



# Welding & Cutting Solutions

**JEI**  
Solutions  
.....  
Built for Industry

In partnership  
with Promotech



**STEELBEAST<sup>®</sup>**

Shaping the way you work with steel

# TABLE OF CONTENTS

<b>PRODUCT</b>	<b>PAGE</b>
<b>MINI SPIDER</b>	<b>3</b>
<b>GECKO BATTERY</b>	<b>4</b>
<b>GECKO</b>	<b>5</b>
<b>SCORPIO</b>	<b>6</b>
<b>LIZARD</b>	<b>7</b>
<b>MANTIS</b>	<b>8</b>
<b>DRAGON BATTERY</b>	<b>9</b>
<b>DRAGON / DRAGON HS</b>	<b>10</b>
<b>RAIL BULL</b>	<b>11</b>
<b>RAIL TUG</b>	<b>12</b>
<b>RAIL TITAN</b>	<b>13</b>
<b>JOINT TRACKING SYSTEM</b>	<b>14</b>
<b>OSC-8 PRO</b>	<b>15</b>
<b>RING &amp; HI-FLEX TRACKS SYSTEMS</b>	<b>16</b>
<b>SEMI-FLEXIBLE &amp; RIGID TRACKS SYSTEMS</b>	<b>17</b>
<b>WIRE FEEDER BOOMS</b>	<b>18</b>
<b>WA COMPACT</b>	<b>19</b>
<b>MINI COLUMN &amp; BOOM</b>	<b>20</b>
<b>COLUMN &amp; BOOMS</b>	<b>21</b>
<b>PIPE PROFILE CUTTING MACHINE</b>	<b>22</b>
<b>WELDING POSITIONERS &amp; MODULAR WELDING STATION</b>	<b>23</b>

# STEELBEAST®

## UPDATED

# MINI SPIDER

## FILLET WELDING TRACTOR



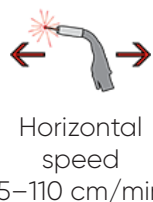
The **MINI SPIDER** is a battery-powered welding tractor engineered for continuous, precise fillet welds using MIG/MAG torches. Its torch can be quickly switched from one side to the other, allowing the operator to weld the entire workpiece seamlessly from end to end.

Equipped with a 4-wheel drive system and a permanent magnetic base, the **MINI SPIDER** delivers strong traction and smooth, consistent movement. An advanced feedback loop ensures highly efficient speed stabilisation, maintaining optimal welding conditions at all times.

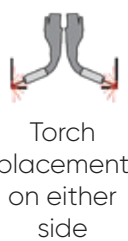
A digital speed readout guarantees repeatable welds and precise bead geometry, reducing over-welding and cutting filler metal usage. Powered by the CAS LiHD battery, **MINI SPIDER** handles even the toughest applications without the need for cumbersome cables, combining mobility with uncompromising performance.



Continuous welding



Horizontal speed  
5-110 cm/min



Torch placement on either side



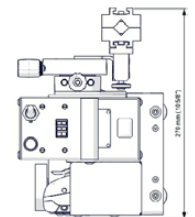
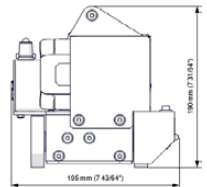
Welding in narrow spaces



Weight  
7.6 KG

### Features and benefits

- **Closed-loop speed control:** Stabilises travel speed for uniform heat input, ensuring consistently high-quality welds.
- **Compact and lightweight design:** Ideal for welding in tight or confined spaces.
- **18 V DC battery:** Shared with both Mini Spider and Gecko Battery models for convenience and flexibility.
- **Digital LED display:** Allows presetting of travel speed and provides clear diagnostic messages.
- **Low-battery indicator:** Alerts the operator before power runs out.
- **Torch placement:** Can be mounted on either side.
- **Edge-to-edge welding capability:** Perfect for applications such as stiffener welding in bridge structures.



### New battery pack control system:

- Too low and too high voltage.
- Too low and too high temperature.
- Failure of the temperature sensor.
- Internal battery failure.

### Benefits:

- Over discharge protection.
- Extended battery life.
- High level of safety for both tractor and operator.

FOR  
MORE INFO  
SCAN HERE



# STEELBEAST®

## UPDATED

CAS  
CORDLESS  
ALLIANCE  
SYSTEM™

# GECKO BATTERY

## MOBILE WELDING TRACTOR



The **GECKO BATTERY** is a battery-powered, trackless welding tractor engineered for continuous butt and fillet welds with MIG/MAG torches. Powered by the CAS LiHD battery, it delivers enough energy to handle even the toughest applications—completely cable-free.

Its 4-wheel drive system combined with magnetic traction and an advanced feedback loop ensures smooth, stable movement across a variety of welding positions.

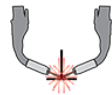
With constant, repeatable travel speeds, the **GECKO BATTERY** produces weld bead geometry that matches exact specifications, reducing over-welding and significantly lowering filler metal usage.



Continuous welding



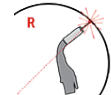
Horizontal speed  
0–110 cm/min



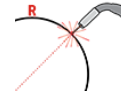
Dual torch welding



Dual arc ignition



Min. path  
concave radius  
800 mm



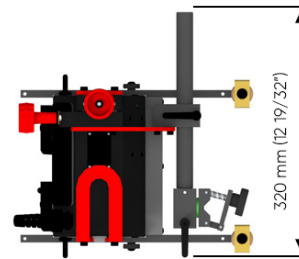
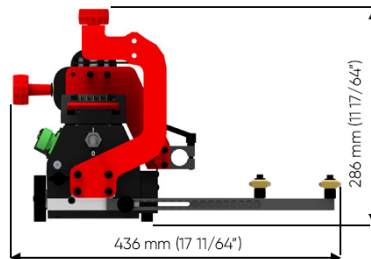
Min. path  
convex radius  
600 mm



Weight  
8 KG

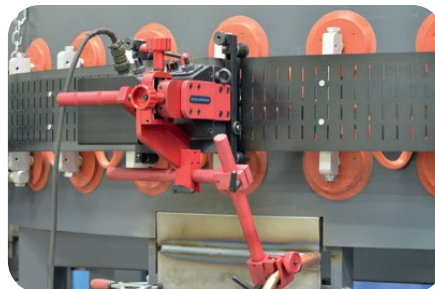
### Applications:

- Trailer manufacturing
- Truck tanks
- Oil tanks
- Water storage tanks
- Transformers
- Shipyards
- Any application demanding a long, continuous fillet weld.



### Primary features and benefits:

- **18 V DC battery supply:** Shared with both Mini Spider and Gecko Battery for maximum convenience.
- **Built-in Oscillator Socket:** Powers external OSC-8 Pro Pendulum Oscillator.
- **LiHD battery technology:** Provides long-lasting, high-power performance for demanding applications.
- **Intelligent battery management:** Extends battery life and ensures reliable operation.
- **Digital speed control & stabilisation:** Guarantees consistent, high-quality welds.
- **Multifunctional LED display:** Shows travel speed, measurement units, and diagnostic messages at a glance.
- **Compact, lightweight design:** Durable aluminium cast housing allows easy handling in tight spaces.
- **Versatile with optional accessories:** Adaptable for welding carbon steel, stainless steel, and aluminium.
- **Torch timing control:** Ensures full weld fill at both seam ends.



# STEEL BEAST®

## GECKO

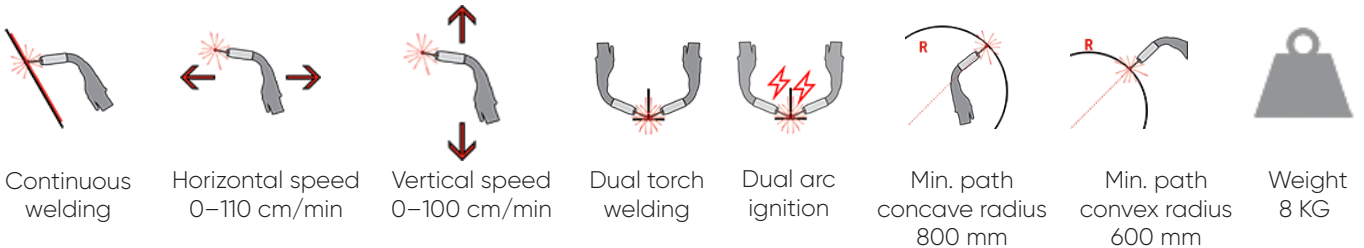
### COMPACT WELDING TRACTOR



The **GECKO** is a portable, trackless welding tractor featuring a 4-wheel drive system with magnetic traction and a control-loop feedback mechanism that ensures speed stabilisation across all welding positions.

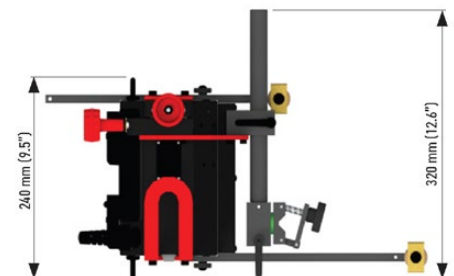
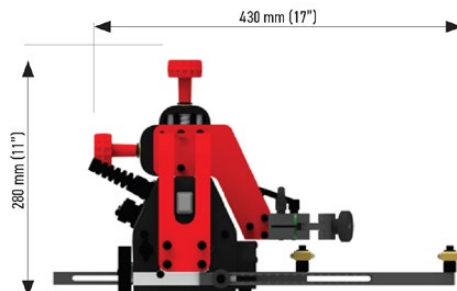
Its constant, continuous, and repeatable travel speed produces weld bead geometry that precisely meets specifications, reducing over-welding and significantly lowering filler metal usage. Operators can also select arc ignition times of up to 5 seconds at the start and end of travel to achieve optimal weld fill at both ends.

