

## CUTTING SYSTEM **FORM CUTTER FC**

For many years now, industry has utilized the Form Cutter FC for cutting applications on flat metal sheets and 3D work pieces. It's special feature is an integrated X/Y linear drive system – this enables it to drive highly dynamically along contours and guarantees a very high degree of path accuracy at an extremely fast cutting speed. The Form Cutter is ideal in the field of automotive production, where small apertures and holes have to be cut, e.g. for radio antennae.

### DISTANCE MEASUREMENT

- constant distance to work piece at any operating temperature
- compensation of material tolerances
- constant cutting quality

### STABILITY OF PROCESS

- using newest technologies and materials
- high dynamics at constant process stability

### EFFICIENT

- contour movement carried out from Form Cutter
- high degree of precision with high-level dynamics
- time savings through teach-in
- with integrated, non-contact distance sensors

### FLEXIBLE

- cutting and welding in a 30 x 30 mm working area
- stand-alone system or robot application
- focal lengths tailored to your application

### USER FRIENDLY & SAFE

- electrically monitored breakaway coupling
- Windows-based control with ethernet connection
- field bus-capable
- external offset presetting to compensate tolerances
- programming assistant
- different cooling



MEASURE

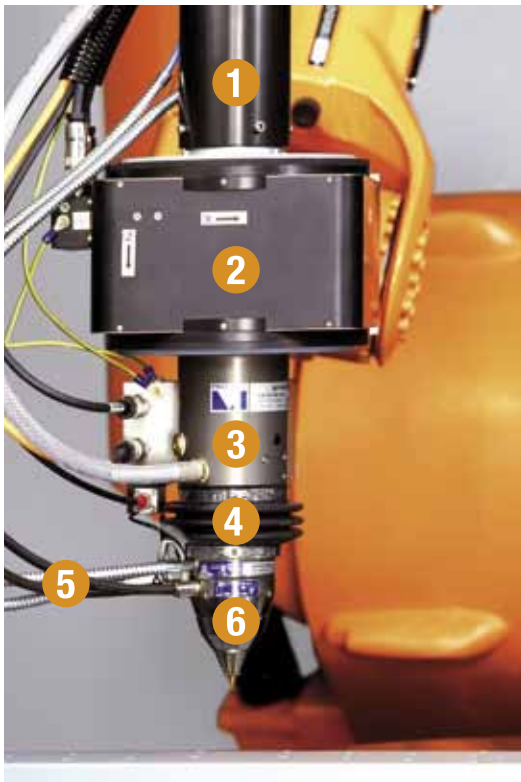
CONTROL

PROCESS

MONITOR

## TECHNICAL SPECIFICATIONS OF CUTTING SYSTEM FORM CUTTER FC

max. laser power	5.5 kW (for wave lengths 1064 – 1080 nm)
measuring principle	Lasermatic® Z
focal lengths	73, 80, 100, 120, 125, 150 mm (depending on used cutting head YR30 or YK52)
max. free aperture	26 mm (cutting head YR30), 48 mm (cutting head YK52)
weight of complete system	9.0 kg (cutting head YR30)
recommended working area	30 x 30 mm
voltage supply	110, 220 V AC
dimension (WxHxD)	237 x 244 x 409 mm



- 1 collimation
- 2 X/Y mechanical positioning system
- 3 Z linear drive
- 4 magnetic breakaway coupling
- 5 connections for sensor systems and cooling
- 6 YR30 cutting head

The given data was generated for a typical application and may be different given other circumstances. Furthermore misprints, changes and/or innovations may lead to differences in the listed measurements, technical data and features. Therefore all information is non-binding and technical data, measurements as well as features are not guaranteed by information in this product information.

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