



METALWORKING MACHINES



2024

**Universal Product
Catalog**

www.ozcomakina.com



Over hundred years of commercial journey, Topçu Holding has contributed to industrialization and globalization processes of our country and has always maintained its pioneering position in machinery, construction, energy, hardware sectors with its stability and commitment to ethical values. Combining the trust gained from the past with innovative and dynamic approaches, Topçu Holding follows technological developments and offers products of carefully selected global brands to industry and production world.

Embracing the concept “Strength lies in unity”, Topçu Holding represents products of more than hundred global brands through its dealers network within Turkey; besides, with the studies of R&D department develops, designs and manufactures products supplied to local and global markets. Topçu Holding is always proud of its contribution to national economy and employment.

Topçu Holding carries out its activities with focusing on customer satisfaction, sustainability and social responsibility and continuously creates value for its customers, solution partners, employees and society.

As Topçu Holding, we are aware of our historical, national and cultural responsibility. Therefore we are always committed to progress and contribute to our country with our distributorship of global brands, determination of economic development with local national production facilities and increasing employment opportunities.



With its well known brand, Topçular Endüstriyel Üretim ve Yatırım A.Ş. was established to provide quality solutions to the basic machinery needs of the manufacturing industry.

With its strong and wide industry experience, Topçular Endüstriyel Üretim ve Yatırım A.Ş. continues its activities as a domestic production-oriented company. Ozco branded products are supplied to the local market and exported to many countries. At our facility in Istanbul Sancaktepe; We carry out our Sales, Management, After-sales, and Logistics services, meanwhile, we manufacture our band saw machines in our plant located in Konya city. Within our domestic production activities, we supply machinery to different industries, and with the wide range of high-quality products developed as a result of joint engineering studies with global manufacturers we contribute to our country's economy.

Topçular Endüstriyel Üretim ve Yatırım A.Ş. with its continuous and growing investments supports employment and successfully represents our country in international markets. We are constantly updating ourselves by following the global technological trends and with our successful projects, we establish stronger sector connections, offer the most compliant solutions, and take firm steps towards becoming a global brand.

Our History

The Topçu family entered commercial life when Ali Reis Topçu left the captain's office in the late 1800s and started wholesale food - weighbridge sales in Rize.

In 1923, Dursun Topçu, who was the first driver of Rize, started the hardware-glass trade, and the development in commercial life continued. The third generation, Mehmet, Yaşar, İbrahim, and İsmail Topçu brothers; In addition to the sale of construction materials, hardware, glass, and electrical materials started the manufacturing of rubber shoes.

The family founded Mehmet-Yaşar Topçu and Brothers Collective Company in Istanbul in 1957, which later turned into Topçular Hardware Company, and shifted its business to Istanbul in 1966.

Reis Makina, which carries out its activities mostly based on the Turkish distributorship of well-known foreign products in international markets, started its operations in Karaköy-Istanbul in 1981 as the second company of the family.

Since 1992, Reis Makine had undertaken the Turkey distributorship of Makita Corporation, one of the world's largest manufacturers of power tools. Reis Makina, by taking out the distributorship of many other global brands besides Makita, expanded its current business volume further by moving its headquarters from Karaköy Persembeye Market to Sancaktepe in 2005.

After the merger of all hardware tools and activities under the roof of Reis Makina in 2018, Topçular Hırdavat established Topçular Endüstriyel Üretim ve Yatırım A.Ş. company. The Company started its activities with a vision of providing innovative solutions without compromising on quality and developing strategies specific to its sector and took over the Ozco brand from its sister company, Reis Makina, in 2021. In the same year, the production of tapping benches in the Istanbul/Sancaktepe center and band saws in the Konya facility were started. In addition to domestic production, the Ozco brand has reached the widest machine tool portfolio in Turkey with nearly 250 machines from more than 20 global manufacturers.

Our brand Ozco continues to grow with confidence by achieving extraordinary success in domestic and international markets.

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OPTIONAL ACCESSORIESS 71-72

MANUEL BANDSAW MACHINE

T200

Made in
Türkiye



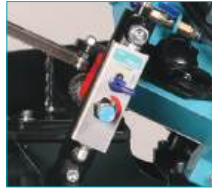
- Angle cut up to 45° from the vice



- 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

Sevkiyat kapsamı

- 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; ■ 120x150 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

Made in
Türkiye

- 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

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
Motor Power	1,1 kW, 380 V
Cutting Angle	0°-60°
Cutting Angle Setting	Miter Cutting
Head Landing Speed Feed	Hydraulic
Blade Dimensions	27x0,9x2460 mm
Cutting Capacity 0°	● 225mm; ■ 195x195 mm; ■ 265x150mm
Cutting Capacity 45°	● 150mm; ■ 150x150mm; ■ 200x135mm
Cutting Capacity 60°	● 90mm; ■ 85x85mm
Speed	21 - 84 m/min
Step	Inverter / Variable
Machine Dimensions	1650x610x1092 mm
Weight	215 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
Saw Blade Dimensions	27x0,9x3160mm
Speed	20-80 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	460 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