With a compact 8 kg design and a wide range of optional accessories, the **GECKO** is versatile enough for diverse welding positions and applications, while remaining easy to transport and handle.



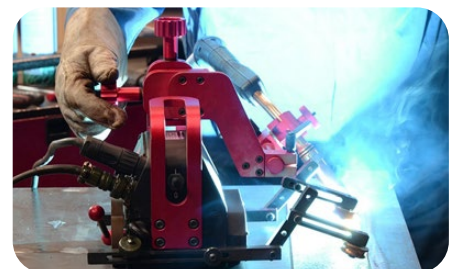
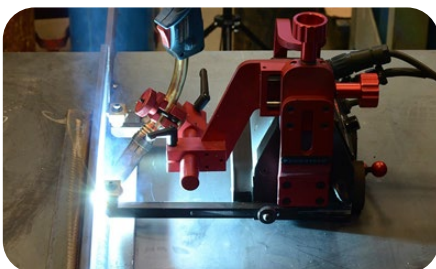
#### Applications:

- Trailer manufacturing
- Truck tanks
- Oil tanks
- Water storage tanks
- Transformers
- Shipyards
- Any application demanding a long, continuous fillet weld.



#### Primary features and benefits:

- **Closed-loop speed control:** Stabilises travel speed for uniform heat input and consistently high-quality welds.
- **Multifunctional LED display:** Shows travel speed, units, and diagnostic messages at a glance.
- **4-wheel drive with magnetic traction:** Enables reliable out-of-position welding.
- **Adjustable torch activation:** Pre-set arc start and stop times for optimal weld seam filling at both ends.
- **Flexible power supply:** Operates on 115–230 V, 50–60 Hz or 42 V, 50–60 Hz.
- **High efficiency:** Produces consistent welds and cuts much faster than manual operations.
- **Reduced filler metal usage:** Eliminates over-welding, saving material and cost.



# SCORPIO BATTERY

## CORDLESS WELDING TRACTOR



The **SCORPIO BATTERY** is a battery-powered, programmable welding tractor engineered for fillet and butt welds in both stitch and continuous welding modes. Its programmable path function allows operators to set weld parameters such as weld length, skip length, and crater filling at the start and end of each weld.

Powered by the CAS LiHD (High-Density Lithium-ion) battery, **SCORPIO BATTERY** delivers reliable, cable-free power even for the toughest applications. Travel speed control and stabilisation ensure precise weld bead geometry, reducing over-welding and significantly lowering filler metal usage.

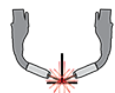
With the optional pendulum oscillator, the **SCORPIO BATTERY** can also perform weave welds, offering precise control over weave width, speed, and left/right dwell times for maximum flexibility and weld quality.



Continuous welding



Stitch welding



Dual torch welding



Dual arc ignition



Horizontal speed  
5–130 cm/min  
(2–51 in/min)



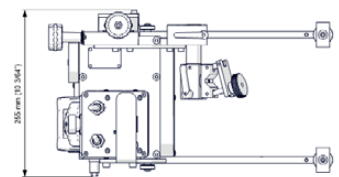
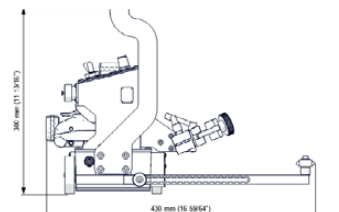
Store up to 40  
welding programs



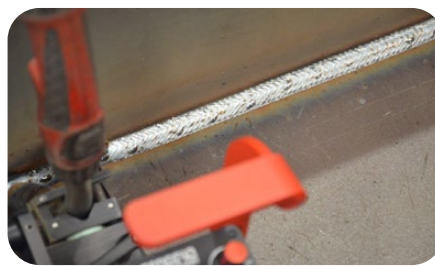
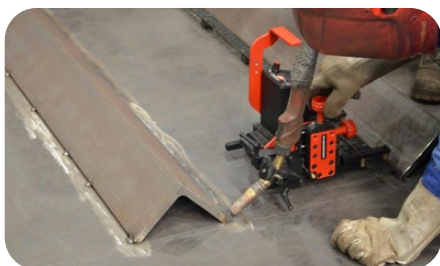
Weight  
7 KG

### Primary features and benefits:

- **Ergonomic programming:** Simple setup of welding patterns and stitch welding parameters.
- **Multifunctional LED display:** Shows travel speed, units, welding settings, and diagnostic messages.
- **Closed-loop speed control:** Stabilises travel speed for uniform heat input and consistently high-quality welds.
- **18 V DC LiHD battery:** Provides long-lasting, high-power performance for extended use.
- **Intelligent battery management:** Ensures safe operation and prolonged battery life.
- **4-wheel drive with magnetic traction:** Guarantees stable movement across all welding positions.
- **Compact, lightweight design:** Durable aluminium cast housing makes handling easy.
- **Optional pendulum oscillator:** Enables precise weave welds.
- **Versatile accessories:** Adaptable for carbon steel, stainless steel, and aluminium applications.
- **Equipped with limit switches:** Ensures precise positioning and safety.



FOR  
MORE INFO ON  
SCORPIO BATTERY  
SCAN HERE



# STEELBEAST®



## LIZARD

### PROGRAMMABLE WELDING TRACTOR



The **LIZARD** is a portable, programmable, trackless welding tractor designed for consistently high-quality welds. It can be programmed for both continuous and stitch welding modes, and welder-friendly two-function buttons allow storage of up to 40 different welding programs for various joint configurations, multi-pass, and multi-layer welds.

Its constant, continuous, and repeatable travel speed ensures weld bead geometry that precisely meets specifications, reducing over-welding and minimising filler metal usage.

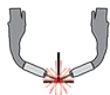
The **LIZARD** can also perform weave welds using an optional pendulum oscillator, which provides precise control over weave width, speed, and left/right dwell times—especially useful for vertical welding applications.



Continuous welding



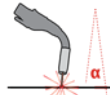
Stitch welding



Dual torch welding



Dual arc ignition



Angular Oscillation



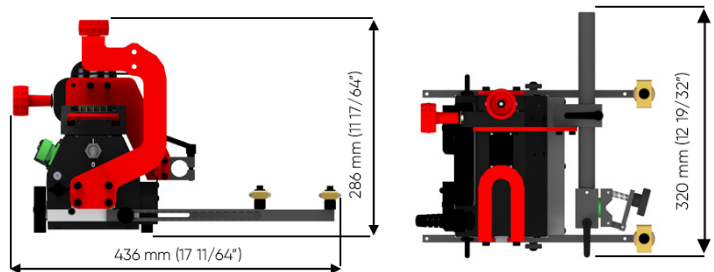
Store up to 40 welding programs



Weight 14 KG

#### Applications:

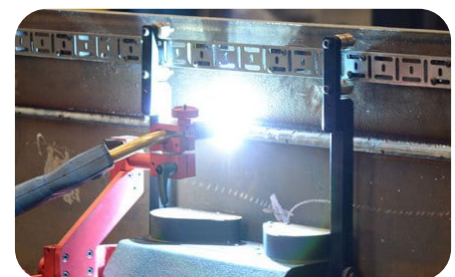
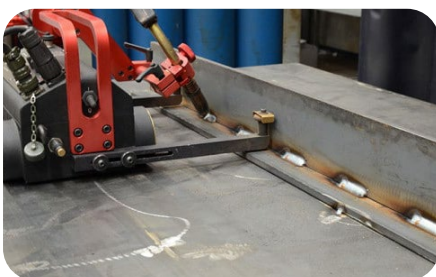
- Trailer manufacturing
- Truck tanks
- Oil tanks
- Water storage tanks
- Transformers
- Shipyards
- Any application demanding a long, continuous fillet weld.



#### Primary features and benefits:

- **Program memory:** Stores up to 40 complete welding programs in non-volatile memory for consistent, repeatable welds.
- **Multifunctional LCD & 2-function buttons:** Program welding patterns and parameters, including weld length, stitch spacing, reverse fill, crater fill time, and more.
- **Closed-loop speed control:** Stabilises travel speed for uniform heat input and consistently high-quality welds.
- **Full-speed travel between stitches:** Saves valuable welding time without compromising quality.
- **Optional torch oscillator:** Enables precise weave welds for complex applications.
- **4-wheel drive with magnetic traction:** Allows stable, out-of-position welding.
- **Compact, lightweight design:** Durable aluminium cast housing ensures portability and longevity.
- **Flexible power supply:** Operates on 115–230 V, 50–60 Hz or 42 V, 50–60 Hz.

FOR MORE INFO ON THE LIZARD SCAN HERE



# STEELBEAST®



# MANTIS

## CORDLESS DUAL TORCH WELDING TRACTOR



The **MANTIS** Battery is a specialized welding tractor engineered for precise and efficient welding of steel profiles used as reinforcement elements in various steel structures. It is ideal for flat bars, angle profiles (L), T-bars, bulb flats ("bulb profiles"), I-beams, H-beams, and channels (C-profiles).

