



## Robot 7th axis QRC 410 mechanics

The robot mechanics QRC320/350/410-E is a six-axis articulated arm robot with an excenter axis 7 which is integrated between robot base and centre point axis 1. The movements of all seven robot axes are synchronised by 100 %. The robot is usually positioned upright or overhead. The QRC320/350/410-E is mounted on a base or directly at a robot positioner. The QRC robot has a standard wrist where welding torches, flame cutters and other working tools with a weight of up to 15/10 kg can be mounted. The integration of a changing tool on the wrist allows to use more processes with a robot. Applications:- MIG/MAG Welding

- Plasma and oxygen cutting
- Plasma and Plasma powder welding
- Easy handling tasks

## Technical Data

Swivelling range axis 1	+170° / -170°
Swivelling range axis 2	+125° / -90°
Swivelling range axis 3	+80 / -210°
Swivelling range axis 4	+179° / -179°
Swivelling range axis 5	+135° / -135°
Swivelling range axis 6	+270° / -270°
Swivelling range axis 7	+120 / -120°
Swivelling speed axis 1	184
Swivelling speed axis 2	184
Swivelling speed axis 3	177
Swivelling speed axis 4	497
Swivelling speed axis 5	542
Swivelling speed axis 6	528
Swivelling speed axis 7	90
Operating range	Ø 6100 mm
Operating range Axis 5 +90°	Ø5050 mm
Operating range height	3120
Pay load	10,00
Repeatability	s +/- 0,1 mm
Collision radius	1050
Floor space	Ø 500 mm
Weight	350

# Features

## Technical features

- Less wear and improved, more user-friendly operation via optimised cables, plugs and motor protection
- Higher dynamics and weight reduction due to a leaner product design with rounded ergonomic forms
- Highest flexibility in the equipment by modular design of the robot mechanics
- Best processing quality due to a high repeatability
- High offset speeds reduce the cycle times
- Digital AC drives
- For floor or overhead mounting
- Absolute path measuring system
- Working space extension by 7th axis

# Options

## Available options

- Colour freely selectable
- Calibrated mechanics
- Accessories