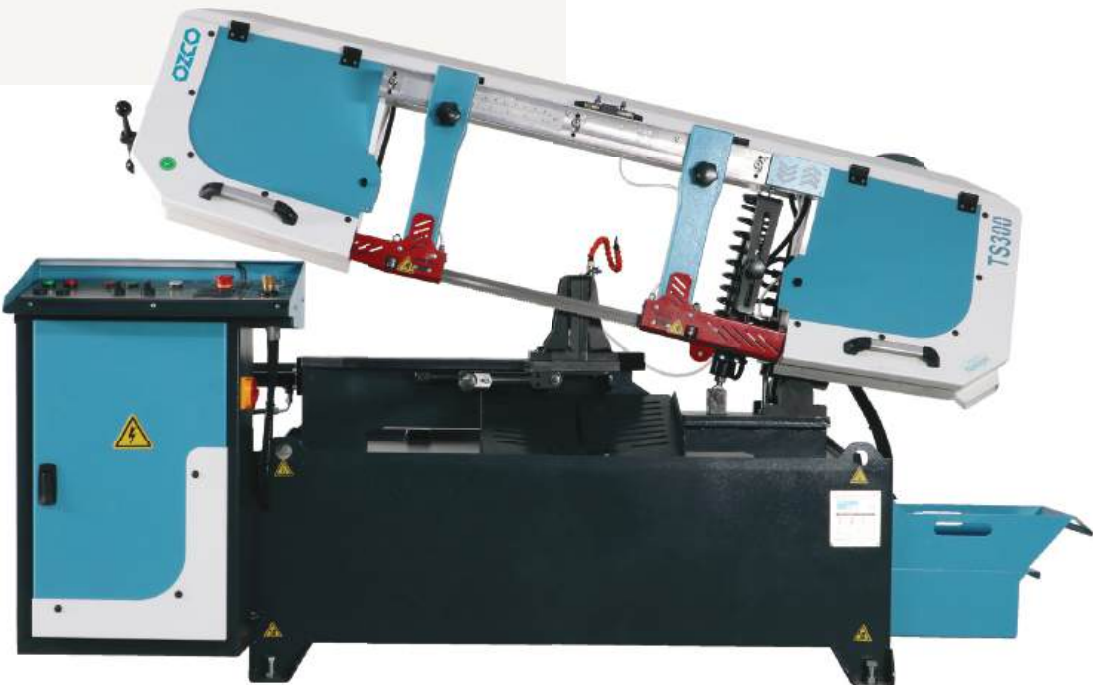
TS300

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



Made in

Türkiye

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; ■ 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	-
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2005x1260x1275 mm
Weight	630 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

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



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 ■ 300x360 mm
Cutting Capacity 45°	● 280mm ■ 280x280 mm ■ 280x360 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	2,2 kW
Hydraulic Motor Power	0.18 kW
Coolant Motor Power	0.12 kW
Machine Dimensions	2470x1350x1300 mm
Weight	775 kg

TS360

(Semi Automatic-Straight Cut)

Hydraulic/Automatic material clamping

Hydraulic/Automatic head travel

Manuel material feeding

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



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

TS300M (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; ■ 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	-
Hydraulic Motor Power	0.18 kW
Cooling Engine Power	0.12 kW
Machine Dimensions	2005x1260x1275 mm
Weight	630 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

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

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	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	905 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



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

TA300 (Full Auto)

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



Made in
Türkiye

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	660 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

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



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
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	815 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



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



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	TA300
Motor Power	1,5 kW, 380 V
Cutting Capacity	● 300mm; ■ 300x300 mm; ■ 250x375 mm
Saw Blade Dimensions	27x0,9x3960mm
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	660 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

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



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	905 kg

TA360M (Full Auto)

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



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



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

BANDSAW MACHINES

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



PRODUCT CODE		WIDTH X THICKNESS	LENGTH	SUITABLE MODEL	1 Package: 5 Pcs
LENGTH	THREAD DIMENSION				
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)
20mm'ye kadar	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

COLUMN DRILLING MACHINE

M13 | M16 | M20

EC Certificate (Accordance with CE standards)

- Emergency STOP button
- Drill press safety shield/Visorguard/
- Pulley drive belt (pulleys guard) cover

Adjustable safety shield (visor guard)
 Drive belt tension lever (except for M13)/ belt tension handle
 Powerful (durable), highly efficient copper motor
 Right / Left Rotation (Three-phase / 400 V motor)
 Ground table with diagonal ("X" crossed) T-slots
 Depth stop to control / lock drilling depth
 Professional ergonomic rubber grips on handles for accuracy and ease of use
 Aluminum pulley belt cover (except for M13, pulley belt cover is made of steel)
 High quality cast iron base (except for M13, the base is from steel)
 (Precision) Working table, tiltable from -45 ° to + 45 ° and rotating 360° around the column
 Precision keyless chucks (except for M13, key-type chuck)
 Cast iron base for low vibration and stable operation

Optional Accessories:

- 110013: 1-13mm B16 drill chuck (keyed)
- 110016: 3-16mm B16 quick-action drill chuck
- 110102: MT2- B16 morse taper (M16, M20, M20H)
- 110103: MT3-B16 morse taper (M25)
- 110104: MT4-B16 morse taper (M32, M35)
- 150100: Drill vice 100 mm (M13, M16)
- 150125: Drill vice 125 mm (M16, M20, M20H)
- 150150: Drill vice 150 mm (M25, M32, M35)32
- 150200: Drill vice 200 mm (M32, M35)
- 190002: MT2 Automatic tapping device M2-M7 (M16, M20, M20H)
- 190003: MT3 Automatic tapping device M5-M12 (M25)
- 190004: MT4 Automatic tapping device M8-M20 (M32, M35)



Standard Accessories
 • 1-13mm B16 chuck
 • 2 pcs T-nut



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



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

MODEL	M13	M16	M20
Main Motor Power	350 W, 230 V	450 W, 230 V	550 W, 230 V
Working Type	Belt Drive		
Drilling Capacity	13 mm	16 mm	20 mm
Spindle-Column Distance	104 mm	129 mm	180 mm
Spindle Taper	B16	MT2	MT2
Spindle Stroke (Spindle Travel)	50 mm	65 mm	85 mm
Speed Range	620-2620 rpm	620-2620 rpm	180-2770 rpm
Number of Steps	5	12	16
Table Size	160x160 mm	200x200 mm	290x290 mm
T-slot Size	14 mm	14 mm	14 mm
Table Tilt / Rotation	±45° / 360°	±45° / 360°	±45° / 360°
Spindle - Table Distance	220 mm	420 mm	435 mm
Spindle to Base Distance	300 mm	535 mm	610 mm
Base Size	290x190 mm	340x210 mm	460x272 mm
Column Diameter	46 mm	58 mm	72 mm
Dimensions (L x W x H)	355x225x580 mm	510x300x855 mm	650x360x1006 mm
Net Weight	19 Kg	32 Kg	60 Kg

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

**400 volt models
additional with right-
left-hand rotation
(M20H, M25, M32, M35)**

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

UPRIGHT RADIAL DRILL

MR16 | MR20H

CE Certificate

- Emergency STOP button
- Drill press safety shield/Visorguard/
- Pulley drive belt (pulleys guard) cover

Adjustable safety shield (visor guard)
 Drive belt tension lever / belt tension handle
 Powerful (durable), highly efficient copper motor
 Right / Left Rotation (Three-phase / 400 V motor)
 Ground table with diagonal ("X" crossed) T-slots
 Depth stop to control / lock drilling depth
 Professional ergonomic rubber grips on handles for accuracy and ease of use
 Aluminum pulley belt cover
 High quality cast iron base
 (Precision) Working table, tiltable from -45 ° to + 45 ° and rotating 360° around the column
 Precision keyless chucks
 Cast iron base for low vibration and stable operation

Optional Accessories:

110102: MT2- B16 morse taper

190002: MT2 Automatic tapping device M2-M7

Drill head that can rotate 45° right 90° left



MR16



MR20H

MODEL	MR16	MR20H
Main Motor Power	550 W, 230 V	750 W, 230 V
Working Type	Belt Drive	
Drilling Capacity	16 mm	20 mm
Spindle-Column Distance	115-420 mm	115-420 mm
Spindle Taper	MT2	MT2
Spindle Stroke (Spindle Travel)	100 mm	100 mm
Speed Range	465-3000 rpm	465-3000 rpm
Number of Steps	5	5
Table Size	230x230mm	265x265 mm
T-slot Size	14 mm	14 mm
Table Tilt / Rotation	±45° / 360°	±45° / 360°
Spindle - Table Distance	420 mm	700 mm
Spindle to Base Distance	510 mm	1190 mm
Base Size	380x240mm	590x340 mm
Column Diameter	60 mm	70 mm
Dimensions (L x W x H)	950x420x350 mm	1160x510x320 mm
Net Weight	45 Kg	70 Kg

Standard Accessories

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



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-Aaxis
- 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



MC32 Plus



MC32F

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:

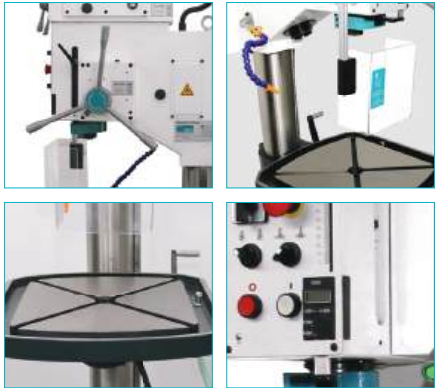
- 110104: MT4-B16 morse taper
150200: Drill vice 200 mm

MC35 S

MC35

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



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

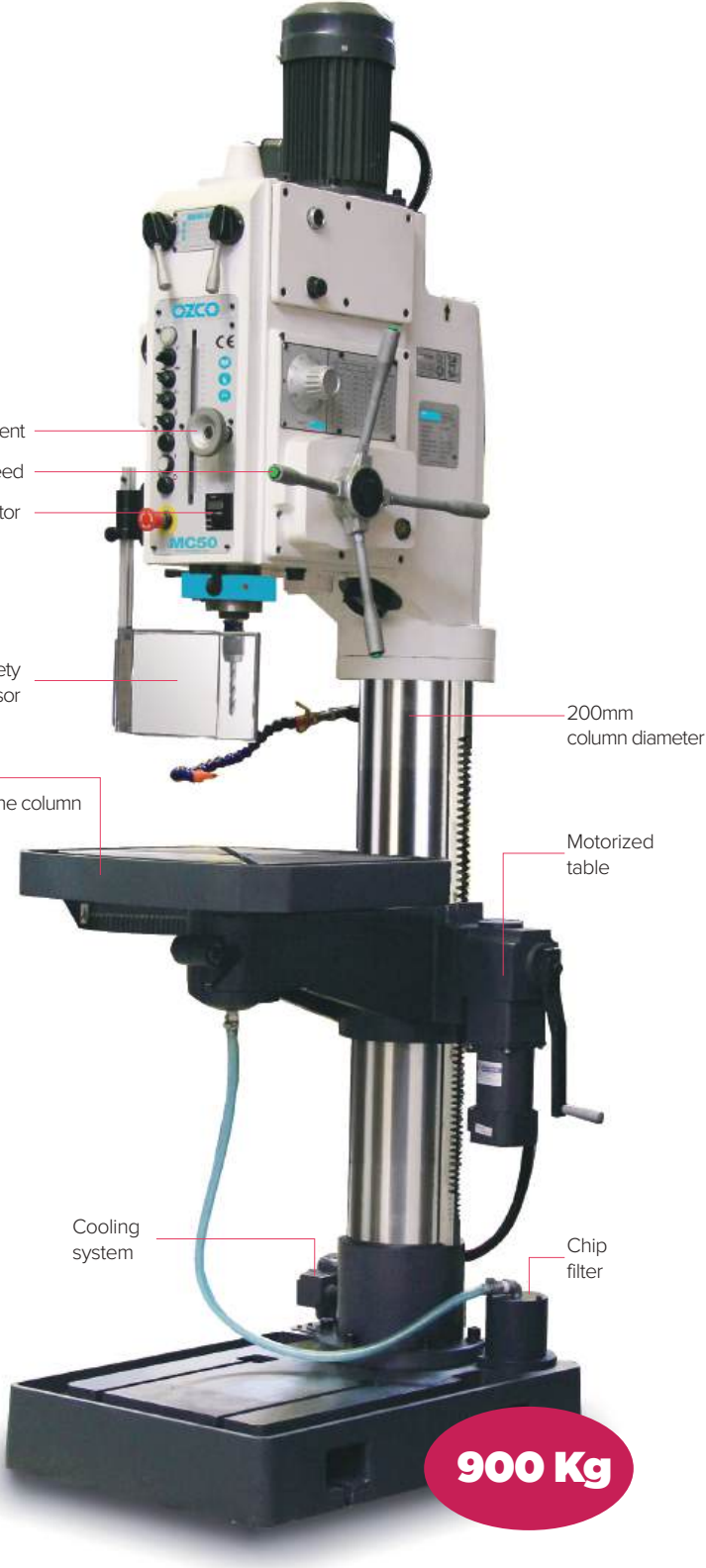
- MT4-B16 morse taper
- 3-16mm B16 drill chuck
- Operating tools

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



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

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:



