









Özçelik Makina continuously improves its products and offers new and modern solutions for PVC and Aluminum Profile Processing. Accordingly, Özçelik reserves the right to change the information in this document without notice. All dimensions and weights are reference values. Valid from January 2023

2044 mm

## **GARNET Mini**

3 Axis NC Compact Processing Center with Copy Router Function

## **MACHINING LENGTHS**

Y Axis (Lateral)150 mmZ Axis (Vertical)120 mmPOSITIONING SPEEDXX Axis (Longitudinal)30 m/minY Axis (Lateral)30 m/minZ Axis (Vertical)30 m/minZ Axis (Vertical)30 m/minAxis (Vertical)40 L / minELECTRICAL400 L / minMaximum power12 kWVoltage400 V 3P, PE ACFrequency50-60 HzSpindle with cooling fan3Maximum power3 kWMaximum power3 kWMaximum power3 kWMaximum power3 kWMaximum power3 kWMaximum power4 kWMaximum pow	MACHINING LENGTHS	
2 Axis (Vertical)         120 mm           POSITIONING SPEED         30 m/min           X Axis (Longitudinal)         30 m/min           2 Axis (Vertical)         30 m/min           2 Axis (Vertical)         30 m/min           X Axis (Vertical)         30 m/min           Axis (Vertical)         30 m/min           Aixis (Vertical)         40 U/min           Bittee         12 kW           Voltage         400 V3 P, PE AC           Frequency         50 60 H2           SPINDLE         Spindle with cooling fan         3           Spindle with cooling fan         3         3 kW           Maximum power         3         3 kW           Maximum power         3         8 kW           Tool holder         E 20         PCFLE POSITIONING           Right and left profile gauge         •         •           Laser marking	X Axis (Longitudinal)	350 mm
Posticulturinal (a gamma di gamma) 2 Axis (Longitudinal) 3 0 m/min 2 Axis (Lateral) 3 0 m/min 2 Axis (Lateral) 3 0 m/min 2 Axis (Vertical) 30 m/min 2 Axis (Vertical) 30 m/min 30 m/min 30 m/min 30 m/min 2 Axis (Vertical) 8 Bar Consumption 6 8 Bar Consumption 6 8 Bar Consumption 6 8 Bar Consumption 6 8 Bar Consumption 6 8 Bar 7 40 L / min ELECTRICAL Maximum power 6 9 Col L2 XW/ Voltage Prequency 5 0 60 Hz 5 PINDLE Spindle with cooling fan 3 Kar Maximum power 5 0 FOOLE 5 PINDLE Spindle with cooling fan 3 Kar Maximum power 5 0 Holder 5 PINDLE Spindle with cooling fan 3 Kar 1 8 000 pm 1 9 mm /- 2 max / Xmin (Lateral) 1 9 mm /- 2 max / Xmin (Lateral) 1 9 mm /- 2 max / Xmin (Vertical) 1 9 mm /- 2 mm /- 2 mm /- 2 mm /- 2 mm /-		150 mm
X Axis (Longitudinal)       30 m/min         Y Axis (Leteral)       30 m/min         Z Axis (Vertical)       30 m/min         AIR       Pressure         Pressure       6.8 Bar         Consumption       40 L / min         ELECTRICAL       12 kW         Maximum power       12 kW         Voltage       40 02 3 P E AC         Frequency       50-60 Hz         SPINDLE       Spindle with cooling fan         Spindle with cooling fan       3         Maximum power       3 kW         Maximum power       18 kD k	Z Axis (Vertical)	120 mm
Y Axis (Jateral)         30 m/min           Z Axis (Vertical)         30 m/min           AIR            Pressure         6.8 Bar           Consumption         40 L / min           ELECTRICAL            Maximup power         12 kW           Volage         400V 3P, PE AC           Frequency         50-60 Hz           SPINDLE            Spindle with cooling fan         3           Maximum power         3 kW           Maximum power         4 kW           Tool holder         E R2 o           PROFILE POSTIONING         •           Stype and left profile gauge         •           Laser marking         - / 660 mm	POSITIONING SPEED	