The **MANTIS** allows operation with two torches simultaneously, in either continuous or intermittent welding mode. Its programmable welding path function enables operators to set parameters such as weld length, skip length, and crater filling at the start and end of each weld for consistent results.

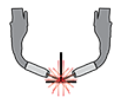
Powered by an 18 V DC Lithium-Ion High-Density (LiHD) battery, the **MANTIS** delivers extended runtime sufficient for a full shift. This battery is compatible with other PROMOTECH cordless machines, providing maximum convenience and flexibility on site.



Continuous welding



Stitch welding



Dual torch welding



Dual arc ignition



Horizontal speed  
5–130 cm/min



Weight  
7 KG

### Features and benefits:

- **Battery-powered programmable welding tractor:** Travels along steel profiles such as flats, angles, I-beams, T-beams, bulb flats, and irregularly shaped workpieces with a radius down to 160 mm.
- **Dual-sided operation:** Supports two torches simultaneously in continuous or intermittent welding mode.
- **Ergonomic programming:** Simple, user-friendly setup of weld patterns and stitch welding parameters.
- **Multi-functional LED display:** Shows travel speed, units, welding settings, and diagnostic messages.
- **18 V DC power:** Ensures safe operation in harsh environments such as shipyards, which are often wet, metallic, and confined.
- **LiHD battery with intelligent management:** Delivers maximum power availability over extended periods for full-shift operation.
- **Closed-loop speed control:** Stabilises travel speed to provide uniform heat input and consistently high-quality welds.

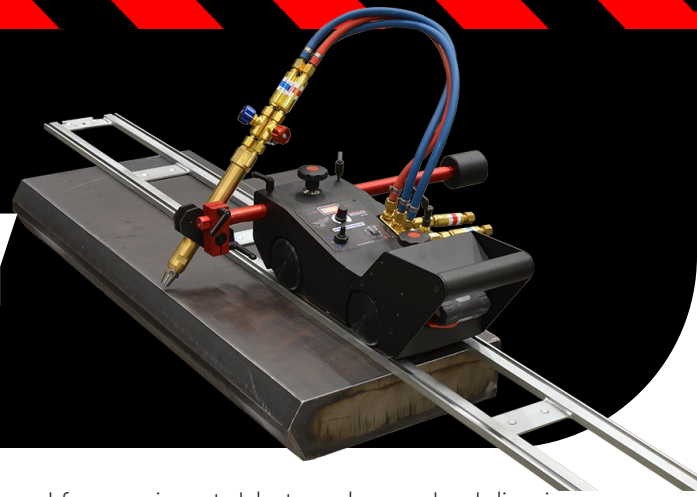


# STEELBEAST®



# DRAGON BATTERY

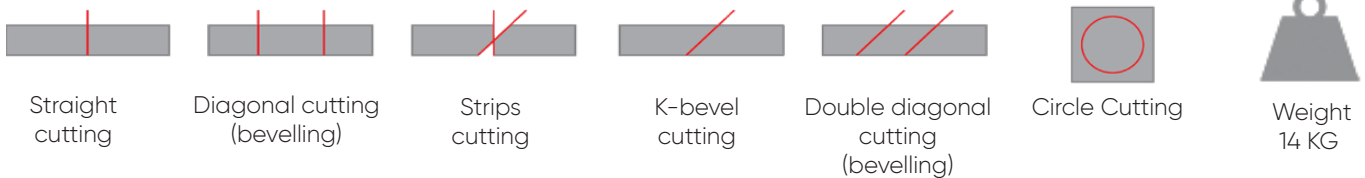
## MOBILE WELDING TRACTOR



The **DRAGON BATTERY** is a cordless thermal cutting tractor designed for precise, stable travel speeds, delivering accurate cuts and bevels every time. It operates on any standard 6" V-grooved track for maximum versatility.

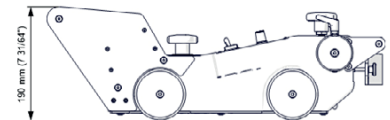
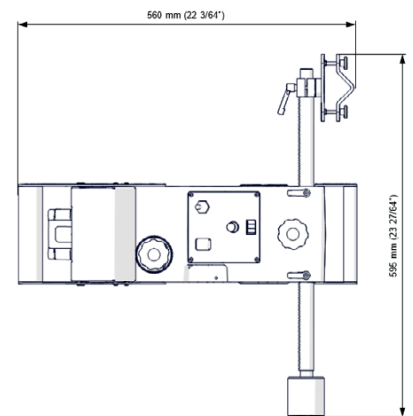
Powered by a LiHD (High-Density Lithium-ion) battery, the **DRAGON BATTERY** handles even the most demanding applications without the need for power cables. Intelligent battery management ensures long battery life and safe, reliable operation.

A wide range of optional accessories, including machine barrel torch holders, manifolds, circle-cutting attachments, and a plasma kit, makes the **DRAGON BATTERY** adaptable for a variety of cutting applications.

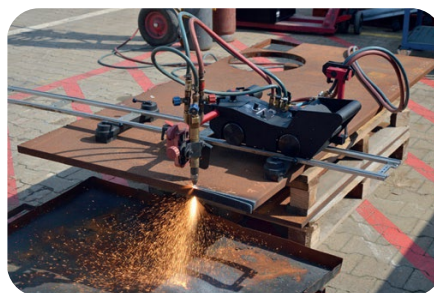


### Features and benefits:

- **Field-ready operation:** No mains power required—one less cable to carry.
- **18 V DC battery:** Convenient and compatible with other tools in the range.
- **LiHD battery with intelligent management:** Ensures maximum power availability over extended periods.
- **Digital speed control & stabilisation:** Guarantees high-quality cuts and consistent results.
- **Versatile cutting & beveling:** Up to 45°, or parallel cuts using two torches.
- **LED display:** Shows actual and set speeds, as well as diagnostic messages.
- **Flexible mounting:** Runs on a rail or directly on the workpiece.
- **Quick drive release:** Allows easy re-positioning.
- **Ergonomic handles:** Comfortable dual-side handles make carrying simple and safe.



FIND OUT-MORE ABOUT DRAGON BATTERY HERE



# STEELBEAST®

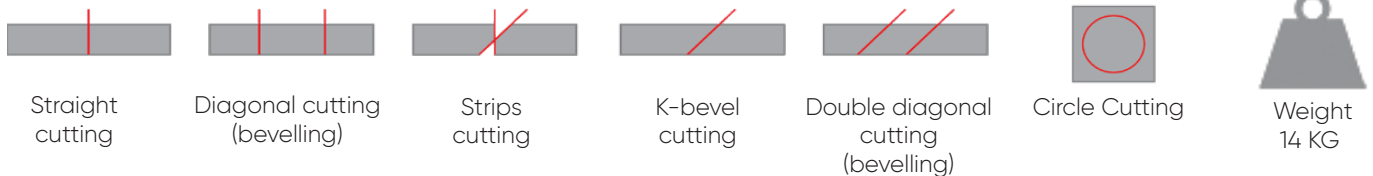
## DRAGON / HS

### CUTTING & BEVELLING TRACTOR



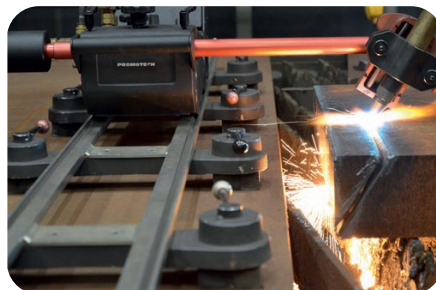
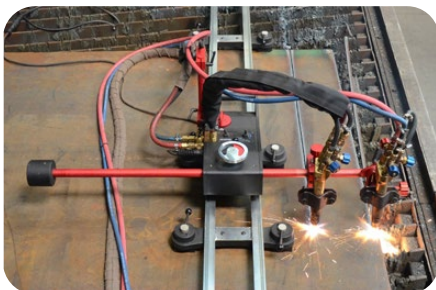
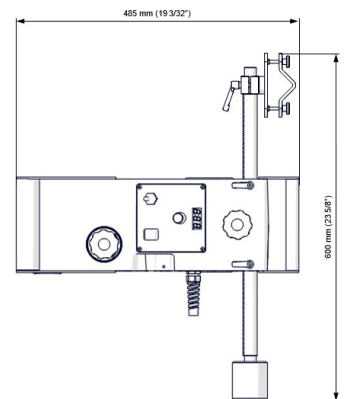
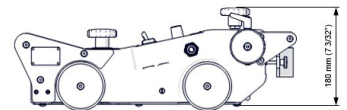
The **DRAGON / HS** is a flame-cutting tractor designed for precise, stable travel speeds, delivering accurate cuts and bevels. It operates on any standard 6" V-grooved track, making it highly versatile for various setups.

A wide range of optional accessories, including machine barrel torch holders, manifolds, and circle-cutting attachments, extends its capabilities across multiple applications. For even faster operations, high-speed plasma cutting and beveling are available with the **DRAGON / HS** model.

