



CARPANO
EQUIPMENT

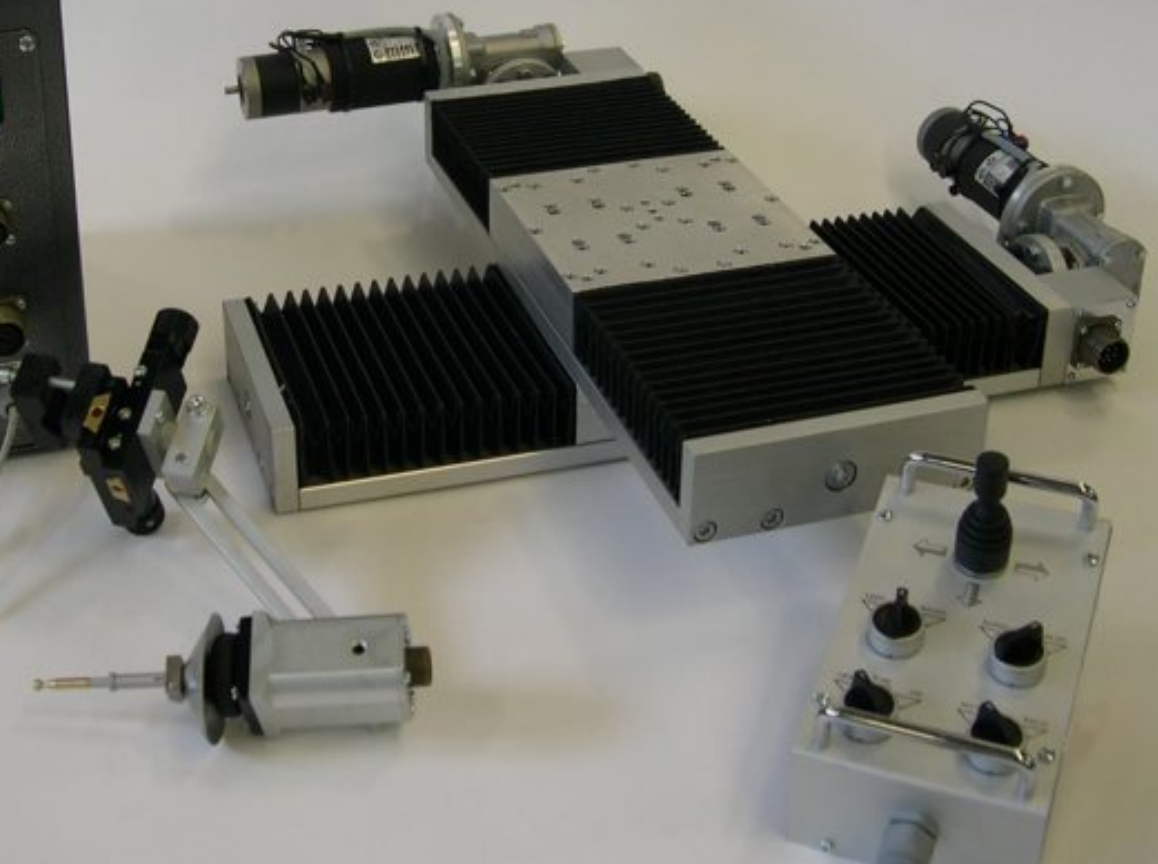
IG SEAM TRACKER



IG LT 180/2



IG MD 250/2





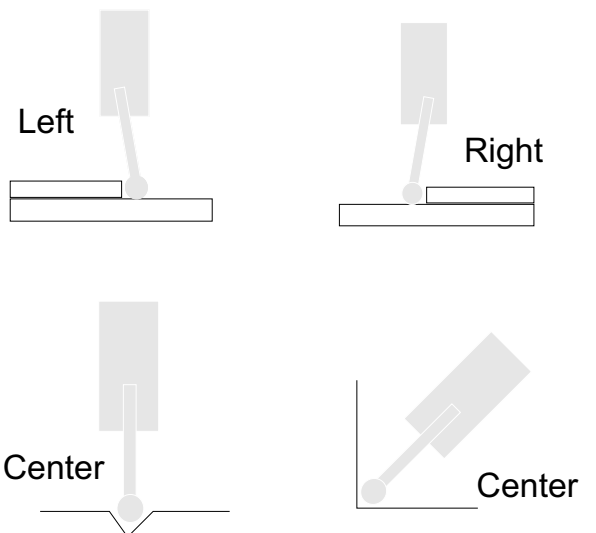
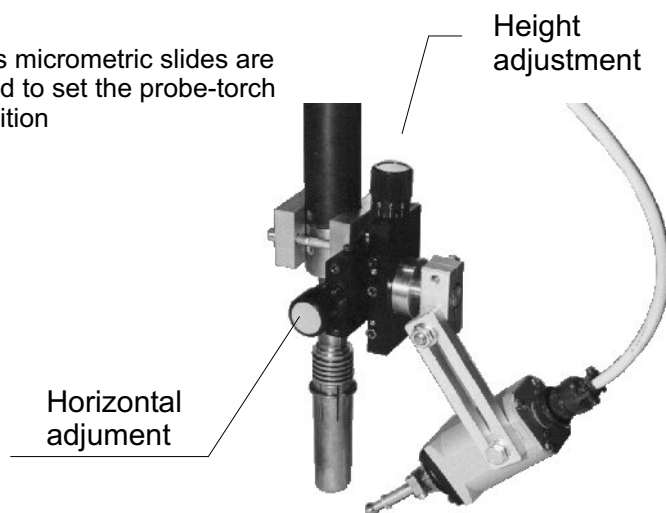
The seam tracker

The a.m. equipment has been planned to automatically keep the torch on the joint to be welded.

The heart of this system is the probe : it sends electrical signals to the motorized slides which immediately adjust the torch position, do notice the probe signal is proportional to any eventual variation, this to allow continuous and homogeneous re-adjustments with a precision reaching more or less 0.20 mm.

