



Micro welding heads

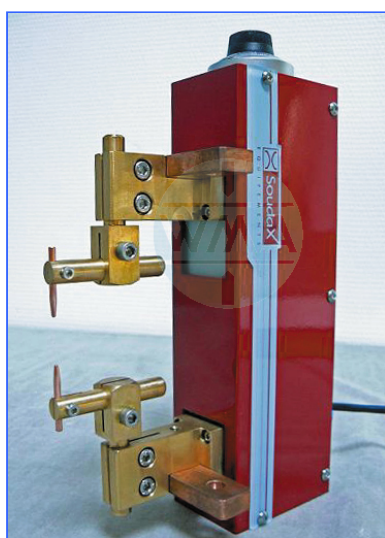
Version: 01-2011



Micro welding head, air cooled

TS-10-Series

- Electrodes are adjustable in X-Y-Z-direction
- available for electrode diameters 3 or 6 mm
- with foot switch
- Micro switch for welding start
- single force adjustments for every electrode
- Electrodes will be operated with DC, to avoid current damage.



TSM 10



TSA 10

Model	TSM 10	TSA 10
Stroke	22 mm	22 mm
Electrode force	0-1 daN or 0-5 daN or 0-10 daN	0-1 daN or 0-5 daN or 0-10 daN
Foot switch	rocker switch	pneumatically
Throat	65-100 mm	65-100 mm

Option:

With an adapter the welding heads can be operated also in a horizontal position.
Upper and lower stroke limitation
Manometer for constant force readout



The micro welding heads can be connected to all suitable controls and current sources.

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**Special designs can be manufactured according to your wishes.
Please contact our consulting engineer: 0049 7062 9066-0**

We reserve the right to make changes which are in the interest of technical progress.

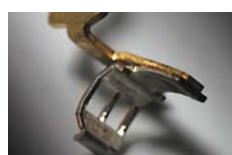
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Micro welding heads-1



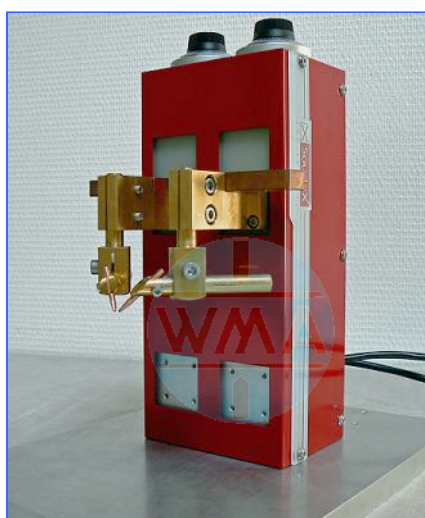
Micro welding heads

Version: 01-2011



Micro welding head, air cooled double head performance, TS-D-10-Series

- Electrodes are adjustable in X-Y-Z-direction
- available for electrode diameters 3 or 6 mm
- with foot switch
- Micro switch for welding start
- single force adjustments for every electrode
- Electrodes will be operated with DC, to avoid current damage.



TSM D 10



TSA D 10

Model	TSM D 10	TSA D 10
Stroke	22 mm	22 mm
Electrode force	0-1 daN or 0-5 daN or 0-10 daN	0-1 daN or 0-5 daN or 0-10 daN
Foot switch	rocker switch	pneumatically
Throat	65-100 mm	65-100 mm

Option:

With an adapter the welding heads can be operated also in a horizontal position.
Upper and lower stroke limitation
Manometer for constant force readout



The micro welding heads can be connected to all suitable controls and current sources.

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Micro welding heads-2



Micro welding heads

Version: 01-2011



Micro welding head, air cooled

TS-30-Series

- Electrodes are adjustable in X-Y-Z-direction
- available for electrode diameters 3 or 6 mm
- with foot switch
- Micro switch for welding start
- single force adjustments for every electrode
- Electrodes will be operated with DC, to avoid current damage.



TSM 30



TSA 30

Model	TSM 30	TSA 30
Stroke	45 mm	45 mm
Electrode force	30 daN or 65 daN	30 daN or 65 daN
Foot switch	rocker switch	pneumatically
Throat	85-120 mm	85-120 mm

Option:

The welding heads can be operated also in a horizontal position with an adapter.

Upper and lower stroke limitation

Manometer for constant force readout



The micro welding heads can be connected to all suitable controls and current sources.

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Micro welding heads-3



Micro welding heads

Version: 01-2011



Micro welding head, air cooled TS-65-Series

- Electrodes are adjustable in X-Y-Z-direction
- available for electrode diameters 3 or 6 mm
- with foot switch
- Micro switch for welding start
- single force adjustments for every electrode
- Electrodes will be operated with DC, to avoid current damage.



TSA 65

Model	TSA 65
Stroke	50 mm
Electrode force	65 daN
Throat	85-120 mm
Depth	350 mm
Height	343 mm
Width	92 mm
Weight	13.5 kg



The micro welding heads can be connected to all suitable controls and current sources.

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Micro welding heads-4



Micro welding heads

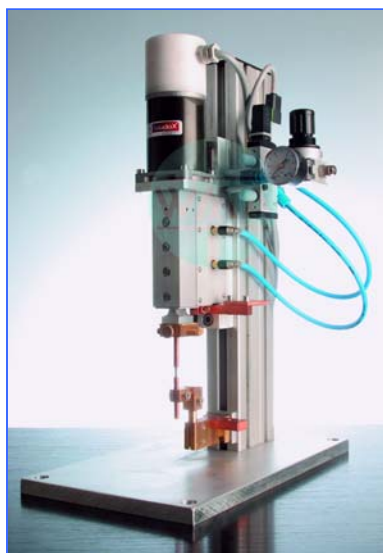
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Electromagnetically micro welding head TEM-Series



- Electrode force transmission via electromagnet, so the force will be delivered in the moment of welding
- Carriage guide
- Response time < 3 ms, therefore no Contact damage during the welding
- Upper electrode stroke via pneumatic cylinder
- very easy to maintain



Model	TEM 50
Stroke	11 mm
Electrode force	0.5 up to 50 daN

Options:

The welding heads can be operated also in a horizontal position with an adapter.
Water cooled electrode holder with fast clamping from the electrodes.
A welding monitoring element can be mounted.



The micro welding heads can be connected to all suitable controls and current sources.

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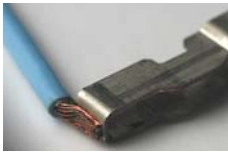
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Micro welding heads-5



Micro welding heads

Version: 01-2011



Electromagnetically micro welding head TEM-Series in double head performance

- Electrode force transmission via electromagnet, so the force will be delivered in the moment of welding
- Carriage guide
- Response time < 3 ms, therefore no Contact damage during the welding
- Upper electrode stroke via pneumatic cylinder
- very easy to maintain



Model	TEM D 50
Stroke	11 mm
Electrode force	0.3 up to 1 daN or 0.5 up to 10 daN

Options:

The welding heads can be operated also in a horizontal position with an adapter.
Water cooled electrode holder with fast clamping from the electrodes.
A welding monitoring element can be mounted.



The micro welding heads can be connected to all suitable controls and current sources.

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