



**NEW RUR** – CNC Gas and Plasma Cutting Machine

## Basic equipment



- fully welded beam without bolted joints
- linear bearing in cross axis
- **NEW** AC servo-drive system (12 000 mm/min.)
- digital synchronisation in longitudinal axis
- **NEW PIERCE 15<sup>+</sup>** control system with touch screen
- floating cutting heads
- electric ignition
- capacitive height control of oxy torch
- automatic piercing with HI-LOW preheating
- automatic initial height sensing of plasma torch
- arc voltage height control of plasma torch
- parking for 1 head out of cutting area
- limit switch protection in each axis

## Optional equipment



- **NEW PIERCE 19<sup>+</sup>** control system with touch screen
- plasma system by customer request
- linear bearing in longitudinal axis
- **NEW** AC servo-drive system (20 000 mm/min.)
- automatic gas console
- torch selection from control panel
- anti-collision system
- pneumatic, plasma or ink jet marker
- air cooling of portal frame
- control system heating (for winter operation)
- parking space for 3 torches

## Technical specification



RUR	2 500	3 000	3 500	4 000
max. number of torches	4			
rail span	2 500 mm	3 000 mm	3 500 mm	4 000 mm
cutting width* – 1 torch	2 200 mm	2 700 mm	3 200 mm	3 700 mm
cutting width* – 2 torches	2 200 mm	2 700 mm	3 200 mm	3 700 mm
cutting width* – 3 torches	2 070 mm	2 570 mm	3 070 mm	3 570 mm
cutting width* – 4 torches	1 940 mm	2 440 mm	2 940 mm	3 440 mm
cutting length	by customer request			
min. parallel cut	90 mm			
cutting speed	0–12 000 (20 000) mm/min.			
standard cutting thickness	up to 200 mm			
machine width	3 340 mm	3 840 mm	4 340 mm	4 840 mm
machine width with 3 torches parking	extra 300 mm			
machine length	1 020 mm			
machine height incl. rails	1 700 mm			
cutting table height	700 mm			
plasma system	by customer request			
supply voltage	230V/50Hz			

<sup>\*)</sup> Technical data is valid for the application of oxy-fuel torches.  
For data of alternative machine configurations, please, contact us.

### PRODUCTION:

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**PIERCE**  
CONTROL AUTOMATION

Because of its dimensions, variability of equipment and price the **RUR** CNC cutting machine is suitable for standard applications of cutting executed by oxyacetylene and plasma. Its relatively lightweight but rigid structure enables installation of all types of the plasma sources on the machine (from standard air sources up to the HD type sources).

#### Modified design

The machine modified structure has been designed on the basis of a requirement for an absolute reliability even during a continuous (three-shift) operation. Despite the low price is the main requirement it is not reflected in the machine quality. 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.

#### Accurate travel track

Rail type of the track with ground prisms is an ideal solution of the requirement for accuracy and minimum maintenance. 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 gantry 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.

#### Linear bearing in cross axis

Combination of horizontal linear and vertical rolling guides is useful from the standpoint of their moment of load and protection against melted metal. 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 series enables to reach the machine travel speed from 12 to 35 m/min depending on the equipment. It secures a sufficient acceleration and deceleration of the machine even during the highest required cutting speed in combination with epicyclic gear cases. The whole 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 currently used, 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 protection in each axis

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

#### High level of automation

Even basic version of the **RUR** series is supplied with a high level of automation. As a standard the machine is equipped with the control system with 15" touch display, auto-diagnostics, manager of the machine maintenance and automatic functions for oxyacetylene as well as plasma cutting. The machine can be equipped subsequently also with some other technologies and functions according to the needs and requirements of the customers.