By this way this system can be used with any applications having a defined joint (angle, smoothed joint or with port ones etc...) to adjust the vertical axe, the horizontal ones or both.

This micrometric slides are used to set the probe-torch position



Pendant

Supplied with 10 mt cable (other lenght on demand)

Features:

- Joystick for slide manual positioning
- Manual - Automatic switch
- Sidetracking: left, center, right, to preload the probe
- Inversion of the horizontal mouvement
- Switch to ARC ON if connected on the box control

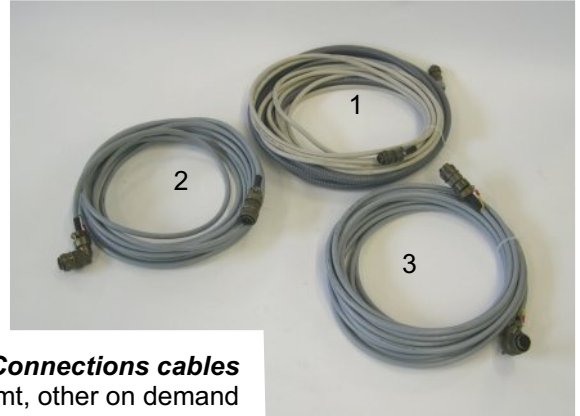




Control unit

This box contains all the electronic circuitry used in the system, all the connectors are different

