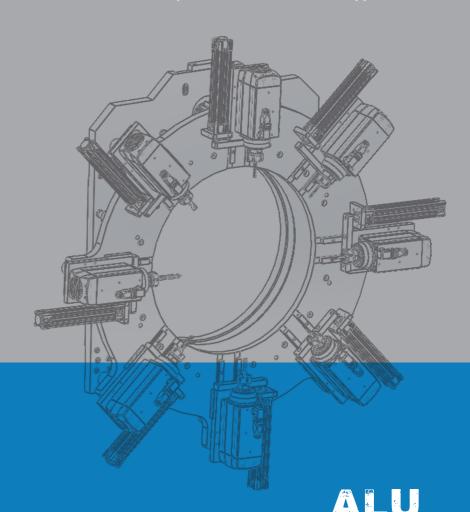


Complete solutions from one supplier

All around the World

Aluminium Profiles Machining Systems





Creating Technology Since 1926

Haffner was founded in Pforzheim in 1926 by Gotthold **Haffner** as a manufacturer of woodworking hand machines for carpenters in Pforzheim, Germany. In the 1970s, it began developing and producing the industry's first machines for PVC window manufacturing. The company developed CNC-controlled profile processing machines in the 1980s. In the 2000s, the company increased its export share to 85% by becoming one of the most important brands in the sector with its production capacity and product development capability. The first automatic welding and cleaning machines were produced on this date.

In 2012, **Haffner** was bought by **Murat Machinery**, a rapidly growing company in the same industry especially Europe and Middle East. After this game changer development in the market, **Haffner** moved its production to Istanbul. Today, **Haffner** is a global brand that exports more than 85% of its production, expands its sales and technical support network and guarantees service quality by establishing its own offices in main locations such as USA, Canada, Germany, India, Chile, Poland and Russia.

Haffner, Today

Haffner, one of the main supplier of the window and door industry, creates advanced technology in 25.000 m² in Istanbul; produces solutions that increase the quality of the construction business.

Haffner produces manual and automatic PVC and aluminum profile processing machinery and supports the production process of industries including defense, aviation, transportation, automotive, rail systems, furniture and lighting.

Haffner quickly analyzes the changing needs of the market and takes action with its continuous development and improvement policy, rooted engineering infrastructure, understanding of quality, R&D investments,

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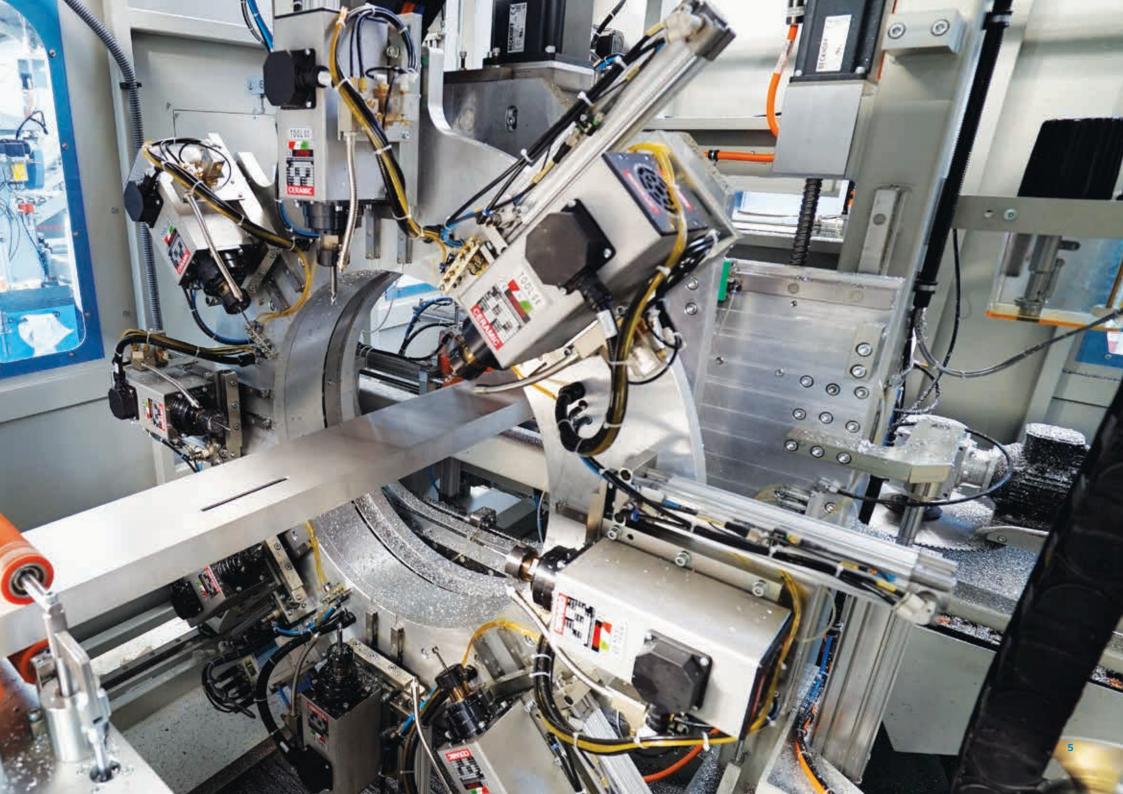
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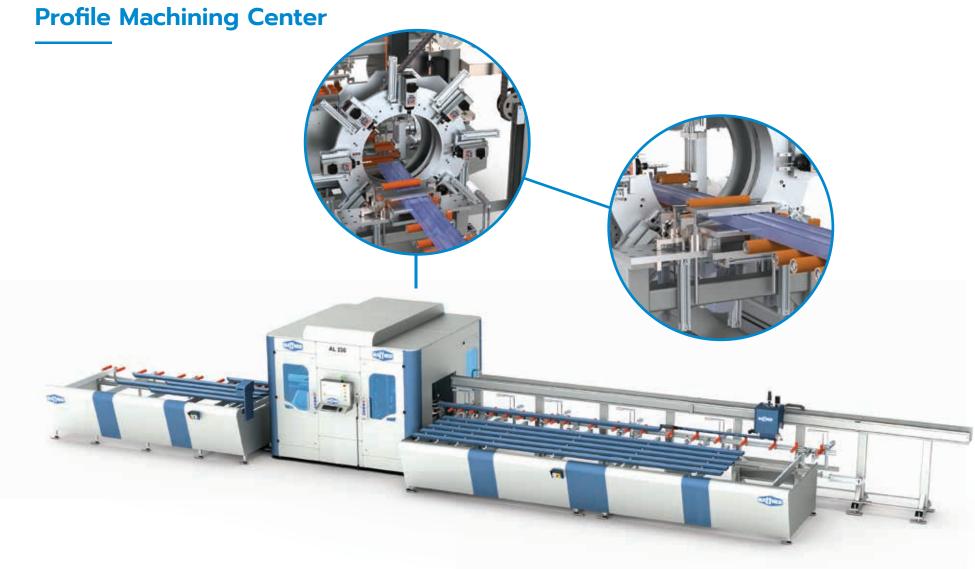
Profile Machining Centers

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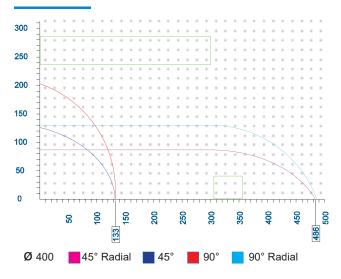




AL-230



AL-230 Profile Machining Center



Cutting Unit:

- Vertical Cutting Saw Blade Diameter: 600 mm (23.62 in.)
- Horizontal Cutting Saw Blade Diameter: 400 mm (15.74 in.)
- X-Axis Travel (Vertical Saw): 425 mm (16.73 in.)
- Y-Axis Travel (Vertical Saw): 950 mm (37.40 in.)
- Z-Axis Travel (Vertical Saw): 600 mm (23.62 in.)
- Y-Axis Travel (Horizontal Saw): 880 mm (34.64 in.)
- Z-Axis Travel (Horizontal Saw): 300 mm (11.81 in.)
- Maximum Profile Width: 300 mm (11.81 in.)

- Maximum Profile Height: 230 mm (9.05 in.)
- Minimum Profile Width: 30 mm (1.18 in.)
- Minimum Profile Height: 30 mm (1.18 in.)
- Maximum Bar Length: 7500 mm (295.27 in.)
- Minimum Bar Length: 1200 mm (47.24 in.)
- Bar Loading System (pcs.): 7
- Angle Range of Vertical Cutting-off Machine: 0° to 360°
- Angle Range of Horizontal Cutting-off Machine: 45° to 135°

- All cutting, notching, milling, drilling and marking operations on the aluminum profiles have been pieced together in a single, computer controlled machine.
- 7 profile stacking capability. (Maximum profile length: 7500 mm (295.27 in.)
- Servo motors allow automatic vertical sawing at all angles between +65° and -240° in 0.1° increments. (600 mm (23.62 in.) diameter blade)
- Servo motors allow automatic horizontal sawing at all angles between 45° and 135° in 0.1° increments. (400 mm (15.64 in.) diameter blade)
- Able to work with high speed and sensitivity thanks to 15 axes controlled by servo motors.
- 0°-360° rotatable servo controlled gripper.
- Able to perform opening, drilling and milling operations of angled water drainage channels.
- Able to carry remaining waste parts to the waste chamber with an automatic conveyor system.
- Able to perform all operations sensitively with 8 tool set being standard in the rotary milling group.
- 15.6"Touch screen.
- High performance industrial PC having Windows 10 operating system and working between 0°C 55°C (32°F 131°F) without an additional fan.
- Working with production data coming from different window production software by giving minimum waste.
- All error messages can be monitored from the screen by the machinery software department.
- Able to provide service with remote connection method and troubleshooting by connecting to the whole automation
- Operating system ensures maximum safety measures against virus spreading and user errors by cleaning unnecessary processes of the last login automatically at every opening/closing of the machine.
- Remote network connection or data transfer via USB.
- Possibility to perform daily backup operation to internal back up unit automatically.
- · Daily, weekly, monthly and annually production control with shift control system.
- Central lubricating system that facilitates the machine maintenance.

OPTIONAL

· Servo controlled 3-Axis end milling unit.

