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CATALOGUE

KARA CNC Profile Cutting Machine



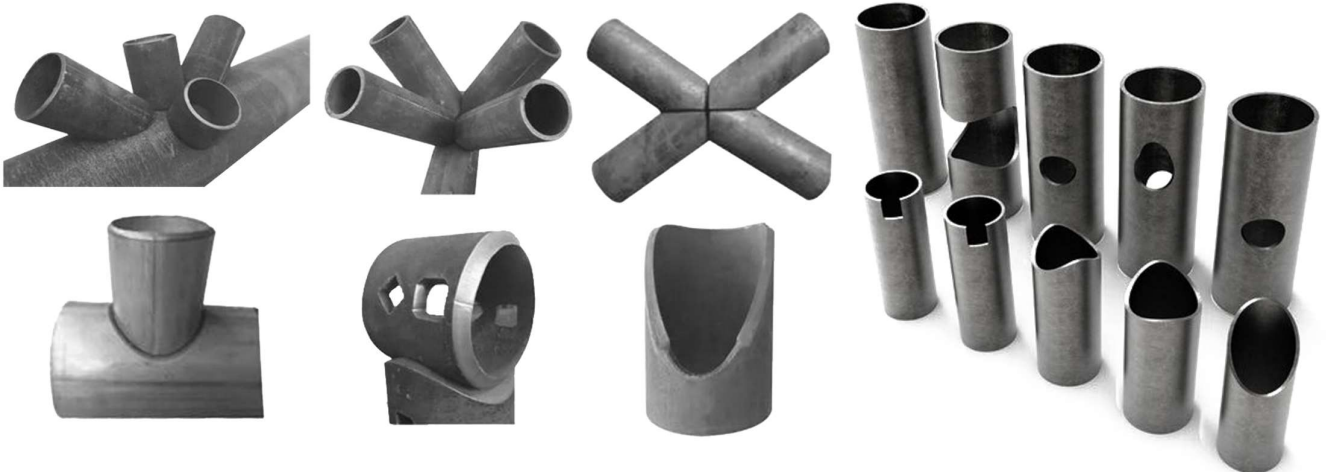
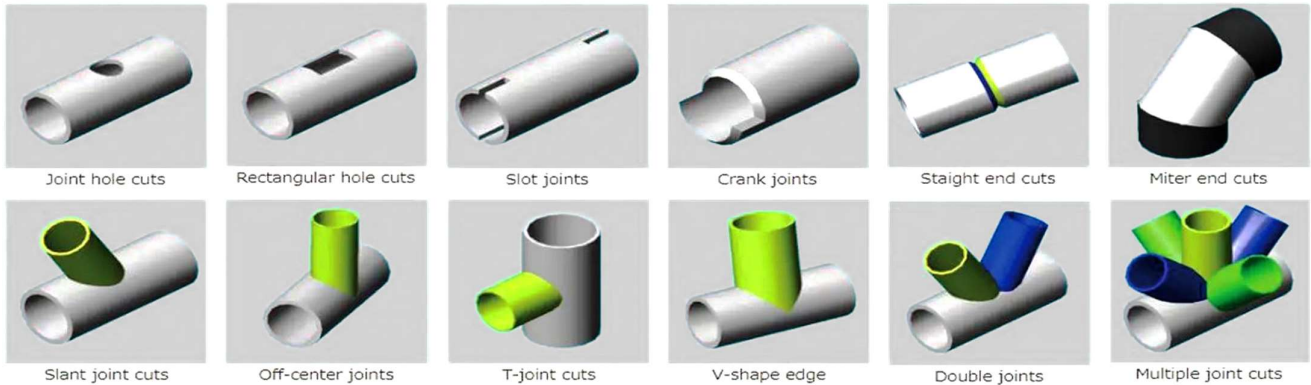


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KARA CNC Profile Cutting Machine

The CNC controlled Profile Cutting Machine allows wide working range from diameters 50 to 500mm and pipe lengths up to 4.000 mm or 12.000 mm (optional) using oxy-fuel or plasma. Advanced design and top-quality components enable fast and efficient cutting with top quality results. The most important feature and advantage is its user-friendly software which enables quick understanding and efficient use of this machine after a short training.