Z Axis (Vertical)       30 m/min         AIR         Pressure       6.8 Bar         Consumption       40 L / min         ELECTRICAL          Maximum power       12 k/m         Voltage       400 V 3P, PE AC         Frequency       50-60 Hz         SPINDLE          Spindle with cooling fan       3         Maximum power       3 k/m         Maximum power       3 k/m         Maximum power       3 k/m         Tool holder       ER 20         PROFILE POSITIONING       6         Right and left profile gauge       0         Laser marking       0         Ymax / Xmin (Longitudinal)       - / 660 mm         <	X Axis (Longitudinal)	30 m/min
AR Pressure 6.8 Bar Consumption 40 L / min ELECTRICAL Maximum power 12 kW Voltage 7.000 V3 P, PE AC Frequency 000 V3 P, PE AC Frequency 000 V3 P, PE AC Spindle with cooling fan 3 Maximum power 3 kW Maximum rotation speed 3 Maximum rotation speed 3 Maximum rotation speed 1 Col holder E P2 PROFILE POSITIONING Right and left profile gauge 4 Laser marking 0 PROFILE TIE-DOWN MEASUREMENTS Xmax / Xmin (Longitudinal) -/ 660 mm /- Xmax / Xmin (Longitudinal) -/ 660 mm /- Ymax / Ymin (Lateral) 150 mm /- CONTROL UNIT Touchscreen 0 CONTROL UNIT Touchscreen 0 Smat CAM post processing 0 CO PAGENTIONAL AREA Clamay, standard quantity 4 Automatic lubrication in processing area	Y Axis (Lateral)	30 m/min
Pressure       6-8 Bar         Consumption       40 L / min         ELECTRICAL       400 V 3P. EAC         Maximum power       12 kW         Voltage       400 V 3P. EAC         Frequency       50-60 Hz         SpinDLE       50-50 Hz         Spindle with cooling fan       3         Maximum power       3 kW         Maximum rotation speed       3 kW         Maximum rotation speed       18.000 rpm         Tool holder       ER 20         PROFILE POSITIONING       6         Right and left profile gauge       •         Laser marking       •         PROFILE TIE-DOWN MEASUREMENTS       •         Xmax / Xmin (Longitudinal)       - / 660 mm.         Ymax / Ymin (Lateral)       120 mm /-         Zmay Zmin (Vertica)       120 mm /-         CONTROL UNIT       •         Touchscreen       0°         Data transfer via USB       •         Smart CAM post processing       •         Camaps, standard quantity       4         Automatic lubrication in processing area       •	Z Axis (Vertical)	30 m/min
Consumption40 L / minELECTRICALMaximum power12 kWVolage4007 SP. PE ACFrequency50-60 HzSPINDLESpindle with cooling fan3Maximum power3 kWMaximum power3 kWMaximum power3 kWMaximum power18.000 rpmToch holderER 20PROFILE POSITIONINGRight and left profile gauge•Laser marking•PROFILE TIE-DOW MEASUREMENTS•Xmax / Xmin (Longitudinal)- / 660 mm /-Ymax / Xmin (Vertical)150 mm /-Zourtsoreen10"Duchscreen10"Duchscreen0Smart CAM post processing•OPERATIONAL AREA•Clamps, standard quantity4Automatic lubrication in processing area•	AIR	
ELECTRICAL         Maximum power       12 kW         Voltage       400V 3P, PE AC         Frequency       50-60 Hz         SPINDLE       50         Spindle with cooling fan       3         Maximum power       3 kW         Maximum notation speed       3 kW         Maximum rotation speed       18.000 rpm         Tool holder       ER 20         PROFILE POSITIONING       6         Right and left profile gauge       •         Laser marking       •         PROFILE TLE-DOWN MEASUREMENTS       •         Xmax / Xmin (Longitudinal)       - / 660 nm         Ymax / Xmin (Lateral)       150 m / -         Zmax / Zmin (Vertical)       150 m / -         CONTROL UNIT       120 cm / -         Touckscreen       10°         Data transfer via USB       •         Smart CAM post processing       •         OPERATIONAL AREA       •         Clamps, standard quantity       4         Automatic lubrication in processing area       •	Pressure	6-8 Bar