295020: Stand For FM20V/FM20VL

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

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

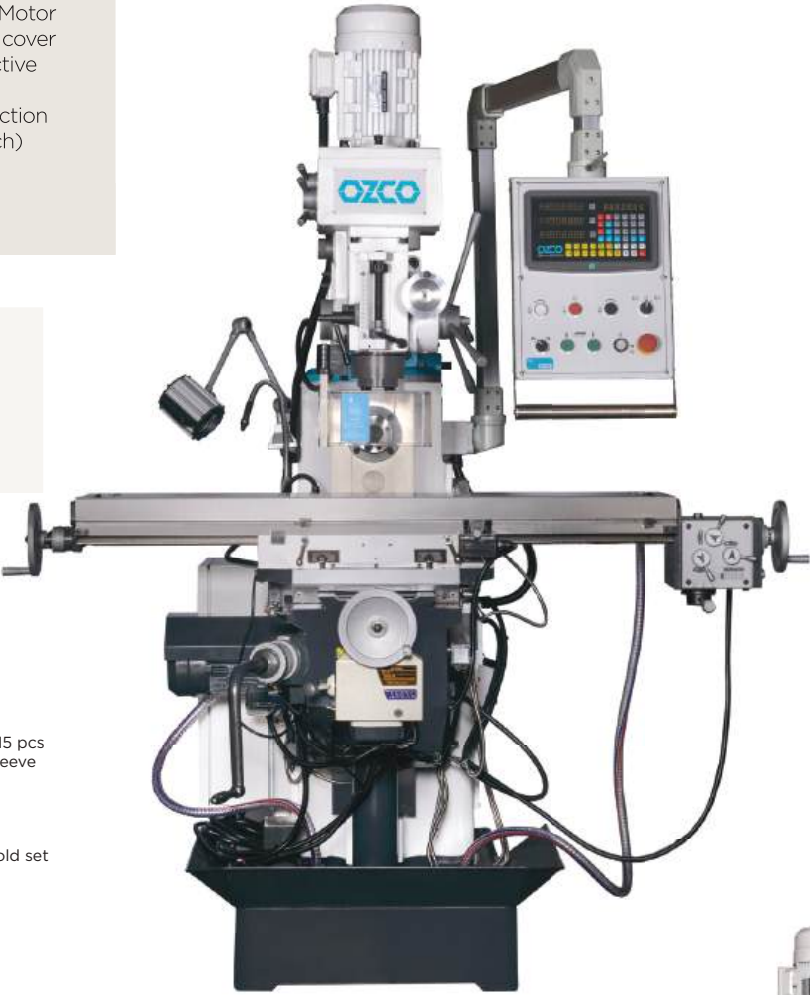
- 3- axis Feed Automatic Motor
- Height-adjustable chuck cover
- Height-adjustable protective screen with micro switch (Height-adjustable protection guard with (safety) switch)
- Cooling system
- Machine lamp
- CE Standard

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

Separate motor
on each axis

DRIVE



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

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

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 thickness) 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

CR1530V | CR2140V

Features:

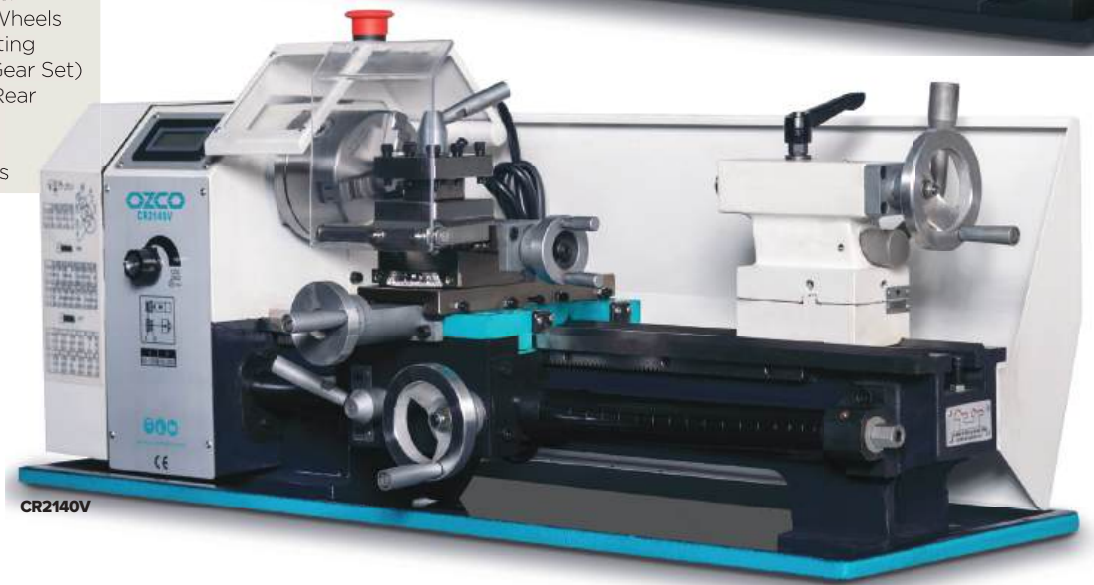
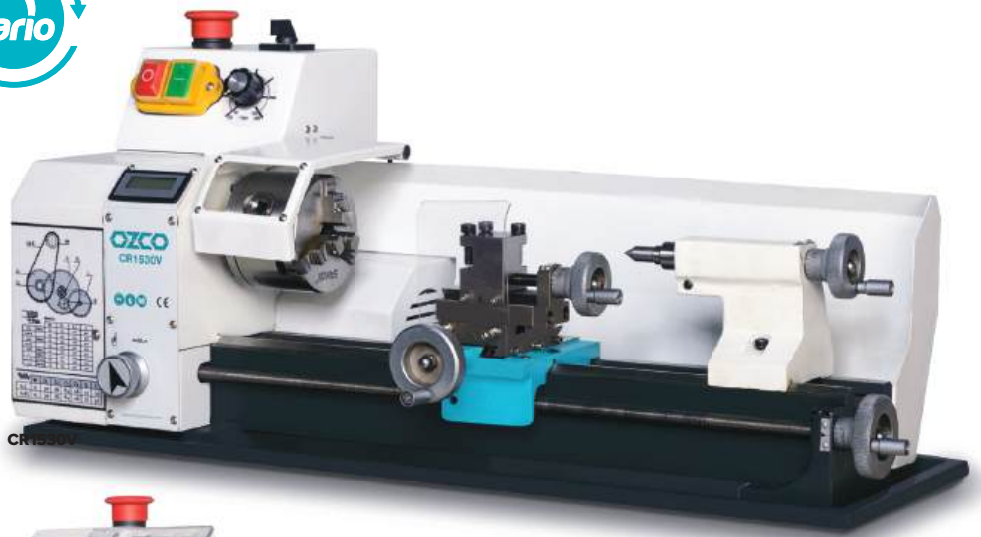
- Hardened and polished guideways
- Powerful and precision spindle
- Right / Left Rotation
- Automatic Carriage
- Threading Mode
- Splashguard (Rear Safety Guard)
- Emergency Stop Button
- Chip tray
- CE Standard



**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	CR1530V	CR2140V
Main Motor Power	450 W, 230 V	600 W, 230 V
Swing Diameter over Machine Bed	150 mm	210 mm
Bed Width	70 mm	100 mm
Center Width	300 mm	400 mm
Spindle Speed	120-3000 rpm	50-2500 rpm
Number of Steps	Variable	2 / Variable
Spindle Taper	MT1	MT2
Spindle Bore	11 mm	21 mm
Compound Rest Travel	40 mm	55 mm
Cross Slide Travel	55 mm	75 mm
Tailstock Spindle (Taper)	MT1	MT2
Tailstock Sleeve Stroke	30 mm	65 mm
Longitudinal Feed	0.05-0.1 mm/rev	0.1-0.2 mm/rev
Pitch – metric	0.5-1.5 mm/rev	0.25-3 mm/rev
Pitch – inches	-	10-44
Tool Holder	8 mm	10 mm
Dimensions (L x W x H)	560x320x290 mm	820x480x360 mm
Weight	24 Kg	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



