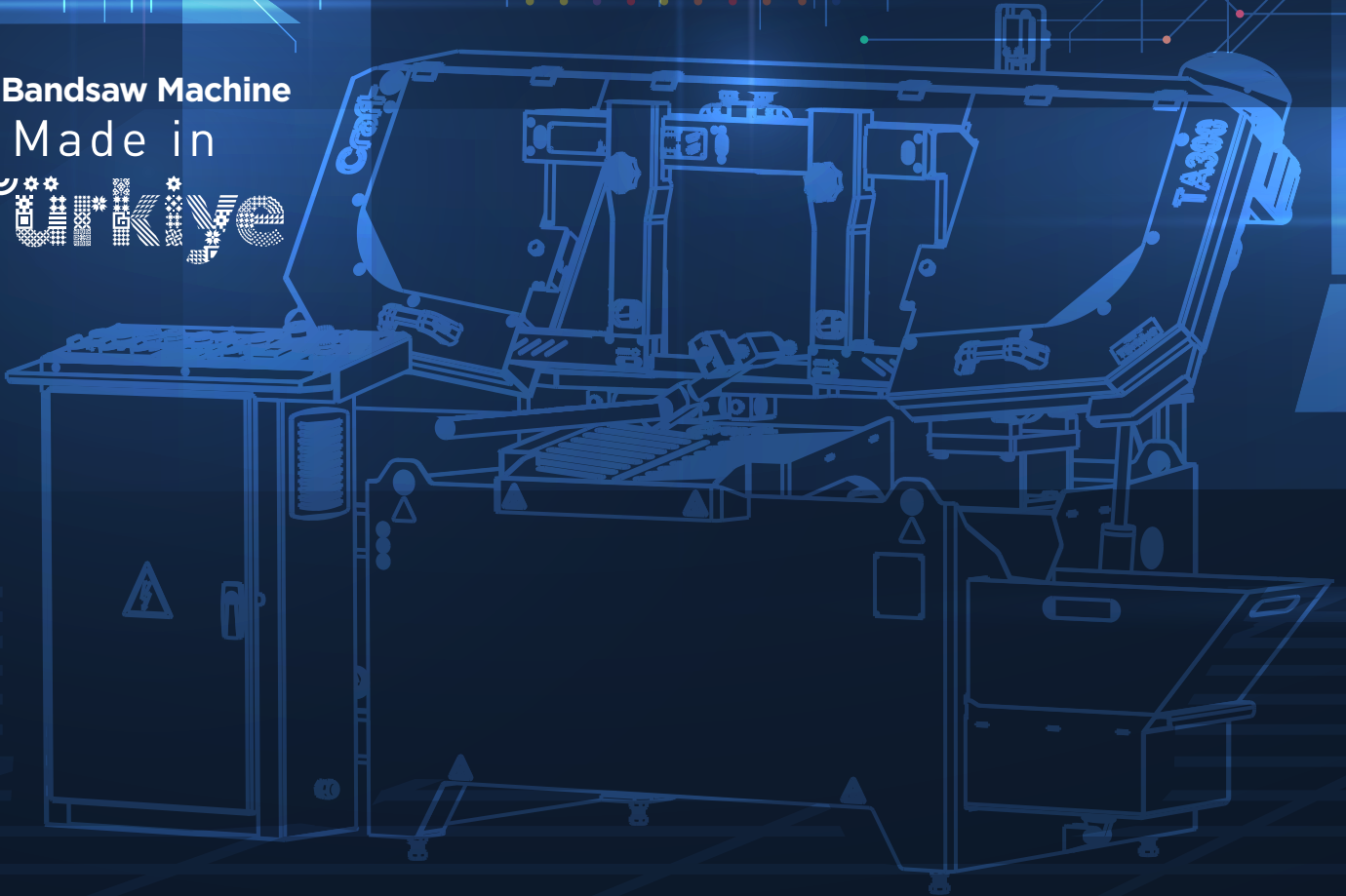


# Craft

## METALWORKING MACHINES

Craft Bandsaw Machine  
Made in





TOPÇU  
HOLDİNG

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 Craft 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. Craft 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 Makina 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 Persembe Market to Sancaktepe in 2005.

Reis Makina, started its activities in the field of metalworking machines in 2003, by creating its registered brand Craft in 2016.

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 Craft 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 Craft brand has reached the widest machine tool portfolio in Turkey with nearly 250 machines from more than 20 global manufacturers.

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

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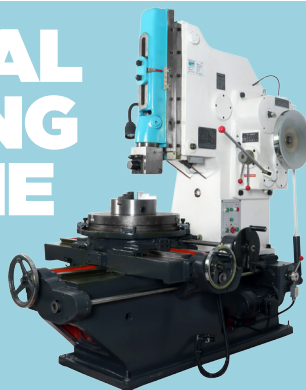
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# COLUMN DRILLING MACHINE

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



You can see the video of M13



You can see the video of M16

## 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



**400 volt models  
additional with right-  
left-hand rotation  
(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 mors konik  
• 3-16mm B16 chuck  
• 2 pcs T-nut

**Standard Accessories**  
• MT4-B16 mors konik  
• 3-16mm B16 chuck  
• 2 pcs T-nut

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

# 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         | 115-430 mm     | 115-430 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)
- O-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

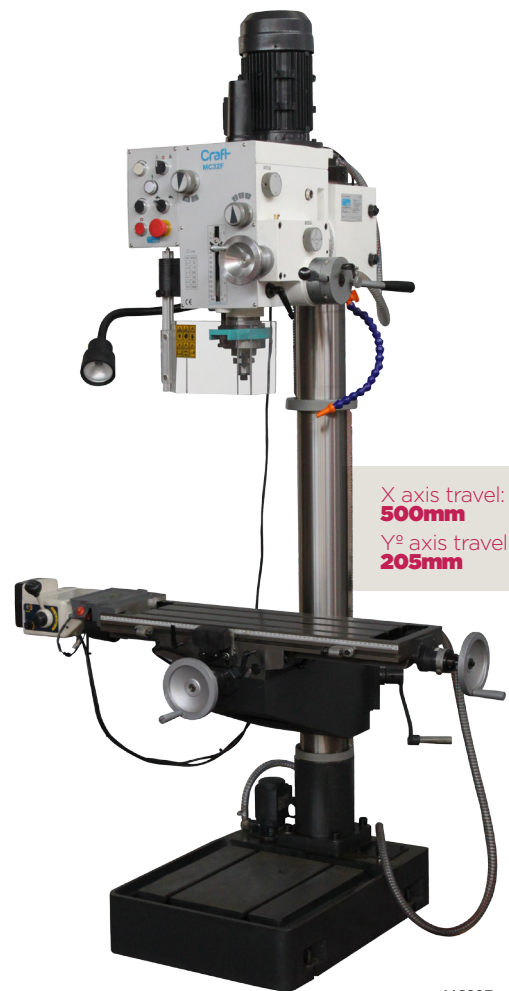
#### Standard Accessories

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

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



MC32 Plus



X axis travel:  
**500mm**  
 Y° axis travel:  
**205mm**

MC32F

| MODEL                           | MC32            | MC32 Plus             | MC32F           |
|---------------------------------|-----------------|-----------------------|-----------------|
| Main Motor Power                |                 | 1,5 kW, 400 V         |                 |
| Working Type                    |                 | Gearred               |                 |
| 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           |



# 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

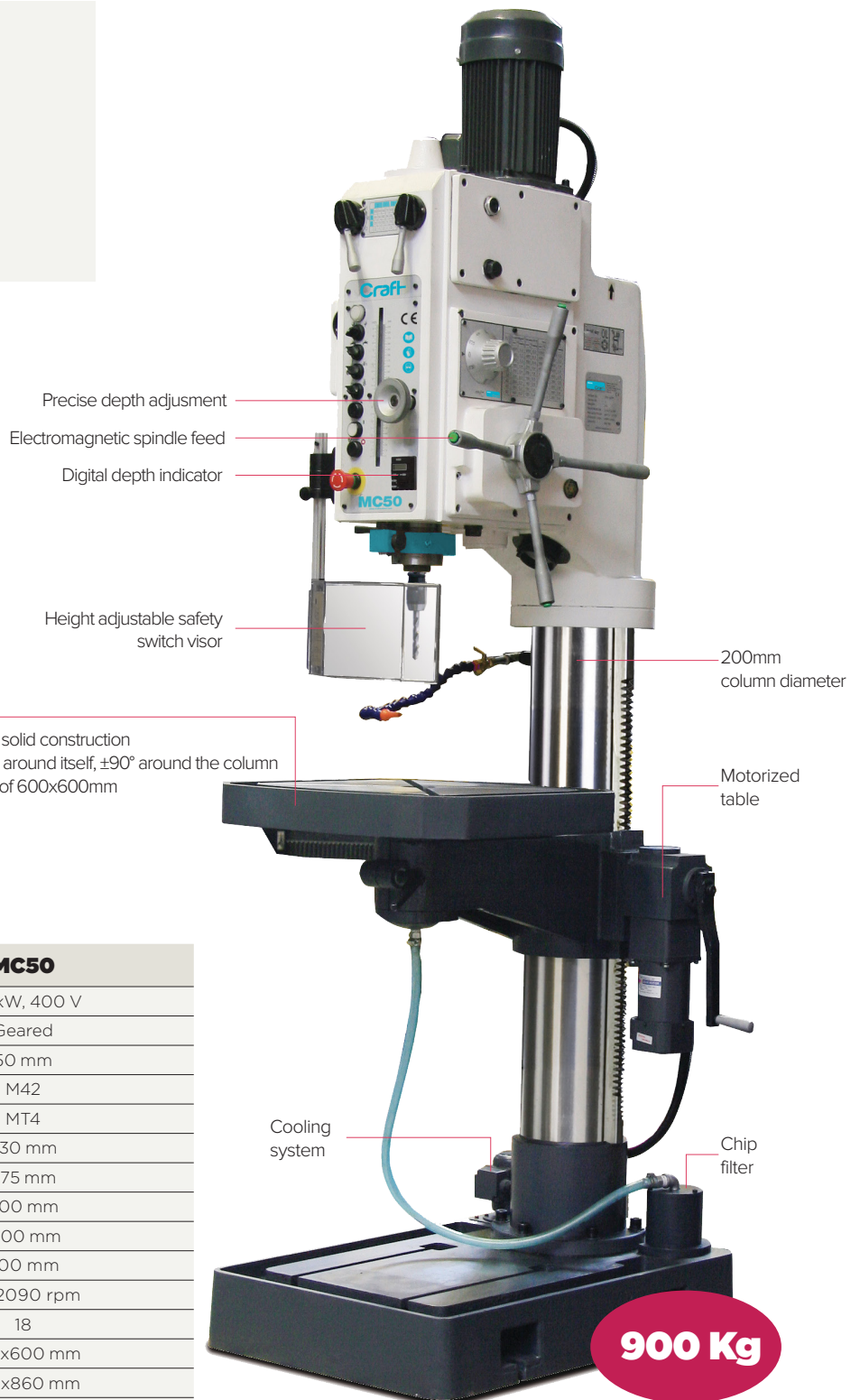
### Optional Accessories:

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

### Table

- 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                   |



## M40V pro



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

#### Features:

- Mechanical spindle feed
- Front positioning height-adjustable worktable
- Height-adjustable chuck cover
- Digital depth reader
- Threading mode
- 360° rotatable worktable
- Machine lamp
- Cooling system
- CE Standard

#### Standard Accessories

- Operating tools



MADE IN TAIWAN

| MODEL                           | M40V PRO                                    |
|---------------------------------|---|
| Main Motor Power                | 1,5 kW, 400 V                               |
| Working Type                    | Geared                                      |
| Drilling Capacity               | 40 mm                                       |
| Tapping Capacity                | M24   |
| Spindle Taper                   | MT4   |
| Spindle Stroke (Spindle Travel) | 150 mm                                      |
| Spindle-Column Distance         | 265 mm                                      |
| Spindle-Table Distance          | 860 mm                                      |
| Spindle-Base Distance           | 1185 mm                                     |
| Column Diameter                 | 115 mm                                      |
| Speed Range                     | 65-2000 rpm                                 |
| Number of Steps                 | 2 Vario speed<br>(Adjustable speed control) |
| Table Size                      | 560x470 mm                                  |
| Base Size                       | 685x485 mm                                  |
| Spindle Feed                    | -   |
| Coolant Pump Power              | 100 W                                       |
| Coolant Pump Tank Capacity      | 5 Lt  |
| Machine Dimensions (L x W x H)  | 960x675x2030 mm                             |
| Net Weight                      | 350 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                   |

# 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

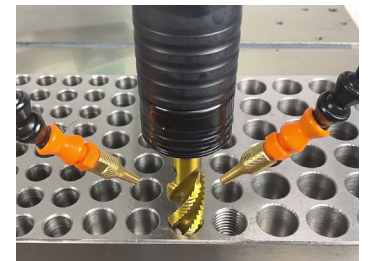


You can see the video of ATP36A Servo

### 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           |
| 136033  | M33 TAPPING COLLET           |
| 136036  | M36 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       |

# BENCH MILLING MACHINE

## FM16V

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



#### Features:

- Right / Left Rotation
- Height-adjustable milling machine guard (chuck cover) 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:

- 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



You can see the video of 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                 | $\pm 45^\circ$  |
| Spindle to Column Distance         | 175 mm          |
| Dimensions (L x W x H)             | 500x465x791 mm  |
| Net Weight                         | 70 Kg           |



# BENCH MILLING MACHINE

## FM20V | FM20VL

### FM20VD | FM20VLD Integrated digital 3 axis readout

### 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



You can see the video of FM20V



You can see the video of FM20VD



You can see the video of FM20VLD



**FM20VL & FM20VLD**  
Uzun tabla: **700x180mm**

| MODEL                             | FM20V / FM20VD  | FM20VL / 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           |

#### Optional Accessories:



215120: X-Axis power feed



295020: Stand For FM20V/FM20VL

# BENCH MILLING MACHINE

## FM30V | FM30 Plus

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



#### Features:

- Right / Left Rotation
- Height-adjustable protective screen with micro switch
- (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