Milling Unit:

- X-Axis Travel: 425 mm (16.73 in.)
- Y-Axis Travel: 470 mm (18.50 in.)
- Z-Axis Travel: 325 mm (12.79 in.)
- C-Axis Travel (Rotary Base Rotation): 0° 315°
- Number of Spindle Motors: 8
- Maximum Spindle Power in S1: 4.5 kW (6.03 hp.)
- · Maximum Spindle Speed: 18000 rpm
- · Tool Connection: ER 32







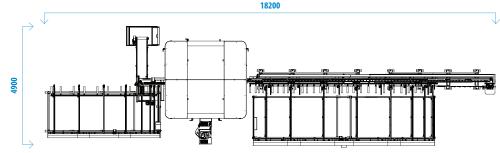




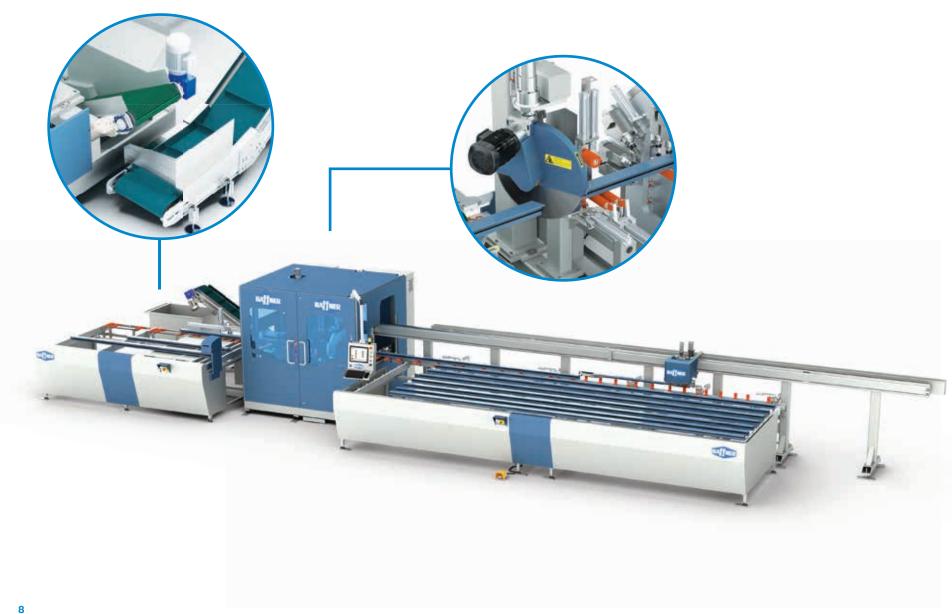




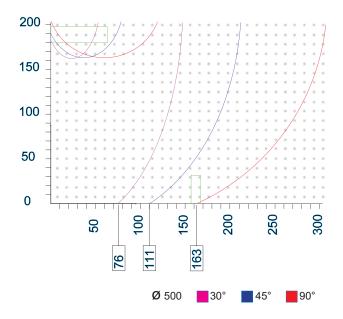




AL-220/80 **Profile Machining Center**



AL-220/70 **Profile Machining Center**



Technical Features

- Power Supply: 400V, 3 ~, 50/60 Hz
- · Total Power Output: 20 kW, 50A
- Saw Diameter: 500 mm (19,39 in.)
- Saw Blade Motor Power: (SC-220/70 & SC-220/80) 3 kW
- Air Pressure: 6-8 bar (90-120 psi)
- Air Consumption: 750 I/Min (26.48 cfm)
- Maximum Profile Length: 4000 mm (157.48 in.)
- Minimum Profile Length: 350 mm (13.77 in.)
- Maximum Profile Width: 130 mm (5.11 in.)

- Maximum Profile Height: 160 mm (6.29 in.)
- Minimum Profile Height: 35 mm (1.37 in.)
- Maximum Raw Profile Length: 7000 mm (275.59 in.)
- Minimum Raw Profile Length: 1000 mm (39.37 in.)
- Machine Height: 2500 mm (98.42 in.)
- Machine Length: 14760 mm (48.25 ft.)

- Machine Width: 3350 mm (10.99 ft.)
- Machine Weight: 5700 kg (12,540 lb.)











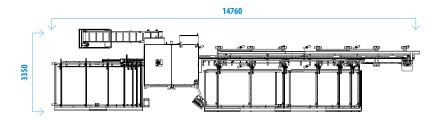


L: 4000 mm

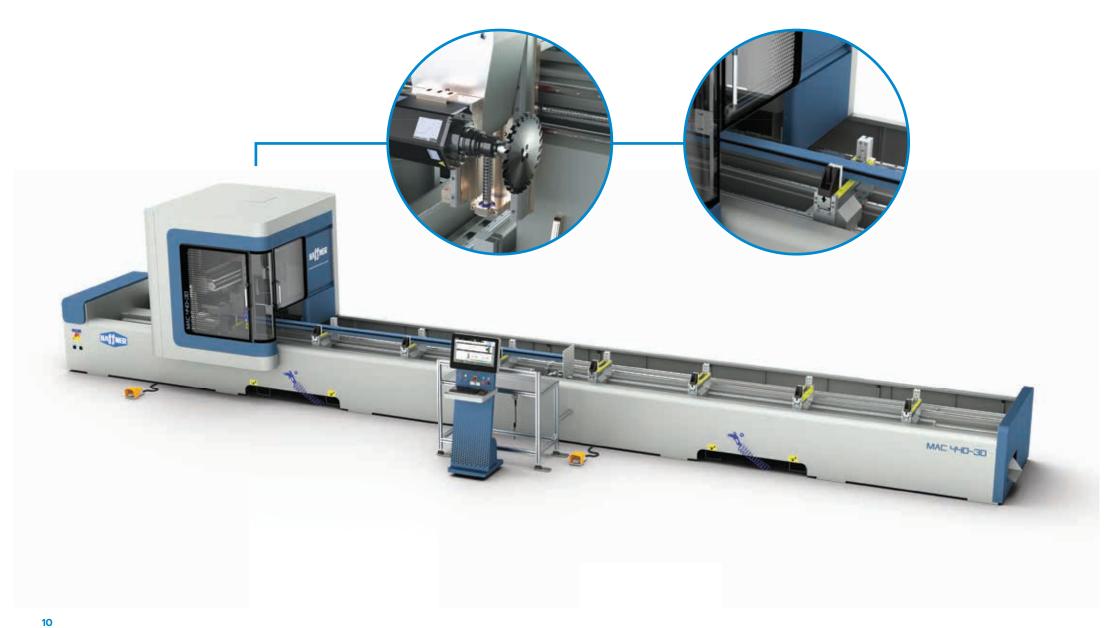
- All cutting, notching, milling, drilling and marking operations on the aluminum profiles have been integrated together in a single computer-controlled machine.
- 7 Profile stacking capability, 500 mm (19.69 in.) saw diameter (Maximum raw profile length 7000 mm (255.90 in.)
- · Automatic horizontal/vertical positioning gripper.
- Able to cut automatically at all angles between 45° and 135° in 0.1° increments via servo motors.
- Able to work with high speed and sensitivity thanks to 8 axes controlled by servo motors.
- Able to perform opening, drilling and milling operations of angled water drainage channels.
- Able to carry remaining waste parts to the waste chamber with automatic conveyor system.
- Increased production speed with simultaneous machining of barrel, mirror and arms on doors.
- Able to perform all operations sensitively with an 8-tool set in the milling group.
- 15"Touch screen.
- High performance industrial PC having Windows 10 operating system and working between 0°C 55°C (32°F 131°F) without an additional fan.
- Working with production data coming from different window production software programs by giving minimum waste.
- All error messages can be monitored from the screen
- Able to provide service with remote connection method and troubleshooting by connecting to the whole automation system.
- Operating system ensures maximum safety measures against virus spreading and user errors by cleaning unnecessary processes of the last login automatically at every opening/closing of the machine.
- · Remote network connection or data transfer via USB.
- Possibility to perform daily back up operation to internal back up unit automatically.
- Daily, weekly, monthly and annually production control with shift control system.
- · Central lubricating system that facilitates machine maintenance.

AL-220/80 Profile Machining Center

- Thanks to servo-controlled cutting, saws can be positioned automatically according to the height of the profile to make fast and rigid cutting.
- · Punch group, screwing unit.
- Able to perform all operations sensitively with a 12-tool set in the milling group.
- Saw Blade Diameter: 600 mm (23.62 in.)
- Able to perform all operations sensitively with a 12-tool set in the milling group.
- Maximum Profile Processing Width: 210 mm (8.26 in.)
- Maximum Profile Processing Height: 180 mm (7.08 in.)



MAC-440 Profile Machining Center



MAC-440 Profile Machining Center





Technical Features

Traverse Path X-Axis

Traverse Path Y-Axis

Traverse Path Z-Axis

Max Machinable Length

Tool Magazine

· Max Milling Blade Diameter

• Number Of Standard Vices

· Vices Positioning

• Number Of Stop References

Power Supply*:

Spindle Motor Power

· Adjustable Electro Spindle Motor

· Tool Holder

Operating Pressure

Total Installed Power

· Machine Height

· Machine Length

· Machine Width

4600 mm (181.10 in.), Vmax 120 m/min 930 mm (36.61 in.), Vmax 60 m/min

625 mm (24.60 in.), Vmax 60 m/min

4100 mm (161.41 in.)

6 pcs (Optional 10 pcs)

150 mm (5.90 in.)

4 pcs.

Automatic Movement by Machine Head

2 Pneumatic

400V, 3 ~, 50/60 Hz

8 kW Up to 11 kW

0 - 24000rpm

HSK F63

7 bar

12 kW

2300 mm (90.55 in.)

6200 mm (244.09 in.)

1800 mm (70.86 in.)

9350 mm (368.11 in.), Vmax 120 m/min

930 mm (36.61 in.), Vmax 60 m/min

625 mm (24.60 in.), Vmax 60 m/min

8500 mm (334.64 in.)

10 pcs

150 mm (5.90 in.)

8 pcs

Automatic Movement by Machine Head

2 Pneumatic

400V, 3 ~, 50/60 Hz

8 kW Up to 11 kW

0 - 24000rpm

HSK F63

7 bar

12 kW

3402 mm (133.97 in.)

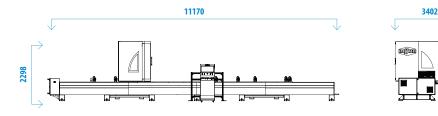
11170 mm (36.6ft.)

2298 mm (90.47 in.)

- MAC 440 Aluminum Profile Machining Center is designed for milling, drilling, cutting and tapping of aluminium profiles in 4-Axis.
- 4-Axis movement controlled by high-precision servomotors.
- 4000 mm (157.48 in.) standard processing length
- Water-cooled electric spindle (8 kW, (10.72 hp), /24000 rpm), with HSK F63 tool connection suitable for material removal processes during milling and drilling operations.
- Tool magazine which holds 6 tools.
- Automatic clamp recognition and clamp positioning.
- A-Axis processing between -120° to +120°.
- Windows 10 operating system.
- 19" led display screen.
- · Hand held operator terminal.
- Thread cutting, flow drill and countersink operations.
- Easy to perform operations on the profile with the CAD CAM program.
- Central lubrication system to ease machine maintenance.

OPTIONAL

- Rotating tool changer for 10 tools
- Water-cooled 11 kW, routing spindle
- 8500 mm machine Processing Length
- Barcode Reader (AK 002)







6-8 bar





26kW 48A



H: 250mm



MAC-340 Profile Machining Center



MAC-340 Profile Machining Center

Technical Features

• Power Supply 400V, 3 ~, 50/60 Hz

Total Power Output 16 Kw, 40A

• Maximum Processing Length X-Axis: 4000 mm (157.48 in.)

Y-Axis: 250 mm (9.84 in.)

Z-Axis: 220 mm (8.66 in.)

Angled Head Processing Length X-Axis: 4000 mm (157.48 in.)

Y-Axis: 175 mm (6.88 in.)

Z-Axis: 220 mm (8.66 in.)