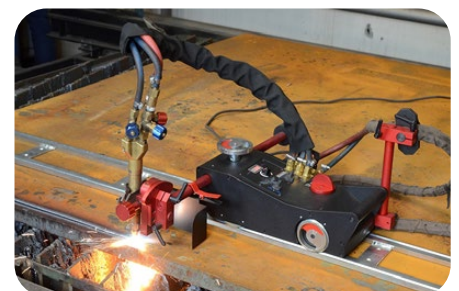
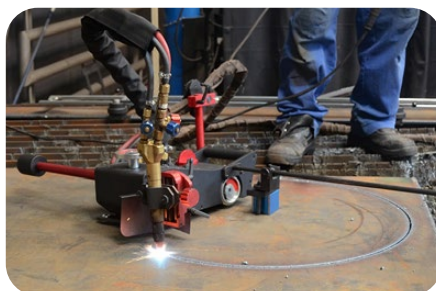
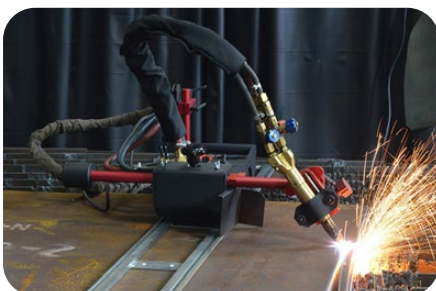


#### Features and benefits:

- **Digital speed control & stabilisation:** Ensures high-quality, precise cuts.
- **Versatile cutting & beveling:** Up to 45°, or parallel cuts using two torches.
- **LED display:** Shows actual and set speeds, along with diagnostic messages.
- **Quick drive release:** Allows fast and easy repositioning.
- **Flexible operation:** Runs on a rail or directly on the workpiece.
- **Convenient power supply:** 115–230 V, 50–60 Hz; 42 V AC version also available.



FOR  
MORE INFO  
ON THE  
DRAGON  
SCAN HERE



# STEEL BEAST®

## RAIL BULL

### TRACK WELDING TRACTOR WITH OSCILLATOR



The **RAIL BULL** is a digitally controlled welding tractor equipped with an integrated linear oscillator for producing precise straight and trapezoid weld paths. It can travel along rigid or semi-flexible tracks and is suitable for a variety of circumferential and irregular surface applications down to a minimum radius of 5000 mm.

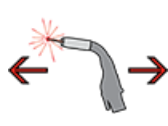
Tracks can be securely mounted on ferrous materials using magnetic units, or on non-ferrous materials with a vacuum track system, including vacuum pump and vacuum units. Featuring a rack-and-pinion drive system with electronic speed control, the **RAIL BULL** delivers consistent, high-quality welds in flat, vertical, or horizontal positions.



Continuous welding



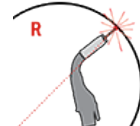
Linear oscillation with trapezoid and straight line paths



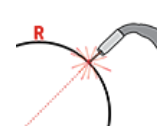
Horizontal speed 0–120 cm/min



Vertical speed 0–110 cm/min



Min. path concave radius 5000 mm



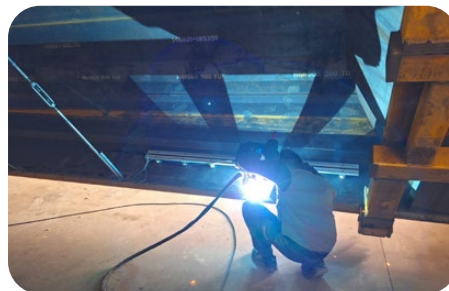
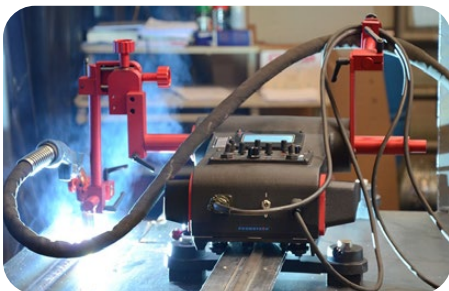
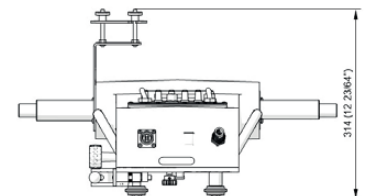
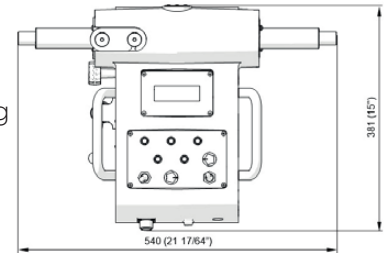
Min. path convex radius 5000 mm



Weight 16.5 KG

#### Features and benefits:

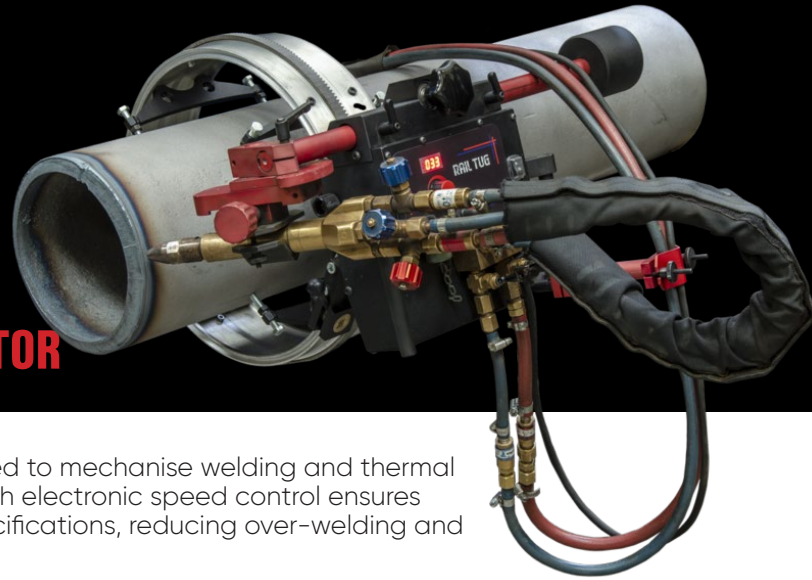
- **Closed-loop position control:** Electric motor with encoder ensures precise speed and positioning.
- **Integrated linear oscillator:** Enables weave welding and overlay applications.
- **Multifunctional LCD:** Displays process parameters and warning messages.
- **Compact, lightweight design:** Durable aluminium cast housing for easy handling and portability.
- **Flexible power supply:** Operates on 115–230 V, 50–60 Hz or 42 V, 50–60 Hz.
- **High efficiency:** Produces consistent, high-quality welds and cuts much faster than manual operations.



# STEELBEAST®

## RAIL TUG

### TRACK WELDING & CUTTING TRACTOR



The **RAIL TUG** is a digitally controlled tractor engineered to mechanise welding and thermal cutting processes. Its rack-and-pinion drive system with electronic speed control ensures weld bead geometry that precisely matches your specifications, reducing over-welding and minimising filler metal usage.

The **RAIL TUG** can operate on semi-flexible tracks for plates and tanks with a minimum radius of 5 m (16 ft), or on bent ring rails for pipe and tube applications. Hi-Flex tracks accommodate a variety of circumferential and irregular surfaces down to a minimum radius of 750 mm (30"), while standard ring tracks cover tube diameters from 200 mm (8") up to 3000 mm (10 ft).

For non-ferrous surfaces such as stainless steel and aluminium, the vacuum system securely clamps the tracks in place. The **RAIL TUG** provides an economical solution for a wide range of welding and cutting applications on flat or curved plates, tubes, and pipes.



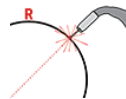
Continuous welding



Horizontal speed  
10–200  
cm/min



Vertical speed  
10–200  
cm/min



Min. path convex  
radius for  
semi-flexible  
tracks is 5 m (16 ft)



Ring tracks from  
200 mm OD upto  
3 meter OD



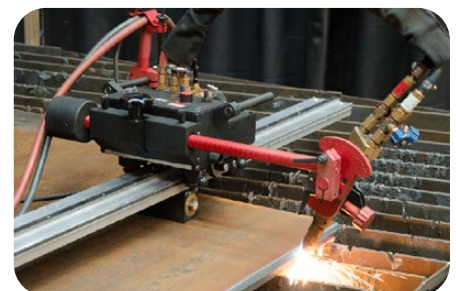
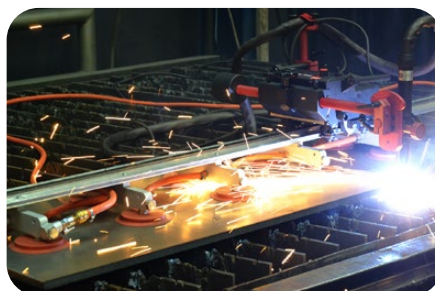
Hi Flex track Min.  
OD 1500 mm

#### Features and benefits:

- **Compact, lightweight design:** Easy to handle and transport.
- **Closed-loop speed control:** Maintains consistent travel speed for uniform weld quality.
- **Rack-and-pinion drive system:** Ensures smooth, precise movement.
- **Consistent heat input:** Minimises distortion and improves weld integrity.
- **Reduced filler metal usage:** Prevents over-welding and saves material costs.
- **Digital LED display:** Allows easy presetting and monitoring of travel speed.
- **Automatic arc on/off:** Synchronises welding and travel for optimal efficiency.
- **Versatile cutting capability:** Oxy-fuel and plasma cutting possible with optional accessories.
- **Adaptable for complex shapes:** Suitable for circumferential and irregular surface applications.
- **Ring tracks:** Compatible with diameters from 200 mm (8") up to 3 m (10 ft) OD.
- **Hi-Flex tracks:** For diameters from 1500 mm (59") OD upwards.
- **Semi-flexible tracks:** Bendable to a minimum radius of 5 m (16 ft).
- **Quick-clamping torch holder:** Accommodates various torch types for faster setup.
- **Improved working environment:** Keeps the operator away from heat and fumes.