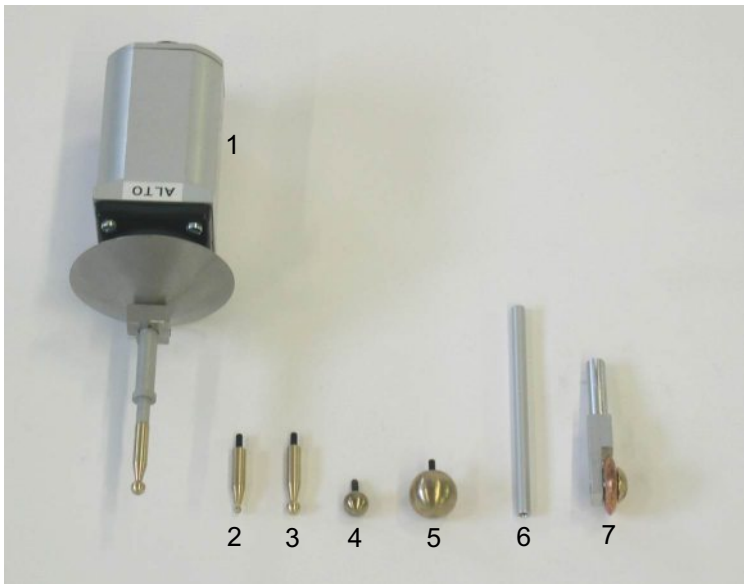
- Tension: 230 V 50-60 Hz
- Power: 300 VA



Connections cables

standard lenght 10 mt, other on demand

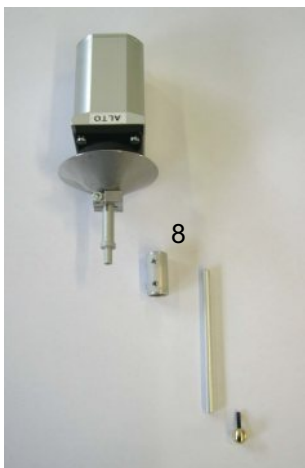
- 1 - Probe cable
- 2 - Vertical axe cable
- 3 - Horizontal axe cable

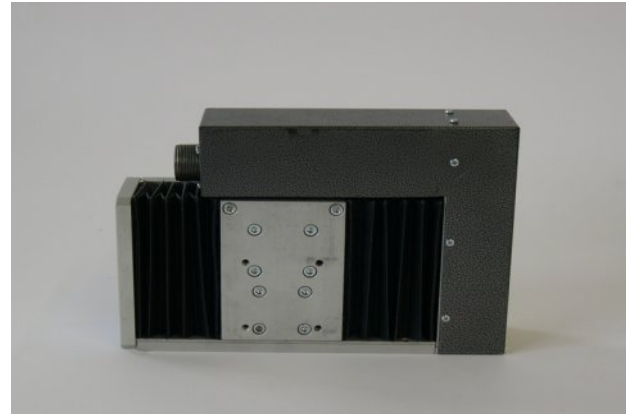
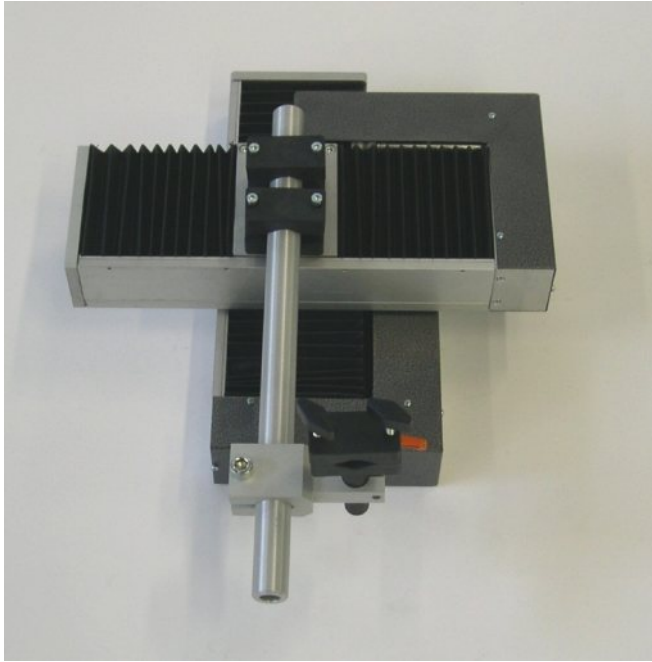


Probe

To do a better work it is important to choose the correct tip for your seam:

- 1 - IGS001 Complete probe
- 2 - IGP03 tip Ø3 mm
- 3 - IGP06 tip Ø6 mm
- 4 - IGP10 tip Ø10 mm
- 5 - IGP20 tip Ø20 mm
- 6 - IGMTJ002 extension 100 mm long
- 7 - IGROT tip with copper wheel
- 8 - IGT.03-BR Bakelite connection to insulate the probe, used on pre-heated pieces





