
ABI-CAR welding tractors
First steps into hard automation ...

Economical entry-level solutions. ABI-CAR welding tractors close the gap between classic hand welding and fully automated welding. The mechanized welding tractors are the ideal entry-level solution into hard automation and are suitable for the mechanized automation of arc welding processes. They support the process technology and process ergonomics of longitudinal seams easily and safely.

“Ready to weld” packages. ABI-CAR welding tractors can be customized perfectly to individual requirements. There is a wide range of mechanical components available for this purpose. In addition, ABICOR BINZEL offers high-quality welding equipment, such as torches, coolers, and hose packages, for all material groups and electric arc process variants. All components are built in a modular system, which allows fast installation and support the welder’s productivity.

Packages for Hard Automation. ABICOR BINZEL is proud to introduce the first of several new hard automation portfolio products. Modularly constructed complete packages offer a particularly simple entry into semi-automated welding. They are ideally suited to the requirements of companies that want to increase welding capability without investing in a cost-intensive robot welding system or compromising on quality. ABICOR BINZEL components offer an entry into automation and prepare the steps for robotics at the same time.

Manufacture more efficiently! Mechanized welding with ABI-CAR welding tractors.
Clear arguments.

The ABI-CAR welding tractors are the entry into automation and offer multiple advantages compared to manual welding:

- **Easy integration**: Easy connection to all commercially available hand welder sets
- **Optimum seam quality**: Consistently high-quality welding results even with long parts
- **Increased productivity**: Constantly high welding speed and uninterrupted welding
- **Simple handling**: Simple, safe handling – also suitable for operators
- **Better ergonomics**: Reduced physical exertion – less absences
- **Premium quality**: All tractors and accessories fulfill the high ABICOR BINZEL quality requirements

Take advantages!

Economical solutions for a wide range of applications.

ABI-CAR welding tractors are ideal for long seam welding.
The welding tractor ABI-CAR E-1200-O with integrated oscillator unit relieves the welder and allows perfect welding beads in consistently high quality.

**Adjustable oscillator unit:** Variety of options (symmetrical/asymmetrical oscillator, time lag center/left/right, frequency and width offset)

**Clear digital display:** Showing speed, oscillator delay, oscillator width offset and oscillator frequency

**5-axis torch adjustment:** Flexible torch positioning (also while driving) via cross support (50 mm x-y), suitable for torch necks up to 25 mm diameter

**Flexible seam tracking:** Integrated magnet

**Increased speed:** Welding tractor operates at a precisely adjustable speed up to 1200 mm/min

**Convenient additional functions:** Auto start/stop, manually controllable end crater fill for current sources with 4-cycle control system (pre-, main, re-welding cycle and welding end)
Reliable and repeatable weld quality - in less time

The flexible ABI-CAR E-1200 welding tractor with increased driving speed relieves welders and facilitate perfect welding results with long seams.

- **Simple operation:** Digital controller and display of the speed for optimum process control
- **5-axis torch adjustment:** Flexible torch positioning (also while driving) via cross support (50 mm x-y), suitable for torch necks up to 25 mm diameter
- **Flexible seam tracking:** Integrated magnet
- **Increased speed:** Welding tractor operates at a precisely adjustable speed up to 1200 mm/min
- **Convenient additional functions:** Auto start/stop, manually controllable end crater fill for current sources with 4-cycle control system (pre-, main, re-welding cycle and welding end)
ABI-CAR Accessories

Connector Cable

**Jumper Leads**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jumper to TWECO® 1/4” spades</td>
<td>175.9120</td>
</tr>
<tr>
<td>Jumper to LINCOLN® 5-Pin amphenol</td>
<td>175.9121</td>
</tr>
<tr>
<td>Jumper to ESAB® 2-Pin twist lock</td>
<td>175.9148.US</td>
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<tr>
<td>Jumper to PANASONIC® / OTC® 2-Pin female</td>
<td>175.9126</td>
</tr>
<tr>
<td>Jumper to FRONIUS® rectangular multi-pin</td>
<td>175.9134.US</td>
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</table>

**Brackets**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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</thead>
<tbody>
<tr>
<td>ABICAR Bracket for SpinArc Torch</td>
<td>979.0075</td>
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## Track System

### Track System

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>1</td>
<td>ABI-CAR E-1200 Series Track Kit 1.8m (71&quot;) with ON/OFF Magnets</td>
<td>522.0141.1</td>
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<tr>
<td>2</td>
<td>ABI-CAR E-1200 Series Track Section 1.8m (71&quot;)</td>
<td>522.0175.1</td>
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<tr>
<td>N/S</td>
<td>ABI-CAR E-1200 Series Track Section 1.0m (39.375&quot;)</td>
<td>522.0176.1</td>
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<td>3</td>
<td>ABI-CAR E-1200 Series Bolt-On Track Guide Set</td>
<td>522.0178.1</td>
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<tr>
<td>4</td>
<td>Magnet ON/OFF with Screws</td>
<td>522.0177.1</td>
</tr>
</tbody>
</table>

![Diagram of Track System Components]

1. [Image of ABI-CAR E-1200 Series Track Kit 1.8m (71") with ON/OFF Magnets]
2. [Image of ABI-CAR E-1200 Series Track Section 1.8m (71")]
3. [Image of ABI-CAR E-1200 Series Bolt-On Track Guide Set]
4. [Image of Magnet ON/OFF with Screws]
**ABI-CAR welding tractors.**

- Driving carriage with control unit
- Power supply input: 120 – 240 V
- Output for control cable: 24 V
- Cross support
- Steering cable set for MIG/MAG wire feeding cases for common start of tractor and current source (open wire end)
- Torch clamping (multi-axis adjustable)
- Complete radius oscillator unit with control (only with ABI-CAR-E-1200-O)

**Package with ABI-CAR.**

Together with ABICOR BINZEL you will find the complete system solution for your welding task.

The experts at ABICOR BINZEL will be happy to advise you how to complete an optimal ABI-CAR package.

**Package ABI-CAR with either:**

- ABIMIG® SpinArc®
- AUT Torch Series
- DELTA-MIG®
- ABIMIG® Torch Series