

# CNC Waterjet Cutting Machine



Model No. : JET 1525

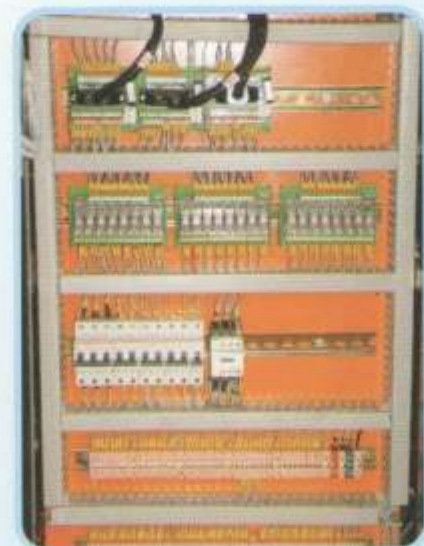
Jekson Machinery represents a high precision and reliable cutting machine of a gantry construction with dual longitudinal drive and support for AUTOLINE abrasive cutting head. Directly on the gantry there is a control console with LED display. The machine is equipped with an efficient and user-friendly CNC control system. All application programs, as well as the control software and are easy learn and easy to operate.



**Model No. : JET 2040**

#### The Advantages Of Waterjet Cutting

- ◆ No heat affected zones, dust or fumes
- ◆ No tool sharpening
- ◆ Low tangential force on part
- ◆ Small cutting width (Kerf)
- ◆ Good cutting quality
- ◆ High speed cuts in many materials
- ◆ Cad/Cam Systems
- ◆ Environmentally safe
- ◆ High cutting speed



**Control Panel**

## MACHINE SPECIFICATION

Model No.		JET 1212	JET 1515	JET 1525	JET 2030	JET 2040
Cutting Area	MM	1250 x 1250	1500 x 1500	1500 x 2500	2000 x 3000	2000 x 4000
Gantry Cross travel (X Axis)	MM	1250	1500	1500	2000	2000
Longitudinal table travel (Y Axis)	MM	1250	1500	2500	3000	4000
Vertical travel (Z Axis)	MM	200	200	200	200	200
Max. Speed	Mtrs/min	30	30	30	30	30
Position Acc.	MM	± 0.1				
Position Repeat	MM	± 0.1				
Cutting Feed Rate	MM / Min	10 – 300				
Rapid travels	Meters/min	10				

### Diameter of Water Orifice

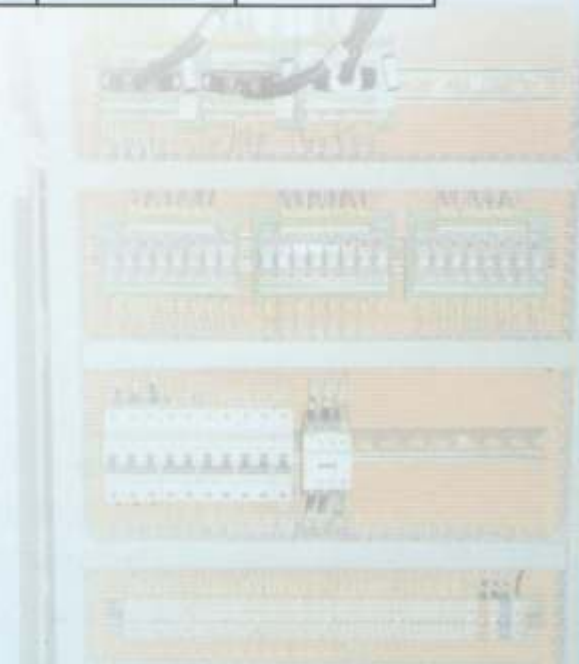
ABRASIVE MATERIAL		0.17 mm	0.25 mm	0.30 mm	0.35 mm
Material	Thickness (mm)	Cutting Speed (mm/min)			
Aluminum	5	315 – 470	595 – 855	750 – 1200	970 – 1470
	10	140 – 215	270 – 385	340 – 540	440 – 665
	20	65 – 95	120 – 175	155 – 245	200 – 300
Stainless Steel	5	110 - 160	205 – 295	255 – 410	335 – 505
	10	50 - 75	95 – 135	115 – 185	150 – 230
	20	25 - 35	45 – 60	55 – 85	70 – 105
Titanium	5	125 – 190	235 – 340	300 – 480	385 – 585
	10	60 – 85	105 – 150	135 – 215	175 – 265
	20	25 – 40	50 – 70	60 – 100	80 – 120
Marble	10	350 – 440	555 – 800	755 – 1130	910 – 1380
	20	160 – 200	255 – 360	320 – 510	410 – 625
	40	70 – 90	115 – 160	145 – 230	185 – 280
Glass	5	520 – 780	980 – 1420	1240 – 1995	1610 – 2440
	10	235 – 350	445 – 635	560 – 890	725 – 1100
	20	105 – 160	200 – 290	255 – 405	330 – 495

At 3, 600 – 4,136 bar; 250- 450 g/min abrasive flow; surface quality; medium - fine

### NON ABRASIVE MATERIAL

Material	Thickness	Cutting Speed
Rubber	2	27,000
	10	11,500
	20	2,200
Synthetic Material	2	22,500
	5	8,900
	10	3,400
Foamed Material	10	27,500
	100	5,500
Units	mm	mm/min

At 4,136 bar; orifice sizes; 0.10mm – 0.25mm;  
Surface quality; medium – fine





### STREAMLINE™ SL-V- Ultra High Pressure Pump Series

The latest STREAMLINE™ SL-V generation provides cutting edge waterjet technology Its PLUS versions allow the enduser to operate the cutting system at 4.136 bar / 60.000 psi, which helps increase the cutting speeds and output. The new HSEC topworks design is compact and Service friendly.

#### Available Versions:

- \* STREAMLINE™ SL-V 155
- \* STREAMLINE™ SL-V 30S STD/PLUS
- \* STREAMLINE™ SL-V 50S STD/PLUS
- \* STREAMLINE™ SL-V 75S STD/PLUS
- \* STREAMLINE™ SL-V 100S STD/PLUS

### AQUALINE I- Pure Water Cutting Head

The AQUALINE I pure water cutting head is a proven tool in the automotive applications. This industry operates at maximum on/off cycle counts which consequently means that all wear parts must be very resistant and robust in order

to guarantee the quickest and most reliable performance. Depending on the individual application, the attached high pressure actuating valve can be either normally closed N/C or normally open N/O. Both sapphire and diamond orifices are used in the field.

### AMS I - Abrasive Management System

The Abrasive Management System AMS I is a complete ready-to-go package for avrasive cutting applications. It enables our customers to operate riliable by constantly monitoring the availability of sufficient avrasive volume. This is especially important if the valuable material to be cut is brittle and breakable.

The complete system consists of the components nents listed below:

- ACTIVE AUTOLINE™ I Cutting Head Assy
- FEEDLINE III Abrasive Metering system
- ABRALINE III Bulk Transfer System

Mfg. of :  
Hydraulic Press Brake,  
Hydraulic Shears  
Hydraulic Press

Mfg. By : **Jekson Machinery Pvt. Ltd.**

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