- MT3 / M12 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



You can see the video of FM30V



You can see the video of FM30 Plus



### FM30 Plus

#### Features:

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

#### Optional Accessories:



215130: X-Axis power feed



295030: Stand for FM30

| 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            |

# BENCH MILLING MACHINE

## FS28

### Features:

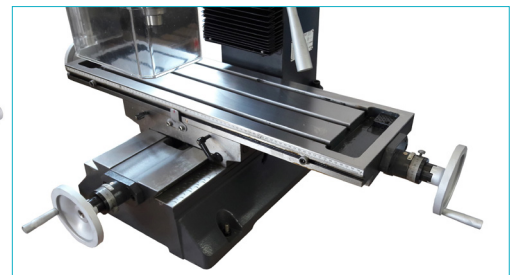
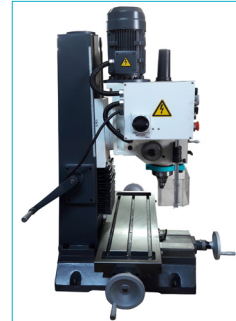
- Threading mode
- Height-adjustable protective screen with micro switch
- (Height-adjustable protection guard with (safety) switch)
- CE Standard

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

#### Features:

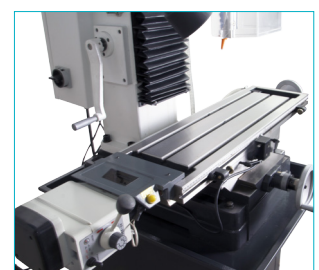
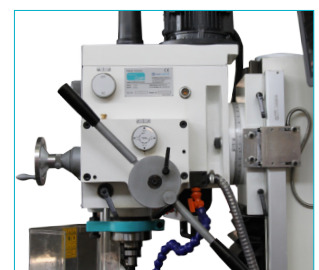
- Automatic milling machine with X-axis power feed motor
- Automatic milling machine with Z-axis power feed motor
- LCD digital 3 axis readout
- Thread tapping mode
- Height-adjustable milling machine guard (chuck cover) with safety switch
- Digital speed reader
- Cooling system
- Machine lamp
- Control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



You can see the video of F4



| 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

### Features:

- 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



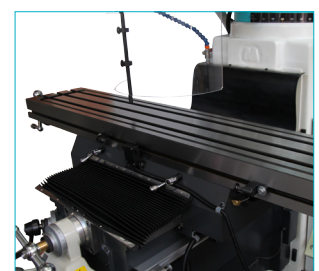
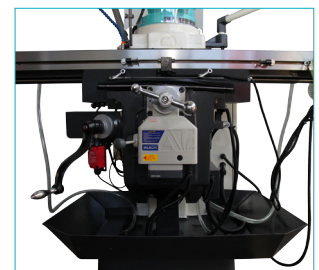
You can see the video of FR4 PRO



**F4V Pro**  
**Vario** (Stepless)  
**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

#### Features:

- 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

#### Features:

- 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;<br>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

### Features:

- 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



You can see the video of FR3



| 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          | sağ/sol: ±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

### Features:

- 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**

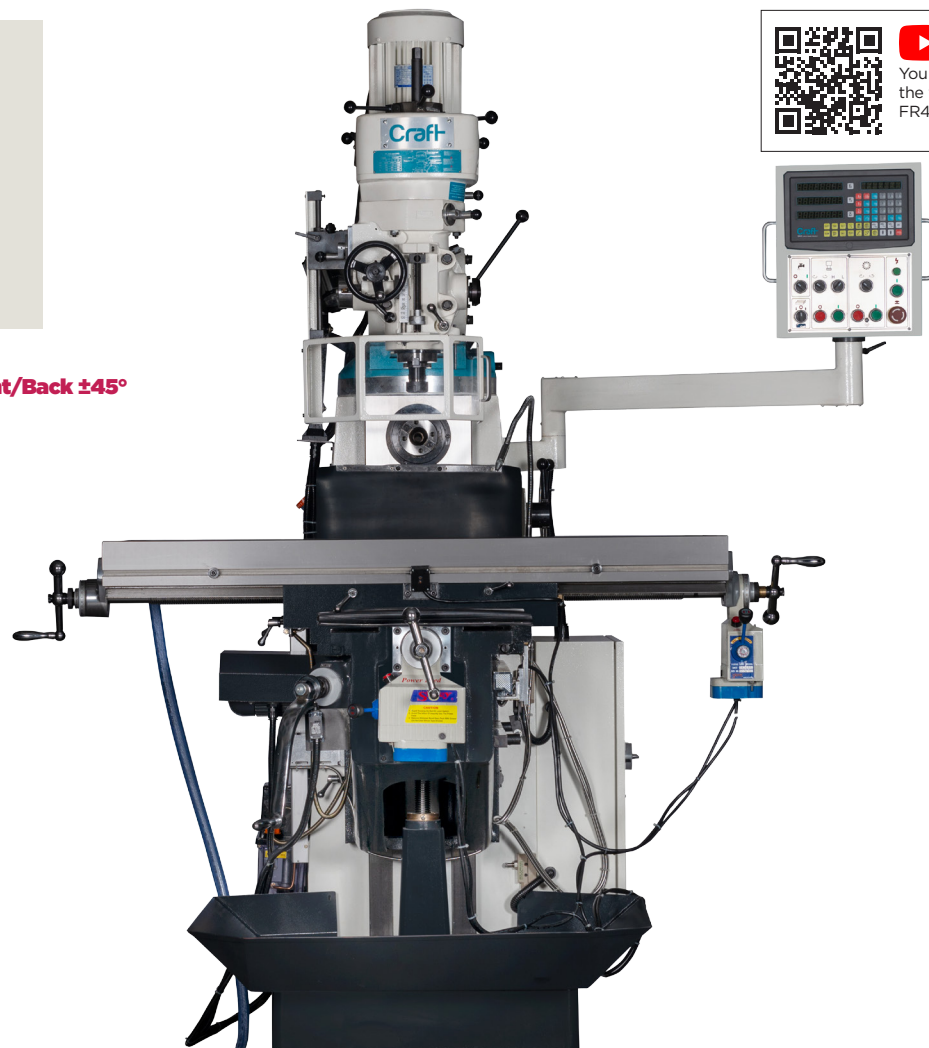
**X/Y/Z Travel: 880/420/435 mm**

### Standard Accessories

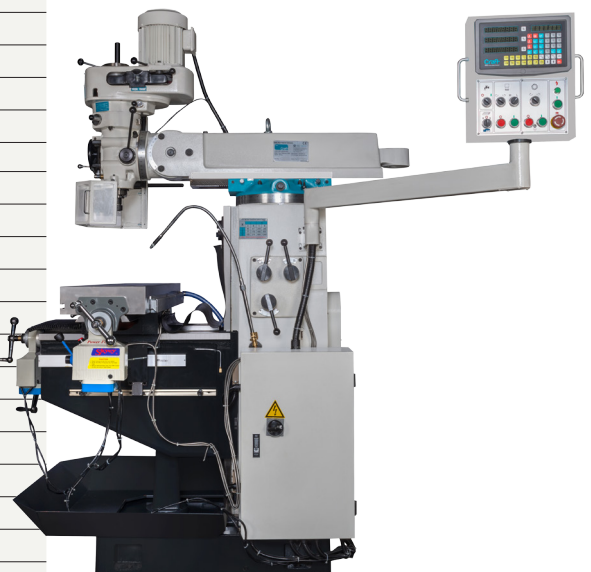
- Mold set
- Clamping tools
- Milling (collet) chuck set  
11-part ISO 40
- Operating tools

### 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

### Features:

- 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

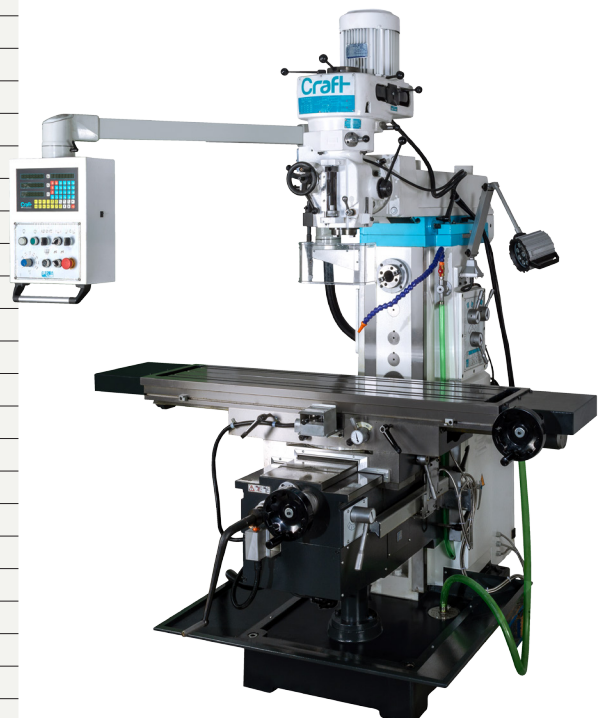
### Optional Accessories:

- 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

### Features:

- 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



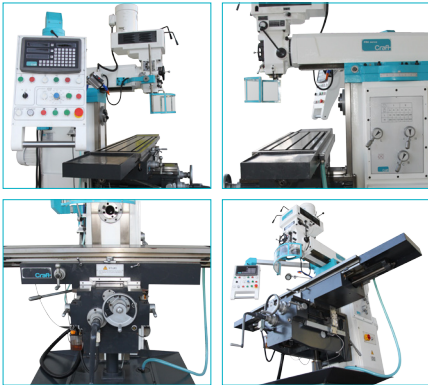
MADE IN TAIWAN

| 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



### Features:

- 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



3 AXIS  
servo  
DRIVE

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



FR7 Pro



FR7V Pro



### 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



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 VERTICAL MILLING MACHINE

## FX150 Pro



### Features:

- Gear box and Rapid Type Power Feed on X-axis
- YASKAWA inverter motor with Ball Screw Drive on Y-axis
- Automatic Rapid Feed Motor on Z-axis
- 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

- Operating tools

### Optional Accessories:

- 210106: ISO40-B16 morse taper
- 210206: 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

MADE IN TAIWAN

| MODEL                  | FX150 Pro  |
|------------------------|--|
| Main Motor Power       | 5 Hp (3,75 kW) , 400 V                           |
| Cooling Pump Power     | 1/8 Hp (100 W)                                   |
| Table Size             | 1470x300 mm                                      |
| Table Capacity         | 400 Kg   |
| X Axis Travel          | 1130 mm  |
| Y axis Travel          | 400 mm   |
| Z Axis Travel          | 450 mm   |
| T-Slots                | 3x16mm   |
| Spindle Taper          | Vertical:ISO40, Horizontal:ISO50                 |
| Spindle Speed          | 65-1500 rpm                                      |
| Number of Steps        | Vertical: 9, Horizontal:9                        |
| Head Tilt Angle        | Vertical 0-390 mm, Horizontal:0-450 mm           |
| Spindle-Table Distance | ± 45°  |
| Table Feed             | X: 22-384 mm/min, Y:50-2200 mm/min, Z:430 mm/min |
| Table Feed Motor       | X: 3/4 Hp, Y,Z: 1/2 Hp                           |
| Dimensions (L x W x H) | 2150x1750x1975 mm                                |
| Net Weight             | 2500 Kg  |

# UNIVERSAL MILLING MACHINE

## FX200 servo

3 AXIS  
servo  
DRIVE



### Features:

- 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

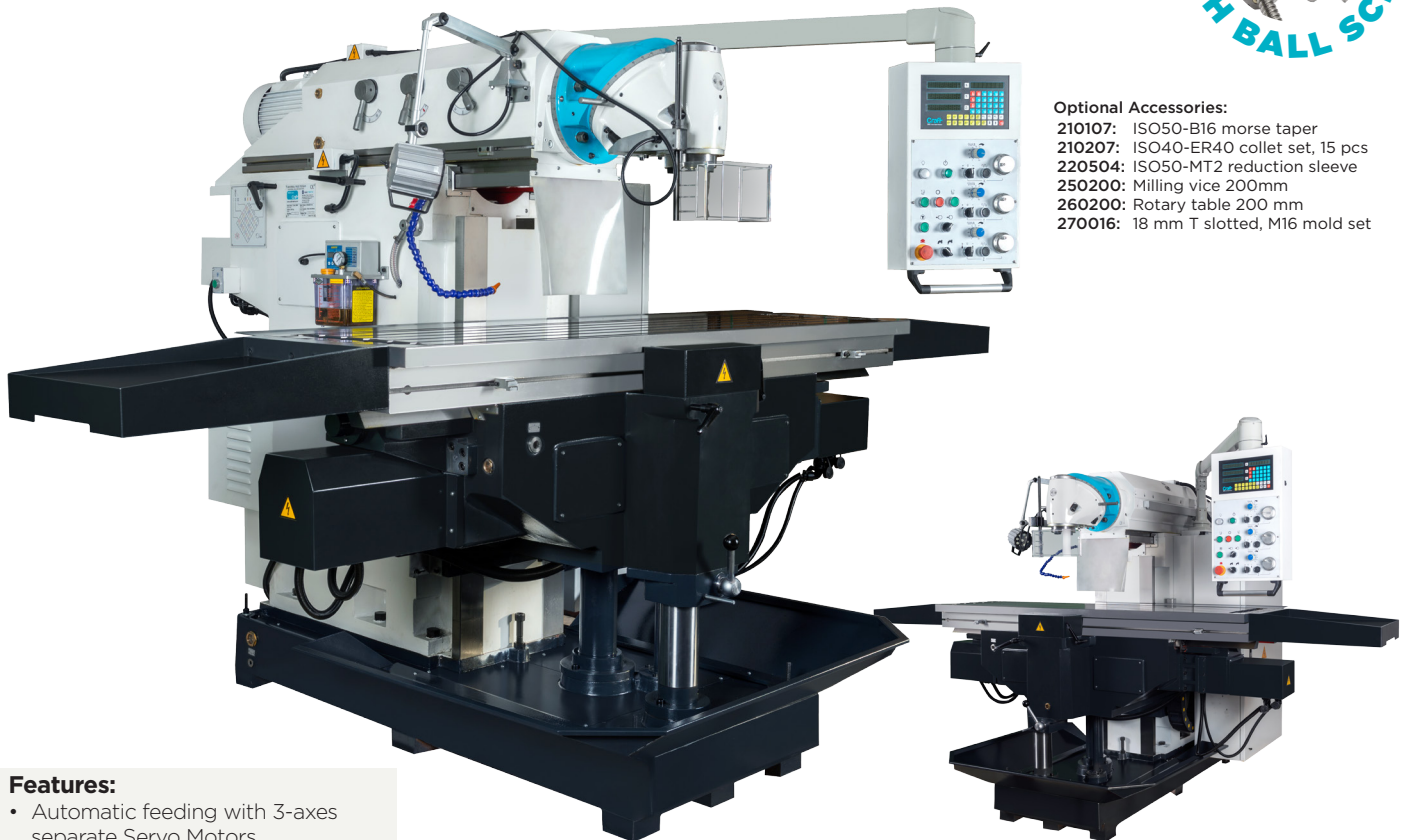
| MODEL                   | FX200 SERVO  |
|-------------------------|--|
| Main Motor Power        | Vertical: 4 kW, Horizontal:5.5 kW 400 V            |
| Cooling Pump Power      | 90 W   |
| Table Size              | 1600X360 mm  |
| Table Capacity          | 400 Kg   |
| X Axis Travel           | 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**

