



NEW RUM – CNC Gas and Plasma Cutting Machine

Basic equipment



- **NEW** fully welded beam without bolted joints
- **NEW** two linear bearing in cross axis
- **NEW** AC servomotors
- digital synchronization in longitudinal axis
- **NEW PIERCE 19"** control system with touch screen
- floating cutting heads
- electric ignition
- capacitive height control of oxy-fuel torch
- **NEW** automatic gas console
- torch selection from control system
- **NEW** automatic initial height sensing of plasma torch
- **NEW** arc voltage height sensing of plasma torch
- parking facility for heads out of cutting area
- limit switch in each axis
- **NEW** air cooling for gas cutting

Optional equipment



- plasma system by customer request
- pneumatic anti-collision system
- pneumatic, plasma or inkjet marker
- control system heating (for winter operation)

Technical specification



RUM	2 500	3 000	3 500	4 000	4 500
max. number of torche	6				
rail span	2 500 mm	3 000 mm	3 500 mm	4 000 mm	4 500 mm
cutting width*					
– 1 torch	2 100 mm	2 600 mm	3 100 mm	3 600 mm	4 100 mm
– 2 torches	2 100 mm	2 600 mm	3 100 mm	3 600 mm	4 100 mm
– 3 torches	2 100 mm	2 600 mm	3 100 mm	3 600 mm	4 100 mm
– 4 torches	2 080 mm	2 580 mm	3 080 mm	3 580 mm	4 080 mm
– 5 torches	1 945 mm	2 445 mm	2 945 mm	3 445 mm	3 945 mm
– 6 torches	1 810 mm	2 310 mm	2 810 mm	3 310 mm	3 810 mm
cutting length	by customer request				
min. parallel cut	90 mm				
cutting speed	0–20 000 mm/min.				
standard cutting thickness	200 mm				
machine width	3 100 mm	3 600 mm	4 100 mm	4 600 mm	5 100 mm
machine length	1 200 mm				
machine height (including rails)	1 700 mm				
cutting table height	700 mm				
plasma system	by customer request				
supply voltage	230V/50Hz				

* Technical data is valid for the application of oxy-fuel torches.
For data of alternative machine configurations, please, contact us.

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PIERCE
CONTROL AUTOMATION

New **RUM** machine is intended for the most demanding operations with a requirement for an accurate oxyacetylene and (or) plasma cutting. RUM machine offers all available automation elements in standard version.

New design

The latest machine design is based on the requirement of continuous operation and minimum maintenance. Besides functionality an emphasis was laid on reliability, safety and visual appearance during its design and development. All manufacturing processes from the welding processes up to very precise processing of guiding surfaces, high quality surface finishing and machine testing are monitored and controlled carefully during the machine manufacture.

Robust travel track

Rail type of track with worked prisms is a perfect combination of robust base and accuracy at the level of linear guiding without necessity of any maintenance and lubrication. Modular version enables an additional elongation of the track.

Fully welded beam without bolted joints

Special welding technology and long-term experience in the area of the cutting machine manufacturing enable production of the machine beam as one complete unit. This design secures a high rigidity of the machine, which is important during its movement. Double wiper system ensures removal of dust and residuals of melted metal.

Two linear bearing in cross axis

Combination of horizontal and vertical fit is perfect from the standpoint of their moment load. Very smooth run of transversal supports without any vibrations and extension of linear trolley service life are the main consequences of this arrangement.

Powerful AC servomotors

New servo-system enables to reach the machine travel speed up to 35 m/min. It secures a sufficient acceleration and deceleration of the machine even during the highest required cutting speed in combination with epicyclic gear cases. The entire system is equipped with auto-diagnostics and it has a very high reliability. The motors are synchronized digitally in the longitudinal axis and they work with nearly zero deviation.

Head parking out of cutting area

The gantry design enables a parking of a head, which is not used currently, out of the cutting area. It means in practice that there is no decrease of cutting width, if the machine is equipped with a higher number of heads.

Limit switch in each axis

All terminal positions of the machine and cutting heads are protected by adjustable terminal switches.

The highest amount of accessories

RUM series is supplied with a maximum amount of accessories from the standpoint of performance and automation. As a standard the machine is equipped with the control system with a big 19" touch display, auto-diagnostics, maintenance manager, automatic gas cantilever beam for oxyacetylene cutting, choice of heads and also with other automatic functions for oxyacetylene as well as plasma cutting technologies.

Protection against radiant heat

Inner side of the machine gantry is equipped with a protection layer against radiant heat, which is released during cutting of materials with a higher thickness. Distribution system of compressed air, which is used for an additional cooling, is installed in the cantilever beam as well as the cutting heads. The protection layer together with the cooling system prevents any overheating of the machine and its parts. This arrangement has a direct impact on a preservation of permanent accuracy of the cutting as well as on an extension of service life of individual parts of the machine.

