NEW SCORPION

NEW SCORPION – CNC Gas and Plasma Cutting Machine

Basic equipment

- linear bearing in cross axis
- backlash-free rack & pinion positioning
- **NEW** AC servo-drive system (6 000 mm/min.)
- **NEW PIERCE 15“** control system with touch screen
- floating cutting heads
- speed control of torch vertical motion
- electric ignition
- manual material piercing

Optional equipment

- plasma system by customer request
- **NEW PIERCE 19“** control system with touch screen
- HI-LOW preheating
- automatic capacitive height control of oxy-fuel torch
- 2-step material piercing
- automatic initial height sensing of plasma torch
- arc voltage height control of plasma torch
- pneumatic marker

Technical specification

SCORPION	2 000	2 500	3 000
max. number of torches		4	
rail span	2 000 mm	2 500 mm	3 000 mm
cutting width* – 1 torch	1 600 mm	2 100 mm	2 600 mm
cutting width* – 2 torches	1 470 mm	1 970 mm	2 470 mm
cutting width* – 3 torches	1 340 mm	1 840 mm	2 340 mm
cutting width* – 4 torches	1 210 mm	1 710 mm	2 210 mm
cutting length		by customer request	
min. parallel cut		90 mm	
cutting speed		50–6 000 mm/min.	
standard cutting thickness		up to 200 mm	
machine width	2 650 mm	3 150 mm	3 650 mm
machine length		1 320 mm	
machine height		1 700 mm	
table height recommended		600 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 SCORPION

Machine description

In spite of the fact that **SCORPION** cutting machine is from the basic production CNC series, it is equipped with a new full control system PIERCE 15“. Lightweight beam structure with drive in longitudinal axis on one side predestines the machine to an oxyacetylene cutting, or for cutting executed by standard plasma sources. Low purchase price, simple operation and minimum requirements on maintenance are the main advantages of the machine.

Modified design

Simple beam structure of the machine is robust in comparison with the previous generation of the machines at the first sight. 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.

Travel track

Elevated main track is protected carefully against splashing metal. It secures minimum requirements on cleaning and maintenance. Modular version enables an additional elongation of the track.

Machine beam with linear bearing

The beam is robust enough despite its low price. It enables both cutting of materials with a bigger thickness and installation of plasma source in the machine. One-sided guiding is very economic, simple from the standpoint of maintenance and absolutely sufficient for this type of the machine from the point of view of production as well as manufacturing costs.

Linear bearing in cross axis

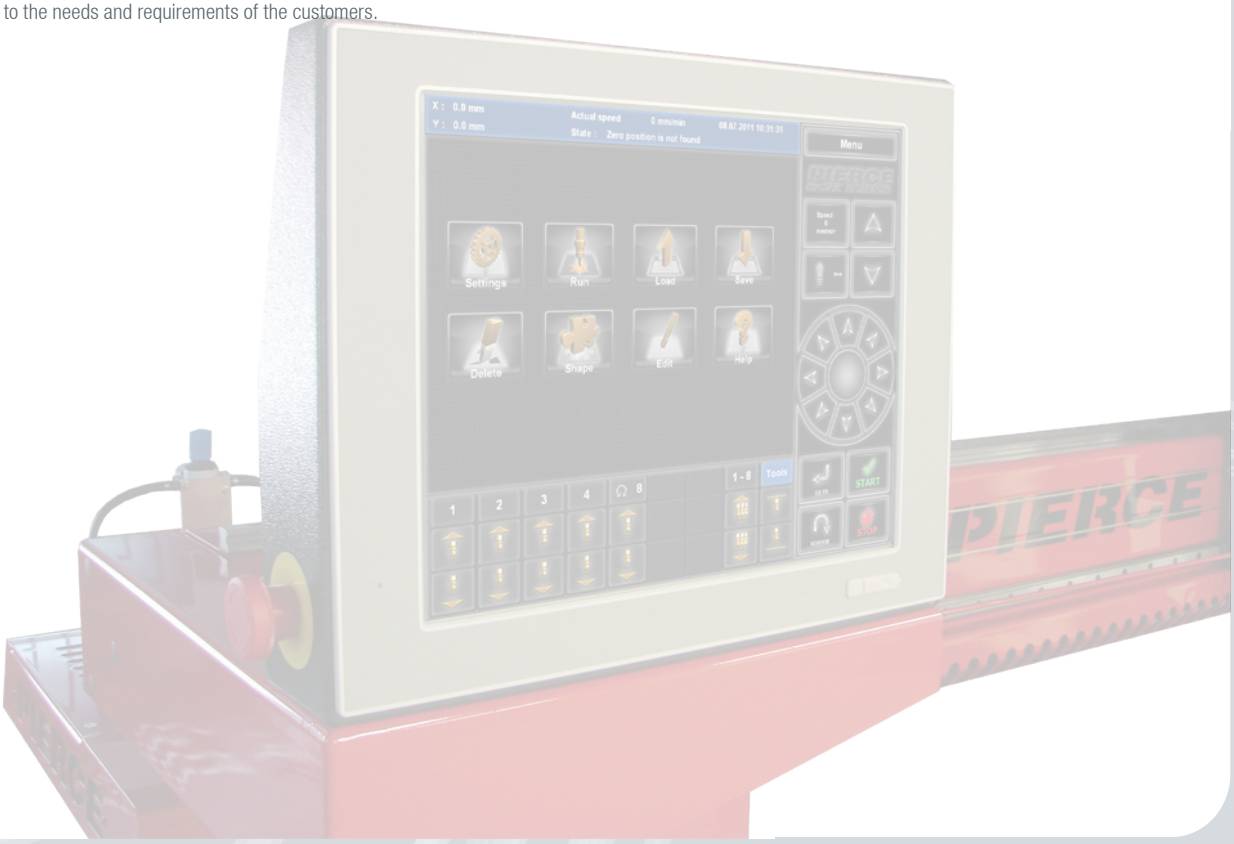
Combination of horizontal linear and vertical bearing is useful from the standpoint of their moment load and protection against the splashing metal. Very smooth run of transversal supports without any vibrations and extension of linear bearing life are the main consequences of this arrangement.

Powerful AC servomotors

New servo-system enables to reach the machine travel speed from 6 - 12 m/min. It secures a sufficient accuracy even during the application of higher cutting speeds in combination with epicyclic gear cases. The whole system is equipped with auto-diagnostics and it has a very high reliability.

Modular automation system

SCORPION series has been designed so that the user himself can decide, which automation component will be installed in the machine. As a standard the machine is equipped with the control system with 15“ touch display, auto-diagnostics, manager of the machine maintenance and some automatic functions for oxyacetylene as well as plasma cutting. The machine can be equipped subsequently also by some other technologies and functions according to the needs and requirements of the customers.



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