**3 AXIS**  
**WITH BALL SCREWS**



**Optional Accessories:**

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

**Features:**

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

**Standard Accessories**

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

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



# BORING AND MILLING MACHINE

## FW85 | 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 | 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)
- 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 reciprocating 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 Quantiity                              | 14 mm                                     | 18 mm             |            | 22                 |
| Head rotation angle  | ±60 °                                     |                   |            |                    |
| Table rotation angle   | ±90°(without clamp), ±55°(with clamp)eli) |                   |            |                    |
| Table Dimensions   | 350x300 mm                                | 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 (stepless) Speed Adjustment

### Standard Accessories

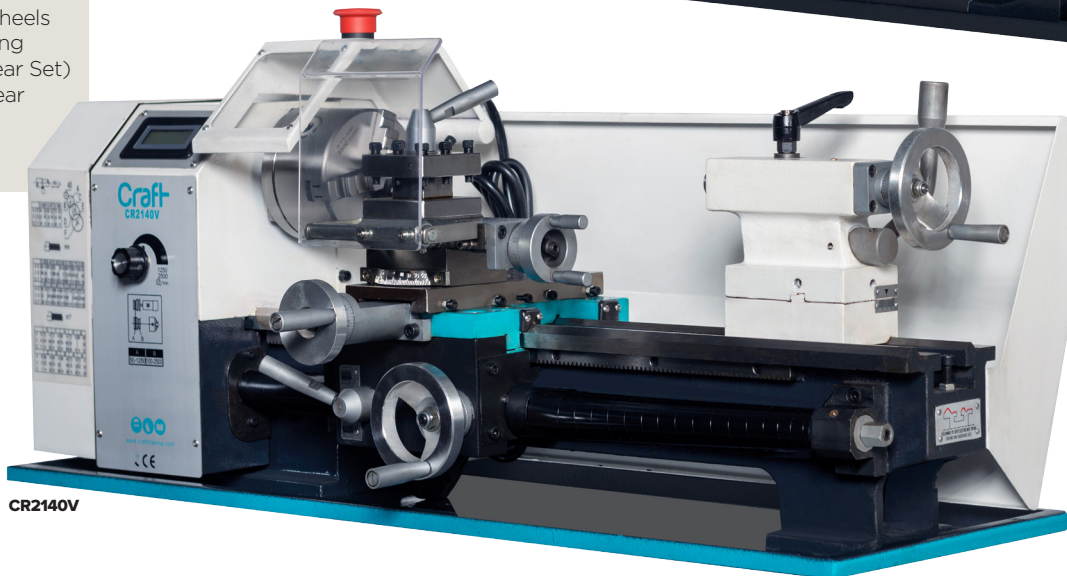
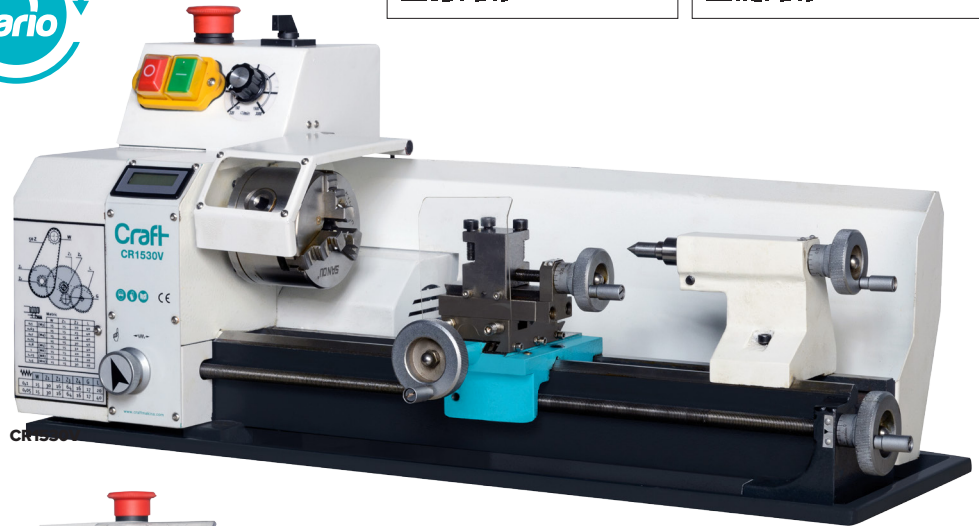
- 3 jaw lathe chuck – Ø80 mm (CR1530V)
- 3 jaw lathe chuck – Ø100 mm (CR2140V)
- Fixed Center
- Travelling Center
- Change Gear Wheels for Thread Cutting (Replaceable Gear Set)
- Splashguard (Rear Safety Guard)
- Chip tray
- Operating Tools



You can see the video of CR1530V



You can see the video of CR2140V



| 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)       | MK1             | 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

## CR2555 | 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

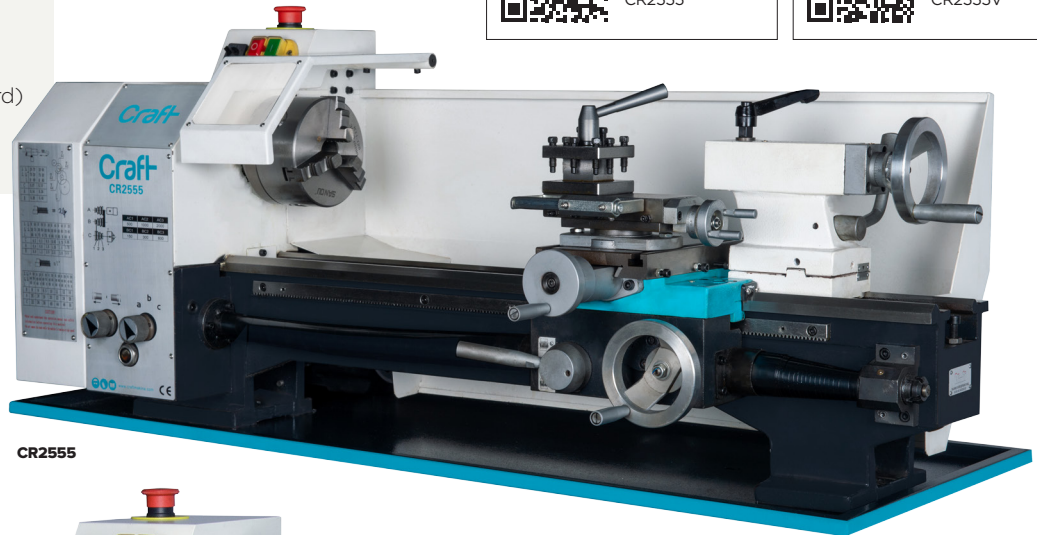
- 3 jaw lathe chuck  
Ø125 mm
- Fixed Center
- Travelling Center
- Change Gear Wheels  
for Thread Cutting  
(Replaceable Gear Set)
- Splashguard (Rear  
Safety Guard)
- Chip tray
- Operating Tools



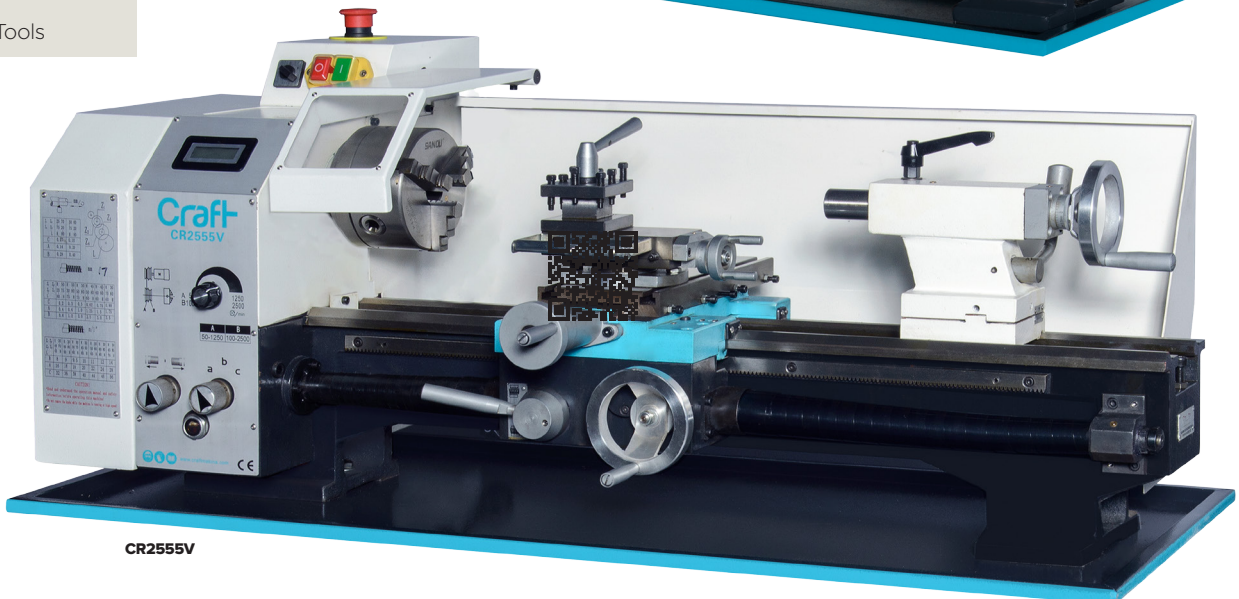
You can see  
the video of  
CR2555



You can see  
the video of  
CR2555V



CR2555



CR2555V



| MODEL                           | CR2555          | CR2555V         |
|---------------------------------|-----------------|-----------------|
| Main Motor Power                | 750 W, 230 V    | 1.1 kW, 230 V   |
| Swing Diameter over Machine Bed |                 | 250 mm          |
| Bed Width                       |                 | 135 mm          |
| Center Width                    |                 | 550 mm          |
| Spindle Speed                   | 125-2000 rpm    | 50-2500 rpm     |
| Number of Steps                 | 6               | 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

### Optional Accessories:



395055: Lathe stand

# BENCH LATHE MACHINE

## CR2870 | CR2870V

### 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

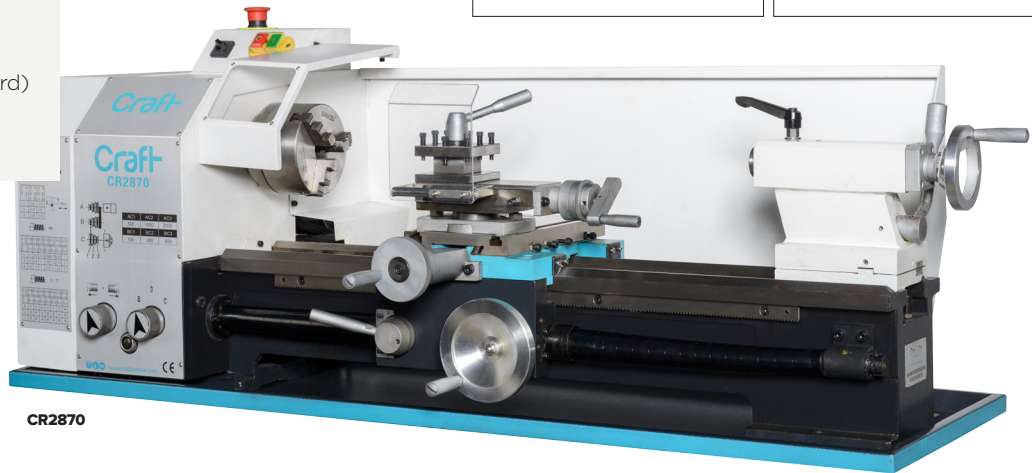
- 3 jaw lathe chuck  
Ø125 mm
- Fixed Center
- Travelling Center
- Change Gear Wheels for Thread Cutting (Replaceable Gear Set)
- Splashguard (Rear Safety Guard)
- Chip tray
- Operating Tools