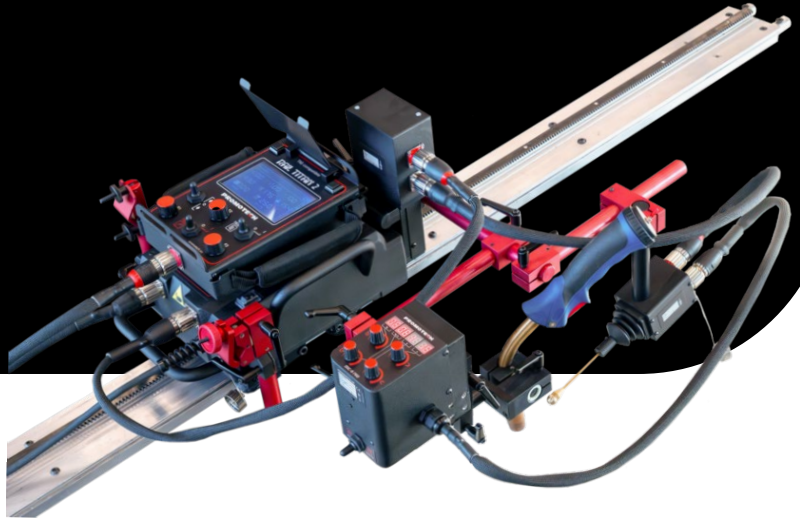
**FIND OUT  
MORE ABOUT  
RAIL TUG  
HERE**



# STEEL BEAST®

## RAIL TITAN

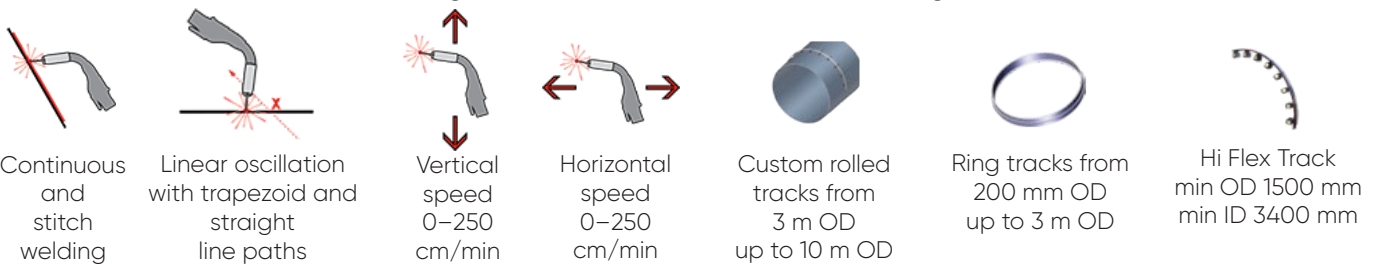
### MODULAR TIG-MIG-MAG WELDING & CUTTING RAIL TRACTOR



The **RAIL TITAN** is a fully modular mechanised tractor designed for maximum versatility across multiple applications, including TIG, MIG, MAG welding, as well as oxy-fuel cutting, plasma cutting, and gouging. Engineered for precision and adaptability, it performs seamlessly on flat or curved plates, tubes, and pipes.

Equipped with a linear torch oscillator, the **RAIL TITAN** can produce a range of weld paths—straight, triangular, trapezoidal, or square—to suit different welding needs.

The **RAIL TITAN** operates on hi-flex, semi-flexible, rigid, or ring tracks, which can be securely mounted to ferrous materials using magnetic units. For non-ferrous materials, a vacuum track system with pump and vacuum units provides reliable attachment, ensuring stable and accurate travel in all configurations.

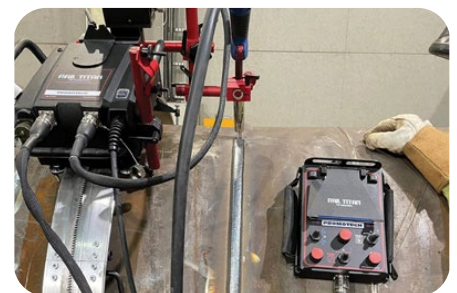
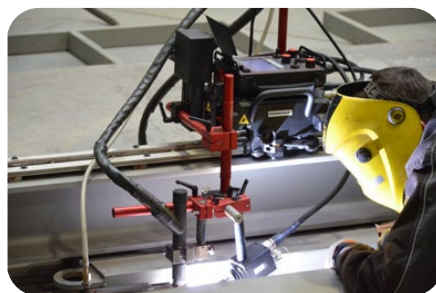


#### Features and benefits:

- **Compact, robust design:** Die-cast aluminium housing ensures durability and long service life.
- **HF-resistant – ideal for TIG welding:** Fully compatible with TIG, MIG, MAG, oxy-fuel, and plasma processes.
- **Ergonomic remote control pendant:** Simple, easy-to-find control knobs allow adjustment without lifting the welding hood.
- **Programmable stitch weld paths:** Ensures repeatable and precise welding cycles for consistent results.
- **Mirror Switch function:** Quickly reverses travel direction for efficient setup and operation.
- **Closed-loop speed control system:** Delivers uniform travel and stable heat input for high-quality welds.
- **Suitable for circumferential and irregular surfaces:** Operates down to a minimum radius of 100 mm.
- **Compatible with multiple track types:**

- **Ring tracks:** Ø from 200 mm up to 3 m.
- **Hi-Flex tracks:** Ø from 1500 mm upwards.
- **Semi-flexible tracks:** bendable to min. radius of 5 m without deformation.

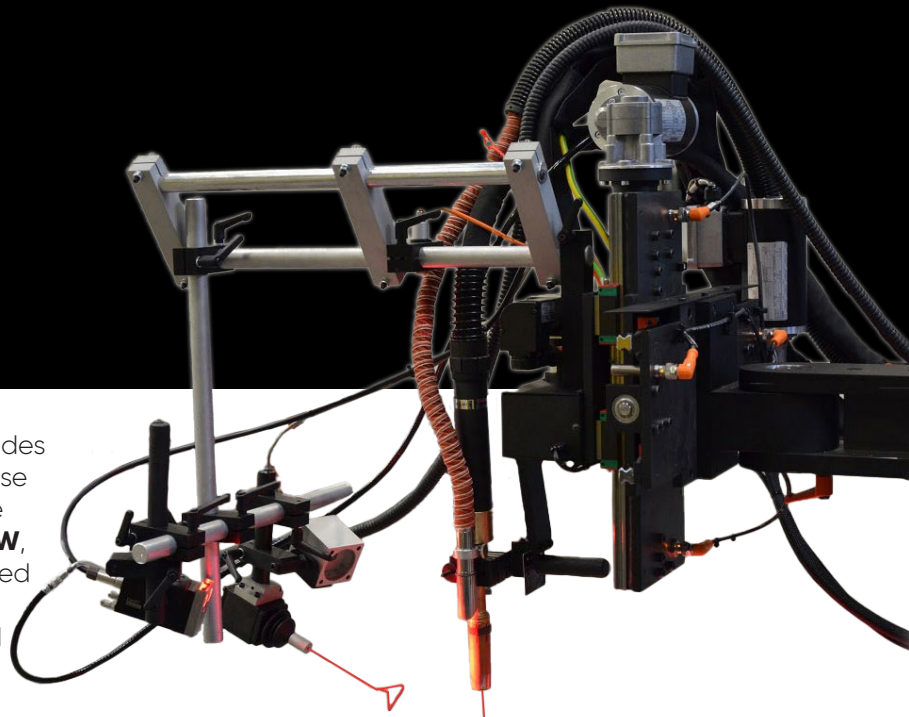
FOR  
MORE INFO  
SCAN HERE



# STEELBEAST®

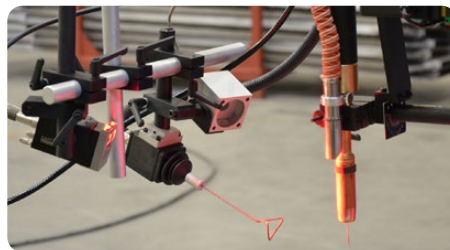
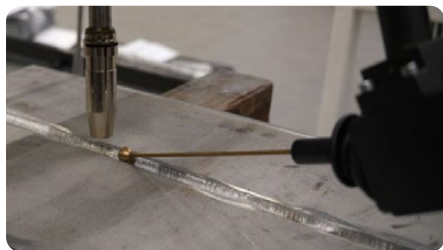
## JTS

### AUTOMATIC JOINT TRACKING SYSTEM



The **Joint Tracking System** automatically guides the welding torch in two axes, ensuring precise alignment with the weld joint throughout the process. It is suitable for **GMAW, GTAW, FCAW,** and **SAW** applications and can be easily fitted to column and boom manipulators, gantry welding systems, or other purpose-designed welding setups.

The electro-mechanical seam tracking system maintains the torch position relative to the weld groove established at the start of the weld. Any change in the inclination of the tracking sensor tip generates an electrical signal that triggers active compensation of the torch position, with motion of up to 200 mm in both axes on the standard motorised cross-slide system. The movement range can be customised upon request.



