ABIDOT
TCP programming aid

ABIDOT –
the clever tool
for touchless
programming

Robot programming to the point!

The programming aid ABIDOT is simply screwed onto the robot torch instead of the gas nozzle for the programming process. Instead of taking the wire, four laser beams simulate the stick-out – completely touchless. Known problems like the bending of the wire while touching the workpiece are a thing of the past. This makes the programming process easier in multiple ways.

The process-related wire stick-out can be adjusted with a scale on the ABIDOT. This facilitates in obtaining the correct distance during programming, the optimum wire position and penetration during welding.

The optimum TCP (Tool Center Point) is reached when all four laser LED's combine to only a single focal point on the workpiece – really clever!

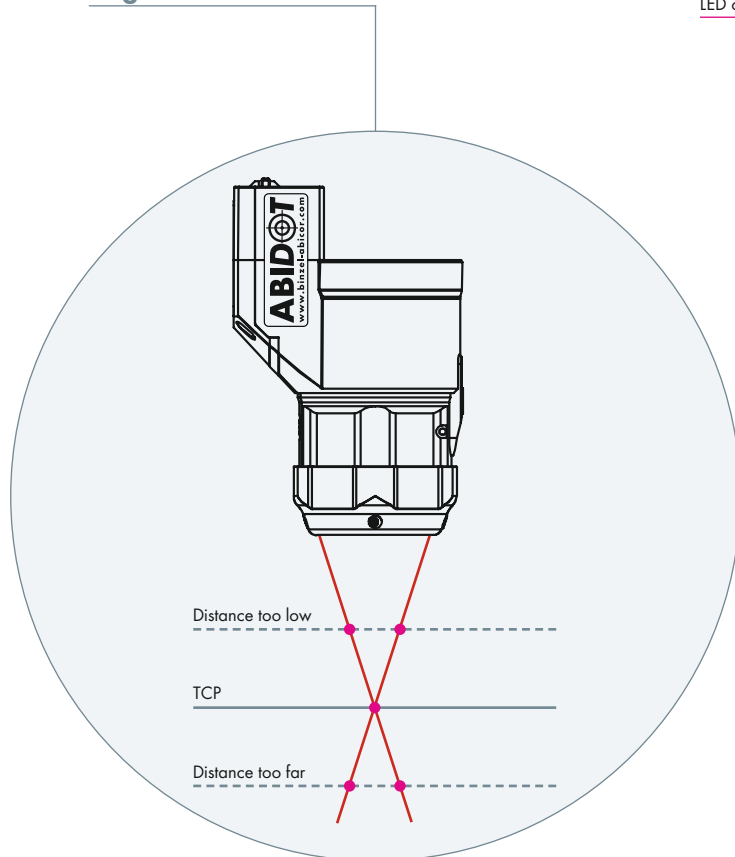### Advantages that speak for themselves:

- ABIDOT shortens programming times considerably
- ABIDOT increases the quality of the welds through optimum positioning and consistent spacing of the torch to the workpiece
- ABIDOT reduces the costs for programming times and offers savings through reduced rework and quality control

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TCP programming aid "ABIDOT"
System overview and technical data