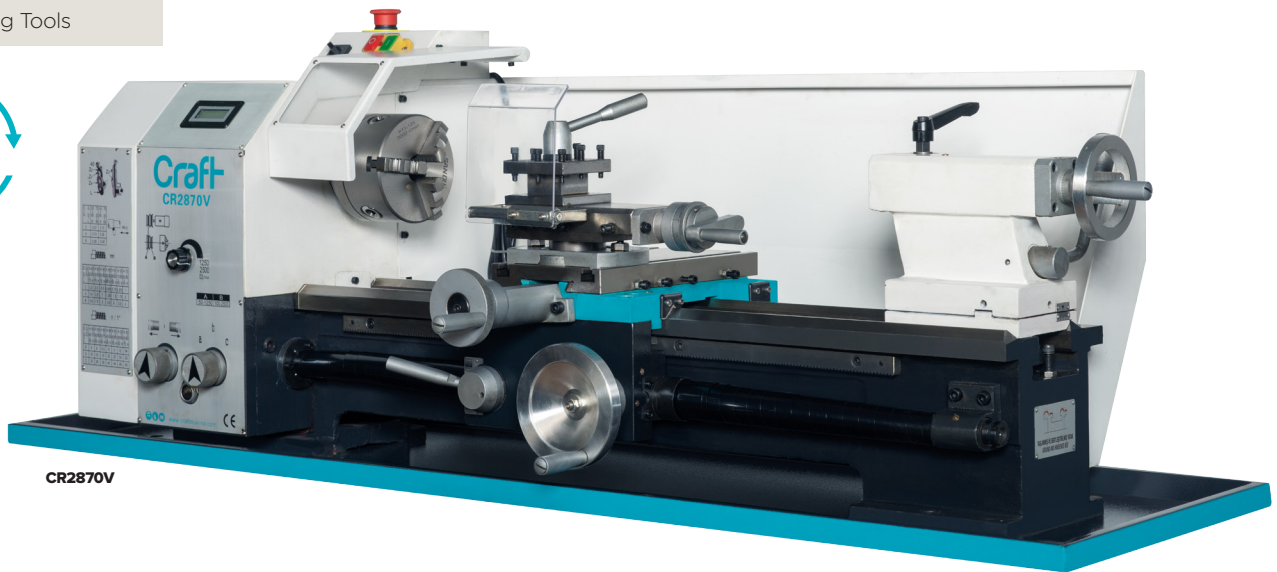
You can see the video of CR2870



You can see the video of CR2870V



CR2870



CR2870V

| MODEL                           | CR2870          | CR2870V       |
|---------------------------------|-----------------|---------------|
| Main Motor Power                | 850 W, 230 V    | 1.5 kW, 230 V |
| Swing Diameter over Machine Bed | 280 mm          |               |
| Bed Width                       | 180 mm          |               |
| Center Width                    | 700 mm          |               |
| Spindle Speed                   | 150-2000 rpm    | 50-2500 rpm   |
| Number of Steps                 | 6               | Variable      |
| Spindle Taper                   | MK4             |               |
| 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          |               |

### Optional Accessories:

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

### Optional Accessories:



395070: Lathe stand

# BENCH LATHE MACHINE

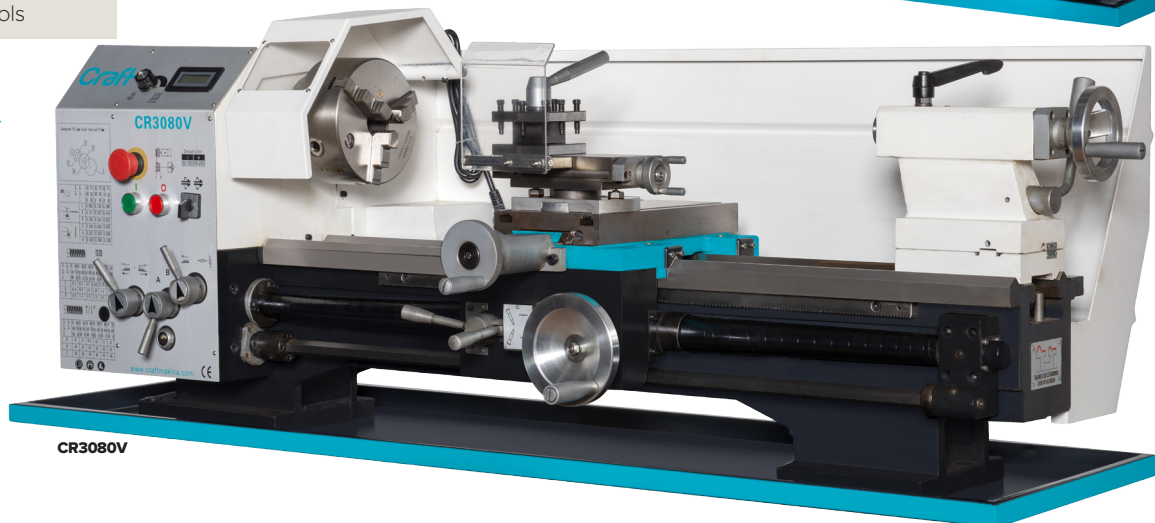
## CR3080 | CR3080V

### Features:

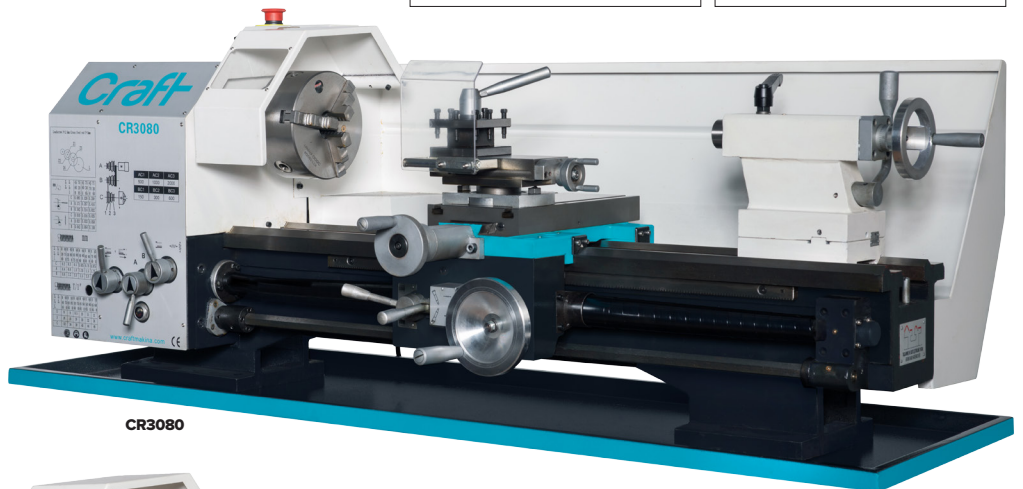
- Hardened and polished guideways
- Powerful and precision spindle
- Right / Left Rotation
- Automatic Carriage
- Threading Mode
- Splashguard (Rear Safety Guard)
- Emergency Stop Button
- Chip tray
- CE Standard

### Standard Accessories

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



CR3080V



CR3080



You can see  
the video of  
CR3080



You can see  
the video of  
CR3080V

| MODEL                                      | CR3080            | CR3080V       |
|--|-------------------|---------------|
| Main Motor Power                           | 1.5kW, 230 V      | 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                              | 150-2000 rpm      | 80-2000 rpm   |
| Number of Steps                            | 6                 | 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:

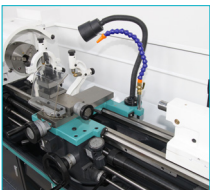
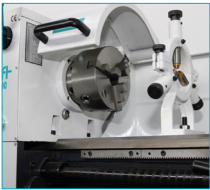
- 395080 Stand
- 310102: MT2 Live center
- 320103: 20X100mm Quick change tool holder set



395080: Lathe stand

# CONVENTIONAL LATHE MACHINE

CR3290 | CR3290 DK



CR3290

## Features:

- 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 Bridge                 | 430 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             |

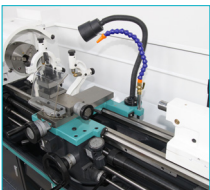
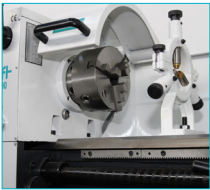
## Optional Accessories:

- 310103:** MT3 Live center
- 320103:** 20X100mm Quick change tool holder set



# CONVENTIONAL LATHE MACHINE

## CR3610 | CR3610 DK



CR3610



### 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 Bridge                 | 502 mm             |
| Swing Diameter over Cross Slide (Carriage) | 223 mm             |
| Bed Width                                  | 187 mm             |
| Distance between Centers (Center Width)    | 1000 mm            |
| Spindle Speed                              | 70-2000 rpm        |
| Number of Steps                            | 8                  |
| Spindle Taper                              | MT6                |
| Spindle Holder                             | D2-5               |
| Spindle Bore                               | 52 mm              |
| Compound Rest Travel                       | 130 mm             |
| Cross Slide Travel                         | 160 mm             |
| Tailstock Spindle (Taper)                  | MT3                |
| Tailstock Sleeve Stroke                    | 120 mm             |
| Longitudinal Feed                          | 0,052-1,392 mm/rev |
| Cross Feed                                 | 0,014-0,380 mm/rev |
| Pitch - metric                             | 0,4-7mm            |
| Pitch - inches                             | 4-56 mm            |
| Tool Holder                                | 16x16 mm           |
| Dimensions (L x W x H)                     | 1930x725x1350 mm   |
| Weight                                     | 610 Kg             |

### Optional Accessories:

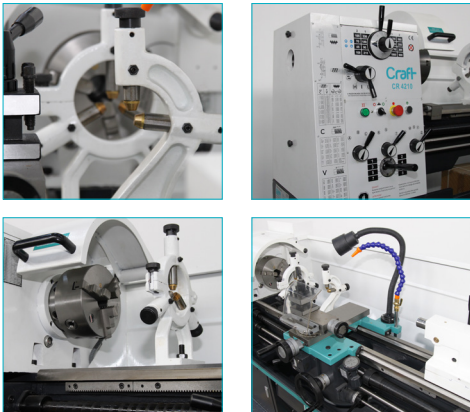
- 310103:** MT3 Live center
- 320103:** 20X100mm Quick change tool holder set

# CONVENTIONAL LATHE MACHINE

CR4210 | CR4210 DK



CR4210



#### 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           |

#### 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

# CONVENTIONAL LATHE MACHINE

## CB5010 | CB5015 | CB5020

### Features:

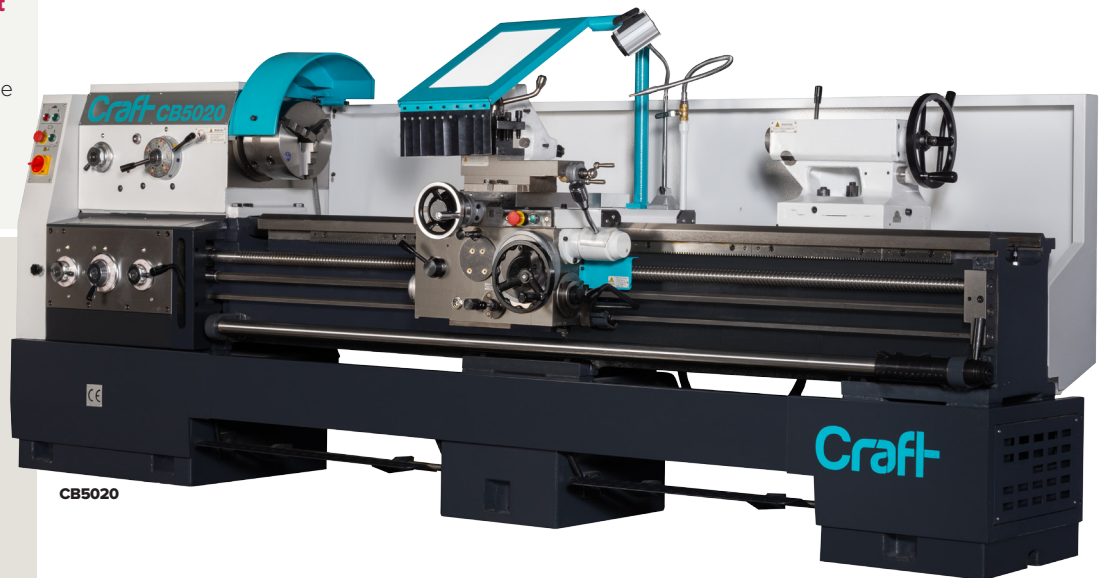
- Hardened and grinded z-axis guideway
- Mechanical clutch system
- Chuck guard with safety switch
- **Heavy-duty and rigid cast iron machine bed**
- Equipped with joystick featuring practical easy use
- Machine lamp
- Lathe Foot Brake
- Coolant System
- CE Standard

### Standard Accessories

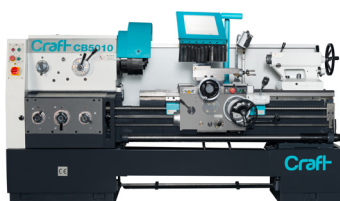
- 3 jaw lathe chuck Ø315 mm
- 4 jaw lathe chuck Ø400 mm
- Face plate Ø480 mm
- Steady Rest
- Follow Rest
- MT5 live center
- MT6 dead center
- Thread Gauge
- Quadruple tool holder
- Machine lamp
- Protective Chuck and Tool Holder Shields
- Coolant System
- Operating Tools

### Optional Accessories:

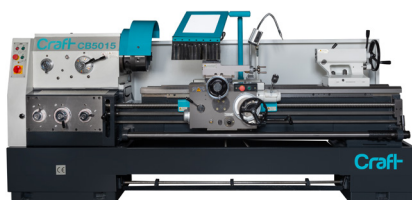
- 310105:** MT5 Live center
- 320105:** 32X150mm Quick change tool holder set



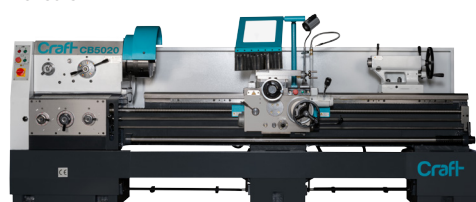
CB5020



CB5010



CB5015



CB5020

| 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              |                  |
| Distance between Centers                   | 1000 mm          | 1500 mm             | 2000 mm          |
| Spindle Speed                              |                  | 9-1600 rpm          |                  |
| Number of Steps                            |                  | 16                  |                  |
| Spindle Taper                              |                  | MT6                 |                  |
| Spindle Holder                             |                  | D1-8                |                  |
| Spindle Bore                               |                  | 82 mm               |                  |
| Compound Rest Travel                       |                  | 320 mm              |                  |
| Cross Slide Travel                         |                  | 145 mm              |                  |
| Tailstock Spindle (Taper)                  |                  | MT5                 |                  |
| 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                             |                  | 0,5-224 (48 pcs)    |                  |
| Pitch - inches                             |                  | 72/1-8 TPI (46 pcs) |                  |
| Modular Thread Range                       |                  | 0,5-112 (42 pcs)    |                  |
| Diametral Pitch Range                      |                  | 56-1/4 DP (45 pcs)  |                  |
| Tool Holder                                |                  | 25X25mm             |                  |
| Dimensions (L x W x H)                     | 2635x975x1250 mm | 3150x975x1250 mm    | 3640x975x1250 mm |
| Weight                                     | 2050 Kg          | 2150 Kg             | 2300 Kg          |