Maximum Axis Travel Speed X-Axis: 180 m/min (590.55 ft./Minimum)

Y-Axis: 50 m/min (164.04 ft./Minimum)

Z-Axis: 50 m/min (164.04 ft./Minimum)

• Clamp Axis 30 m/min (98.42 ft./Minimum)

• Position Accuracy $\pm 0.1 \text{ mm} (\pm 0.004 \text{ in.})$

• Spindle Speed 24000 rpm

Spindle Power 7.5 kW (10.05 hp.), S1;

9 kW (12.06 hp.) S6;

• Drill Chuck Type ISO 30

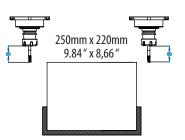
• Saw Blade Diameter 200 mm (7.87 in.)

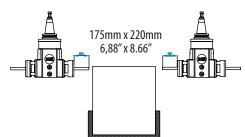
Maximum Tool Quantity 7Standard Clamp Quantity 4

• Air Pressure 7 bar (100 psi)

Air Consumption 80 l/min (2.82 cfm)
 Machine Height 2290 mm (90.157 in.)
 Machine Length 5135 mm (16.84 ft.)
 Machine Width 2744 mm (108.03 in.)

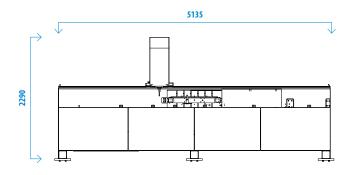
Machine Weight 4500 kg (9,920 lb.) (With Cabin)

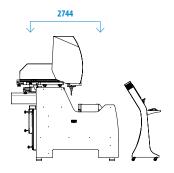




- PC controlled 3-Axis interpolated CNC Machine.
- Able to move in 3 axes simultaneously on the work piece. (Axis interpolated)
- Able to work with high accuracy on aluminum door, window and facade profiles. $(\pm 0.1 \text{ mm} (\pm 0.004 \text{ in.}))$
- Able to work on 3 mm (0.12 in.) thick iron profiles.
- Automatic tool changing by means of magazine which holds 7 tools including an angle head.
- 19" touch screen monitor.
- Industrial PC with Windows 10 which works between 0°C 55°C (32°F 131°F) without an additional fan.
- Easy to perform operations on the profile with the CAD CAM program.
- Full integration with various on facade and aluminum door window production software.
- 3D machine simulation which enables to displaying the process in 3D.
- · Thread cutting, flow drill and countersink operations.
- Central lubrication system to ease machine maintenance.

- Double station operation option allows for a 30% capacity increase by loading and unloading atanother stationwhile working at one station
- Automatic clamp positioning (Clamp moves according to position of processing point during operation)
- Additional two clamps (Maximum 6) can be added on request (AC-020)
- Fully enclosed cabin
- Angle routing head allows you to work the front, back, right and left surfaces. The tool is rotated accurately by means of an encoder on the electro spindle to the desired surface
- · 200 mm (7.87 in.) diameter disk mill and holder
- Barcode Reader (AK 002)
- (*): Special Head System which enables to work on the sides of profile. Angled tool is rotated accurately by means of encoder on the electro spindle to desired surface. Angled tool is rotated accurately by means of encoder on the electro spindle to desired surface.





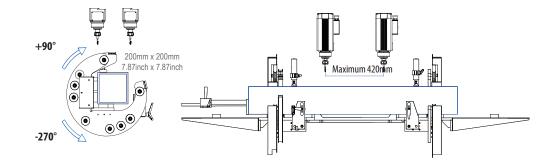
MAC-140/50 Profile Machining Center



Technical Features

- Power Supply:400V, 3 ~, 60 Hz
- Total Power Output: 9 kW, 34A
- Spindle Motor: 4.5 kW (6.03 hp.) 18,000 rpm
- Air Consumption: 80 I/Min (2.82 cfm)
- Maximum Profile Height: 200 mm (7.87 in.)
- Minimum Profile Height: 30 mm (1.18 in.)

- Maximum Profile Width: 200 mm (7.87 in.)
- Machine Height: 1965 mm (77.36 in.)
- Machine Length: 2595 mm (102.16 in.)
- Machine Width: 1745 mm (68.70 in.)
- Machine Weight: 850 kg (1,875 lbs.)















H: 200mm

W: 200mm

L: 420mm

MAC-140 Profile Machining Center



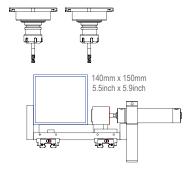
- PC-controlled 3-Axis interpolated vertical CNC Machine .
- Able to move in 3 axes simultaneously on the work piece. (Axis interpolation)
- Ability to work with high accuracy on aluminum door, window and facade profiles.(± 0.1mm (0.004 in.))
- Ability to hold the profiles rigidly with three clamps.
- Central lubrication system to ease machine maintenance.

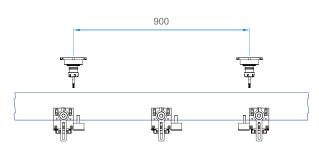


Technical Features

- Power Supply: 400V, 3 ~, 50/60 Hz
- Total Power Output: 8 kW, 32A
- Spindle Motor: 4.5 kW (6.03 hp.)
- Air Consumption: 18,000 rpm
- Air Pressure: 80 I/Min (2.82 cfm)
- Maximum Profile Height: 140 mm (5.51 in.)
- Minimum Profile Height: 30 mm (1.18 in.)

- Maximum Profile Width: 150 mm (5.90 in.)
- Machine Height: 1940 mm (76.37 in.)
- Machine Length: 1380 mm (54.33 in.)
 - + 5760 mm (226.77 in.) conveyor length
- Machine Width: 1400 mm (55.11 in.)
- Machine Weight: 650 kg (1,435 lbs.)











8 kW 32 A



H: 140mm

W: 150mm

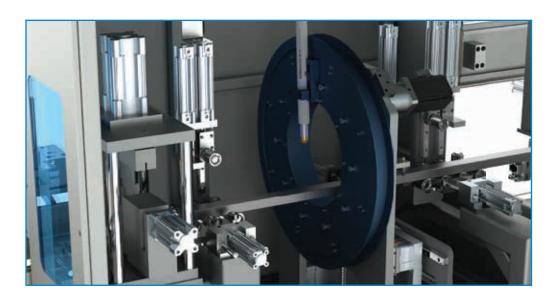
L: 900mm

DS-902 Reinforcement Profile Cutting & Machining Center



DS-902

Reinforcement Profile Cutting & Machining Center



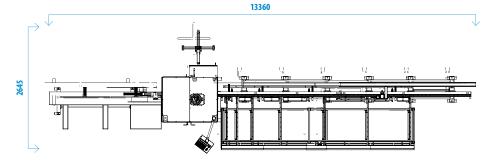
Technical Features

- Power Supply: 400 V, 50 Hz
- · Total Power Output: 15kW, 40A
- Air Consumption: 18,000 rpm
- Air Pressure: 80 l/Min (2.82 cfm)
- Minimum Profile Height: 20 mm (0.78 in.)
- Maximum Profile Height: 60 mm (2.36 in.)
- Minimum Profile Width: 20 mm (0.78 in.)
- Maximum Profile Width: 60 mm (2.36 in.)
- Minimum Profile Processing Length: 330 mm (12.99 in.)

- Maximum Raw Profile Length: 6000 mm. (19.68 ft.)
- Minimum Raw Profile Length: 500 mm (19.68 in.)
- Machine Height: 2150 mm (7.05 ft.)
- Machine Length: 13360 mm (43.83 in.)
- Machine Width: 2645 mm (8.67 ft.)
- Machine Weight: 3750 kg (8.267 lbs.)
 - + 5760 mm (226.77 in.) conveyor length (18.8 ft.)
- Machine width: 1400 mm (4.59 ft.)
- Machine weight: 650 kg (1,435 lbs.)

- Advanced industrial CNC 4-Axis profile processing system.
- Stacking of 10 reinforcement profiles. (Max 6000 mm length)
- High-tech plasma cutting unit.
- Slot opening and hole drilling operations is constructed by plasma unit and cutting operation is constructed by punch group on steel reinforcement profiles.
- Adopts imported high precision linear bearing system, ball screws, gear racks and servo motor to ensure smooth motion positioning and processing in high precision.
- Problem identification, solution and servicing by means of remote connections.
- Adopts imported high precision linear bearing system, ball screws, gear racks and servo motor to ensure smooth motion positioning and processing in high precision.













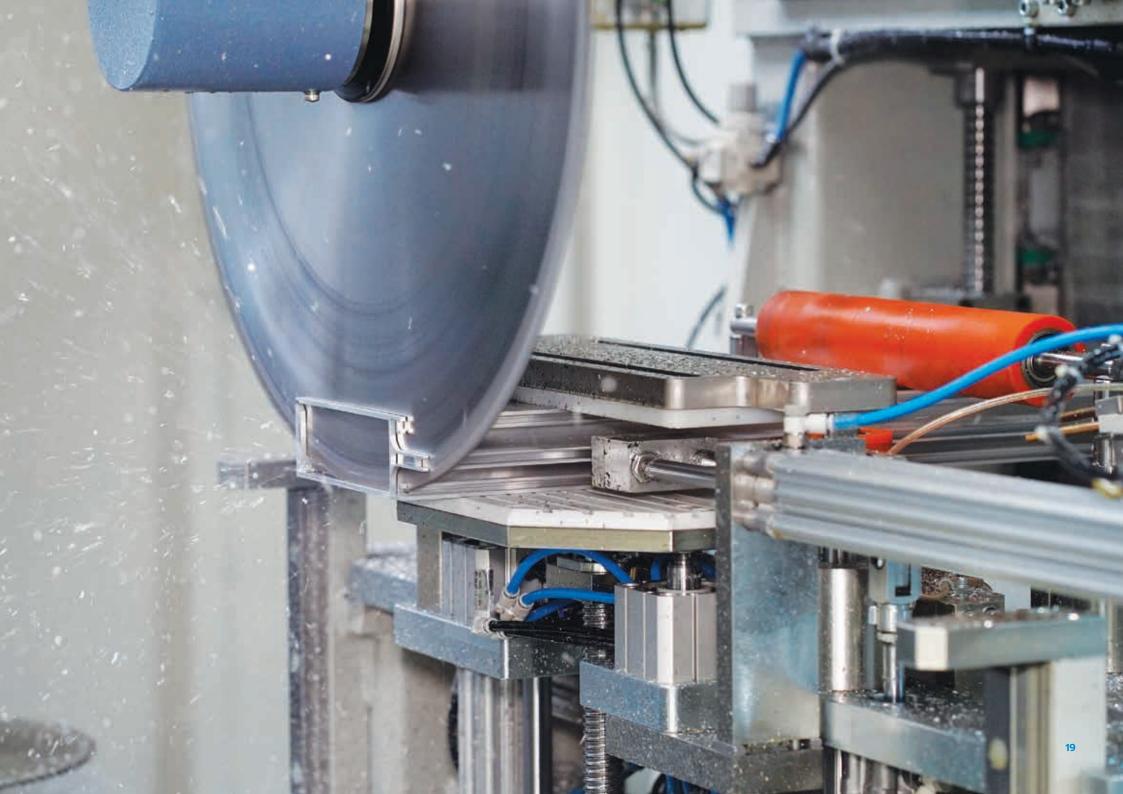


H: 60mm W: 60mm L: 6000mm

Saws

AL-115	20-21
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TT-450	26-27
TT-405/415	28-29
TT-352	30-31
TA-144	32
TA-133	33
TA-420	34-35
TA-141	36
MS-300	37

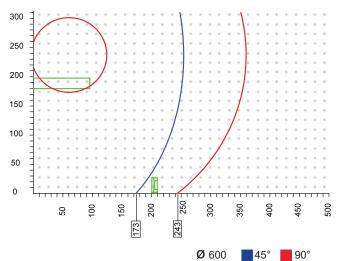




AL-115 Profile Cutting Center (Ø:600 mm - 23.62 in.)