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Main Technical Specifications

1	Min. & Max. pipe diameter	50 – 500 mm
2	Min. & Max. profile diameter	50 x 50 mm / 350 x 350 mm
3	Min. & Max. beam diameter	100 x 100 mm / 350 x 350 mm
4	Max. work pies length	6000 mm (optional up to 12000 mm)
5	Max. work pies weight	1500 kg
6	Cutting method	Plasma
7	Plasma cutting power supply	KARA Plasma 200 A / 160 A or other brands
8	Work pies install-opening and closing	Manual with self-centering 4 jaw chuck
9	Work pies holder for pipe support	2 idler bed
10	Work pies hold profile support	Slewing bearing
11	Machine control system	Promax – Italy
12	Machine G code Generation	KARA
13	Menu language	English and other languages
14	Machine Electric power consumption	380 V – 50 Hz – 3 Ph – 16 A
15	Overall Machine weight	5800 kg
16	Overall Machine length	L: 7200 / W:2600 / H:2300
17	Option	Fume exhaust system

List of the main outsourcing components

Positioner movement	Axial	Motor	Estun	China
		Gearbox	Apex Low Backlash	Taiwan
	Rotational	Motor	Estun	China
		Gearbox	Apex Low Backlash	Taiwan
Arm up-down		Motor	Estun	China
Arm forward-backward		Motor	Estun	China
Arm Movement		Motor	Estun	China
		Gearbox	Apex Low Backlash	Taiwan
Arm Rotation		Motor	Estun	China
		Gearbox	Apex Low Backlash	Taiwan
Linear guide			HIWIN	Taiwan
CNC system			Promax	Italy
G code generator			KARA	Iran





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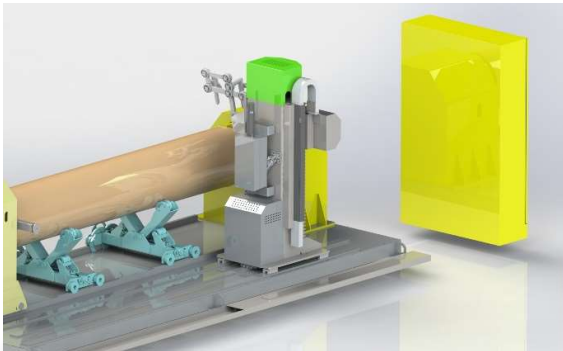
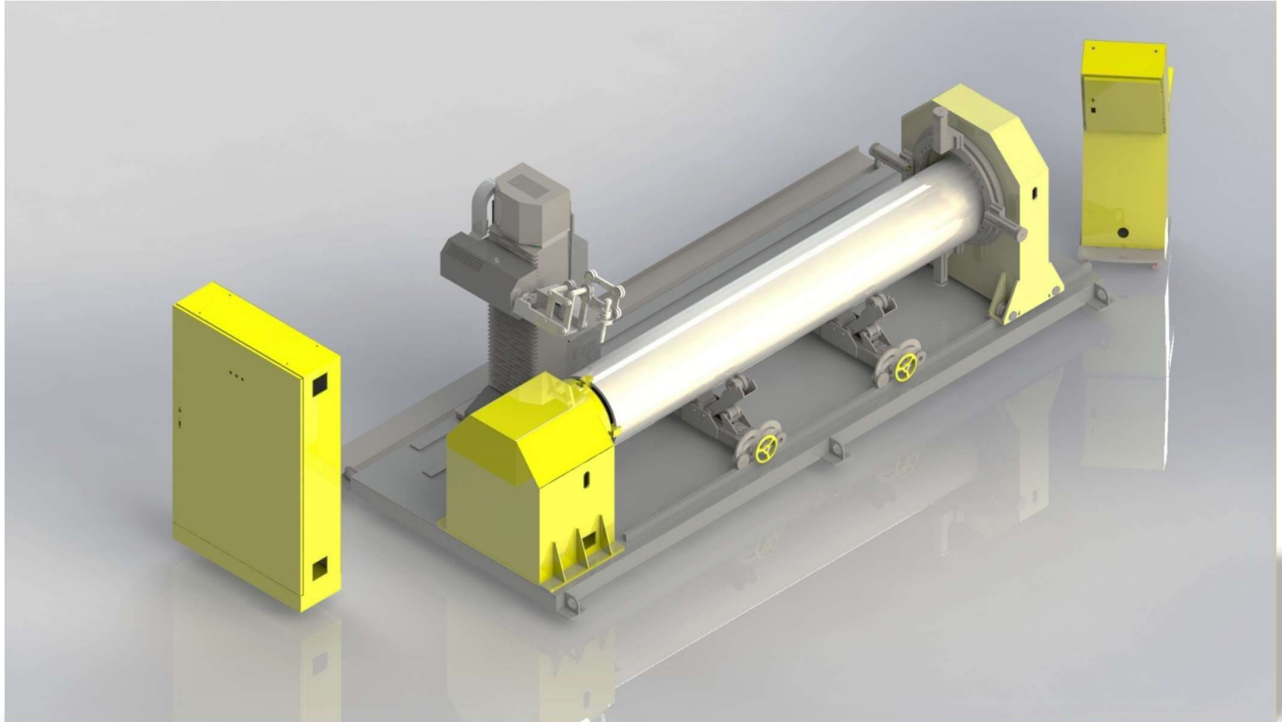