#### Features and benefits:

- **Movement Range:** Standard travel of 200 × 200 mm.
- **Precision Tracking:** Electro-mechanical joint tracking system with high-precision line guides ensures smooth, accurate motion in two axes (up-down, right-left).
- **Real-Time Compensation:** Automatically adjusts torch head position relative to the welding groove.
- **Quality Results:** Minimises welding defects and reduces grinding requirements.
- **Customisable Design:** Cross slide can be tailored to individual customer needs.
- **Operator Friendly:** Simple, user-friendly control pendant for easy operation.
- **Flexible Functionality:** Option to track on a single Z-axis (up-down), ideal for butt welding.
- **System Integration:** Can be combined with a welding oscillator for greater versatility.
- **Versatile Application:** Perfect for fillet and butt welding on tanks, vessels, and structural beams.
- **Optional Feature:** Optional oscillation unit available.

#### Interchangeable Sensor Tips:

A range of tip designs allows precise alignment with different weld groove types, ensuring accurate and reliable seam tracking across a wide variety of welding applications.



**Ball Tip:** Used for tracking butt and fillet welds without tacking. The joint geometry must allow for stable ball movement.

**Fork Tip:** Ideal for tracking fillet welds with or without tacking, as well as for multi-pass welding.

**Bent Tip:** Suitable for tracking fillet welds with or without tacking.

**Adapter Tip:** Designed for tracking small-dimension butt welds where the ball tip cannot be used. Tacking should be avoided in this case.

# STEEL BEAST®

## OSC-8 PRO

### PENDULUM OSCILLATOR WITH LED DISPLAY

UPDATED

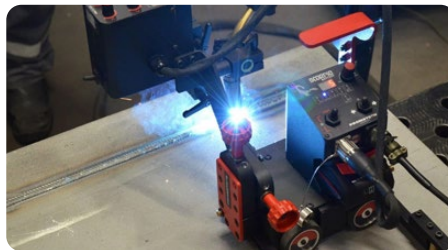


The **OSC-8 PRO** is a next-generation pendulum oscillator featuring a built-in LED display and an intuitive control panel for easy pre-setting of four key welding parameters: oscillation width, oscillation speed, and left/right dwell times.

This advanced unit offers an ideal weave welding solution for a wide range of applications, including pipes, tubes, vessels, flanges, and fittings.

Compact and versatile, the portable **OSC-8 PRO** can be used with track-mounted or trackless welding carriages, welding positioners, turning rolls, or integrated into existing welding systems such as column and boom manipulators. It can also operate independently using rugged freestanding supports.

The **OSC-8 PRO** can be integrated with a range of external devices, enabling more advanced welding setups with expanded operating modes, power supply options, and customisable weld paths.



#### Features and benefits:

- **Lightweight and compact design:** Easy to position and integrate into any welding setup.
- **Multiple weld path options:** Supports triangle and trapezoid oscillation patterns.
- **Ergonomic control panel:** Four intuitive knobs for fast, accurate parameter adjustment.
- **Digital LED display:** Provides precise setting and reading of oscillation parameters, while displaying system status, safety alerts, and diagnostic messages.
- **Dual control modes:** Operate manually or via external start for integration with automated systems.
- **Flexible operation:** Functions as a stand-alone unit or as part of a comprehensive welding system with tractors, columns and booms, positioners, or gantry systems.
- **Four adjustable parameters:** Control oscillation width, oscillation speed, and left/right dwell times for precise weave welding.

The compact **OSC-8 PRO** is designed for easy installation and quick deployment in different work environments. Its lightweight construction makes it ideal for fieldwork and confined spaces. It can be used in multiple configurations:

- As a stand-alone unit for independent operation.
- With track-mounted & trackless welding tractors, such as: GECKO, GECKO Battery, RAIL BULL, RAIL TUG, RAIL TITAN, and SCORPIO Battery.
- Mounted on column & boom or gantry systems for heavy fabrication applications, such as WA Compact, and the Mini Column & Boom System.
- With optional freestanding support and positioners for cylindrical and rotating workpieces, such as the PRO-WP 150, PRO-WP 300, PRO-WP 300P, and the PRO-WP 750P.

# STEELBEAST®

## TRACK SYSTEMS

### FOR RAIL TRACTORS

#### RING TRACKS

- For circumferential applications from 200 mm OD up to 3000 mm OD (from 8" to 10 ft).
- Consists of either two or four segments depending on the workpiece diameter.
- Nominal OD diameter can be adjusted upwards by 50 mm.
- Nominal OD diameter can be adjusted downward by 50 mm by means of optional bracket for ring track supports.
- Can be fixed on both ferrous & non-ferrous materials by means of 3 types of supports.



#### FOR USE WITH

RAIL TITAN

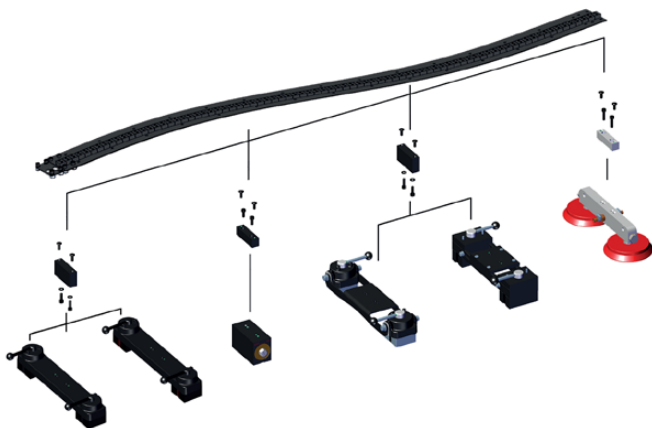


RAIL TUG



#### HI-FLEX TRACK

- For circumferential, irregular, and straight line applications.
- Minimum curve radius on a convex surface is 0.75 m (30").
- Minimum curve radius on a concave surface is 1.7 m (67").
- Minimum OD 1.5 m (60") for external run.
- Length of a single rail 1.52 m (5 ft).
- The maximum number of units is 15 pcs (if narrow magnetic units are used).
- Joinable for unlimited run length.
- Can be fixed on both ferrous and non-ferrous materials by means of magnetic or vacuum units to allow travel in any plane or position..



#### FOR USE WITH

RAIL TITAN



RAIL TUG



# STEEL BEAST®

# TRACK SYSTEMS

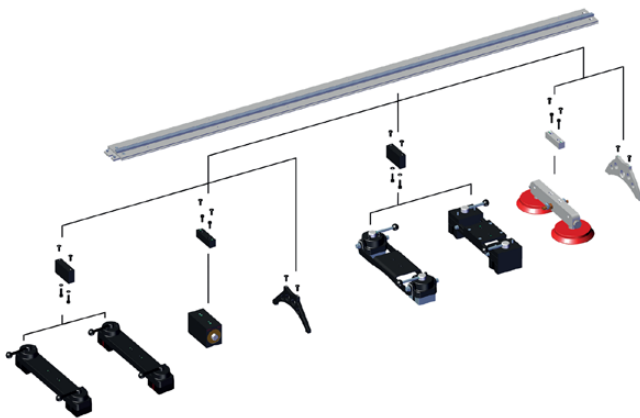
## FOR RAIL TRACTORS

FOR  
MORE INFO  
SCAN HERE



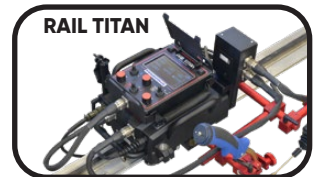
### SEMI-FLEXIBLE TRACK

- For circumferential, irregular, and straight line applications.
- Minimum radius of 5.0 m or 10.0 m diameter without permanent deformation.
- Length of a single rail 2 m.
- Joinable for unlimited run length.
- Can be fixed on both ferrous and non-ferrous materials by means of magnetic or vacuum units to allow travel in any plane or position.



### FOR USE WITH

RAIL TITAN



RAIL TUG

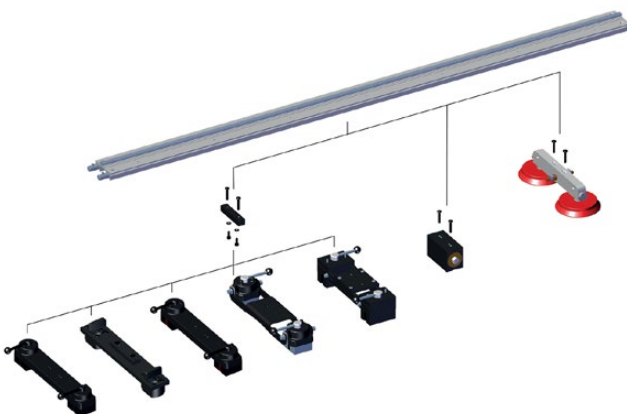


RAIL BULL



### RIGID TRACK

- For straight line applications incl. out of workpiece position.
- Length of a single rail 2 m (6.5 ft).
- Cannot be bent at all.
- Joinable for unlimited run length.
- Can be fixed on both ferrous and non-ferrous materials by means of magnetic or vacuum units to allow travel in any plane or position.



### FOR USE WITH

RAIL TITAN



RAIL TUG



RAIL BULL



## WIRE FEEDER BOOMS

OPTIMISE YOUR WELDING WORKSPACE  
VERSATILE, PRACTICAL, & SAFE



The **Wire Feeder Boom** is an essential tool designed to optimise the welding workspace by improving both safety and efficiency. It extends the welder's reach, allowing easy access to larger work areas while keeping the floor clear of cables.