AL-115 Profile Cutting Center (Ø:600 mm - 23.62 in.)



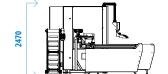


Technical Features

- Power Supply: 400V, 3 ~, 50/60 Hz
- · Total Power Output: 10 kW, 40A
- Saw Blade Motor Power: 3 kW
- Spindle Speed: 2800 rpm (50 Hz), 3360 rpm (60 Hz)
- Air Pressure: 6-8 bar (90-120 psi)
- Air Consumption: 255 I/Min (9.00 cfm)
- Maximum Profile Length: 4500 mm (157.48 in.) optional 7000 mm (275.59 in.)
- Minimum Profile Length: 400 mm (15.74 in.)
- Maximum Raw Profile Length: 7000 mm (275.59 in.)

- Machine Height: 2470 mm (97.24 in.)
- Machine Length: 13800 mm (45.27 ft.)
- Machine Width: 3700 mm (12.13 ft.)

- Machine Weight: 4200 kg (9,240 lb.)



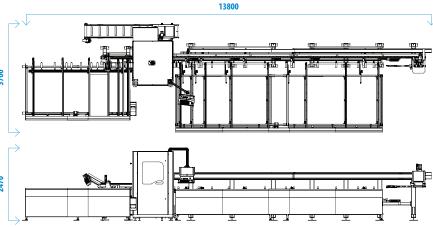
- Automatic and fast cutting of PVC profiles in different length
- 10 profile loading capacity. (Maximum profile length of 7000 mm (275.59 in.)
- Able to cut profiles in desired dimensions by taking profiles from loading belt automatically.
- Able to cut wide profiles easily with the 600 mm (23.62 in.) diameter saw.
- Able to make automatic cuts at all angles between 45° and 135° in 0.1° increments via servo motors.
- Automatic transfer of the cut parts to the output station.
- · Adjustable saw feed speed.
- · Remote network connection or data transfer from USB.
- Able to provide service with remote connection and troubleshooting by connecting to whole automation system.
- 15" touch screen.
- High performance industrial PC having Windows 10 operating system and working between $0^{\circ}\text{C} - 55^{\circ}\text{C}$ (32°F – 131°F) without an additional fan.
- Waste parts are transferred to the waste container by an automatic conveyor belt system.
- Full integration with window-door production software programs.
- All error messages can be monitored from the screen by the machinery software department.

OPTIONAL

- End milling unit for two different profile cross sections
- Label printer. (AK 003)

CAPACITY

- Minimum 2400 meters (7,874 ft.)/8 hours
- Maximum 2600 meters (8,530 ft.)/8 hours



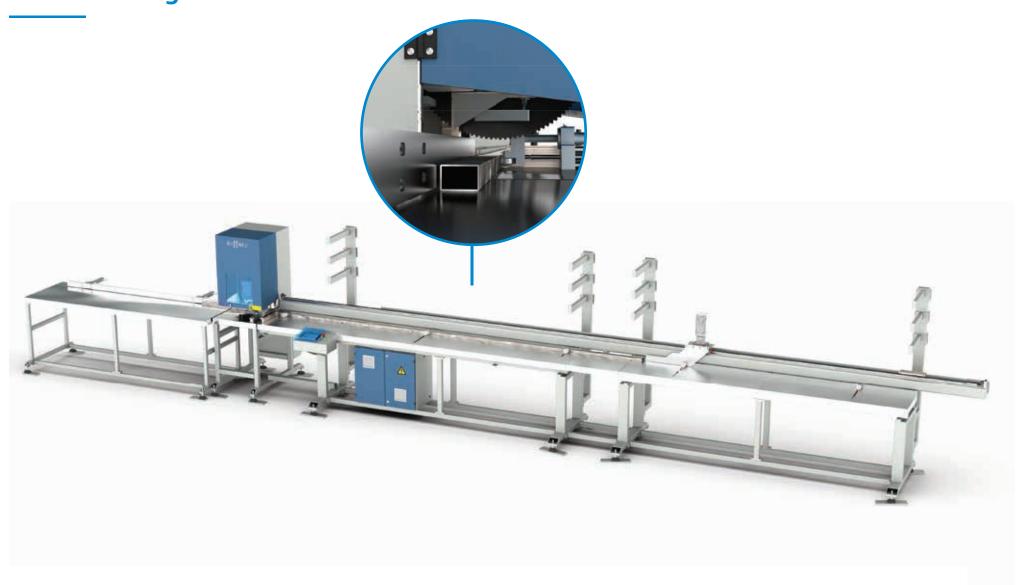




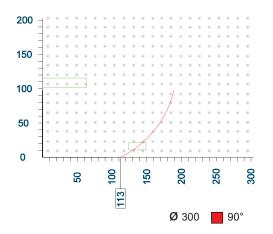


10 kW 40A

RC-600 Reinforcement Profile Cutting Center



RC-600 Reinforcement Profile Cutting Center



Technical Features

• Power Supply: 400 V, 3 ~ 50-60 Hz

• Total Power Output: 3 kW, 10 A

• Saw Blade Motor Power: 2,2 kW

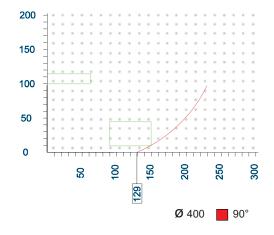
• Maximum Profile Width: 95 mm (0.31 in.)

• Minimum Profile Height: 15 mm (0.04 in.)

• Maximum Profile Height: 80 mm (0.26 in.)

Minimum Profile Width: 15 mm (0.04 in.)

· Air Pressure: 6-8 bar



• Air Consumption: 100 I/Min

• Machine Height: 1700 mm (5.93 ft.)

• Machine Length : 10270 mm (34.12 in.)

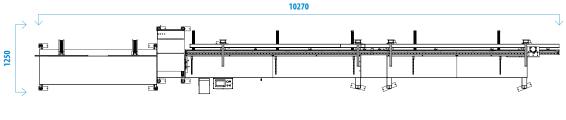
• Machine Width: 1250 mm (4.10 ft.)

• Machine Weight: 1250 kg (2.755 lbs.)

- Automatic and fast cutting of reinforcement profiles at different lengths.
- Loading of 5-10 reinforcement profiles. (Maximum 6500 mm length)
- Automatically feeds the profiles from the loading magazine, cuts at the desired lengths.
- The 420 mm. saw blade diameter enables cutting of wide profiles.
- The saw blade feed speed can be adjusted.
- 7" touch screen monitor.
- Able to measure with optimisation for the minimum waste profiles.
- Accurate cutting lengths due to servo system.
- Data transfer is available via network and connection or USB storage.
- The cut work pieces are automatically moved to off-loading station.
- All error messages can be monitored from the screen by the software developed by Haffner Machinery Software Department.

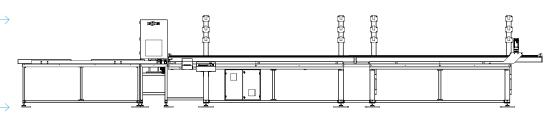
OPTIONAL

· Barcode printer (AK 003)





1700





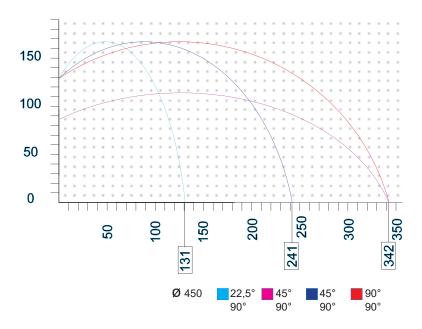




TT-425 Double Head Mitre Saw (Ø:450 mm - 17.71 in.)



TT-425 Double Head Mitre Saw (Ø:450 mm - 17.71 in.)



Technical Features

- Power Supply: 230 / 400V, 3 ~, 50/60 Hz
- Total Power Output: 9 kW, 25A
- Saw Blade Motor Power: 4 kW (5.36 hp)
- Spindle Speed 2800 rpm (50 Hz), 3360 rpm (60 Hz.)
- Air Pressure: 6-8 bar (100 psi)
- Pivoting Range Inwards 90°- 22.5° with Accuracy up to \pm 0.1°.
- Tilting Range Inwards Pneumatically 90°- 45°
- Saw Diameter: 450 mm (17.71 in.)

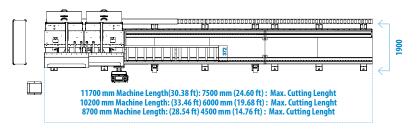
- Minimum Cutting Length Tilted at 90-90 Limit: 450 mm (17.71 in.)
- Minimum Cutting Length Tilted at 45-90 Limit: 600 mm (23.62 in.)
- Minimum Cutting Length Tilted at 90-45 Limit: 600 mm (23.62 in.)
- Minimum Cutting Length Tilted at 45-45 Limit: 700 mm (27.55 in.)
- Machine Height: 1800 mm (70.86 in.)
- Machine Width: 1900 mm (74.80 in.)
- Machine Weight: 1900 kg (4,188 lbs.)

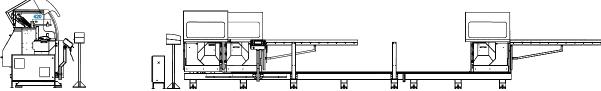




- Machine bed made of steel sheet, cutting length 6000 mm standard, 4500 and 7500mm optional.
- Solid cast construction and linear bearing system for length and angle accuracy.
- Position accuracy possible with angle deviations is less than 0.1°.
- Pivoting range with digital angle display.
- Chop and oversize length cuts (min: 4mm max: 7.500mm)
- Profile lifting bars.
- Automatic tilt movement of the saw heads to 45° and 90°. Angles between 45° and 90° can be adjusted manually and locked easily. The movable head positions itself automatically by means of the PLC control system with touch panel.
- Automatic closing safety hood to protect the operator.
- 2 standard vertical clamping system and 1 optional horizontal clamping system to ensure optimum profile fixing.
- · Data transfer by means of Network connection or USB
- Item number, length dimensions, angles and quantities can be programmed on the control panel (2.000 x 10: able to cut in different program)
- Filter-Regulator-Lubricator for incoming air supply.
- Pulse spray mist blade lubricant system.

- · Label printer (AK 003)
- Machine can be produced in 4000 and 7500 mm (295.28 in.) Maximum cutting lengths upon request
- Transom stop and lead-cut stop
- Chip extraction systems
- Hydro-Pneumatic saw blade feeding device (AH 042)
- Aluminum wedge cutting (AH 025)





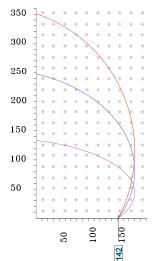








TT-450 Double Head Mitre Saw (Ø:500 mm - 19.69 in.)