# CONVENTIONAL LATHE MACHINE

**CB6620 | CB6630**

## Features:

- Mechanical clutch system
- Chuck guard with safety switch
- **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

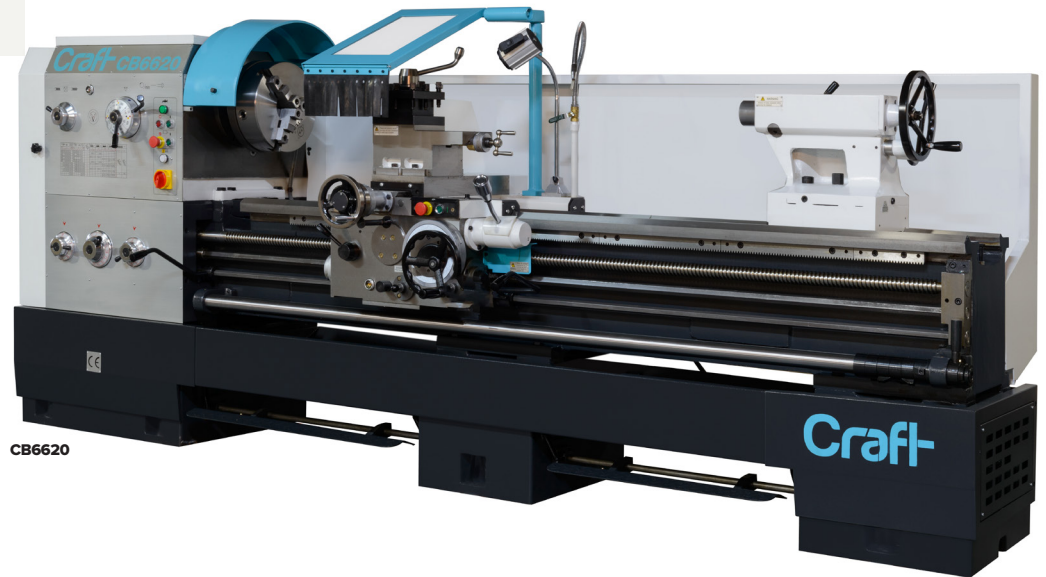
- 3 jaw lathe chuck Ø315 mm
- 4 jaw lathe chuck Ø315 mm
- Face plate - Ø480 mm
- Steady Rest
- Follow Rest
- Live center
- Dead center
- Thread Gauge
- Quadruple tool holder
- Machine lamp
- Protective Chuck and Tool Holder Shields
- Coolant System
- Operating Tools

## Optional Accessories:

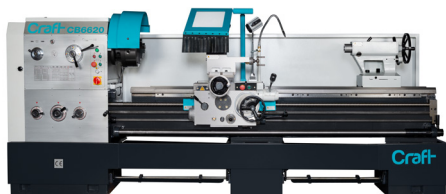
- 310105: MT5 Live center
- 320105: 32X150mm Quick change tool holder set



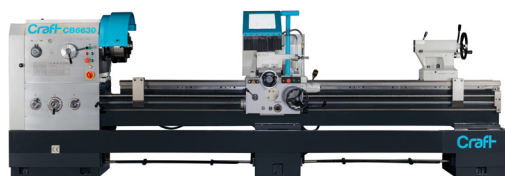
You can see the video of CB6620



CB6620



CB6620

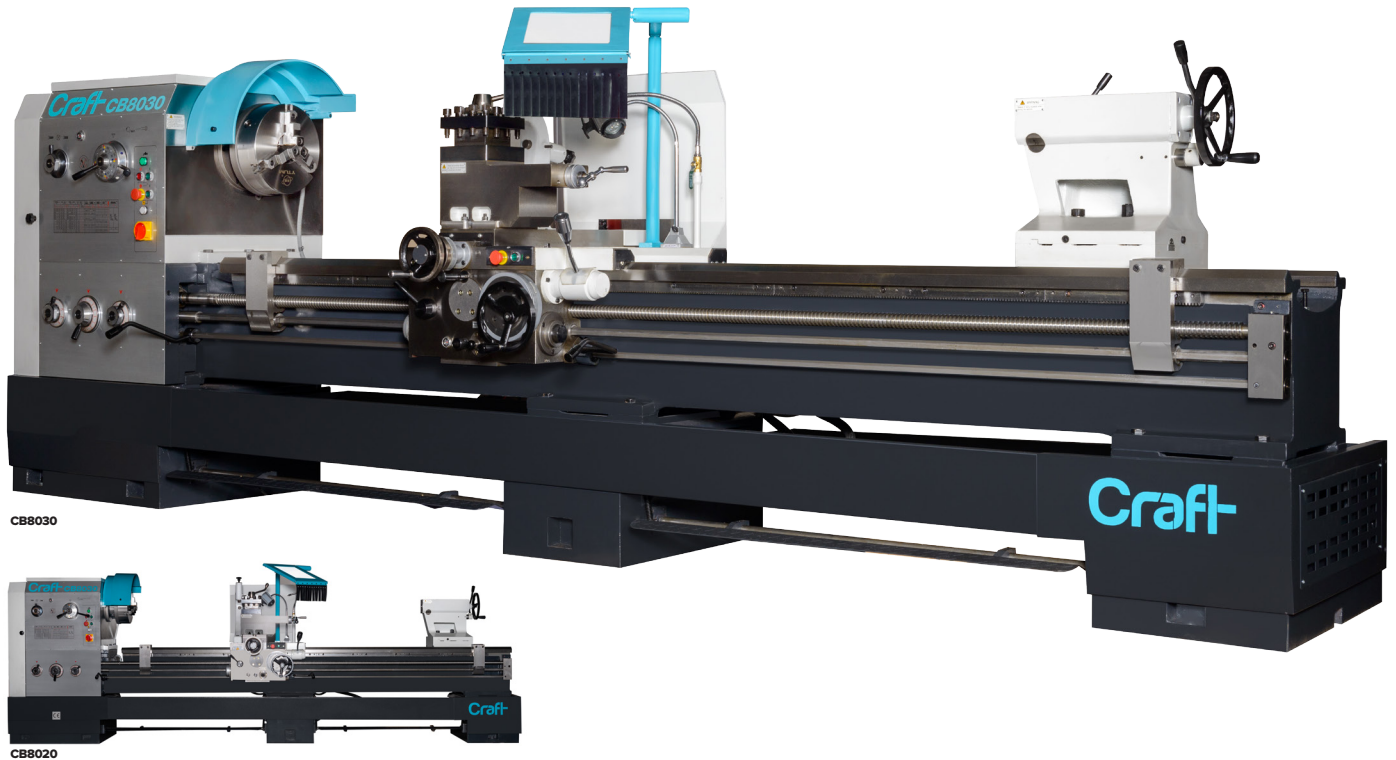


CB6630

| MODEL                                      | CB6620            | CB6630         |
|--|-------------------|----------------|
| Main Motor Power                           | 7.5 kW, 400 V     |                |
| Swing Diameter over Machine Bed            | 660 mm            |                |
| Swing Diameter over Bridge                 | 870 mm            |                |
| Swing Diameter over Cross Slide (Carriage) | 420 mm            |                |
| Bed Width                                  | 390 mm            |                |
| Distance between Centers                   | 2000 mm           | 3000 mm        |
| Spindle Speed                              | 36-1600 rpm       |                |
| Number of Steps                            | 12                |                |
| Spindle Taper                              | MT7               |                |
| Spindle Holder                             | D1-8              |                |
| Spindle Bore                               | 105 mm            |                |
| Compound Rest Travel                       | 310 mm            |                |
| Cross Slide Travel                         | 145 mm            |                |
| Tailstock Spindle (Taper)                  | MT5               |                |
| Tailstock Spindle Diameter                 | 75 mm             |                |
| Tailstock Sleeve Stroke                    | 150 mm            |                |
| Longitudinal Feed                          | 0,027-1.07 mm/rev |                |
| Cross Feed                                 | 0,063-2.52 mm/rev |                |
| Pitch - metric                             | 1-14mm (25 pcs)   |                |
| Pitch - inches                             | 28-2 TPI (25 pcs) |                |
| Modular Thread Range                       | 0,5-7 (18 pcs)    |                |
| Diametric Pitch Range                      | 56-4 DP (24 pcs)  |                |
| Tool Holder                                | 25X25mm           |                |
| Dimensions (L x W x H)                     | 3600x1225x1300    | 4600x1225x1450 |
| Weight                                     | 2600 Kg           | 3000 Kg        |

# CONVENTIONAL LATHE MACHINE

## CB8020 | CB8030



CB8030

CB8020

**Optional Accessories:**

310105: MT5 Live center

320105: 32X150mm Quick change tool holder set

**Features:**

- Mechanical clutch system
- Chuck guard with safety switch
- **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 Ø315 mm
- 4 jaw lathe chuck Ø315 mm
- Face plate - Ø480 mm
- Steady Rest
- Follow Rest
- Live center
- Dead center
- Thread Gauge
- Quadruple tool holder
- Machine lamp
- Protective Chuck and Tool Holder Shields
- Coolant System
- Operating Tools

| MODEL                                      | CB8020            | CB8030         |
|--|-------------------|----------------|
| Main Motor Power                           | 7.5 kW, 400 V     |                |
| Swing Diameter over Machine Bed            | 800 mm            |                |
| Swing Diameter over Bridge                 | 1000 mm           |                |
| Swing Diameter over Cross Slide (Carriage) | 560 mm            |                |
| Bed Width                                  | 510 mm            |                |
| Distance between Centers                   | 2000 mm           | 3000 mm        |
| Spindle Speed                              | 30-1400 rpm       |                |
| Number of Steps                            | 12                |                |
| Spindle Taper                              | MT7               |                |
| Spindle Holder                             | D1-8              |                |
| Spindle Bore                               | 105 mm            |                |
| Compound Rest Travel                       | 320 mm            |                |
| Cross Slide Travel                         | 145 mm            |                |
| Tailstock Spindle (Taper)                  | MT5               |                |
| Tailstock Spindle Diameter                 | 75 mm             |                |
| Tailstock Sleeve Stroke                    | 150 mm            |                |
| Longitudinal Feed                          | 0,027-1,07 mm/rev |                |
| Cross Feed                                 | 0,063-2,52 mm/rev |                |
| Pitch - metric                             | 1-14mm (22 pcs)   |                |
| Pitch - inches                             | 20-2 TPI (20 pcs) |                |
| Modular Thread Range                       | 0,5-7 (18 pcs)    |                |
| Diametric Pitch Range                      | 56-4 DP (24 pcs)  |                |
| Tool Holder                                | 25X25mm           |                |
| Dimensions (L x W x H)                     | 3370x1350x1500    | 4370x1350x1500 |
| Weight                                     | 3300 Kg           | 3750 Kg        |

# HEAVY-DUTY LATHE MACHINE

**CA8030S | CA8040S | CA8050S | CA8060S**

SWING Ø OVER BED: 800MM

**CA9430S | CA9440S | CA9450S | CA9460S**

SWING Ø OVER BED: 940 MM



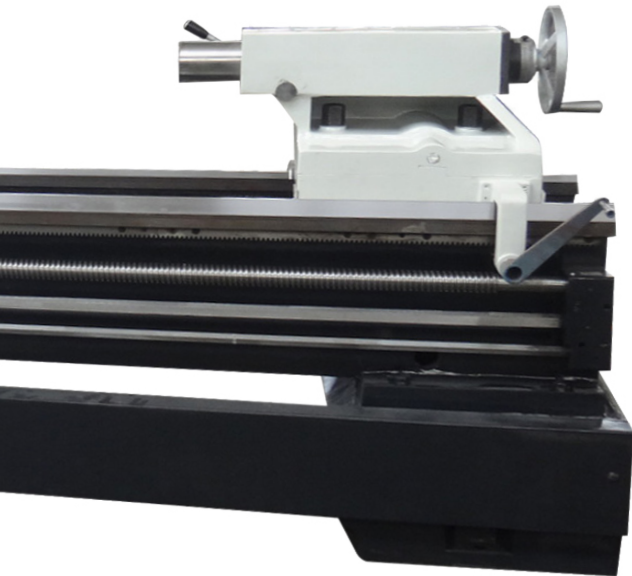
| MODEL                                      | CA8030S                     | CA8040S            | CA8050S            | CA8060S            | CA9430S                     | CA9440S            | CA9450S            | CA9460S            |
|--|-----------------------------|--------------------|--------------------|--------------------|-----------------------------|--------------------|--------------------|--------------------|
| Main Motor Power                           | 11 kW, 400 V                |                    |                    |                    | 11 kW, 400 V                |                    |                    |                    |
| Swing Diameter over Machine Bed            | 800 mm                      |                    |                    |                    | 940mm                       |                    |                    |                    |
| Swing Diameter over Bridge                 | 1000 mm                     |                    |                    |                    | 1140 mm                     |                    |                    |                    |
| Swing Diameter over Cross Slide (Carriage) | 520 mm                      |                    |                    |                    | 660 mm                      |                    |                    |                    |
| Bed Width                                  | 550 mm                      |                    |                    |                    | 550 mm                      |                    |                    |                    |
| Distance between Centers                   | 3000 mm                     | 4000 mm            | 5000 mm            | 6000 mm            | 3000 mm                     | 4000 mm            | 5000 mm            | 6000 mm            |
| Max. Capacity                              | 1500 Kg                     |                    |                    |                    | 1500 Kg                     |                    |                    |                    |
| Spindle Speed                              | 6-800 rpm                   |                    |                    |                    | 6-800 rev                   |                    |                    |                    |
| Number of Steps                            | 18                          |                    |                    |                    | 18                          |                    |                    |                    |
| Spindle Taper                              | MT6                         |                    |                    |                    | MT6                         |                    |                    |                    |
| Spindle Holder                             | C11                         |                    |                    |                    | C11                         |                    |                    |                    |
| Spindle Bore                               | 100 mm / in L models 130 mm |                    |                    |                    | 100 mm / in L models 140 mm |                    |                    |                    |
| Compound Rest Travel                       | 440 mm                      |                    |                    |                    | 440 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<br>1470x1620          | 6230x<br>1470x1620 | 7230x<br>1470x1620 | 8230x<br>1470x1620 | 5130<br>x1460x1830          | 6040<br>x1550x1830 | 7120<br>x1550x1830 | 8240<br>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