By eliminating trailing wires, the boom reduces the risk of tripping and prevents cable tangling, creating a safer and more organised work environment. This makes it particularly effective for large and complex welding projects where space and mobility are critical.

Durable and easy to install, the **Wire Feeder Boom** can be mounted directly onto existing construction elements in production halls without requiring additional infrastructure. Capable of supporting loads up to 50 kg, it's a versatile and reliable addition to any professional welding station.

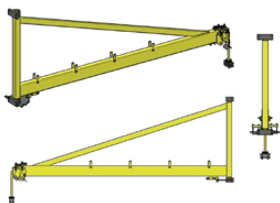
### Features and benefits:

- **Extended workspace:** Provides more freedom of movement over a significantly larger area compared to traditional setups.
- **No wires on the floor:** Eliminates tangled cables that can create hazards and obstruct workflow.
- **Convenient for larger constructions:** Simplifies welding of bigger and more complex structures.
- **Simple and robust design:** Durable construction ensures long-lasting reliability in industrial environments.
- **High load capacity:** Supports up to 50 kg, making it versatile for a wide range of welding equipment.
- **Easy installation:** Can be mounted directly to production hall construction elements without additional infrastructure.



The Hydraulic Wire Feeder Boom is a robust and versatile addition to any welder's workspace, designed to support both the power source and wire feeder with ease. Its ergonomic design streamlines welding operations, reducing downtime and operator fatigue while improving productivity.

With hydraulic lifting, lowering, and rotation functions, the boom provides exceptional flexibility, allowing effortless repositioning of equipment across the shop floor. Built for durability and precision, it ensures safe, reliable operation even in demanding industrial environments, making it an ideal solution for modern fabrication setups.



Telescopic Wire Feeder Booms optimise floor space, improve safety, and provide superior cable management by keeping welding cables overhead. With adjustable reach and 180° rotation, they enhance workspace organisation and efficiency.

Available in 6000 mm or 8000 mm versions, and with right or left holder types, these booms offer maximum flexibility and functionality for any modern welding setup.



Wall-Mounted Pivot Wire Feeder Booms improve efficiency in large fabrication facilities by eliminating the need for moving heavy equipment and increasing welder mobility.

Designed for effortless support and positioning of wire feeder units, they offer an adjustable reach from 3100 mm to 6000 mm and a 180° rotation for maximum versatility.

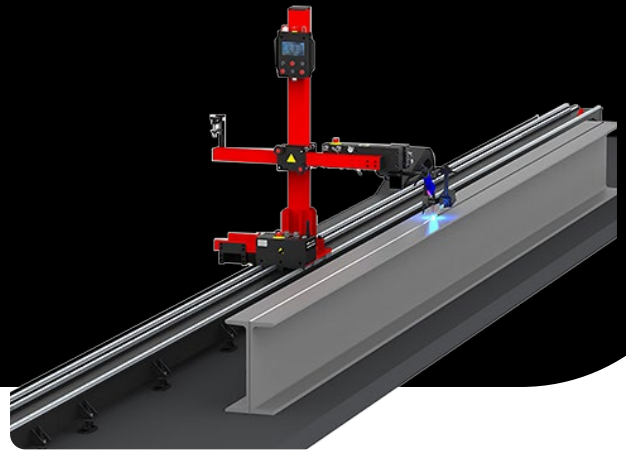


Available with welded or bolted frames for easy on-site assembly, two arm lengths (up to 6000 mm or 8000 mm), and two holder types (R or L), the range includes eight models to suit a variety of welding setups and production needs.

# STEEL BEAST®

## WA COMPACT

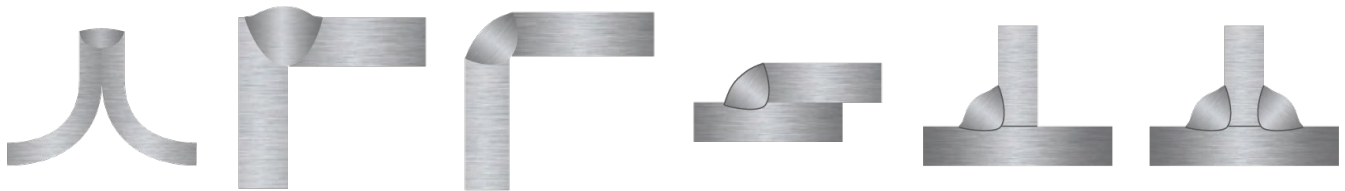
### GANTRY WELDING SYSTEM



The **WA Compact** is a versatile, space-efficient gantry welding solution designed for both continuous and stitch butt & fillet welds using the MIG/MAG method. It features active joint tracking with vertical and horizontal torch compensation, works with or without oscillation, and supports multiple weld paths—straight, triangle, trapezoid, and square.

This system bridges the gap between a simple trolley and a full-size gantry, offering an optimal balance of precision, flexibility, and cost-effectiveness for workshops and industrial plants alike.



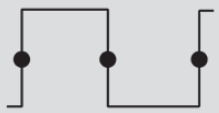
#### Welding Joints:

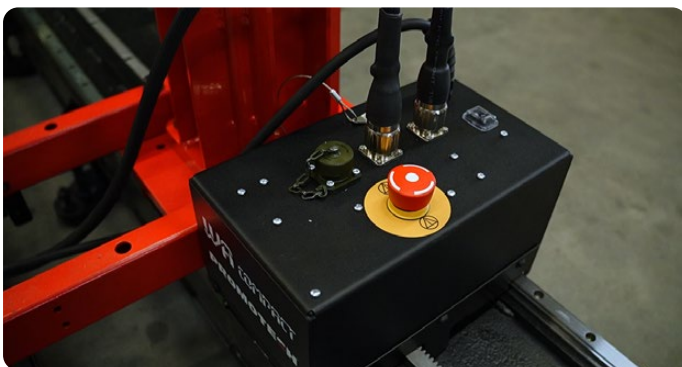


#### Features and benefits:

- **Continuous & stitch welding support:** Runs both continuous & intermittent welds with MIG/MAG power source.
- **Active joint tracking:** Compensates torch position vertically & horizontally, with or without oscillation.
- **Flexible oscillation patterns:** Supports straight, triangle, trapezoid, & square weld paths.
- **Ergonomic remote control pendant:** Easy-to-use knobs allow parameter adjustment without lifting the welding hood.
- **Customisable track length:** Modular 2 m track segments, extendable up to 20 m total length.
- **Precision welding at lower cost:** Offers many of the benefits of a full gantry system while remaining more space & budget-efficient.
- **Automatic torch speed & dwell settings:** Oscillation width up to 114 mm, speed 0.1–2 m/min, dwell times 0–5 s.
- **Robust & industrial-ready:** Built with heavy-duty components for reliability in demanding environments.

#### WA Compact Oscillation Paths:

 <p><b>Triangle</b></p>	<p>Machine travels only during oscillation, stopping during dwell time to fill the crater.</p>	 <p><b>Trapezoid</b></p>	<p>Machine travels continuously, including during oscillation dwell time.</p>	 <p><b>Square</b></p>	<p>Machine moves only at left/right dwell points, pauses during oscillation, and fills the crater at center dwell.</p>
--	--	---	---	--	--



# STEELBEAST® MINI COLUMN & BOOM



The **Mini Column and Boom** System is designed for the circumferential welding of pipe elements, flanges, and fittings such as elbows and tees. Its modular construction allows for versatile use and quick reconfiguration to suit a wide range of welding applications.

Depending on production needs, the system can be set up in a basic configuration for simple operations or expanded into a more advanced setup for increased functionality and automation.

## Choose from the following components:

- **Linear oscillator:** enables precise torch weaving for improved weld quality and control.
- **Torch stand:** provides stable and adjustable torch positioning.
- **Power supply unit:** delivers reliable power for smooth and consistent operation.
- **Motorised vertical slide:** allows accurate torch height adjustment during welding.
- **Seam tracking attachment:** automatically maintains torch alignment with the weld joint.
- **Remote control pendant:** offers convenient and ergonomic system operation.
- **Remote control cables:** ensure dependable connection and extended operator reach.

## Features and benefits:

- **Ergonomic remote control pendant:** LCD display and intuitive knobs allow fast, easy adjustment of welding parameters without lifting the operator's welding hood.
- **Seam tracking and motorised vertical slide:** Ensure active compensation of torch position both vertically and horizontally, with or without oscillation, for consistently high-quality welds.
- **Versatile weld paths:** Supports straight, triangular, and trapezoidal oscillation patterns for a wide range of welding applications.
- **Full system potential:** Achieved when integrated with our premium positioners, providing maximum precision and automation.



# STEEL BEAST® COLUMN & BOOMS

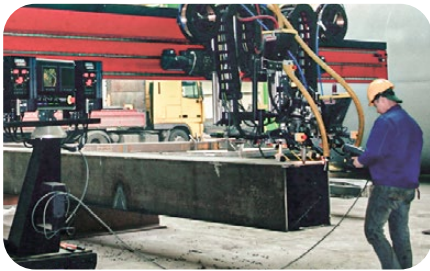
INTEGRATES WITH SAW SINGLE OR  
TANDEM, MIG/MAG, TIG, OR PLASMA



**Column & Boom Systems** are available in a range of standard or custom-made versions. Depending on the model, they can be equipped with SAW (single or tandem), MIG/MAG, TIG, or plasma welding capabilities.