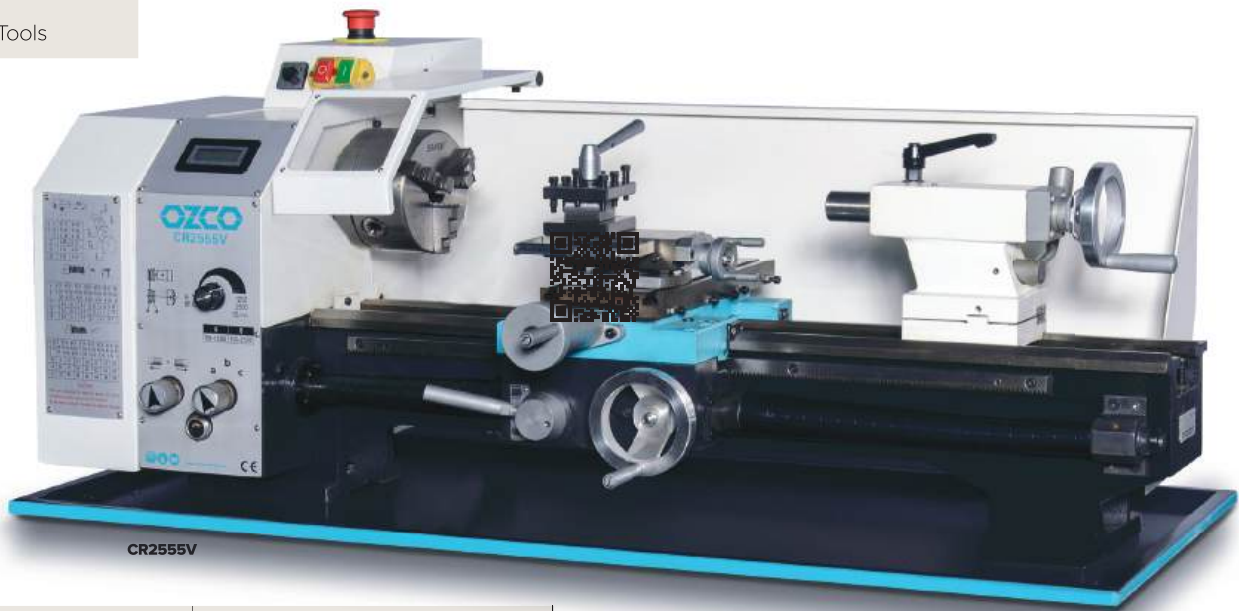
CR2555V

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



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

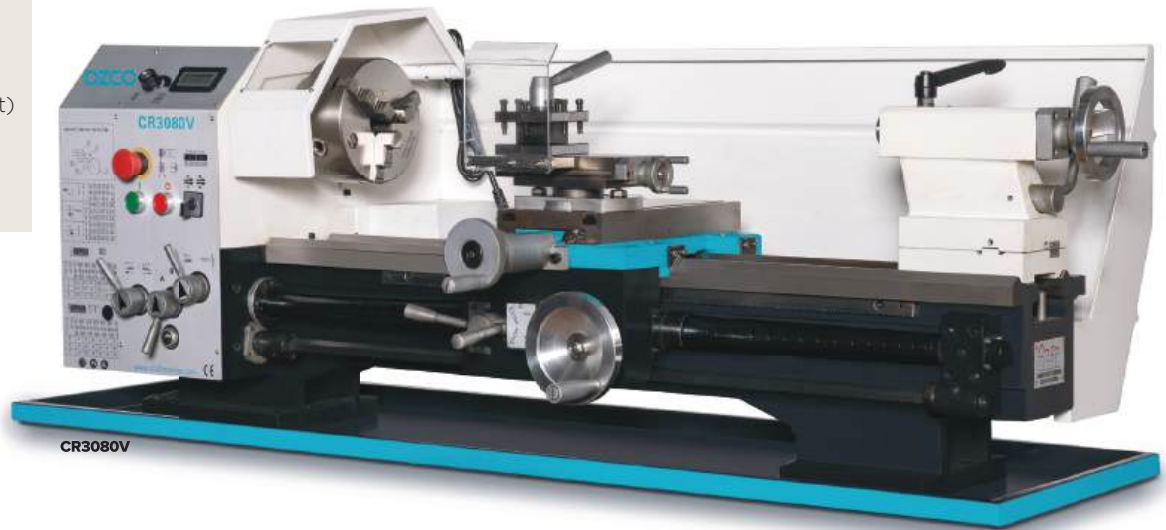


CR3080V

- 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



CR3290



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

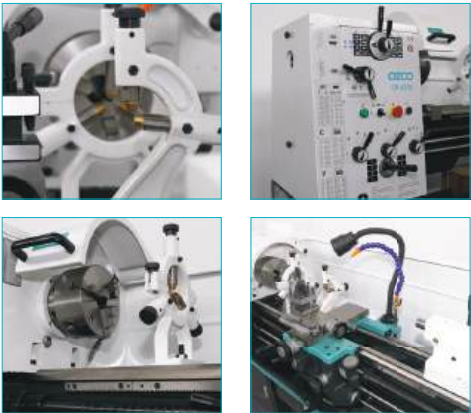
CONVENTIONAL LATHE MACHINE

CR4210 | CR4210 DK



CR4210DK
With 2 Axis Digital
Readout DRO

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

Optional Accessories:
310104: MT4 Live center
320104: 25X120mm Quick change tool holder set

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

UNIVERSAL LATHE MACHINE



CB5010 | CB5015 | CB5020

Only in **NEW** CB series

- 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



- 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
390100: Taper turning attachment

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 adet)		
Dimensions (L x W x H)	56-1/4 DP (45 adet)		
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

CB5020L | CB5030L | CB5040L | CB5050L

Only in **NEW** CB series

- 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 CB50-L series
- CB50-L series can produce 46 different metric threads thanks to the 6 rpm decreasing speed.
- CB5030L, CB5040L and CB5050L (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:

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



CB6620 | CB6630 | CB6640 | CB6650

Only in **NEW** CB series

- 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 CB66 series
- CB66 series can produce 46 different metric threads thanks to the 6 rpm decreasing speed.
- CB6630, CB6640 ve CB6650 (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:

- 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	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	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	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	2900 kg	3400 kg	4100 kg	4700 kg
Gross KG	3400 kg	4200 kg	5000 kg	5400 kg