Technical Features

- Power Supply: 400V, 3 ~, 50/60 Hz
- Total Power Output: 6.55 kW
- Saw Blade Motor Power: 3 kW (4.02 hp) x 2
- Spindle Speed: 2800 rpm (50 Hz.), 3360 rpm (60 Hz)
- Air Pressure: 6-8 bar (90-120 psi)
- Air Consumption: 60 I/Min (2.12 cfm)
- Maximum Profile Length: 4500 mm (177.16 in.)
- Minimum Profile Length: 350 mm (13.77 in.)

- Minimum Profile Length: (interior angle) 550 mm (21.65 in.)

- Machine Length: 8750 mm (28.70 ft.)
- Machine Width: 1700 mm (66.92 in.)

- Minimum Profile Length: (exterior angle) 240 mm (9.44 in.)
- Machine Height: 2000 mm (66.92 in.)

- Machine Weight: 1800 kg. (3,970 lbs.)

- For aluminum profiles cutting.
- · Saw heads can cut inward or outward.
- Angles between 45° 90° and 90° 135° can be adjusted manually.
- Length, angle and cutting accuracy thanks to strong construction and linear bearing system.
- 500 mm (19.69 in.) diameter saw blade enables accurate cutting of different profile sizes.
- More precise and serial cutting by tolerating failures which are caused by profile with automatic profile measurement system during outward cutting process.
- 4500 mm (177.16 in.) Maximum Cutting Length standard.
- · Automatic positioning of the mobile head by means of a PLC control system with touch panel.
- Item number, length dimensions, angles and quantities can be programmed on the control panel. (2000 x 10 data points: able to cut in different program)
- Data transfer by means of network connection or USB.
- · Adjustable saw movement speed.
- · Continues where it left by switching among different cutting.
- Profile support conveyor on mobile head balances the profile being worked on.
- In long-length profile cutting, automatic support mechanisms which work between the fixed and mobile head prevents profile deflection and provides smooth and precise cutting.
- Horizontal and vertical clamping system to ensure optimum profile clamping.
- Filter-Regulator-Lubricator for incoming air supply.
- · Pulse spray mist blade lubricant system.

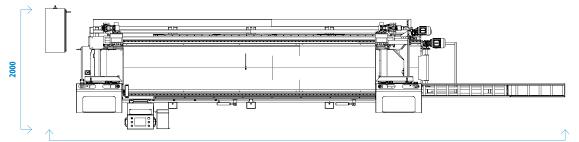
- Dust and Chips extraction system (ES 024)
- Profile support conveyor (TK 065)
- Machine can be produced for 6,000 mm (236.22 in.) and 7,500 mm (295.27 in.) Maximum Cutting Lengths upon request
- Label printer (AK 003)
- Hydro-Pneumatic Saw Blade Feeding Device. (AH 042)
- Aluminum wedge cutting. (AH 025)



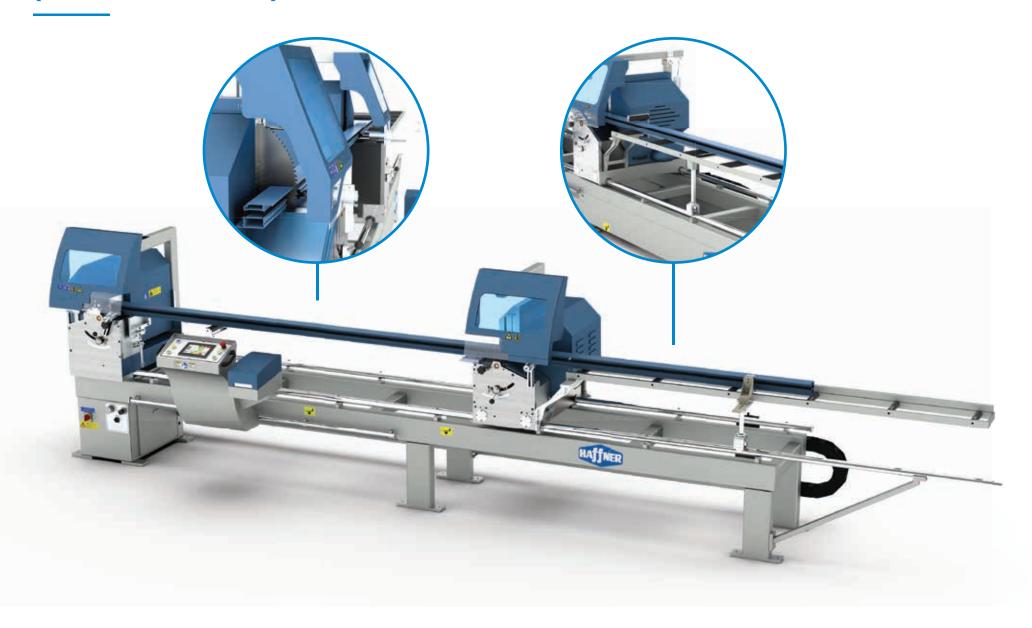




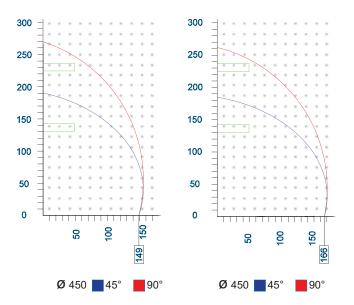


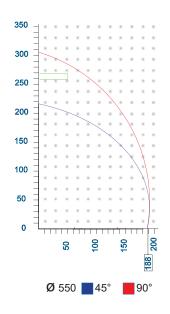


TT-405/415 Double Head Mitre Saw (Ø:450 mm - 17.71 in.)



TT-405/415 Double Head Mitre Saw (Ø:450 mm - 17.71 in.)





Technical Features

- Power Supply: 400V, 3 ~, 50/60 Hz
- · Total Power Output: 5 kW
- Spindle Speed: 2800 rpm (50 Hz), 3360 rpm (60 Hz)
- Saw Blade Motor Power: 2.2 kW (2.94 hp.)
- Air Pressure: 6-8 bar (90-120 psi)
- Air Consumption: 120 I/Min. (4.23 cfm)
- Maximum Profile Length: 4200 mm (165.35 in.)

- Minimum Profile Length: 450 mm (17.71 in.)
- Minimum Wedge Profile Length: 4.8 mm (0.19 in.)
- Machine Height: 1550 mm (61.02 in.)
- Machine Length: 4950 mm (194.88 in.) + 2600 mm (102.36 in.)
- Profile Support Conveyor
- Machine Width: 1400 mm (55.11 in.)
- Machine Weight: 755 kg (1,665 lbs.)

* Consult factory for lengths and specifications not mentioned above.











1

- Aluminum profile cutting with 450 mm (17:71 inch) saw blade diameter
- · Aluminum profiles cutting.
- Solid cast construction for length and angle accuracy.
- · Ultimate cutting quality.
- Ability to cut 4200 mm in length.
- Automatic tilt movement of the saw heads to 45° and 90°. Angles between 45° and 90° can be adjusted manually and fixed easily.
- Moving head automatically takes position by PLC control system with touch panel.
- Piece numbers, length dimensions, angular positions and quantities can be programmed on the control panel (2000 x 10 different data can be stored).
- Data transfer is available via network connection or USB interface.
- The saw blade feed speed can be adjusted.
- The control system can skip and then continue the cutting order.
- Profile support conveyor fixed to the movable head helps to keep the balance of the work piece.
- Automatic closing safety hood.
- Horizontal and vertical clamping system ensure optimum profile fixing.
- Pulse spray mist blade lubricant system

OPTIONAL

- Label printer (AK-003)
- Aluminum wedge cutting (AH-025)
- Short and long cut system for 7000 mm (275.59 in.) profile cutting (AH-046)
- Automatic arrow head positioning (AH-044)
- Extraction system
- 6000 mm (236.22 in.) Cutting length

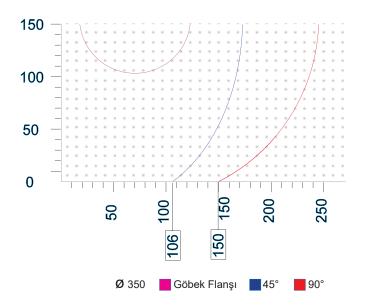
TT-415 See TT-405 However;

- Machine Height: 1560 mm (61.41 in.)
- Machine Length: 5100 mm (200.78 in.) + 2630 mm (103.54 in.) profile support conveyor
- Machine Width: 1600 mm (62.99 in.)
- Machine Weight: 900 kg (1,985 lbs.)
- Minimum Cutting Length: 550 mm (21.65 in.)
- OPTIONAL
- Servo controlled cutting between 45°- 90° tilt angle with an accuracy of \pm 0.1°

TT-352 Double Head Mitre Saw (Ø:350 mm - 13.77 in.)



TT-352 Double Head Mitre Saw (Ø:350 mm - 13.77 in.)



Technical Features

- Power Supply:400V, 3 ~, 50/60 Hz
- Total Power Output: 2.2 kW (1.47 hp)
- Spindle Speed: 2800 rpm (50 Hz), 3360 rpm (60 Hz.)
- Air Pressure: 6-8 bar (90-120 psi)
- Air Consumption: 120 I/Min (4.23 cfm)
- Maximum Cutting Length: 3700 mm (145.66 in.)

- Minimum Cutting Length: 410 mm (16.14 in.)
- Machine Height (incl. display): 1750 mm (68.89 in.)
- Machine Length: 4500 mm (177.16 in.)
- Machine Width: 1050 mm (41.33 in.)
- Machine Weight: 425 kg (940 lbs.)

- Aluminum profile cutting with 350 mm (13.77 in.) saw blade diameter.
- The movable head can be manually positioned to the desired length using the digital display and is pneumatically locked.
- Vertical pneumatic clamps ensure optimum profile clamping.
- Digital display for setting finished cut length.
- Pivoting range up to 45° left and right allows internal and external operations.
- The pivoting range between 45°-135° can be infinitely adjusted and locked by manual clamping.
- Location points at $\pm 60^\circ$, $\pm 67.5^\circ$, and $\pm 75^\circ$ make it easy to adjust the head to the most common angles.
- The saw blade feed speed can be adjusted.
- Two-hand safety controls and protective guards increase working safety.
- Filter-Regulator-Lubricator for incoming air supply.
- Pulse spray mist blade lubricant system.

- 6m (236.22 in.)Cutting Length
- Hydro-Pneumatic System for aluminum profiles. (AH 041)





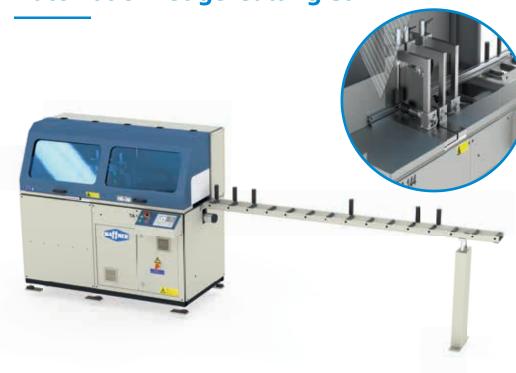




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2.2kW

TA-144 Automatic Wedge Cutting Saw



Technical Features

- Power Supply: 400 V, 3 ~, 50/60 Hz
- Total Power Output: 7 kW
- Saw Blade Motor Power: 5 kW
- Spindle Speed: 2800 rpm (50 Hz), 3360 rpm (60 Hz)
- Air Pressure: 6-8 bar (90-120 psi)
- Air Consumption: 100 liter/Min. (3.53 cfm)
- Maximum Profile Length: 5000 mm (196.85 in.)
- Minimum Profile Length: 5 mm (0.197 in.)