Motorized slides

3 different models of motorized slides are available:

- **LT** max load 10 Kg out 100 mm,
For TIG and MIG process with the following strokes:
80 - 180 - 250 - 300 - 400 mm

- **MD** max load 70 Kg out 400 mm, for SAW or MIG with
oscillator

- **HD** max load 150 Kg out 400 mm dalla slitta, for SAW
Twin

Both with the following strokes:
100 - 250 - 400 - 600 mm

All the slides are made with machined aluminium, ball
bearing guides and ball bearing screw, all the motors are
with tako or encoder.

The model HD on the vertical axe has the brake

Ordering code:

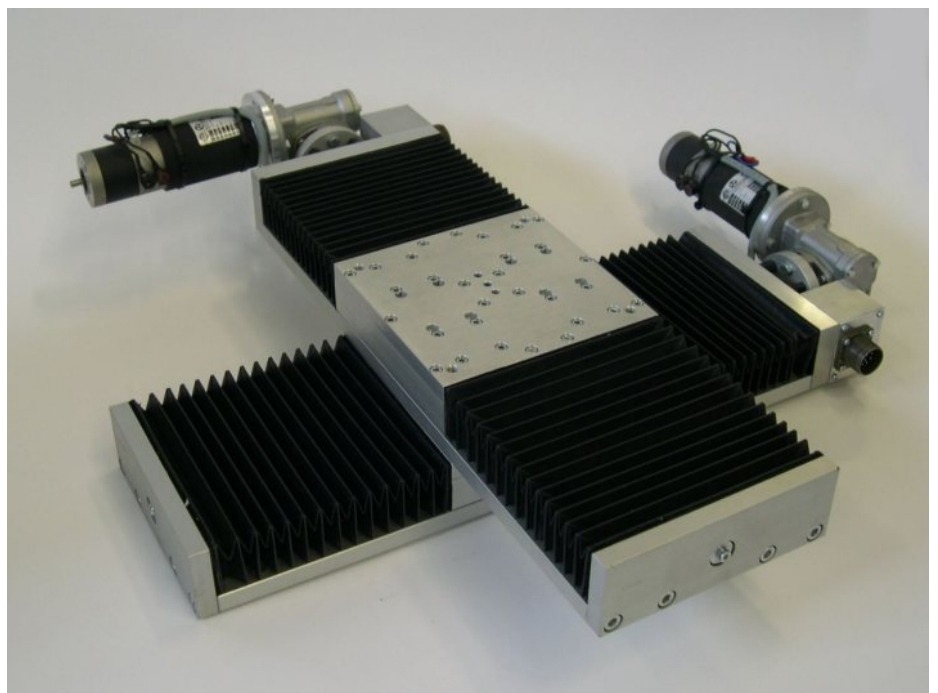
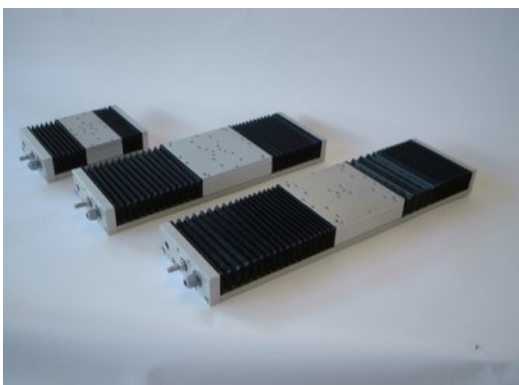
The ordering code depend from the
model of slide and n° of axis:

IG LT 80/2: identify a 2 axis seam
tracker with slides LT and stroke 80 x 80
mm

IG LT 180/1 H: identify a 1 horizontal
axe seam tracker with slide LT stroke
180 mm, horizontal