UNIVERSAL LATHE

CB7620 | CB7630 | CB7640 | CB7650

Only in **NEW** CB serieses

- 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:

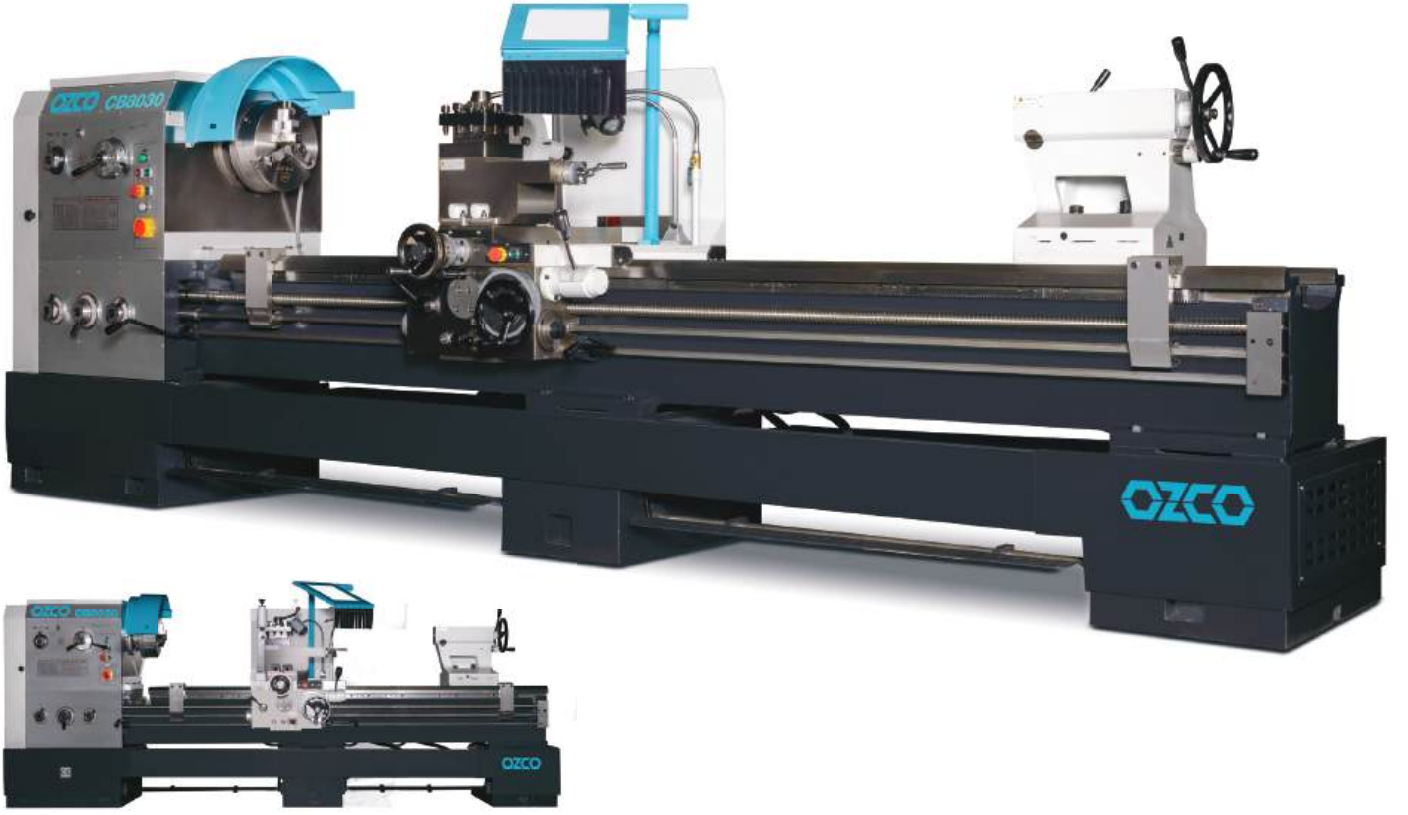
310105: MK5 live center
320105: 32x150 mm Quick change tool holder
350101: 250 mm 3 Jaw Chuck (Self centering)
350102: 315 mm 3 Jaw Chuck (Self Centering)
350201: 400 mm 4 Jaw Chuck (Independent)
385001: 20-140 mm Steady Rest
385004: 130-260 mm Steady Rest
385015: 20-80 mm Follow Rest

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

Opsiyonel Aksesuarlar :
310105: MK5 döner punta
320105: 32X150mm seri takılabilir kalemlik seti

- CE normlarına uygun
- Mekanik kavrama sistemi/debriyaj
- **SIEMENS** elektrik sistemi
- Emniyet siviçli ayna siperliği
- Kolay hareket imkanı sunan joystick
- Aydınlatma sistemi
- Soğutma ünitesi
- Ayak freni

Sevkiyat kapsamı:

- 3 ayaklı ayna 315 mm
- 4 ayaklı ayna 500 mm
- Düz ayna 500 mm
- Sabit yatak
- Gezer yatak
- MK5 döner punta
- MK5 sabit punta
- Diş Saati
- 4 yollu kalemlik
- Aydınlatma
- Ayna ve kalemlik siperliği
- Soğutma sistemi
- Avadanlık

MODEL	CB8020	CB8030
Motor Gücü	7.5 kW, 400 V	
Banko Üzeri Çap	800 mm	
Köprü Üzeri Çap	1000 mm	
Araba Üzeri Çap	560 mm	
Banko Genişliği	510 mm	
Puntalar Arası Mesafe	2000 mm	3000 mm
Hız	30-1400 dev/dak	
Kademe	12	
Fener Mili Koniği	MK7	
Fener Mili Ucu	D1-8	
Fener Mili Çapı	105 mm	
Enine Support Hareketi	320 mm	
Çapraz Support Hareketi	145 mm	
Gezer Punta Koniği	MK5	
Gezer Punta Çapı	75 mm	
Gezer Punta Hareketi	150 mm	
Doğrusal Besleme	0,027-1,07 mm/devir	
Enine Besleme	0,063-2,52 mm/devir	
Metrik Hat ve Oranı	1-14mm (22 adet)	
İnç Hat ve Oranı	20-2 TPI (20 adet)	
Modül Hat ve Oranı	0,5-7 (18 adet)	
Diametrik Hat ve Oranı	56-4 DP (24 adet)	
Kalemlik Ölçüsü	25X25mm	
Makina Ölçüleri	3370x1350x1500	4370x1350x1500
Ağırlık	3300 Kg	3750 Kg