- Saw Blade Diameter: 600 mm (23.62 in.)
- Machine Height: 1700 mm (66.92 in.)
- Machine Length: 2000 mm (78.74 in.) (+2900 mm (114.17 in.) conveyor)
- Machine Width: 1100 mm (43.30 in.)
- Machine Weight: 1100 kg (2,425 lbs.)

- · CNC control system.
- Profile feed length, profile feed speed, cutting height and blade feed speed are controlled by servo motors.
- Servo motors profile system can adjust feed speed according to the profile weight.
- Maximum speed and ultimate accuracy with servo motor system; \pm 0.1 mm (\pm 0.004 in.) cutting accuracy.
- Maximum surface quality and dimensional accuracy with "Clean cut" system.
- Horizontal and vertical pneumatic profile clamping system.
- 3000 mm (118.11 in.) infeed roller conveyor.
- · Ability to do automatic slicing.
- Ability to create a cutting list.
- Cutting list data transfer is available via network connection or USB interface.
- Safety cover with window inserts and safety switch protection.
- · Touchscreen 'PLC'.
- Filter-Regulator-Lubricator for incoming air supply.
- Pulse spray mist blade lubricant system.

- Left and right roller stock conveyor system (TK 060)
- 3m (118.11 in.) Right hand roller stock conveyor & measuring stop (TK 061)
- 3m (118.11 in.) Left hand roller stock conveyor & measuring stop (TK 062)
- Automatic measuring and positioning system (MS 300)
- Hydro-Pneumatic System for Aluminum profiles. (AH 041)

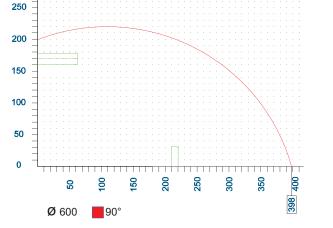












TA-133 Single Head Mitre Saw (Ø:420 mm - 16.53 in.)



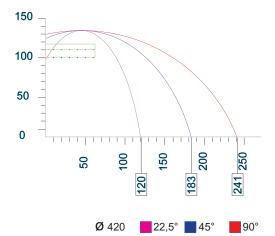
Technical Features

- Power Supply: 400 V, 3 ~, 50/60 Hz
- Total Power Output: 2.2 kW (2.94 hp)
- Spindle Speed: 2800 rpm (50 Hz), 3360 rpm (60 Hz)
- Air Pressure: 6-8 bar (90-120 psi)
- Air Consumption: 100 liter/Min. (3.53 cfm)
- Maximum Cutting Lenght: 3000 mm

- Machine Height: 1330 mm (52.36 in.)
- Machine Length: 750 mm (29.52 in.)
- Machine Width: 830 mm (32.67 in.) + 130 mm (5.11 in.)
 Cooling System
- Machine Weight: 225 kg (496 lbs.)

- For Aluminum profiles cutting.
- Pneumatic saw blade feed from below with a 420 mm (16.53 in.) diameter saw blade.
- The saw blade feed speed can be adjusted.
- Wide cutting angle range from 22.5° to 157.5° with special location points at 45°, 90° and 135°.
- Vertical pneumatic clamps ensure optimum profile clamping.
- Filter-Regulator-Lubricator for incoming air supply.
- Pulse spray mist blade lubricant system.

- Left and right roller stock conveyor system (TK 060)
- 3m (118.11 in.) Right hand roller stock conveyor & measuring stop (TK 061)
- 3m (118.11 in.) Left hand roller stock conveyor & measuring stop (TK 062)
- Automatic measuring and positioning system (MS 300)
- Hydro-Pneumatic System for Aluminum profiles. (AH 041)
- * Consult factory for lengths and specifications not mentioned above.



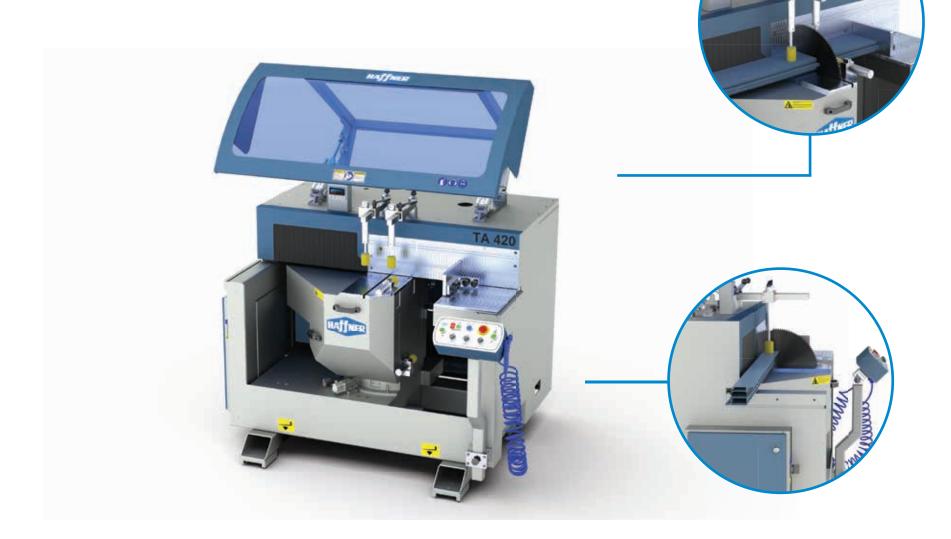




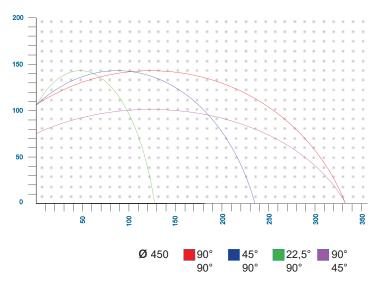


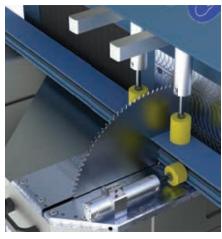
6-8 Bar

TA-420 Mitre Saw



TA-420 Mitre Saw



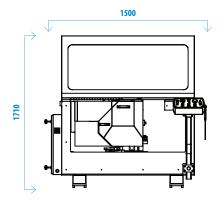


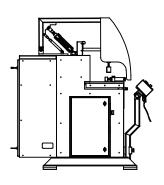
- It has solid construction for length and angle precision.
- Automatic 45° and 90° tilt movement of the saw heads. Angles between 45° and 90° manually loaded and loaded, offering superior cut quality.
- Manual rotation can be adjusted with left and right digital display up to 22.5 $^{\circ}$
- 450 mm saw blade enables cutting of wide profiles.
- Saw blade adjustable speed.
- Profile support conveyor fixed to the moving head helps to keep the balance of the workpiece. It has automatic closing safety.
- Horizontal and vertical clamping system provides optimum profile fixation. There is a cooling system for aluminum profiles.

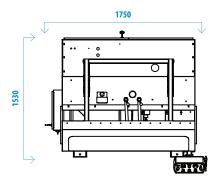
Technical Features

- Power Supply: 400 V, 3 ph, 50/60 Hz
- Total Power Output: 5 kW, 10 A
- Air Pressure: 6-8 bar (90-120 psi)
- Spindle Speed: 2800 rpm (50 Hz), 3360 rpm (60 Hz.)
- Air Consumption: 60 l/Min (with Cooling System 100 liter/min.)

- Machine Height (incl. display): 1710 mm (67.32 in.)
- Machine Length: 4610 mm (5.12 ft.) Without Conveyor: 1500mm (59.05 in.)
- Machine Width: 1750 + 355 mm (68.89 in. + 13.97 in.) When Protective Cover Opened
- Machine Weight: 1300 kg













TA-141 Single Head Mitre Saw (Ø:350 mm-13.77 in.)





Technical Features

- Power Supply: 400V, 3 ∼, 50/60 Hz
- Total Power Output: 2.2 kW (2.94 hp)
- Spindle Speed: 2800 rpm (50 Hz), 3360 rpm (60 Hz)
- Air Pressure: 6-8 bar (90-120 psi)
- Maximum Cutting Length: 3000 mm

- Air Consumption: 95 I/Min. (3.35 cfm)
- Machine Height: 1300 mm (51.18 in.)
- Machine Length: 800 mm (31.49 in.)
- Machine Width: 700 mm (27.55 in.)
- Machine Weight: 195 kg (430 lbs.)
- * Consult factory for lengths and specifications not mentioned above.







6-8 Bar

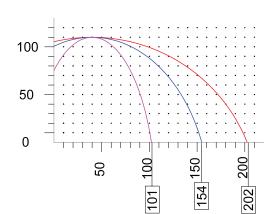
2.2kW

• For aluminum profiles cutting.

- Pneumatic saw blade feed from below with 350 mm (13.77 in.) saw blade diameter.
- The saw blade feed speed can be adjusted.
- Wide cutting angle range from 22.5° to 157.5° with special location points at 45°, 90° and 135°.
- Vertical pneumatic clamps ensure optimum profile clamping.
- Filter-Regulator-Lubricator for incoming air supply.
- Pulse spray mist blade lubricant system.

OPTIONAL

- Left and right roller stock conveyor system (TK 060)
- 3m (118.11 in.) Right hand roller stock conveyor & measuring stop (TK 061)
- 3m (118.11 in.) Left hand roller stock conveyor & measuring stop (TK 062)
- Automatic measuring and positioning system (MS 300)
- Hydro-Pneumatic System for aluminum profiles. (AH 041)







MS-300 Digital Measuring and Stop System



Technical Features

- Power Supply: 230V, 3 ~, 50/60 Hz
- Total Power Output: 0.37 kW
- Maximum Profile Length: 3000 mm (118.11 in.)
- Maximum Profile Width: 200 mm (7.87 in.)
- Machine Height: adjustable from 800 1000 mm (31.49 39.37 in.)
- Machine Length: 3715 mm (146.25 in.)
- Machine Width: 500 mm (19.69 in.)
- Machine Weight: 150 kg (330 lbs.)

- Automatic positioning of the sliding stop to the desired length enables accurate cutting.
- The linear bearing system enables fast positioning.
- Digital automatic measuring is enabled by PLC control system with touch panel operating system.
- Data transfer is available via network connection or USB interface.
- Piece numbers, length dimensions, angular position and quantities can be programed on the control panel.
- (2000 x 10 different data points can be stored)
- The conveyor height can be adjusted to match the cutting machine.
- Remote data transfer with Bluetooth communication.
- Compatible with TA-420, TA-133 and TA-141 saws.





