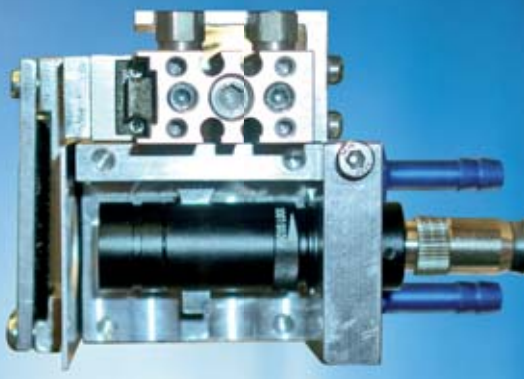




CCD-camera with housing



TFT-display with camera controller

Camera-system FCM

Assistance for torch-positioning and weld process monitoring

Standard equipment

Basic-system consisting of following modular components :

- Camera head with uptake for lenses
- Camera housing with shutter (function by compressed air)
- Optical filter
- Color CCD
- Splatter protective window
- Camera cable 10 m (max. 12 m)
- Mounting plate for camera housing
- Camera control (framegrapper) with cable 5 m
- Software

Recommended areas of use

Seam serching, positioning of torch and filler wire and weld process monitoring

Options and accessories

Different lenses according to application
TFT-Monitor (15 inch or 17 inch display)
Adjustment units
Hose and connections for compressed air
Additional illumination with cable

Functionality

The CCD camera has to be mounted near the weld position.
The distance can be about ca. 300-400 mm.
To protect the lense against durt and dust, the camera is installed in a closed housing.
The lense is also protected by a shutter.
To avoid streaming-up of the lense, dry air flows through.
The whole system is high-frequenzy compliant.

Following features can be controlled:

- Automatic gain control
- White balance
- Electronic light control

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Technical data	Camera controller
Mains voltage/frequency	230 V/ 50-60 Hz
Power consumption	550 mA
Dimensions	156 x 120 x 41 mm
Net weight	600 g

Technical data	Lense - Camera
Compressed air for shutter	500 hPa up to 1.060 hPa
Shutter speed	1/60 up to 1/10000 sek
Ambient condition	0° C up to +40° C
Resolution	460 x 420 lines
Dimensions: Diameter/length	17mm/ 40 mm
Net weight	0,16 kg

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PERFECT WELDING

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