**130 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
- 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                       | <b>600 mm</b>                              |                    |                    |                    | <b>600 mm</b>                              |                    |                    |                    |
| 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)                 |                    |                    |                    | 21 (forward) / 12 (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                                     |                    |                    |                    | 440 mm                                     |                    |                    |                    |
| Cross Slide Travel              | 200 mm                                     |                    |                    |                    | 200 mm                                     |                    |                    |                    |
| Tailstock Spindle (Taper)       | MT6  |                    |                    |                    | 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<br>1730x1470                         | 6230x<br>1730x1470 | 7230x<br>1730x1470 | 8230x<br>1730x1470 | 5230x<br>1730x1570                         | 6230x<br>1730x1570 | 7230x<br>1730x1570 | 8230x<br>1730x1570 |
| Weight                          | 5650 Kg                                    | 6950 Kg            | 7800 Kg            | 8500 Kg            | 5900 Kg                                    | 7250 Kg            | 7700 Kg            | 8600 Kg            |

# HEAVY-DUTY LATHE MACHINE

**CA12530HL | CA12540HL | CA12550HL | CA12560HL**

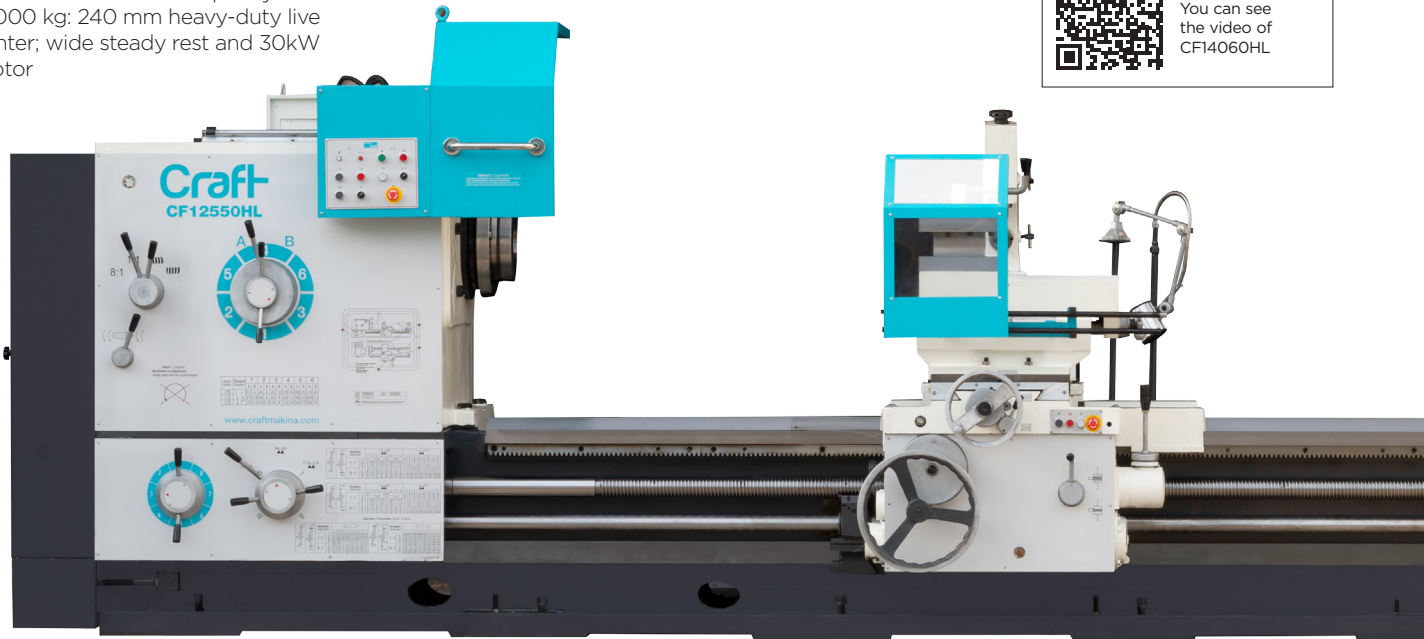
SWING Ø OVER BED: 1250MM

**CA14030HL | CA14040HL | CA14050HL | CA14060HL**

SWING Ø OVER BED: 1400 MM

## Optional Accessories:

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



| MODEL                                      | CA12530HL                                      | CA12540HL          | CA12550HL          | CA12560HL          |
|--|--|--------------------|--------------------|--------------------|
| Main Motor Power                           | 22 kW, 400 V                                   |                    |                    |                    |
| Swing Diameter over Machine Bed            | 1250 mm  |                    |                    |                    |
| Swing Diameter over Cross Slide (Carriage) | 870 mm   |                    |                    |                    |
| Bed Width                                  | 780 mm   |                    |                    |                    |
| Distance between Centers                   | 3000 mm  | 4000 mm            | 5000 mm            | 6000 mm            |
| Max Load Capacity                          | 8000 Kg  |                    |                    |                    |
| Spindle Speed                              | 3,15-315 rpm (forward) / 4,5-390 rpm (reverse) |                    |                    |                    |
| Number of Steps                            | 21 (forward) / 12 (reverse)                    |                    |                    |                    |
| Spindle Taper                              | A2-15  |                    |                    |                    |
| Spindle Bore                               | 130 mm   |                    |                    |                    |
| Compound Rest Travel                       | 670 mm   |                    |                    |                    |
| Cross Slide Travel                         | 300 mm   |                    |                    |                    |
| Tailstock Spindle (Taper)                  | M80  |                    |                    |                    |
| Tailstock Spindle Diameter                 | 160 mm   |                    |                    |                    |
| Tailstock Sleeve Stroke                    | 300 mm   |                    |                    |                    |
| Longitudinal Feed                          | 0,1-12 (56 pitches)                            |                    |                    |                    |
| Cross Feed                                 | 0,05-6 (56 pitches)                            |                    |                    |                    |
| Pitch - metric                             | 1-120 (44 pitches)                             |                    |                    |                    |
| Pitch - inches                             | 0,25-28 (31 pitches)                           |                    |                    |                    |
| Modular Thread Range                       | 0,5-60 (45 pitches)                            |                    |                    |                    |
| Diametral Pitch Range                      | 0,5-56 (38 pitches)                            |                    |                    |                    |
| Tool Holder                                | 45x45 mm                                       |                    |                    |                    |
| Dimensions (L x W x H)                     | 5950x<br>1895x1955                             | 6950x<br>1895x1955 | 7950x<br>1895x1955 | 8950x<br>1895x1955 |
| 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                                       |                    |                    |                    |
| 5950x<br>2045x2010                             | 6950x<br>2045x2010 | 7950x<br>2045x2010 | 8950x<br>2045x2010 |
| 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



### 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

- CA125 series: 4 jaw lathe chuck Ø1250 mm
- CA140 series: 4 jaw lathe chuck Ø1400 mm
- CA160 series: 4 jaw lathe chuck Ø1600 mm
- Steady Rest
- Follow Rest
- 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<br>2110x2245                             | 6950x<br>2110x2245 | 7950x<br>2110x2245 | 8950x<br>2110x2245 | 9280x<br>2200x2600          | 11280x<br>2200x2600 | 13280x<br>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

## SG15M | SG25M

- Strong cast body, rigid structure
- Long life NSK P4 type high precision bearing used in grinding spindle
- V-type slides for long life and smooth precision
- Hardened and ground table slides
- Slideways laminated with Teflon
- Centralized automatic lubrication system
- Organized and easily accessible electrical panel
- Adjustable magnetic power
- Safe control panel working with 24V voltage
- CE Standards

### Machine Structure

- Spindle motor: ABB brand
- Spindle bearing: Japanese NSK brand precision ball bearing with P4 grade
- Table Y axis spindle: P5 class precision ball spindle
- Electrical System: SIEMENS

**ABB SIEMENS NSK**



| MODEL  | SG15M             | SG25M             |
|--|-------------------|-------------------|
| Spindle Motor Power                                | 1,1 kW, 400 V     | 1,5 kW, 400 V     |
| Table Dimensions                                   | 150x450 mm        | 200x460 mm        |
| Table Longitudinal Hydraulic Travel                | 480 mm            | 510 mm            |
| Table Transverse Manual Travel                     | 165 mm            | 225 mm            |
| Distance Between Spindle and Table                 | 360 mm            | 520 mm            |
| Table load capacity(max)                           | 100 Kg            | 120 Kg            |
| T Channel Dimensions                               | 1x14 mm           |                   |
| Table Moving Speed                                 | Manuel            |                   |
| Y Axis Handwheel Feed Line                         | 0,01 mm           | 0,02 mm           |
| Y Axis Handwheel One Turn                          | 2,5 mm            | 5 mm              |
| Stone Dimensions, Diameter x Width x Hole Diameter | 180x13x32 mm      | 200x25x32 mm      |
| Spindle Speed                                      | 2850 rpm          |                   |
| Z Axis Handwheel Feed Line                         | 0,005 mm          | 0,01 mm           |
| Z Axis Handwheel One Turn                          | 1,25 mm           | 2 mm              |
| Cooling Engine Power                               | 90 W              |                   |
| Dust Collection Motor Power                        | -                 | 550 W             |
| Verge Dimensions                                   | 1900x1300 mm      | 1900x1900 mm      |
| Packaging Dimensions                               | 1100x1020x1950 mm | 1470x1370x2160 mm |
| Net Weight   | 620 Kg            | 1200 Kg           |
| Gross Weight                                       | 710 Kg            | 1400 Kg           |

### Standard Accessories

- Grinding Wheel
- Wheel Flange
- Wheel balancing arbor
- Overhead parallel dresser
- Magnetic table
- Cooling tank
- Lighting
- Operating Tools

# SURFACE GRINDER

## SG36 | SG36 Plus | 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



SG36



SG36 NC

### 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 Plus

Automatic feed

### 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       | SG36 Plus         | SG36 servo                                       | SG36 NC    |
|---|------------|-------------------|--|------------|
| Spindle Motor Power                           |            | 4 kW, 400 V       |  |            |
| Table Dimensions                              |            | 300x600 mm        |  |            |
| Longitudinal Movement Hydraulic Travel        |            | 660 mm            |  |            |
| Longitudinal Movement Manuel Travel           |            | 340 mm            |  |            |
| Distance from table surface to spindle center |            | 520 mm            |  |            |
| Table Load Capacity (max)                     |            | 420 Kg            |  |            |
| T-slots (numberxwidth)                        |            | 1x14 mm           |  |            |
| Table Speed (mm/min)                          |            | 5-25 m/dak.       |  |            |
| Vertical (Y-axis) Downfeed                    |            | 0,02 mm           |  |            |
| Handfeed per grad                             |            |                   |  |            |
| Vertical (Y-axis) Downfeed                    |            | 5 mm              |  |            |
| Handfeed per rev                              |            |                   |  |            |
| Automatic Y-axis Movement                     |            | 0,5-12 mm         |  |            |
| Y-axis Rapid Speed                            |            | 790 mm/min        |  |            |
| Grinding Wheel Dimensions (diaxwidthxbore)    |            | 355x40x127 mm     |  |            |
| Spindle Speed                                 |            | 1450 rpm          |  |            |
| Cross feed (Z-axis) Movement                  | 0,005 mm   | 0,001 mm          |  | 0,001 mm   |
| Handfeed per grad                             |            |                   |  |            |
| Cross feed (Z-axis) Movement                  | 2 mm       | 0,5 mm            |  | 0,1 mm     |
| Handfeed per rev                              |            |                   |  |            |
| Automatic down feed precision (rate)          | -          | 0,005-0,025 mm    | 0,005-0,05 mm<br>(8 Kademe, elektronikselebilir) | 0,001-1 mm |
| Z-axis feeding speed                          | 380 mm/min | 230 mm/min        |  | 210 mm/min |
| Hydraulic Motor                               |            | 1,5 kW            |  |            |
| Dust Collector Motor                          |            | 550 W             |  |            |
| Coolant Motor Capacity                        |            | 90 W              |  |            |
| Y-axis (Vertical) Motor Capacity              |            | 90 W              |  |            |
| Z-axis (Cross feed) Motor Capacity            | 90 W       |                   | 4NM Servo Motor                                  | 1 kW       |
| Floor Space                                   |            | 2600x2500 mm      |  |            |
| Dimensions (L x W x H)                        |            | 2150x1940x2195 mm |  |            |
| Net Weight                                    | 1810 Kg    |                   | 1910 Kg  |            |
| Gross Weight                                  | 2100 Kg    |                   | 2210 Kg  |            |