Maximum power12 kWVoltage400V 3P, PE ACFrequency50-60 H2SPINDLESpindle with cooling fan3Maximum power3 kWMaximum rotation speed18.000 rpmTool holderER 20PROFILE POSITIONING•Right and left profile gauge•Laser marking•PROFILE TIE-DOWN MEASUREMENTS•Xmax / Xmin (Longitudinal)- / 660 mmYmax / Ymin (Lateral)150 mm / -Zmax / Zmin (Vertical)100 mDotkscreen10°Data transfer via USB•Smart CAM post processing•COPERATIONAL AREA•Clamps, standard quantity4Automatic lubrication in processing area•	Consumption	40 L / min
Voltage400V 3P, PE ACFrequency50-60 HzSPINDLESpindle with cooling fan3Maximum power3 kWMaximum rotation speed18.000 rpmTool holderER 20PROFILE POSITIONING•Right and left profile gauge•Laser marking•PROFILE TIE-DOWN MEASUREMENTSXmax / Xmin (Longitudinal)-/ 660 mmYmax / Ymin (Lateral)150 mm /-Zmax/Zmin (Vertical)10"Data transfer via USB•Smart CAM post processing•CORTONL AREA•Clamps, standard quantity4Automatic lubrication in processing area•	ELECTRICAL	
Frequency       50-60 Hz         SpinDLE       Spindle with cooling fan       3         Maximum power       3 kW         Maximum rotation speed       18.000 rpm         Tool holder       ER 20         PROFILE POSITIONING       .         Right and left profile gauge       .         Laser marking       .         PROFILE TIE-DOWN MEASUREMENTS       .         Xmax / Xmin (Longitudinal)       . / 660 mm         Ymax / Xmin (Longitudinal)       . / 660 mm         Ymax / Xmin (Longitudinal)       . / 660 mm         Ymax / Xmin (Longitudinal)		
SPINDLE Spindle with cooling fan 3 Maximum power 3kW Maximum rotation speed 18.000 rpm Tool holder ER20 PROFILE POSITIONING Right and left profile gauge 4 Laser marking 4 PROFILE TIE-DOWN MEASUREMENTS Xmax / Xmin (Longitudinal) -/ 660 mm Ymax / Ymin (Lateral) 150 mm /- Zmax / Zmin (Vertical) 150 mm /- Zmax / Zmin (Vertical) 100 0 Smart CAM post processing 4 Smart CAM post processing 4 Clamps, standard quantity 4 Automatic lubrication in processing area		
Spindle with cooling fan3Maximum power3 kWMaximum rotation speed18.000 rpmTool holderER 20PROFILE POSITIONING•Right and left profile gauge•Laser marking•PROFILE TIE-DOWN MEASUREMENTS•Xmax / Xmin (Longitudinal)-/ 660 mmYmax / Ymin (Lateral)150 mm / -Zmax/Zmin (Vertical)120 mm / -CONTROL UNIT•Touchscreen10"Data transfer via USB•Smart CAM post processing•CPERATIONAL AREA4Automatic lubrication in processing area•	Frequency	50-60 Hz
Maximum power3 kWMaximum rotation speed18.000 rpmTool holderER 20PROFILE POSITIONING	SPINDLE	
Maximum rotation speed       18.000 rpm         Tool holder       ER 20         PROFILE POSITIONING       •         Right and left profile gauge       •         Laser marking       •         PROFILE TIE-DOWN MEASUREMENTS       •         Xmax / Xmin (Longitudinal)       -/ 660 mm         Ymax / Ymin (Lateral)       150 mm / -         Zmax/ Zmin (Vertical)       120 mm / -         CONTROL UNIT       10°         Data transfer via USB       •         Smart CAM post processing       •         OPERATIONAL AREA       4         Automatic lubrication in processing area       •	Spindle with cooling fan	3
Tool holderER 20PROFILE POSITIONINGER 20Right and left profile gauge•Laser marking•PROFILE TIE-DOWN MEASUREMENTS•Xmax / Xmin (Longitudinal)-/ 660 mmYmax / Ymin (Lateral)150 mm / -Zmax/ Zmin (Vertical)120 mm / -Zmax/ Zmin (Vertical)120 mm / -CONTROL UNIT10"Data transfer via USB•Smart CAM post processing•OPERATIONAL AREA4Clamps, standard quantity4Automatic lubrication in processing area•	•	3 kW