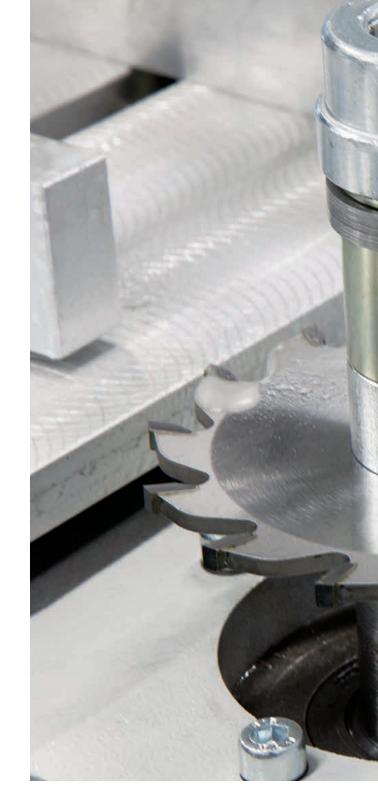


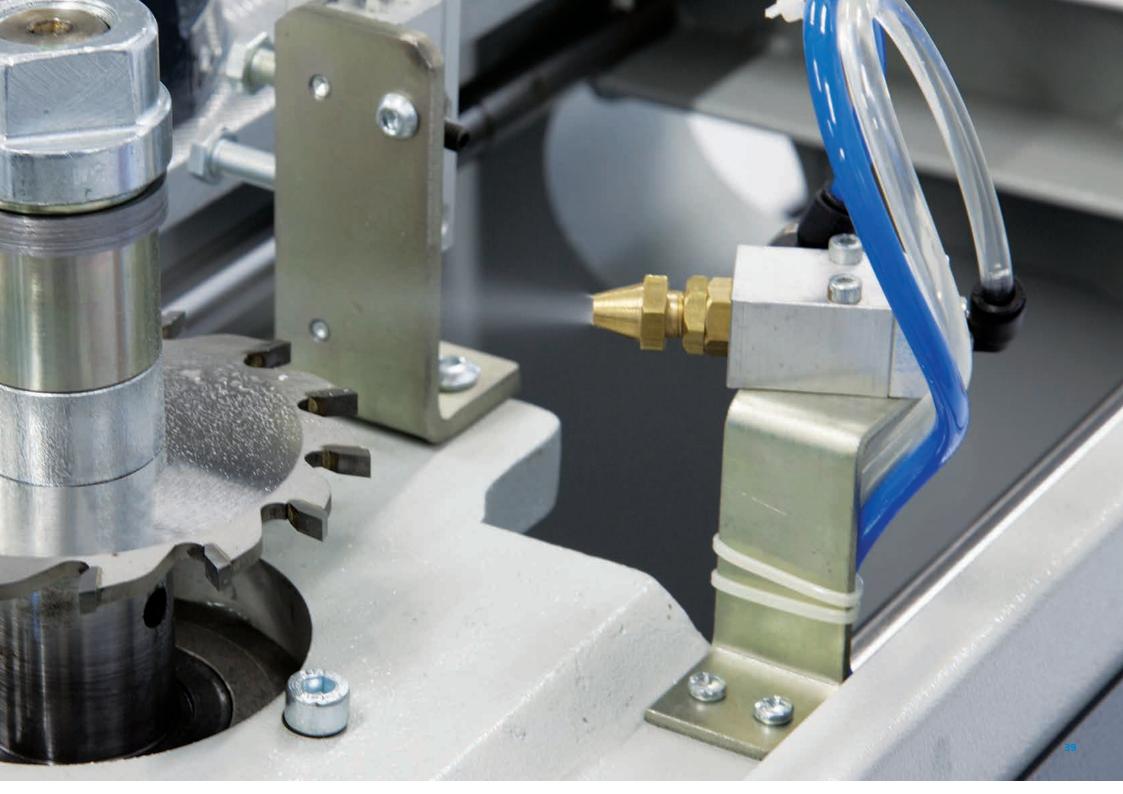
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0.37k

Routers & Drills & Corner Crimping Machines

FU-440	39
FU-460	40
FU-465	41
FA-154	42
FA-533	43
HP-114	44





FU-440 Copy Router



- Routing of door handle holes, lock cylinders and drain slots on aluminum profiles.
- Template free depth adjustment and routing on two axes with measurement scale rod.
- Manual two-stepped copy finger for 5 mm (0.19 in.) and 8 mm (0.31 in.) cutter diameters.
- Cooling system for aluminum profiles. (AS 021)
- 1:1 ratio transfer of the pattern from a template onto the profile.
- Precise routing with minimal effort and simple operation.
- Frequency controlled (inverter) high speed motor.
- Pneumatic profile clamping.

OPTIONAL

• Centering device for copy routers (TK 063)





- Power Supply: 230V, 3 ~, 50/60 Hz
- Total Power Output of Each Motor: 1.1 kW (1.47 hp)
- Spindle Speed: 12000 rpm
- Routing Capacity: 250 x 100 mm (9.84 x 3.93 in.)
- Stroke: 100 mm (3.93 in.)
- Maximum Profile Section Dimensions: 110 mm x 100 mm (4.33 x 3.93 in.)
- Air Pressure: 6-8 bar (90-120 psi)

- Air Consumption: 10 I/Min (0.35 cfm)
- Machine Length: 620 mm (24.40 in.) (+1000 mm (39.37 in.) (Right & Left Profile Support Conveyor)
- Machine Height: 1650 mm (64.96 in.)
- Machine Width: 450 mm (17.71 in.)
- Machine Weight: 70 kg (155 lbs.)

FU-460 Copy Router with Triple Drill



Technical Features

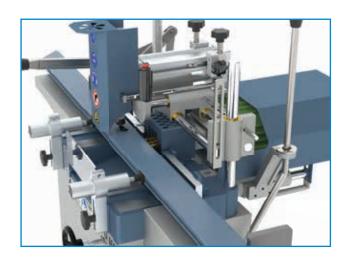
- Power Supply: 400V 3 ~, 50/60 Hz
- Total Power Output: 2 kW
- Spindle Speed: 12000 rpm
- Drill Spindle Speed: 930 rpm
- Router Power Output: 0.75 kW (1 hp.)
- Triple Drill Power Output: 1.1 kW (1.47 hp.)
- Routing Capacity: 250 x 100 mm (9.84 x 3.93 in.)
- Stroke: 100 mm (3.93 in.)
- Maximum Profile Section Dimensions: 110 x 100 mm (4.33 x 3.93 in.)

- Air Pressure: 6-8 bar (90-120 psi)
- Air Consumption: 10 l/Min (0.35 cfm)
- Machine Height: 1650 mm (64.96 in.)
- Machine Length: 630 mm (24.80 in.) (+1000 mm (39.37 in.) (Right & Left Profile Support Conveyor)
- Machine Width: 900 mm (35.43 in.)
- Machine Weight: 105 kg (235 lbs.)

- Routing of door handle holes, lock cylinders and drain slots on aluminum profiles.
- Possibility of template-free depth adjustment and routing on two axes with measurement scale rods.
- Triple spindle drilling of profiles with reinforcement steel by manual feed.
- Routing of door handle holes, lock cylinders and drain slots on PVC profiles.
- Manual two stepped copy finger for 5 mm (0.19 in.) and 8 mm (0.31 in.) cutter diameters.
- 1:1 ratio transfer of the pattern from a template onto the profile.
- Precise routing with minimal effort and simple operation.
- Frequency controlled (inverter) high speed motor.
- Cooling system for aluminum profiles. (AS 021)
- Long lasting specially coated drills.
- · Pneumatic profile clamping.

OPTIONAL

• Centering device for copy routers (TK 063)



FU-465 Copy Router with Triple Drill & Milling



Technical Features

- Power Supply: 400V, 3 ∼, 50/60 Hz
- Total Power Output: 3.5 kW
- Spindle Speed: 12000 rpm
- Drill Spindle Speed: 930 rpm
- Router Power Output: 0.75 kW (1.00 hp.)
- Triple Drill Power Output: 1.1 kW (1.47 hp.)
- Milling Power Output: 1.5 kW (2.01 hp.)
- Routing Capacity: 250 x 100 mm (9.84 x 3.93 in.)
- Stroke: 100 mm (3.93 in.)

- Air Pressure: 6-8 bar (90-120 psi)
- Air Consumption: 50 l/Min (1.76 cfm)
- Machine Height: 1650 mm (64.96 in.)
- Machine Width: 1000 mm (39.37 in.)
- Machine Length: 840 mm (33.07 in.) (+1000 mm (39.37 in.) conveyor)
- Machine Weight: 140 kg. (310 lbs.)
- Maximum Profile Section Dimensions: 110 x 100 mm (4.33 x 3.93 in.)

- Routing of door handle holes, lock cylinders and drain slots on aluminum profiles.
- Template-free depth adjustment and routing on two axes with measurement scale rod.
- Triple spindle drilling of profiles with reinforcement steel by manual feed.
- Pulse spray mist blade lubricant system.
- · Automatic espagnolette and lock canal milling.
- 1:1 ratio transfer of the pattern from a template onto the profile.
- Precise routing with minimal effort and simple operation.
- Frequency-controlled (inverter) high speed motor.
- Manual two-step copy finger for 5 mm (0.19 in.) and 8 mm (0.31 in.) cutter diameters.
- · Pneumatic profile clamping.

OPTIONAL

• Centering device for copy routers (TK 063)



FA-154 End Milling Machine



- Power Supply: 400V, 3 ~, 50/60 Hz
- Total Power Output: 1.1 kW
- Maximum Blade Diameter: 160 mm (6.29 in.)
- Spindle Speed: 2800 rpm (50 Hz), 3360 rpm (60 Hz)
- Maximum Routing Height: 90 mm (3.54 in.)
- Maximum Routing Depth: 30 mm (1.18 in.)
- Maximum Profile Width: 120 mm (4.72 in.)
- Maximum Profile Height: 90 mm (3.54 in.)

- Air Pressure: 6-8 bar (90-120 psi)
- Air Consumption: 70 l/Min (2.47 cfm)
- Machine Height: 1220 mm (48.03 in.)
- Machine Length: 960 mm (37.79 in.)
- Machine Width: 820 mm (32.28 in.)
- Machine Weight: 75 kg (165 lbs.)

- For end milling of transom in aluminum profiles.
- Automatic feed of the milling unit.
- Able to route at varying angles up to 45° left and 30° right.
- Vertical and horizontal pneumatic profile clamping system enables optimum profile holding.
- Pulse spray mist blade lubricant system.
- Hydro-pneumatic milling blade feed system.



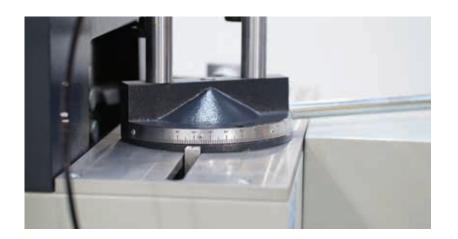
FA-533 End Milling Machine



- Power Supply: 400V, 3 ~, 50/60 Hz
- Total Power Output: 1.1 kW
- Maximum Blade Diameter: 160 mm (6.29 in.)
- Spindle Speed: 2800 rpm (50 Hz), 3360 rpm (60 Hz)
- Maximum Routing Height: 90 mm (3.54 in.)
- Maximum Routing Depth: 30 mm (1.18 in.)
- Maximum Profile Width: 120 mm (4.72 in.)

- Maximum Profile Height: 90 mm (3.54 in.)
- Air Pressure: 6-8 bar (90-120 psi)
- Air Consumption: 70 l/Min (2.47 cfm)
- Machine Height: 1220 mm (48.03 in.)
- Machine Length: 960 mm (37.79 in.)
- Machine Width: 820 mm (32.28 in.)
- Machine Weight: 95 kg (200 lbs.)