# SURFACE GRINDER

## SG48 | SG48 Plus

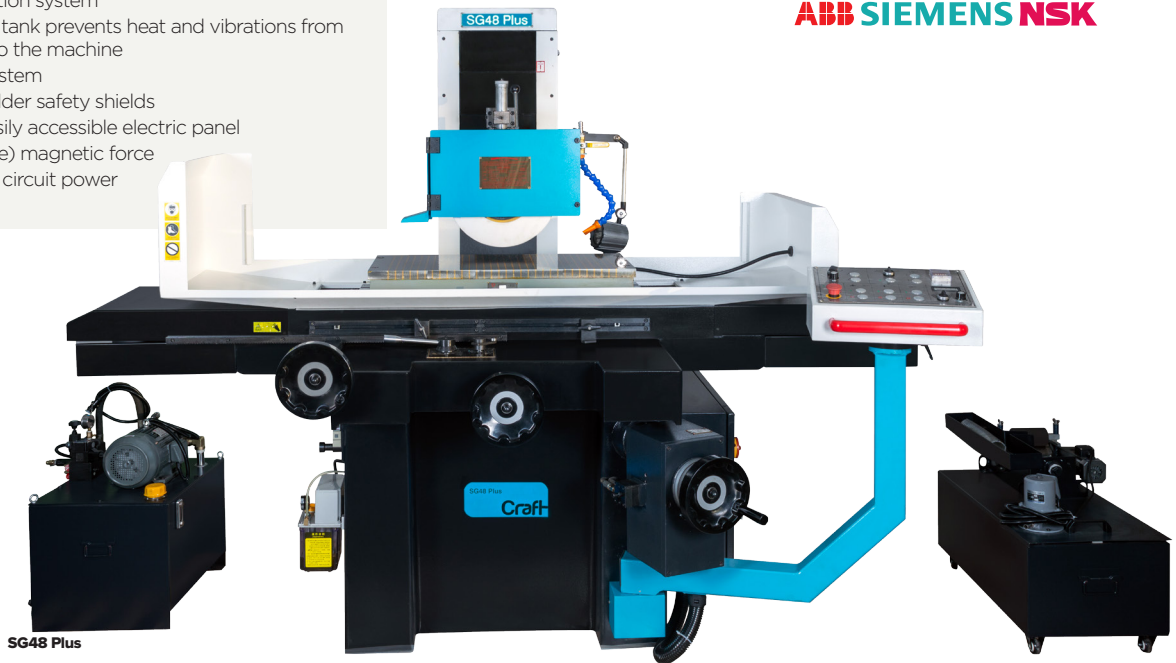
### Features:

- 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**



### SG48 Plus

Automatic feed

### 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

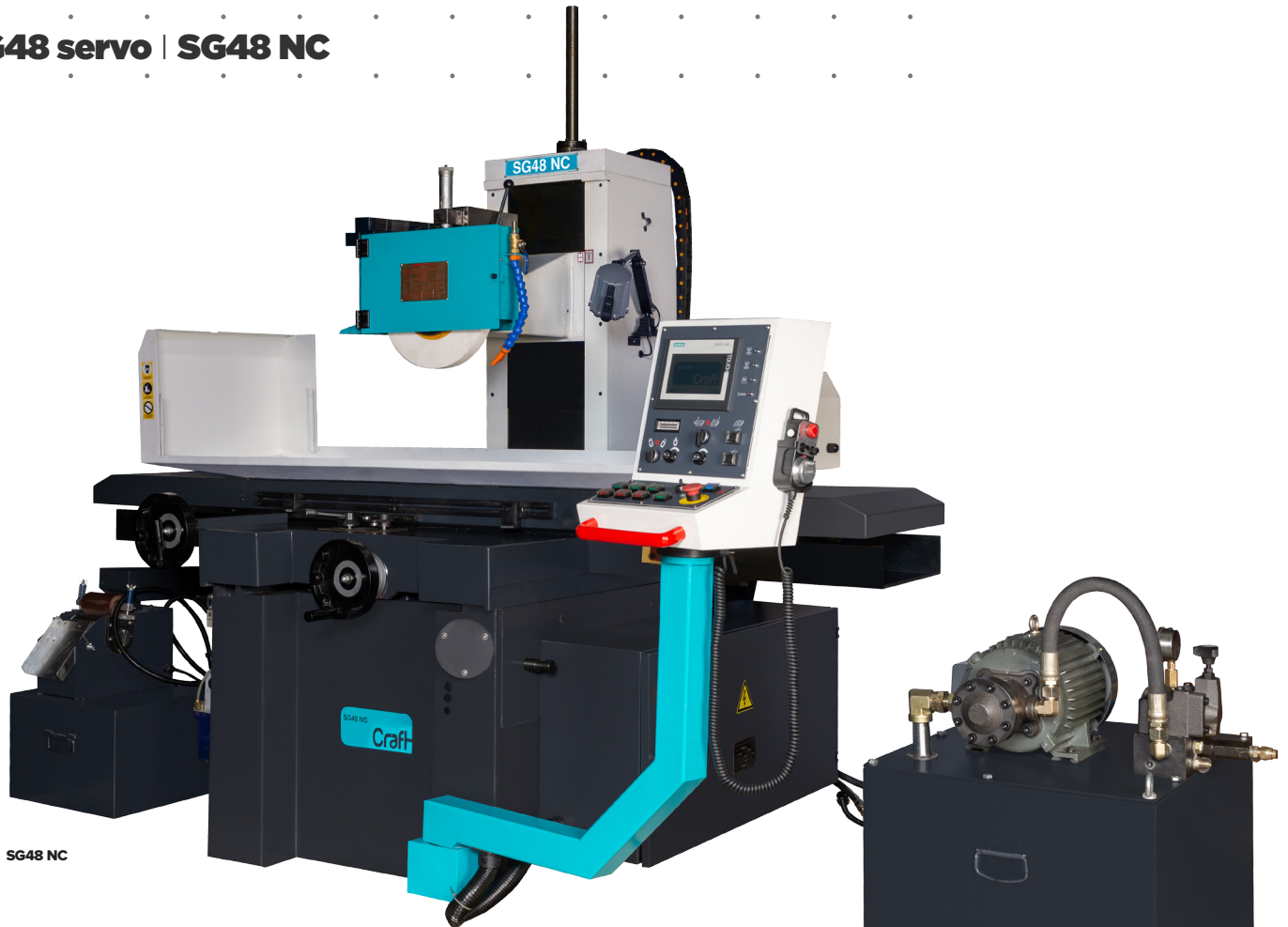
### Standard Accessories

- 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

| MODEL  | SG48              | SG48 Plus      |
|--|-------------------|----------------|
| 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 (numberxbwidth)                        | 3x14 mm           |                |
| Table Speed (mm/min)                           | 5-25 mm/rev       |                |
| Vertical (Y-axis) Downfeed Handfeed per grad   | 0,02 mm           |                |
| Vertical (Y-axis) Downfeed Handfeed per rev    | 5 mm              |                |
| Automatic Y-axis Movement                      | 0,5-12 mm         |                |
| Y-axis Rapid Speed                             | 790 mm/min        |                |
| Grinding Wheel Dimensions (diaxwidthxbore)     | 355x40x127 mm     |                |
| Spindle Speed                                  | 1450 rpm          |                |
| Cross feed (Z-axis) Movement Handfeed per grad | 0,005 mm          | 0,001 mm       |
| Cross feed (Z-axis) Movement Handfeed per rev  | 2 mm              | 0,5 mm         |
| Automatic down feed precision (rate)           | -                 | 0,005-0,025 mm |
| Z-axis feeding speed                           | 380 mm/min        | 230 mm/min     |
| Hydraulic Motor                                | 2,2 kW            |                |
| Dust Collector Motor                           | 550 W             |                |
| Coolant Motor Capacity                         | 90 W              |                |
| Y-axis (Vertical) Motor Capacity               | 90 W              |                |
| Z-axis (Cross feed) Motor Capacity             | 90 W              |                |
| Floor Space                                    | 3600x2600 mm      |                |
| Dimensions (L x W x H)                         | 2790x2225x2195 mm |                |
| Net Weight                                     | 2810 Kg           | 2850 Kg        |
| Gross Weight                                   | 3110 Kg           | 3150 Kg        |

# SURFACE GRINDER

## SG48 servo | SG48 NC



SG48 NC

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

SG48 NC



# 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/dak.       |                   |
| Vertical (Y-axis) Downfeed Handfeed per grad   | 0,02 mm           |                   |
| Vertical (Y-axis) Downfeed Handfeed per rev    | 5 mm              |                   |
| Automatic Y-axis Movement                      | 0,5-12 mm         |                   |
| Y-axis Rapid Speed                             | 1250 mm/min       |                   |
| Grinding Wheel Dimensions (diaxwidthxbore)     | 355x40x127 mm     |                   |
| Spindle Speed                                  | 1450 rpm          |                   |
| Cross feed (Z-axis) Movement Handfeed per grad | 0,002 mm          | 0,001 mm          |
| Cross feed (Z-axis) Movement Handfeed per rev  | 0,5 mm            | 0,1 mm            |
| Automatic down feed precision (rate)           | 0,005-0,04 mm     | 0,001-1 mm        |
| Z-axis feeding speed                           | 230 mm/min        | 210 mm/min        |
| Hydraulic Motor                                | 2,2 kW            |                   |
| Dust Collector Motor                           | 550 W             |                   |
| Coolant Motor Capacity                         | 90 W              |                   |
| Y-axis (Vertical) Motor Capacity               | 370 W             |                   |
| Z-axis (Cross feed) Motor Capacity             | 370 W             | 1,5 kW            |
| Floor Space                                    | 4445x2200 mm      |                   |
| Dimensions (L x W x H)                         | 3390x2255x2225 mm | 3400x2265x2250 mm |
| Net Weight                                     | 5000 Kg           |                   |
| Gross Weight                                   | 6000 Kg           |                   |

# SURFACE GRINDER

## SG515 Plus | SG515 NC



| MODEL  | SG515 Plus        | 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/dak.       |                   |
| Vertical (Y-axis) Downfeed Handfeed per grad   | 0,02 mm           |                   |
| Vertical (Y-axis) Downfeed Handfeed per rev    | 5 mm              |                   |
| Automatic Y-axis Movement                      | 0,5-12 mm         |                   |
| Y-axis Rapid Speed                             | 1250 mm/min       |                   |
| Grinding Wheel Dimensions (diaxwidthxbore)     | 355x40x127 mm     |                   |
| Spindle Speed                                  | 1450 rpm          |                   |
| Cross feed (Z-axis) Movement Handfeed per grad | 0,002 mm          | 0,001 mm          |
| Cross feed (Z-axis) Movement Handfeed per rev  | 0,5 mm            | 0,1 mm            |
| Automatic down feed precision (rate)           | 0,005-0,04 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                                    | 5810x2445 mm      |                   |
| Dimensions (L x W x H)                         | 3890x2255x2225 mm | 4000x2285x2250 mm |
| Net Weight                                     | 6000 Kg           |                   |
| Gross Weight                                   | 7000 Kg           |                   |

### SG515 Plus

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

# BANDSAW MACHINES

## 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:  
**T70STAND**

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                   |
| 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                               |



## T153DC



Electronic trigger provides easy operation

Inverter speed controller

Emergency Stop-button



### 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

Miter adjustment up to 60° with a built-in pivot (Via rotating bearing block)

### 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                              |

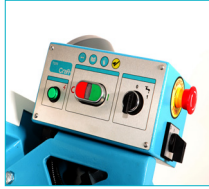
# BANDSAW MACHINES

## T200

Made in  
**Türkiye**



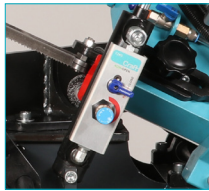
- Angle cut up to 45° from the vice



- 32-64 m/min  
2 steps, speed



- Coolant system



- Hydraulic system which you can easily adjust the downward travel of the head and the feeding speed

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

### Standard Accessories

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



| MODEL                                 | T200                                 |
|---------------------------------------|--------------------------------------|
| Main Motor Power                      | 850 W, 380 V                         |
| Cutting Angle                         | 0°-45°                               |
| Cutting Angle Adjustment              | From Vice                            |
| Head descent speed regulation/feeding | Hydraulic                            |
| Blade Dimensions                      | 20x0,9x2360 mm                       |
| Cutting Capacity 0°                   | ● 200 mm; ■ 200x200 mm; ■ 120x300 mm |
| Cutting Capacity 45°                  | ● 120 mm; ■ 120x120 mm; ■ 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



# BANDSAW MACHINES

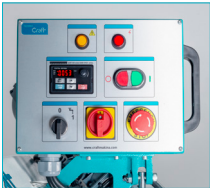
## T225MV

- 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

Made in  
**Türkiye**



- 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;<br>■ 265x150mm |
| Cutting Capacity 45°    | ● 150mm; ■ 150x150mm;<br>■ 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

Made in  
**Türkiye**



# BANDSAW MACHINES (STRAIGHT CUT)

## TS300

SEMI-AUTOMATIC

- 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

## TS300 (Semi-Automatic)

Hydraulic/Automatic material clamping

Hydraulic/Automatic head

Manual material feeding



### Standard Accessories

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

Made in  
**Türkiye**

| MODEL                   | TS300                                  |
|-------------------------|--|
| Motor Power             | 1,5 kW, 380 V                          |
| Cutting Capacity        | ● 300mm; ■ 300x300 mm;<br>■ 250x375 mm |
| Speed                   | 20 - 100 m/min                         |
| Step                    | Inverter / Variable                    |
| Material feeding height | 760 mm                                 |
| Clamp Opening Range     | 0 - 375 mm                             |
| Clamp Height            | 190 mm                                 |
| Driving Motor Power     | -                                      |
| 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



## TA300

### FULL AUTOMATIC

- 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



### Standard Accessories

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

Made in  
**Türkiye**

| MODEL                   | TA300                                  |
|-------------------------|--|
| Motor Power             | 1,5 kW, 380 V                          |
| Cutting Capacity        | ● 300mm; ■ 300x300 mm;<br>■ 250x375 mm |
| Speed                   | 20 - 100 m/min                         |
| Step                    | Inverter / Variable                    |
| Material feeding height | 760 mm                                 |
| Clamp Opening Range     | 0 - 375 mm                             |
| Clamp Height            | 190 mm                                 |
| Driving Motor Power     | 0.37 kW                                |
| Hydraulic Motor Power   | 0.18 kW                                |
| Cooling Engine Power    | 0.12 kW                                |
| Machine Dimensions      | 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



