

## SHORT-INFO

# a-LTW / i-LTW 4500

### Water-cooled TIG torch.

- Water-cooled
- Up to 450 A
- Assorted operating variants
- Ergonomic handle recess, size 2
- Ball joint
- Leather hose package
- Long duty cycle
- Powerful



## At a glance

### Ergonomic handle recess, size 2

Offering an optimised centre of gravity, the oval handle recess moulds perfectly to your hand, affording you much improved handling of your TIG torch. The contoured design of its sides prevents the torch from shifting and eliminates fatigue while you are welding as this special design provides for comfortable handling.

### Flexibility

The ball joint found at the handle and the resilient leather flex hose package guarantee superior freedom of movement and ease of use.

### Attached cover caps

To prevent you from losing them ever again, the cover caps sealing the water hoses are now firmly attached to the water hose.

### Stability

The decreased distance between the controls of the TIG torch, which optimises the torch's centre of gravity, allows the operator to control the torch in a safe and reliable manner and to keep the arc steady while guiding along the torch.

### Safety

The elevated secondary current button reliably prevents any inadvertent operation of the UpDown button.

### Versatile

The hose package included with the TIG torch is available as a 4m and an 8m option as well as in other custom lengths by special order.

## Benefits

### Ergonomics

The unique design of the torch made it possible to reduce the distance between control button and arc. The resulting optimisation of the torch's centre of gravity and the reduced lever forces provide for significantly improved handling. What is more, the elevated secondary current is sure to avoid any unintended adjustments of the welding current and other parameters.

### HeatProtect

A heat sensor built into Lorch's i-LTW 4500 provides thermal protection and safeguards the high-quality electronic control system against overheating.

### TorchProtect

When activated in the welding machine, the optional TorchProtect automatically detects the connected Lorch i-LTW 4500 and prevents the torch from being subjected to a current that exceeds the maximum. This feature protects the torch against overload.

### Equally comfortable for lefties

A simple press and hold of the Mode button for seven seconds in the Powermaster variant of the Lorch i-LTW 4500 will switch the display to a view that is appropriate for left-handed users.

### Powermaster control

The Powermaster variant of our Lorch i-LTW 4500 lets you control such essential parameters as the settings of your welding jobs directly at the torch.

### Tiptronic

Using the Tiptronic facility, you simply save the ideal setting for each weld in the required sequence. The job memory makes it quick and easy to load up to 100 work values one after the other when you need them.

## Controlconcept

### Double push button

- Two ergonomically shaped push buttons
- Button 1 is used to switch the current on and off
- Button 2 lets you activate the secondary current



### UpDown

- Two ergonomically shaped push buttons
- Button 1 is used to switch the current on and off
- Button 2 lets you activate the secondary current
- Now including remote power source control



### **Powermaster**

- Two ergonomically shaped push buttons
- Button 1 is used to switch the current on and off
- Button 2 lets you activate the secondary current
- Now including remote power source control
- With integrated digital display of the welding current
- Including toggle feature for left and right-handed operators
- Mode button for toggling between amperage control and Tiptronic job mode
- Option to freely select two additional features



**Technical Data: TIG torches, water-cooled**

	<b>a-LTW / i-LTW 1800</b>	<b>a-LTW / i-LTW 1800sc</b>	<b>a-LTW / i-LTW 2000</b>	<b>a-LTW / i-LTW 3000</b>	<b>a-LTW / i-LTW 4500</b>
Type of torch					
type of cooling	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled
TIG					
Load DC (in A)	320	400	220	320	450
Load AC (in A)	230	280	165	230	360
Duty cycle					
Duty cycle (in %)	100%	100%	100%	100%	100%
Field of application					
installable electrodes (in mm)	1,0-4,0	1,0-4,0	1,0-3,2	1,0-3,2	1,6-6,4
Torch equipment					
Standard equipment for electrode:	2,4	3,2	2,4	2,4	3,2
Handle recess	2	2	1	1	2
Torch connection	5-pole Tuchel	5-pole Tuchel	5-pole Tuchel	5-pole Tuchel	5-pole Tuchel
Standards and approvals					
standard	EN 60974-07	EN 60974-07	EN 60974-07	EN 60974-07	EN 60974-07