FIGURE NO.1

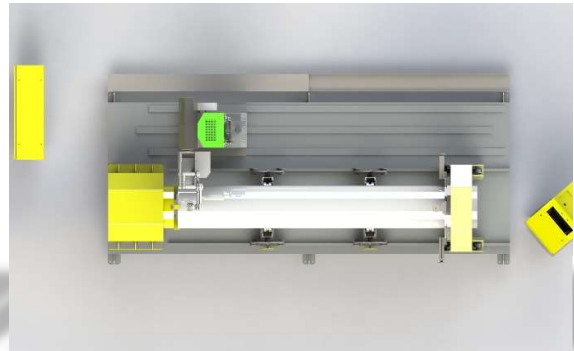


FIGURE NO.2

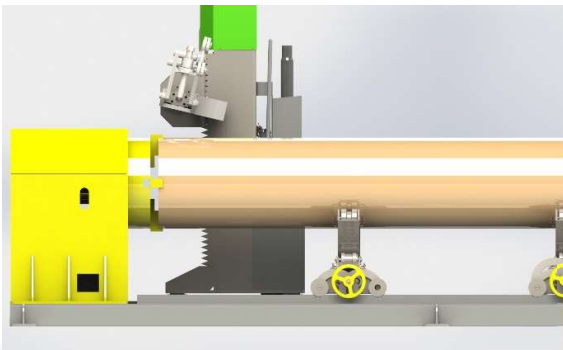


FIGURE NO.3

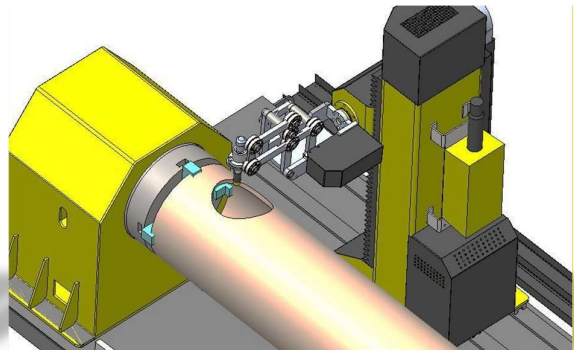


FIGURE NO.4

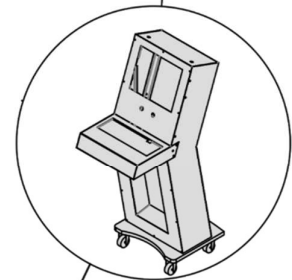




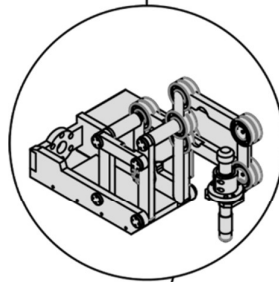
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Portable control panel



Pantograph cutting head

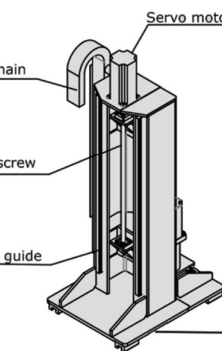


Servo motor 1KW

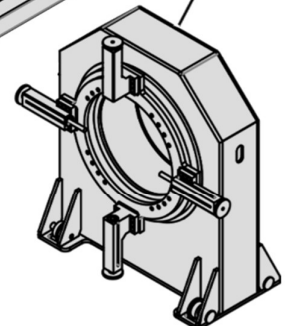
Energy chain

Ball screw

Liner guide



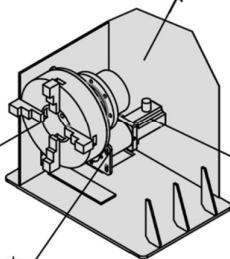
Slewing bearing



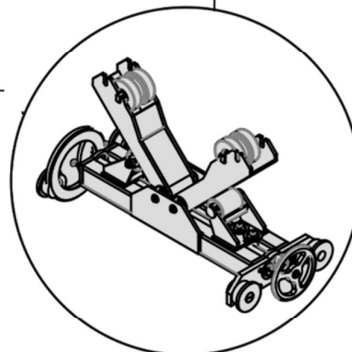
Self-centering 4 jaw chuck

Servo motor 1KW

Apex low backlash



idler bed





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KARA PLASMA 200A Technical Specification

1	Type of voltage control	Thyristor Control
2	Current control steps	Stepless
3	Current Voltage Range	25A/110v ~ 200A/200V
4	Permissible Load @100% D.C.	200A
5	Open Circuit Voltage	380V
6	Input Fuse Slow	100A
7	Input Current@ 100% D.C.	100A
8	Max Power	66KW
9	No Load power	500 kw
10	Mains input power	3x380 V/50Hz
11	Over Load Protection	Thermostat
12	Cooling Type	A.F.
13	Protection Class	IP20
14	Insulation Class	H
15	Dimension L/W/H	760/590/1435 mm
16	Weight	460 Kg
17	Air Input Pressure	7 Bars
19	Air Consumption	230 L/min
20	Torch Cable Length	6 m (additional are available by request)