# BANDSAW MACHINES (STRAIGHT CUT)

## TS300M

SEMI-AUTOMATIC

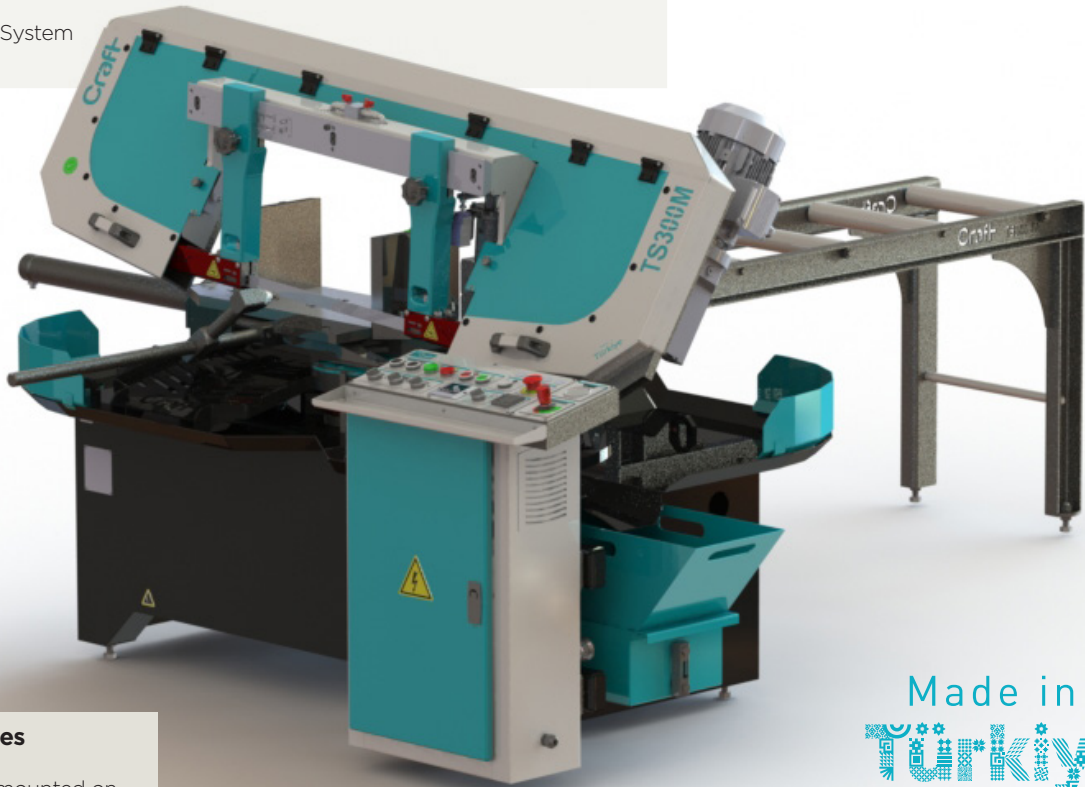
- Unlimited step between 20-100 min with inverter speed regulation/Vario system
- Digital speed display
- Ergonomic control panel that providing ease of use
- Special design cast pulleys
- Hydro-mechanical band tensioning
- Domestic production powerful engine
- Domestic production special design reducer
- 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

## TS300M (Semi-Automatic)

Hydraulic/Automatic material clamping

Hydraulic/Automatic head

Manual material feeding



### Standard Accessories

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

Made in  
**Türkiye**

| MODEL                   | TS300                                  |
|-------------------------|--|
| Motor Power             | 1,5 kW, 380 V                          |
| Cutting Capacity        | ● 300mm; ■ 300x300 mm;<br>■ 250x375 mm |
| Speed                   | 20 - 100 m/min                         |
| Step                    | Inverter / Variable                    |
| Material feeding height | 760 mm                                 |
| Clamp Opening Range     | 0 - 375 mm                             |
| Clamp Height            | 190 mm                                 |
| Driving Motor Power     | -                                      |
| 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



# BANDSAW MACHINES (STRAIGHT CUT)

## TA300M

### FULL AUTOMATIC

- 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

Made in  
**Türkiye**

| MODEL                   | TA300                                  |
|-------------------------|--|
| Motor Power             | 1,5 kW, 380 V                          |
| Cutting Capacity        | ● 300mm; ■ 300x300 mm;<br>■ 250x375 mm |
| Speed                   | 20 - 100 m/min                         |
| Step                    | Inverter / Variable                    |
| Material feeding height | 760 mm                                 |
| Clamp Opening Range     | 0 - 375 mm                             |
| Clamp Height            | 190 mm                                 |
| Driving Motor Power     | 0.37 kW                                |
| Hydraulic Motor Power   | 0.18 kW                                |
| Cooling Engine Power    | 0.12 kW                                |
| Machine Dimensions      | 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



# BANDSAW BLADES

## BI-METAL M42 BAND SAWS

| PRODUCT CODE |                  |                   |         |                | 1 Package:<br>5 Pcs |
|--------------|------------------|-------------------|---------|----------------|---------------------|
| LENGTH       | THREAD DIMENSION | WIDTH X THICKNESS | LENGTH  | SUITABLE MODEL |                     |
| 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 | T180V/VM/S     |                     |
| 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, TA300   |                     |



### 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  |



**LF15 | LF20 | LF30**

Craft LF series fiber laser welding machines weld with a technology that melts the metal by emitting a high intensity laser on the metal surface. With a high-energy laser beam, heat is transferred only to the area of the material to be welded and welding is performed without deformation. The laser welding machine is suitable for welding stainless steel, carbon steel, aluminum, galvanized sheet, gold, silver, titanium, nickel, tin, copper and other metals. Ultra-high electro-optical conversion efficiency provides significant energy savings for businesses. Turkish language operation panel makes it easy for the operator to adjust the welding parameters before and during the application.

**Advantages**

- Low power consumption saves energy and is environmentally friendly.
- Welds much faster than conventional methods. 6 times faster than argon welding, 4 times faster than gas welding it will do the job faster.
- While traditional methods require a highly skilled craftsman, laser welding is much easier.
- The weld seam is smooth. The need for grinding or cleaning after welding is minimized. Saves labor costs.
- Laser light makes it possible to weld even in tight spaces without causing damage.
- Because of the very low welding heat input, there is no deformation of the materials and no capillary cracks are formed.

**Standard Accesories**

- Automatic wire feeder with 15 kg carrying capacity, (double axle, 4x reel)
- Nozzle 5 pcs (including cutting nozzle)
- Protective lens 5 pcs
- Protective goggle 1 pcs
- Tool bag 1 pcs

Automatic Wire Driver



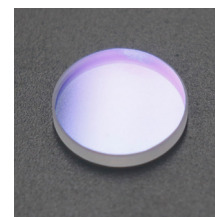
| MODEL                      |                        | LF15                               | LF20   | LF30   |
|----------------------------|------------------------|------------------------------------|--------|--------|
| Laser Power                |                        | 1500 W                             | 2000 W | 3000 W |
| Voltage                    |                        | 220V, 50-60 Hz                     |        |        |
| Welding Penetration        | Stainless steel        | 4 mm                               | 5 mm   | 6 mm   |
|                            | Carbon steel           | 4 mm                               | 4 mm   | 5 mm   |
|                            | Aluminium              | 2 mm                               | 3 mm   | 4 mm   |
|                            | Galvanized sheet metal | 3 mm                               | 3 mm   | 5 mm   |
|                            | Copper                 | 2 mm                               | 2 mm   | 3 mm   |
| Laser Cooling Type         |                        | Industrial thermostatic water tank |        |        |
| Laser Wave Length          |                        | 1080 Nm, ± 5 Nm                    |        |        |
| Tailstock Diameter         |                        | 0.2-1.8 mm                         |        |        |
| Torch Length               |                        | 10 m                               |        |        |
| Modulation frequency       |                        | 1-20,000 Hz                        |        |        |
| Machine Dimensions (LxWxH) |                        | 1130x650x1120 mm                   |        |        |
| Weight                     |                        | 270 kg                             |        |        |



Welding helmet



Laser Unit & Thermostatic water tank



Lens



Nozzle

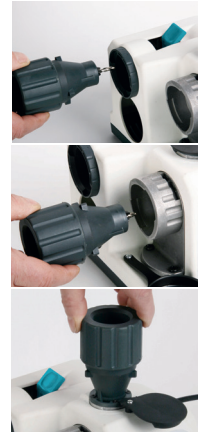
# DRILL BIT SHARPENERS

## 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

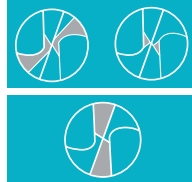
- Machine mounted sharpening wheel (for HSS bits)
- Collet holder
- Ø 3,4,5,6,7,8,9,10,11,12,13 mm ER20 collet

Optional Accessories:

**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

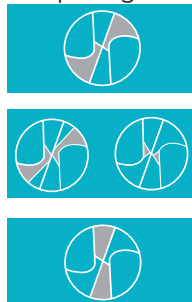
- Machine mounted sharpening wheel (for HSS bits)
- Collet holder
- Ø 3,4,5,6,7,8,9,10,11,12,13 mm ER20 collet

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)<br>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

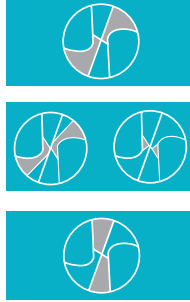
### GD30T

| MODEL               | GD30T  |
|---------------------|--|
| Motor Power         | 250 W  |
| Voltage             | 230 V  |
| Speed               | 4400 rpm   |
| Drill Bit Angle     | 85° - 140°                                       |
| Sharpening capacity | Ø13- Ø30 mm (standart)<br>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

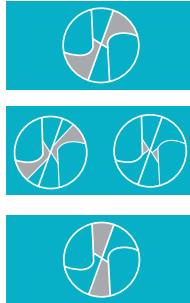
### GD30T Plus

| MODEL               | GD30T Plus                                      |
|---------------------|---|
| Motor Power         | 250 W   |
| Voltage             | 230 V   |
| Speed               | 4400 rpm  |
| Drill Bit Angle     | 85° - 140°                                      |
| Sharpening capacity | Ø3- Ø30 mm (standart)<br>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

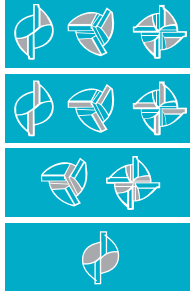
### GF14

| 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

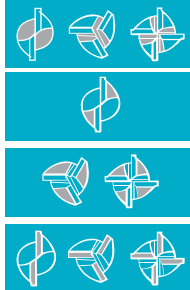
### GF14A

| 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

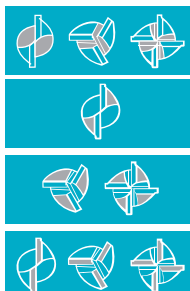
### GF30A

| 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 arasi 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**

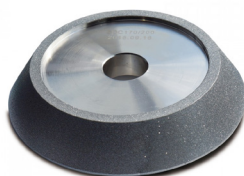
## SHARPENING ACCESSORIES

### 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

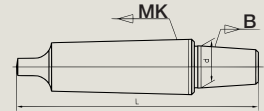
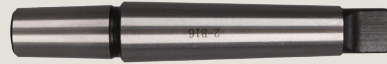
| PRODUCT CODE | INSTRUCTION                |
|--------------|----------------------------|
| 660010       | ER40 collet sets 8-12mm    |
| 660030       | ER40 collet sets 31-32mm   |
| 660035       | ER40 collet holder 31-32mm |
| 662003       | ER20-3mm collet            |
| 662004       | ER20-4mm 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     |

# ACCESORIES

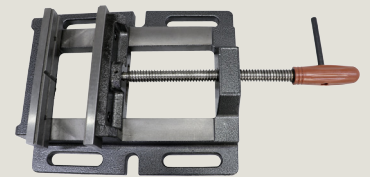
## DRILL MORSE TAPER

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



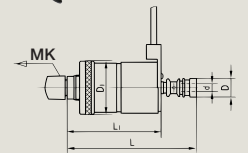
## DRILLING MACHINE VICE

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



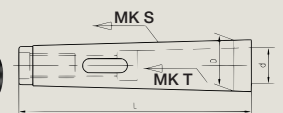
## REVERSIBLE TAPPING CHUCK

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



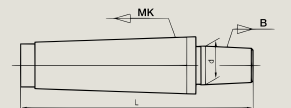
## MORSETAPER SLEEVES (Drawbar type)

| ITEM NO       | MORS KONİK (MT No.S) | MORS KONİK (MT No.T) | D (mm) | d (mm) | L(mm) |
|---------------|----------------------|----------------------|--------|--------|-------|
| <b>220032</b> | 3                    | 2                    | 23,82  | 17,78  | 116   |
| <b>220042</b> | 4                    | 2                    | 31,26  | 17,78  | 120   |
| <b>220043</b> | 4                    | 3                    | 31,26  | 23,82  | 140   |



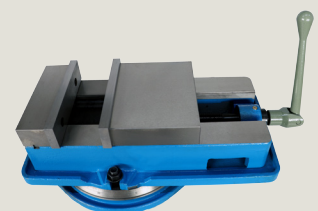
## MILLING MORSE TAPER

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



## MILLING MACHINE VICE

| ITEM NO       | WIDTH OF JAW (mm) | HEIGHT OF JAW (mm) | MAX. OPENING (mm) | NET WEIGH (kg) |
|---------------|-------------------|--------------------|-------------------|----------------|
| <b>250100</b> | 100               | 32                 | 100               | 16             |
| <b>250125</b> | 125               | 40                 | 125               | 20             |
| <b>250160</b> | 160               | 45                 | 150               | 35             |
| <b>250200</b> | 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       |



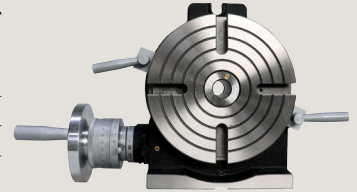
## COLLET SET

| 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          |



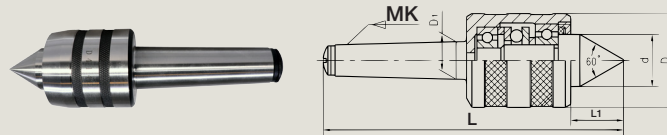
## ROTARY TABLE

| 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         |



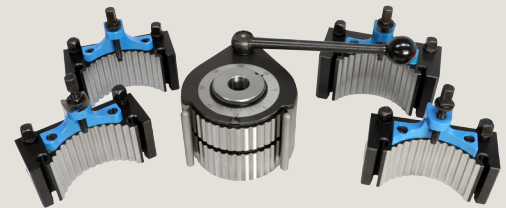
## MEDIUM-DUTY LIVE CENTER

| 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 |



# Craft

## METALWORKING MACHINES



**TOPÇULAR**  
Endüstriyel Üretim ve Yatırım A.Ş.

### Central:

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No:6/C 34887 Sancaktepe/İSTANBUL

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