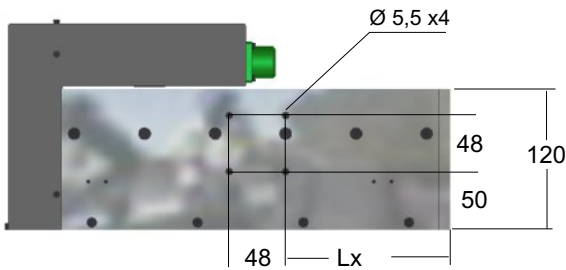
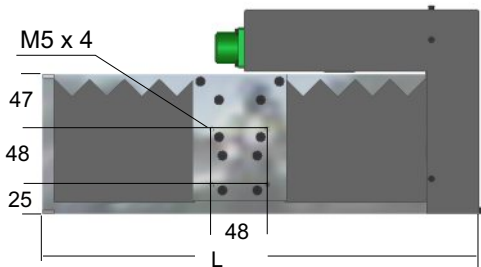
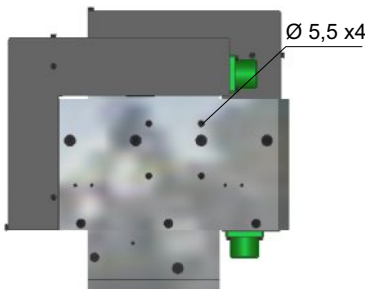
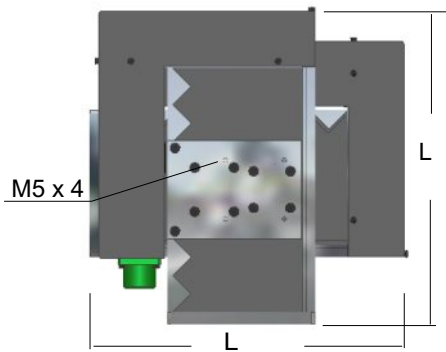
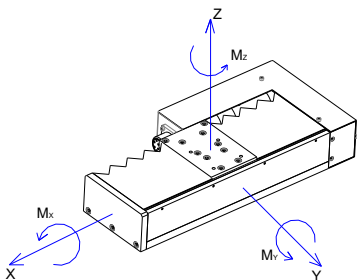
IG MD 250/1 V: identify a 1 vertical axe
with MD slide stroke 250 mm