- For end milling of transom in aluminum profiles.
- Two different series of transom profiles can be processed without changing the cutter set.
- Vertical and horizontal pneumatic profile clamping system enables optimum work piece holding.
- Able to route at varying angles up to 45° left and 30° right.
- Tools are positioned by a pneumatic feed cylinder.
- Automatic milling unit feed.
- The saw blade feed speed can be adjusted.
- Pulse spray mist blade lubricant system.
- Hydro-pneumatic milling blade feed system.



HP-114 Corner Crimping Machines

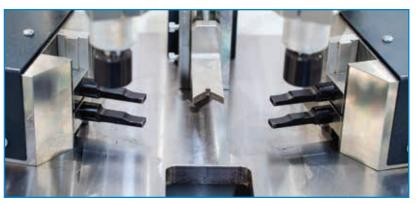


- Power Supply: 400V, 3 ~, 50/60 Hz
- Total Power Output: 3.0 kW
- Hydraulic Pressure: 150 bar (2,175.56 psi)
- Pressing Power: 6500 kgf. (14,330.04 lbf.)
- Minimum Profile Height: 15 mm (0.59 in.)
- Maximum Profile Height: 90 mm (3.54 in.)
- Maximum Profile Width: 140 mm (5.51 in.)

- Machine Height: 1300 mm (51.18 in.)
- Machine Length: 1020 mm (40.16 in.)
- Machine Width: 1050 mm (41.34 in.)
- Machine Weight: 300 kg (662 lb.)

- Joins the corners of aluminum profiles by crimping the corner of the profile into the wedge.
- Hydraulic operating system sustains high pressure power.
- Two vertical pneumatic clamps work with hydraulic pressure for maximum profile fixation.
- Able to work with all types of profiles.
- The crimping blades can be adjusted easily with a magnetic fixation system.
- The support is lowered hydraulically for easy loading and off-loading of work pieces.
- The magnetic support block enables easy adjustment.
- Step by step control of the operation using a foot pedal.





Assembly Machines

CT-303	47
KT-804	48
KT-805	40



CT-303 Glass Assembly Machine

- Fast assembly of windows, doors and elements.
- Maintenance and accurate balance by means of parallel clamping unit.
- The upwards slide movement of the table eases working on the frames.
- The frame can be packed and then transferred effortlessly by sliding on the reels.



- Maximum Frame Height: 2000 mm (78.74 in.)
- Maximum Frame Length: 2360 mm (92.91 in.)
- Maximum Frame Weight: 120 kg (265 lb.)
- Air Pressure: 6-8 bar (90-120 psi)
- Air Consumption: 50 I/Min (1.77 cfm)

- Machine Height: 2250 mm (88.58 in.)
- Machine Length: 3000 mm (118.11 in.)
- Machine Width: 1000 mm (39.37 in.)
- Machine Weight: 410 kg (904 lb.)



KT-804 Sash Assembly Machine

- Punch unit for cropping the single or tilt and turn espagnolette latches as well as scissor hinges according to sash dimension without measuring.
- Serial and high quality standard assembly of single or tilt and turn opening system window and door sashes in various dimensions.
- Optimization of sash assembling by combination of different processes at one table.
- Triple drilling for handles and milling for espagnolette latch canals with easy positioning of the tools.
- Automatic screwing unit with height adjustment for espagnolette latches and scissor hinges.
- Drilling of hinge holes without measuring for the location.
- The work table can be shifted 15° for ergonomic working.
- Standard equipped with shelves for hardware and other tools.









- Power Supply: 400V, 1~, 50/60 Hz
- Triple Drill Power Output: 1.1 kW (1.47 hp)
- Milling Power Output: 1.1 kW (1.47 hp)
- Triple Drill Spindle Speed: 900 rpm
- Maximum Inner Frame Size: 2260 mm (88.97 in.) x 2260 mm (88.97 in.)
- Minimum Inner Frame Size: 270 mm (10.62 in.) x 270 mm (10.62 in.)
- Maximum Profile Height: 90 mm (3.54 in.)
- Maximum Profile Width: 100 mm (3.94 in.)
- Minimum Profile Width: 42 mm (1.65 in.)
- Screw Head Diameter: 5 9.8 mm (0.20 0.39 in.)
- Screw Length: 10 35 mm (0.39 1.38 in.)
- Air Pressure: 6-8 bar (90 120 psi)

- Air Consumption: 80 I/Min (2.83 cfm)
- Machine Height: 2150 mm (84.64 in.)
- Machine Length: 3500 mm (137.79 in.)
- Machine Width: 2880 mm (113.38 in.)
- Machine Weight (net): 950 kg (2,094 lb.)

















2260 mm

KT-805 Sash Assembly Machine

- Serial and high quality standard assembly of single or tilt and turn opening system window and door sashes in various dimensions.
- Sash assembly duration is shortened by combining of different processes at one table.
- Punch unit for cropping the single or tilt and turn espagnolette latches as well as scissor hinges according to sash dimension without measuring.
- Automatic screwing unit with height adjustment for espagnolette latches and scissor hinges.
- Drilling of hinge holes via measuring apparatus, which standardizes the process.
- The work table can be shifted 15° for ergonomic working.
- Equipped with shelves for hardware and other tools.





- Power Supply:230V, 1~, 50/60 Hz
- Total Power Output:100V, 1.1A
- Maximum Frame Size: 2400 x 2100 mm (94.49 x 82.68 in.)
- Minimum Frame Size: 250 x 250 mm (9.84 x 9.84 in.)
- Maximum Profile Height: 90 mm (3.54 in.)
- Maximum Profile Width: 95 mm (3.74 in.)
- Minimum Profile Width: 40 mm (1.57 in.)

- Screw Head Diameter: 5 9.8 mm (0.20 0.31 in.)
- Screw Length: 25 30 mm (0.98 1.18 in.)
- Air Pressure: 6-8 bar (90 120 psi)
- Machine Height: 2150 mm (84.64 in.)
- Machine Length: 3500 mm (137.79 in.)
- Machine Width: 2880 mm (113.38 in.)
- Machine Weight: 800 kg (1,763 lb.)







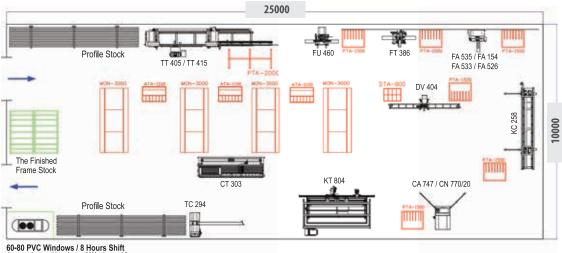




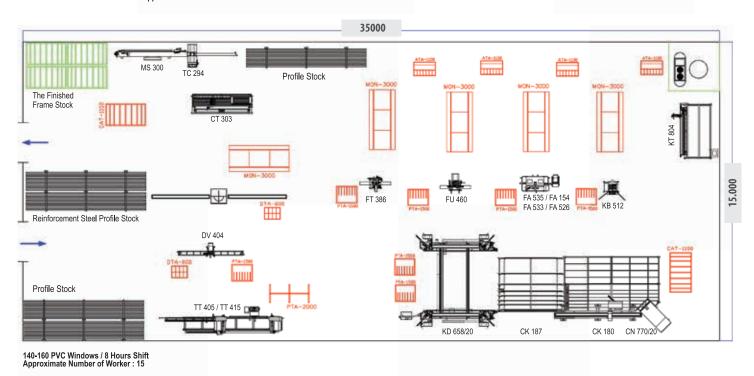


2400x2100mm

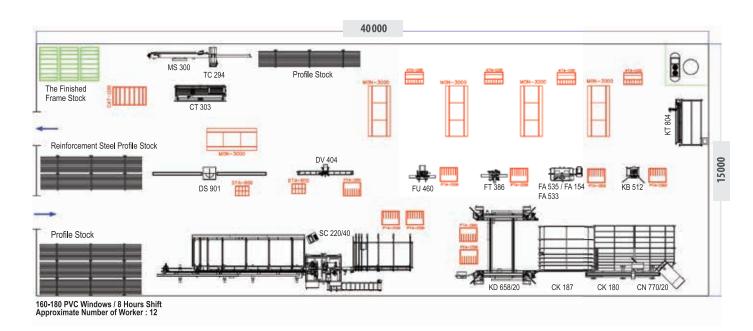
Production Layouts

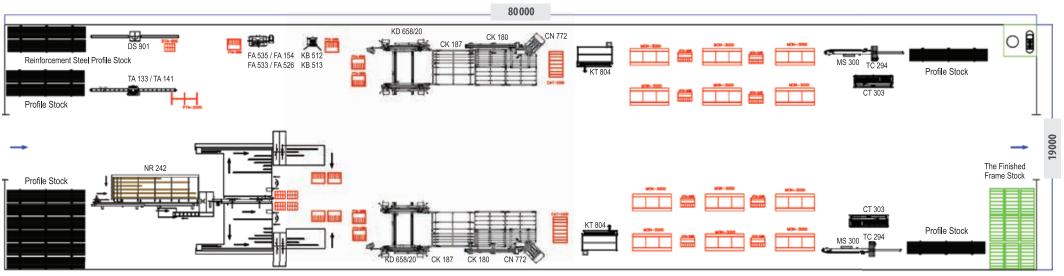


60-80 PVC Windows / 8 Hours Shift Approximate Number of Worker : 12



50





220-250 PVC Windows / 8 Hours Shift Approximate Number of Worker : 25

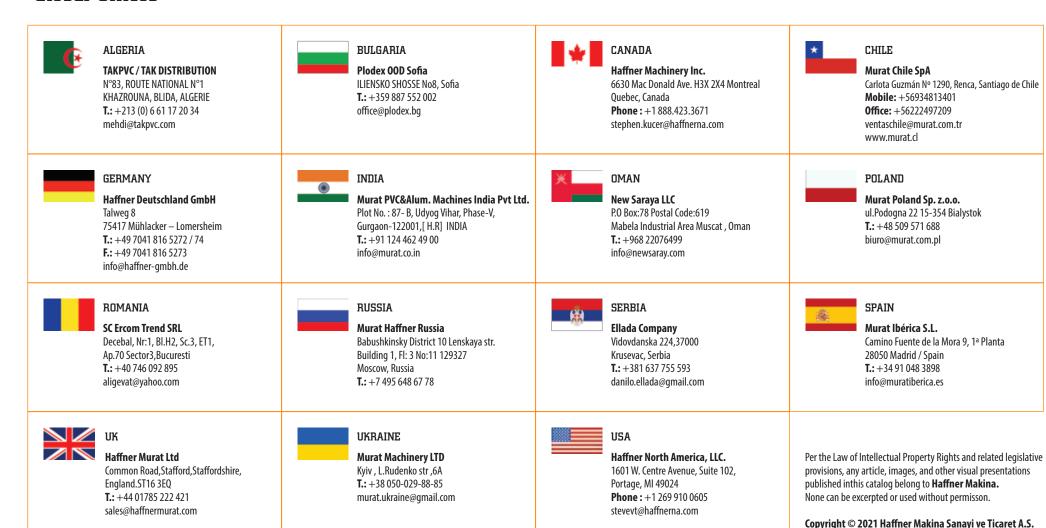
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NOTE	

Global Offices







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