Figure 1:
Alignment TCP

LED charge status display

Protective cap
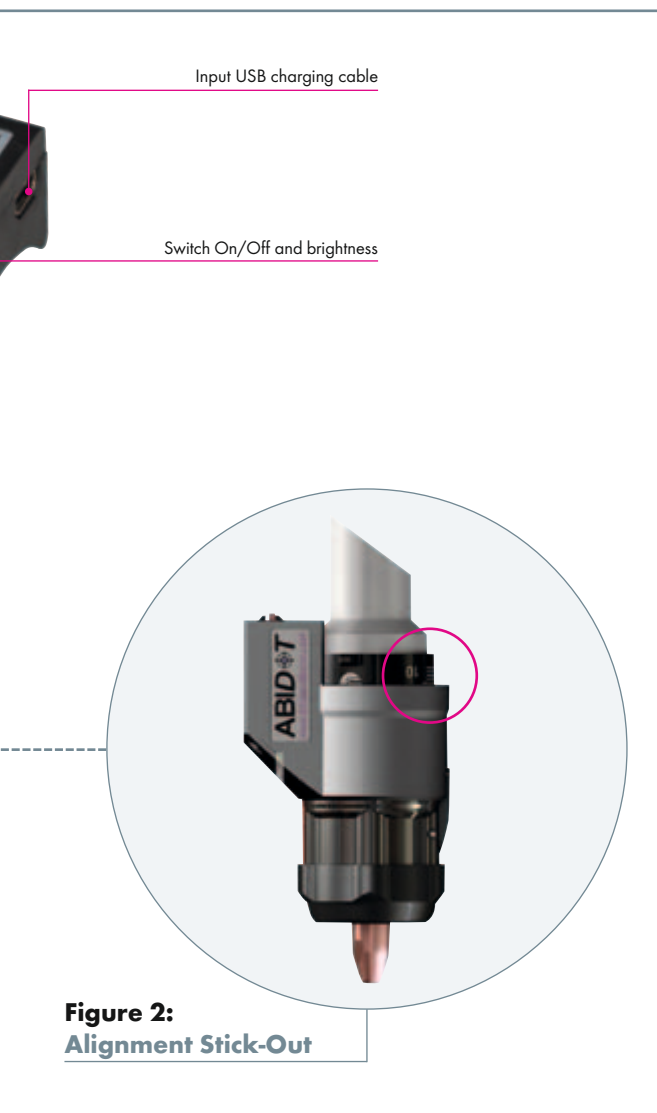
Distance too low

TCP

Distance too far

Figure 1:
Alignment TCP

The optimum torch position is reached when all four
laser LED beams combine to only a single focal point
on the workpiece. If two or more points are visible
the torch is either too close to the workpiece or too
far away.

Figure 2:
Alignment Stick-Out

The process-related wire stick-out – the "free end
of the wire" – can be adjusted with a scale on the
ABIDOT. This facilitates in obtaining the correct
distance during programming, the optimum wire
position and penetration during welding.

Input USB charging cable

Switch On/Off and brightness

Figure 2:
Alignment Stick-Out

Technical data:

Laser protection class:	EN 60825-1: 2007 / 2M / 670 nm / 2.5 mW
Input:	100–240 V AC / 150 mA / 50–60 Hz
Output:	5 V DC / 500 mA
Protection class:	IP3X
Ambient temperature:	-10°C up to +40°C
Charging time:	approx. 30 minutes
Operating time:	approx. 7 hours
Relative air humidity:	up to 90 % at 20°C
Transport and storage:	-10°C up to +55°C

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Order overview

1 ABIDOT Complete unit
incl. adapter-sleeve, power supply, charging station, protective cap (1 pc.)

Type	Part-No.
ABIDOT complete for A 500	837.0790.1
ABIDOT complete for W 500	837.0791.1
ABIDOT complete for 65X TS	837.0792.1
ABIDOT complete for W 600	837.0793.1

2 ABIDOT
without adapter-sleeve, power supply, charging station (1 pc.)

Type	Part-No.
ABIDOT without equipment	837.0787.1

3 Adapter-sleeve
(1 pc.)

Type	Part-No.
Adapter-sleeve for A 500	837.0799.1
Adapter-sleeve for W 500	837.0800.1
Adapter-sleeve for 65X TS	837.0801.1
Adapter-sleeve for W 600	837.0802.1

4 Charging station
(1 pc.)

Type	Part-No.
Charging station	400.1415.1

5 Power supply
(1 pc.)

Type	Part-No.
Power supply	184.0393.1

6 Protective cap
(1 pc.)

Type	Part-No.
Protective cap	400.1419.1

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