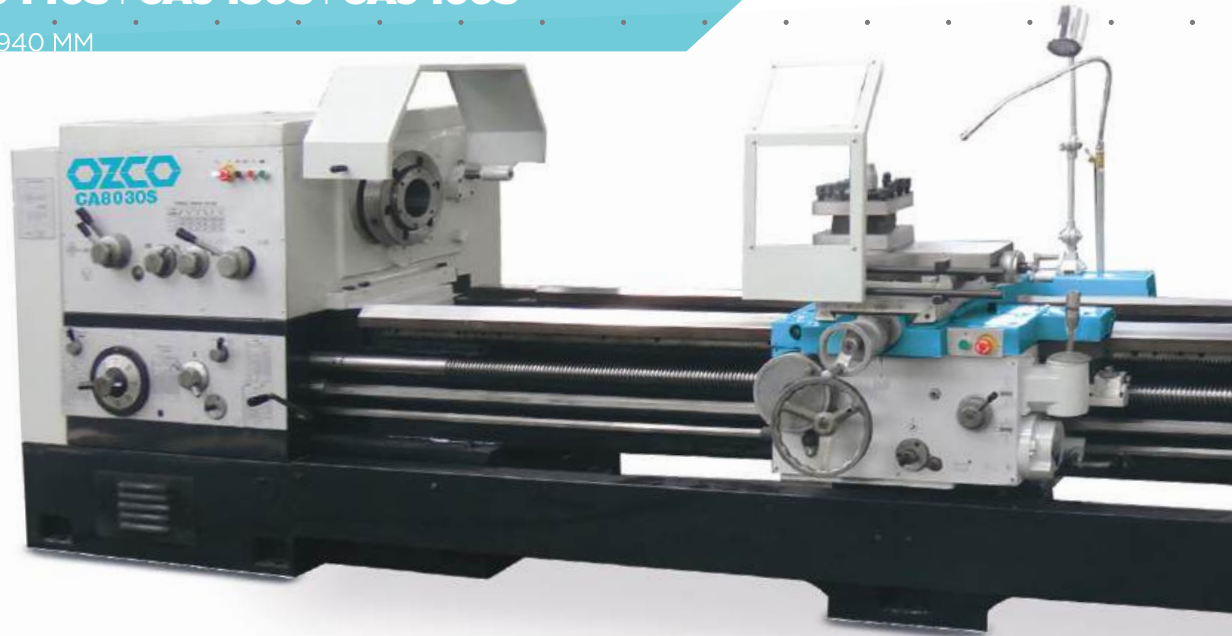
HEAVY-DUTY LATHE MACHINE

CA8030S | CA8040S | CA8050S | CA8060S

SWING Ø OVER BED: 800 MM

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





You can see the video of CA14060HL



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

Automatic/Motorized
Tailstock

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

MODEL	CA16030HL	CA16040HL	CA16050HL	CA16060HL	CA20060DL	CA20080DL	CA200100DL
Main Motor Power	22kW, 400V				30 kW, 400 V		
Swing Diameter over Machine Bed	1600 mm				2080 mm		
Swing Diameter over Cross Slide (Carriage)	1200 mm				1600 mm		
Bed Width	780 mm				1100 mm		
Distance between Centers	3000 mm	4000 mm	5000 mm	6000 mm	6000 mm	8000 mm	10000 mm
Max Load Capacity	8000 kg				12000 Kg		
Spindle Speed	3,15-315 rpm (forward) / 4,5-390 rpm (reverse)				2,5-250 rpm (reverse)		
Number of Steps	21 (forward) / 12 (reverse)				21 (forward) / 12 (reverse)		
Spindle Taper	A2-15				A2-15		
Spindle Bore	130 mm				130 mm		
Compound Rest Travel	825 mm				760 mm		
Cross Slide Travel	300 mm				300 mm		
Tailstock Spindle (Taper)	M80				M80		
Tailstock Spindle Diameter	160 mm				260 mm		
Tailstock Sleeve Stroke	300 mm				300 mm		
Longitudinal Feed	0,1-12 (56 pitches)				0,1-12 (56 pitches)		
Cross Feed	0,05-6 (56 pitches)				0,05-6 (56 pitches)		
Pitch - metric	1-120 (44 pitches)				1-120 (44 pitches)		
Pitch - inches	0,25-28 (31 pitches)				0,25-28 (31 pitches)		
Modular Thread Range	0,5-60 (45 pitches)				0,5-60 (45 pitches)		
Diametral Pitch Range	0,5-56 (38 pitches)				0,5-56 (38 pitches)		
Tool Holder	45x45 mm				45x45 mm		
Dimensions (L x W x H)	5950x 2110x2245	6950x 2110x2245	7950x 2110x2245	8950x 2110x2245	9280x 2200x2600	11280x 2200x2600	13280x 2200x2600
Weight	14.400 Kg	15.400 Kg	16.400 Kg	17.400 Kg	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	5 mm	
Vertical (Y-axis) Downfeed	0,5-12 mm	
Handfeed per rev	790 mm/min	
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	0,5 mm	0,1 mm
Cross feed (Z-axis) Movement	0,005-0,05 mm	0,001-1 mm
Handfeed per rev	(8 steps, variable speed)	
Automatic down feed precision (rate)	230 mm/min	210 mm/min
Z-axis feeding speed	1,5 kW	
Hydraulic Motor	550 W	
Dust Collector Motor	90 W	
Coolant Motor Capacity	90 W	
Y-axis (Vertical) Motor Capacity	4NM Servo Motor	1 kW
Z-axis (Cross feed) Motor Capacity	2600x2500 mm	
Floor Space	2150x1940x2195 mm	
Dimensions (L x W x H)	1910 Kg	
Net Weight	2210 Kg	
Gross Weight		

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	0,02 mm	
Handfeed per grad	5 mm	
Vertical (Y-axis) Downfeed	5 mm	
Handfeed per rev	0,5-12 mm	
Automatic Y-axis Movement	790 mm/min	
Y-axis Rapid Speed	355x40x127 mm	
Grinding Wheel Dimensions (diaxwidthxbore)	1450 rpm	
Spindle Speed	0,001 mm	
Cross feed (Z-axis) Movement	0,001 mm	0,001 mm
Handfeed per grad	0,5 mm	0,1 mm
Cross feed (Z-axis) Movement	0,005-0,05 mm (8 step, variable speed)	0,001-1 mm
Handfeed per rev	230 mm/min	210 mm/min
Automatic down feed precision (rate)	2,2 kW	
Z-axis feeding speed	550 W	
Hydraulic Motor	90 W	
Dust Collector Motor	90 W	
Coolant Motor Capacity	4NM Servo	
Y-axis (Vertical) Motor Capacity	1 kW	
Z-axis (Cross feed) Motor Capacity	3600x2600 mm	
Floor Space	2790x2225x2195 mm	
Dimensions (L x W x H)	2850 Kg	
Net Weight	3150 Kg	
Gross Weight		