PROFILE POSITIONING Right and left profile gauge   Laser marking   PROFILE TIE-DOWN MEASUREMENTS  Xmax / Xmin (Longitudinal) -/ 660 mm Ymax / Ymin (Lateral) -/ 660 mm Ymax / Ymin (Lateral) -/ 660 mm Ymax / Ymin (Lateral) 150 mm /- Zmax / Zmin (Vertical) 150 mm /- Zmax / Zmin (Vertical) 150 mm /- CONTROL UNIT  Touchscreen 10" Data transfer via USB Compensition (USB 0)  OPERATIONAL AREA Clamps, standard quantity 4 Automatic lubrication in processing area		18.000 rpm
Right and left profile gauge       ●         Laser marking       ●         PROFILE TIE-DOWN MEASUREMENTS       ●         Xmax / Xmin (Longitudinal)       -/ 660 mm         Ymax / Ymin (Lateral)       150 mm /-         Zmax/ Zmin (Vertical)       150 mm /-         ZontrRol UNIT       120 mm /-         Touchscreen       10"         Data transfer via USB       ●         Smart CAM post processing       ●         OPERATIONAL AREA       ●         Clamps, standard quantity       4         Automatic lubrication in processing area       ●	Tool holder	ER 20
Laser marking•PROFILE TIE-DOWN MEASUREMENTSXmax / Xmin (Longitudinal)Ymax / Ymin (Longitudinal)Ymax / Ymin (Lateral)Xmax / Zmin (Vertical)CONTROL UNITTouchscreenTouchscreenOta transfer via USBSmart CAM post processingOPERATIONAL AREAClamps, standard quantityAutomatic lubrication in processing area•	PROFILE POSITIONING	
PROFILE TIE-DOWN MEASUREMENTS Xmax / Xmin (Longitudinal) -/ 660 mm Ymax / Ymin (Lateral) 150 mm /- Zmax / Zmin (Vertical) 150 mm /- Zmax / Zmin (Vertical) 120 mm /- CONTROL UNIT Touchscreen 0 10" Data transfer via USB 0 0 Smart CAM post processing 0 OPERATIONAL AREA Clamps, standard quantity 4 Automatic lubrication in processing area	Right and left profile gauge	•
Xmax / Xmin (Longitudinal)- / 660 mmYmax / Ymin (Lateral)150 mm / -Zmax/ Zmin (Vertical)120 mm / -CONTROL UNITTouchscreen10"Data transfer via USB•Smart CAM post processing•OPERATIONAL AREAClamps, standard quantity4Automatic lubrication in processing area•		٠
Ymax / Ymin (Lateral)150 mm / -Zmax / Zmin (Vertical)120 mm / -CONTROL UNIT10"Touchscreen10"Data transfer via USB0Smart CAM post processing0OPERATIONAL AREA4Clamps, standard quantity4Automatic lubrication in processing area•	PROFILE TIE-DOWN MEASUREMENTS	
Ymax / Ymin (Lateral)150 mm / -Zmax / Zmin (Vertical)120 mm / -CONTROL UNIT10"Touchscreen10"Data transfer via USB0Smart CAM post processing0OPERATIONAL AREA4Clamps, standard quantity4Automatic lubrication in processing area•	Xmax / Xmin (Longitudinal)	- / 660 mm
Zmax/ Zmin (Vertical)120 mm / -CONTROL UNIT10"Touchscreen10"Data transfer via USB•Smart CAM post processing•OPERATIONAL AREA0Clamps, standard quantity4Automatic lubrication in processing area•		
Touchscreen10"Data transfer via USB•Smart CAM post processing•OPERATIONAL AREAClamps, standard quantity4Automatic lubrication in processing area•	Zmax/ Zmin (Vertical)	120 mm / -
Data transfer via USB•Smart CAM post processing•OPERATIONAL AREAClamps, standard quantity4Automatic lubrication in processing area•	CONTROL UNIT	
Data transfer via USB•Smart CAM post processing•OPERATIONAL AREAClamps, standard quantity4Automatic lubrication in processing area•	Touchscreen	10"
OPERATIONAL AREA         Clamps, standard quantity         Automatic lubrication in processing area         •		
Clamps, standard quantity       4         Automatic lubrication in processing area       •	Smart CAM post processing	0
Automatic lubrication in processing area	OPERATIONAL AREA	
Automatic lubrication in processing area	Clamps, standard quantity	4
		•

• Standard o Optional

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