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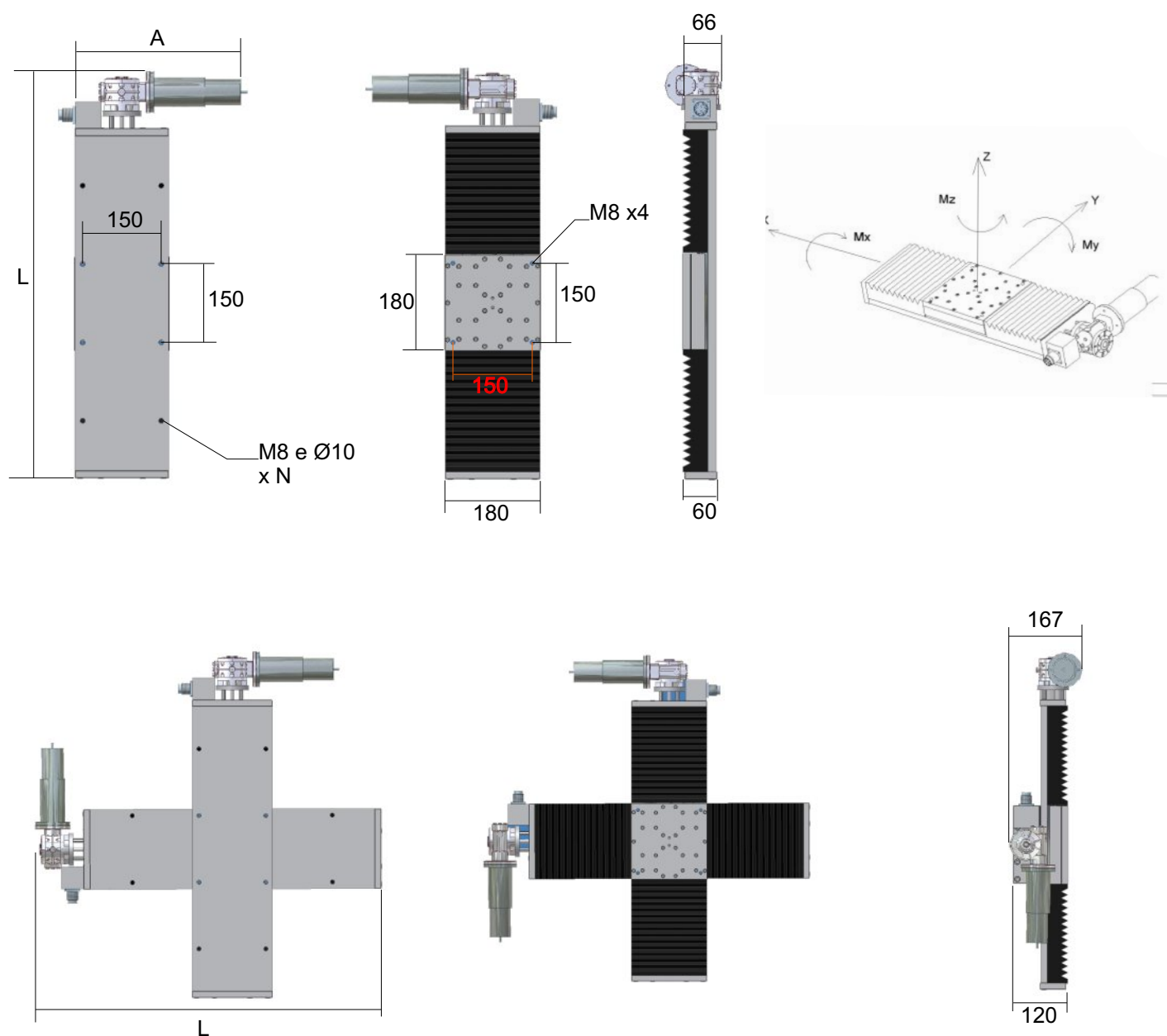
Slides model LT, max load 10 Kg out 100 mm

	80	180	250	300	400
L (mm)	256	376	476	536	696
Lx (mm)	80	140	196	226	306
P motor (W)	31	31	31	31	31
Vertical load (Kg)	10	10	10	10	10
Speed (mm/min)	2300	2300	2300	2300	2300
M X (KNm)	4	4	4	4	4
M Y (KNm)	3	3	3	3	3
M Z (KNm)	4	4	4	4	4



Slides model MD, load 70 and 150 Kg out 400 mm

	100	100 HD	250	250 HD	400	400 HD	600	600 HD
<i>L (mm)</i>	479	479	659	659	879	879	1139	1139
<i>A (mm)</i>	330	360	330	360	330	360	330	360
<i>Lx (mm)</i>	110	110	75	75	160	160	140	140
<i>N fixing holes</i>	4	4	8	8	8	8	20	20
<i>P motor (W)</i>	200	350	200	350	200	350	200	350
<i>Vertical load (Kg)</i>	70	150	70	150	70	150	70	150
<i>Speed (mm/min)</i>	1500	1400	1500	1400	1500	1400	1500	1400
<i>M X (KNm)</i>	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4
<i>M Y (KNm)</i>	2,6	2,6	2,6	2,6	2,6	2,6	2,6	2,6
<i>M Z (KNm)</i>	2,6	2,6	2,6	2,6	2,6	2,6	2,6	2,6



Applications



IG LT 80/2
Box beam welding
Mig process with 2 head at the
same time



IG LT 180/2
MIG welding of beam for
motorway panel



IG MD 250/2
MIG Vessel welding
In this application the vertical
slide is connected on the
carriage, so all the slide move
Up and Down



**SAW seam tracker installed on a motorized carriage
and a vertical slides.**

This is the arm of a column and boom
Each probe guide the motorized carriage and a vertical
slide with 250 mm stroke

This application is for composed beam, heaters, truck
beams.....