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 Plus | SG510 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 Plus

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 Plus	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



SG511 Servo | SG515 NC



MODEL	SG511 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	0,002 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)	2,2 kW	
Z-axis feeding speed	550 W	
Hydraulic Motor	90 W	
Dust Collector Motor	370 W	
Coolant Motor Capacity	370 W	1,5 kW
Y-axis (Vertical) Motor Capacity	5810x2445 mm	
Z-axis (Cross feed) Motor Capacity	3890x2255x2225 mm	4000x2285x2250 mm
Floor Space	6000 Kg	
Dimensions (L x W x H)	7000 Kg	
Net Weight		
Gross Weight		

SG511 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

GM13 | GD13R | GD13T

MODEL	GM13
Motor Power	80 W
Voltage	230 V
Speed	4200 rpm
Working Time at Load(max)	5 dk
Drill Bit Angle	118°
Sharpening capacity	Ø3- Ø13 mm
Dimensions(LxWxH)	290x140x150 mm
Net Weight	2.5 Kg
Gross Weight	3 Kg

Optional Accessories:
610010: HSS Sharpening Wheel



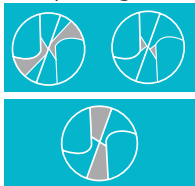
GD13R

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

610013: HSS Sharpening Wheel
610014: Carbide Sharpening Wheel

Sharpening surfaces



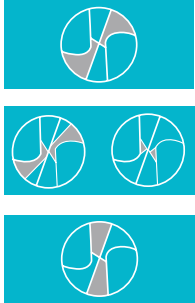
GD13T

MODEL	GD13T
Motor Power	120 W
Voltage	230 V
Speed	4400 rpm
Drill Bit Angle	100° - 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

Optional Accessories:
610015: HSS Sharpening Wheel
610016: Carbide Sharpening Wheel

Sharpening surfaces



DRILL BIT SHARPENERS



GD30 | GD30T | GD30T Plus

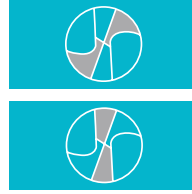
GD30

MODEL	GD30
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	33 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

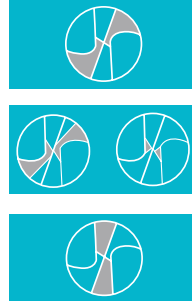
GD30T

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

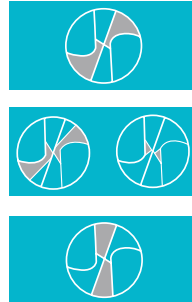
GD30T Plus

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

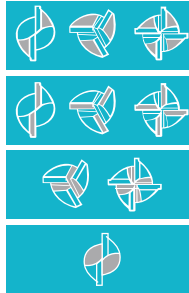
GF14

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

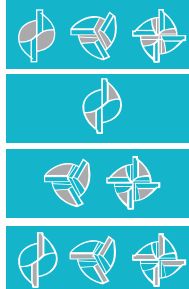
GF14A

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

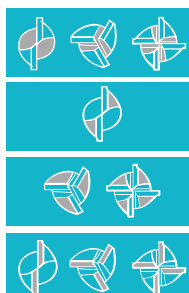
GF30A

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

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



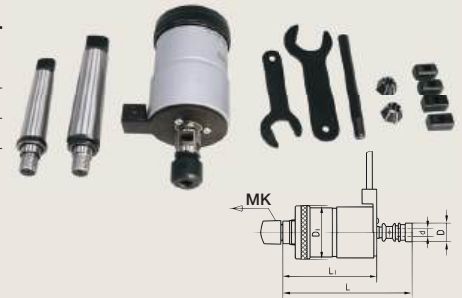
DRILLING MACHINE VICE

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



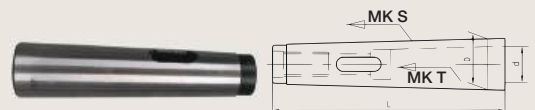
REVERSIBLE TAPPING CHUCK

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



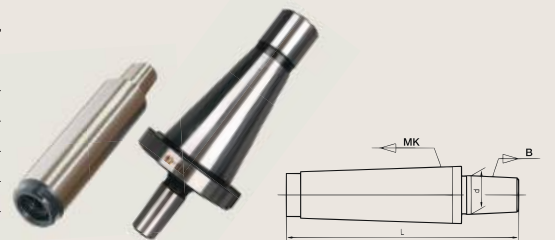
MORSETAPER SLEEVES (Drawbar type)

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



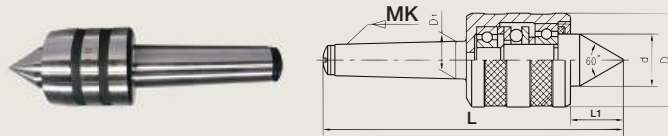
ROTARY TABLE

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

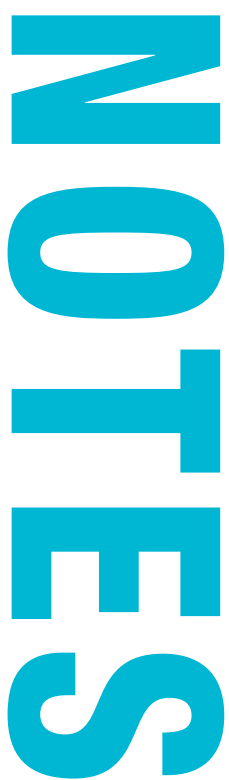
ITEM NO	MS NO	L (mm)	L1 (mm)	D (mm)	D1 (mm)	d (mm)	Max Load (N)	Max. Speed (prm)	WEIGHT	Sensitivity (mm)
310101	MK1	115	20	34	12,065	18	900	5000	0,29	0,01
310102	MK2	145	26	45	17,78	25	1500	5000	0,7	0,01
310103	MK3	170	30	52	23,082	28	2000	4200	0,93	0,01
310104	MK4	205,7	34,7	60	31,26	32	3200	3200	1,7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







Notes

Head Quarter:

Abdurrahmangazi Mah. İmamoğlu Sok.
No:6/C 34887 Sancaktepe/İSTANBUL

Factory:

Fevzi Çakmak Mah. Büsan Sanayi Sitesi
10644 Sok. No:5 42050 Karatay/KONYA

+90 850 222 86 28

ozcomakina

ozcomakina

+90 216 561 10 03

ozcomakina

ozco@topcular.com