles (Taiwan, •High precision design, strong bearing group (Japan, •High efficiency
- Spindle with high efficiency and precision
- Reliable and top quality electrical system (France, strength, vibration absorbing, 6 months and above rigid cast body that has been tempered over time
- High torque, powerful spindle motor spindle motor axis
- **FANUC**



Optional Features

- SIEMENS 828D Control Unit

MODEL	LV1000	LV1250	LV1600	LV2000	LV2500
Main Engine Power	37/45 kW				
Table Size	1000mm	1250mm	1600mm	2000mm	2500mm
Table Load Capacity	4000kg	5000kg	8000kg	10000kg	15000kg
X-Axis Movement	-350+700mm	-100,+850mm	-100,+1100mm	-1000+1400mm	-900,+1600mm
Z Axis Movement	800mm	900mm	900mm	1200mm	1200mm
Max. Turning	1350mm	1600mm	2000mm	2500mm	3000mm
Diameter Max. Turning	1100mm	1350mm	1800mm	2300mm	2800mm
Diameter Max. Turning	900mm	1300mm	1300mm	1600mm	1600mm
Length Spindle	350 rpm				
Speed C Axis Speed	2400 rpm				
Max. Tool Capacity Tool	600kg				
Change Time Magazine	40 seconds			50 seconds	
Capacity Control Unit	16 ATC				
	FANUC				
Cross Vertical Travel Distance X/Z	500mm	800mm	800mm	1200mm	1200mm
Idle Feed Speed Max.	MK5	MK5	MK5	MK5	MK5
Spindle Torque	75 mm	75 mm	75 mm	75 mm	75 mm
Positioning Accuracy	±0.007/500 mm				
Repeatable Positioning Accuracy Machine	±0.005				
Dimensions	4000x4800x4850mm	4600x5200x5400mm	5550x5530x5400mm	6850x4650x6270mm	7550x5130x6650mm
Weight	20,000 kg	22000kg	24000kg	49000kg	68849kg

Scope of Shipment

- Fanuc Oi-TF PLUS Control Unit, 10" color screen
- Belt type chip conveyor • Box slide •
- Door safety system • 16 sets of servos
- Oil and pressure gauges • Oil scraper •
- Telescopic slide guards •
- Spindle/Spindle cooling system
- Air and cooling gun • M30 automatic shut-off system •
- Electrical cabinet cooling system •
- Scales and balance shoes •
- Cabin interior lighting • 3-color warning light
- Central lubrication system
- Cabin wash system • Fully enclosed cabin •
- 380V/50 Hz transformer • CE equipment

CNC VERTICAL LATHE C AXIS



Hardware

- **FANUC** 0i-TF Plus control unit
- High precision ball spindles (Taiwan, •High precision **HIWIN**) (Japan, •High efficiency and precision spindle **NSK**)
- Reliable and top quality electrical system (France, **Schneider**)
- High strength, vibration absorbing, 6 months and above rigid cast body that has been tempered over time
- High torque, powerful spindle motor axis motors
- **FANUC** and drivers

Optional Features

- **SIEMENS 828D** Control Unit

MODEL	LV1000C	LV1250C	LV1600C	LV2000C	LV2500C
Main Engine Power	37/45 kW				
Table Size	1000mm	1250mm	1600mm	2000mm	2500mm
Table Load Capacity	4000kg	5000kg	8000kg	10000kg	15000kg
X-Axis Movement	-350+700mm	-100,+850mm	-100,+1100mm	-1000+1400mm	-900,+1600mm
Z Axis Movement	800mm	900mm	900mm	1200mm	1200mm
Max. Turning	1350mm	1600mm	2000mm	2500mm	3000mm
Diameter Max. Turning	1100mm	1350mm	1800mm	2300mm	2800mm
Diameter Max. Turning	900mm	1300mm	1300mm	1600mm	1600mm
Length Spindle	350 rpm				
Speed C Axis Speed	2400 rpm				
Max. Tool Capacity Tool	800kg				
Change Time Magazine	40 seconds			50 seconds	
Capacity Control Unit	16 ATC				
	FANUC				
Cross Vertical Travel Distance X/Z	500mm	800mm	800mm	1200mm	1200mm
Idle Feed Speed Max.	12-10mm/min	12-10mm/min	12-10mm/min	10-10mm/min	10-10mm/min
Spindle Torque	8496Nm	8607Nm	19677Nm	55158Nm	68849Nm
Positioning Accuracy	±0.007/500mm; ±7.5" /360° (C Axis)				
Repeatable Positioning Accuracy Machine	±0.005; ±5" /360° (C Axis)				
Dimensions	4000x4800x4850mm	4600x5200x5400mm	5550x5530x5400mm	6850x4650x6270mm	7550x5130x6650mm
Weight	20,000 kg	22000kg	24000kg	49000kg	68849kg

Scope of Shipment

- Fanuc 0i-TF PLUS Control Unit, 10" color screen
- Belt type chip conveyor • Box guideway
- Door safety system • 16 sets of servos
- Oil and pressure gauges • Oil scraper • Telescopic guideway protectors
- Spindle/Spindle cooling system • Air and coolant gun • M30 automatic shut-off system • Electrical cabinet cooling system • Scales and balance shoes • Cabin interior lighting • 3-color warning lamp • Central lubrication system • Cabin washing system • Fully enclosed cabin • 380V/50 Hz transformer • CE equipment