All units come with passive safety features, including safety chains and automatic gear motor brakes in the event of power failure. Active safety systems, such as limit switches to prevent collisions, are also standard.

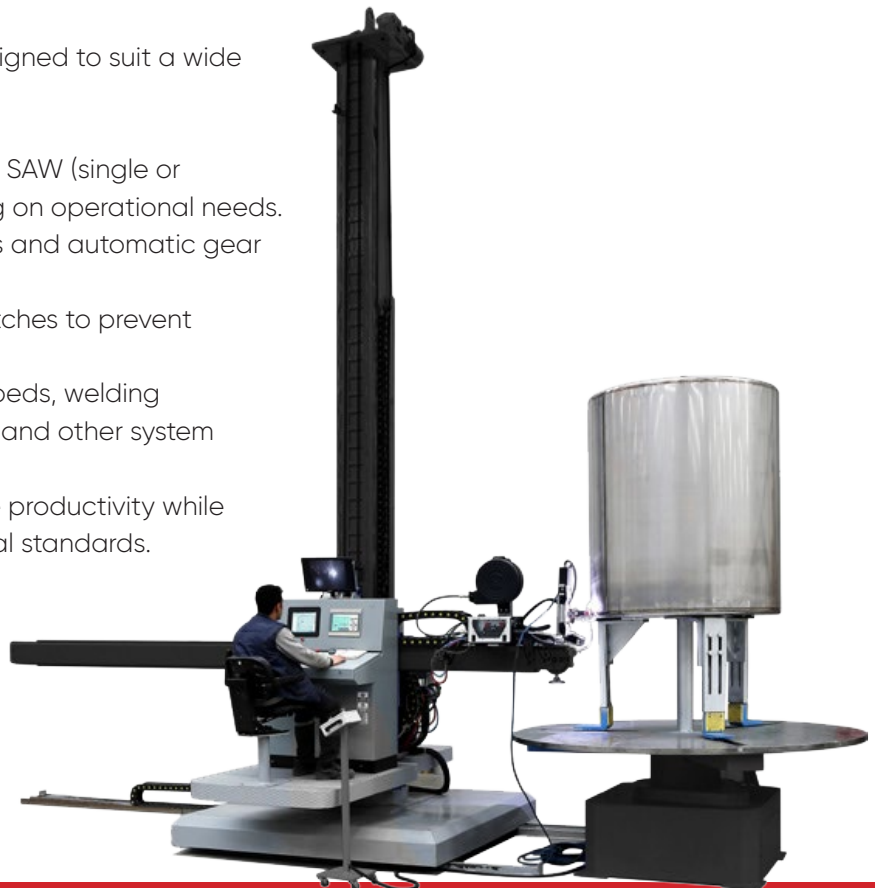
The systems are fully integratable with other equipment, including roller beds, welding positioners, power source controllers, rotators, and additional devices, offering maximum flexibility for complex welding setups.



## Features and benefits:

- **Available in standard or custom versions:** Designed to suit a wide range of welding applications and facility layouts.
- **Flexible welding processes:** Can be fitted with SAW (single or tandem), MIG/MAG, TIG, or plasma depending on operational needs.
- **Passive safety features:** Includes safety chains and automatic gear motor brakes to protect against power failure.
- **Active safety systems:** Equipped with limit switches to prevent collisions and ensure secure operation
- **Seamless integration:** Compatible with roller beds, welding positioners, power source controllers, rotators, and other system equipment.
- **Versatile and reliable:** Engineered to enhance productivity while maintaining the highest safety and operational standards.

All our **Column & Boom** systems come with passive safety features, including safety chains and automatic gear motor brakes in the event of power failure. Active safety systems, such as limit switches to prevent collisions, are also standard, ensuring secure and reliable operation.



# STEELBEAST®

# PIPE PROFILE CUTTING MACHINE



## PPCM-650 / PPCM-1500

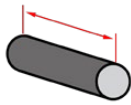
The CNC-controlled **Pipe Profile Cutting Machine (PPCM)** enables 3D cutting and bevelling using oxy-fuel or plasma. Its advanced design and high-quality components ensure fast, efficient cutting while delivering precise, top-quality results.

A key advantage of the PPCM-650 and PPCM-1500 is the user-friendly software, which includes a comprehensive library of standard macros for typical cutting shapes. This allows parametric definition of pipe joints and quick on-site shape programming directly from the machine's control panel after minimal training.

Off-line programming is also supported through the PPCM SIM PC software, which contains the same macros library. This enables preparation of pipe joints remotely in the office, keeping the machine operating continuously, increasing efficiency, and reducing downtime.



PPCM-650:  
Pipe OD  
50 to 650 mm  
PPCM-1150:  
Pipe OD  
100 to 1524 mm



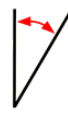
Max. pipe  
length  
6 or 12 m



Pipe weight  
up to  
(PPCM-650)  
3,000 KG  
(PPCM-1500)  
up to  
10,000 KG



Wall  
thickness:  
3 – 50 mm



Max.  
cutting  
angle: 45°  
(70° option)



3D Oxy-fuel  
cutting  
Acetylene  
(standard)  
Propane  
(option)



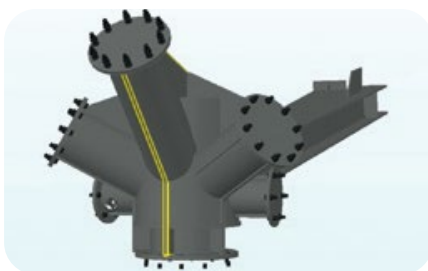
3D Plasma  
cutting  
(option)



CAD/CAM  
file transfer  
through  
Lantek Flex  
3D Tubes  
(option)

### Features and benefits of both the PPCM-650 & PPCM-1150:

- **User-friendly software:** Includes a comprehensive library of macros for most typical cutting shapes.
- **Automatic speed compensation:** Adjusts cutting speed based on material thickness, torch angle, & cutting direction.
- **Heavy-duty rigid construction:** Built to withstand the most demanding industrial environments.
- **Proven reliability:** Well-tested and dependable even under continuous, heavy-duty operation.
- **Easy access to gas valves:** Simplifies setup, maintenance, & operation.
- **Optional fume extraction:** Fume exhaust system routed through the spindle to maintain a cleaner workspace.
- **Optional preheating torch:** Additional torch available to heat the material for improved cutting performance.



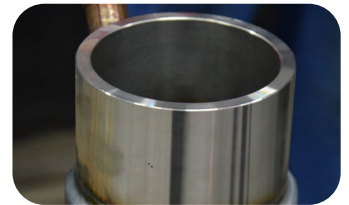
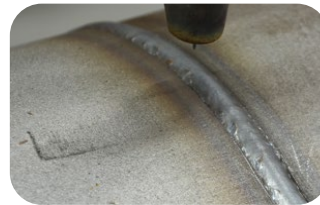
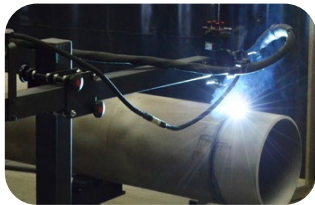
# STEELBEAST®

# WELDING POSITIONERS

## PRO-WP 150 / PRO-WP 300



**Welding Positioners** rotate round or tubular workpieces for easier access to weld seams, improving weld quality and increasing deposition rates. A frequency inverter provides smooth, continuous speed control for stable rotation. By reducing the need for constant repositioning, they save time and effort while allowing operators to focus on welding. The compact design saves floor space, and 90° tilt improves ergonomics and comfort. With a range of accessories, positioners can be configured into modular welding stations tailored to specific welding or cutting tasks for maximum efficiency.



### Features and benefits:

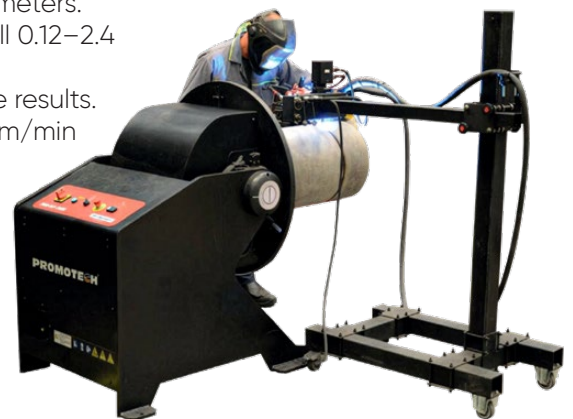
- **Left or right rotation:** Enables flexible positioning for optimal weld seam access.
- **Continuous speed adjustment:** Frequency inverter allows precise control across the full range.
- **Speed stabilisation:** Maintains consistent speed from 0.12 rpm up to 2.4 rpm for high-quality welds.
- **Start/Stop control:** Operated via controller or foot pedal for convenience.
- **Arc ignition:** Integrated control for seamless welding start.
- **Remote control:** Provides easy operation from a safe distance.
- **Foot pedal operation:** Hands-free control for enhanced ergonomics and efficiency.

# MODULAR WELDING STATIONS

A modular workstation for circumferential welding of pipes, flanges, and fittings such as elbows and tees. Its adaptable design supports a wide range of applications, including oscillation welding, hardfacing, and more.

### Features and benefits:

- **User-friendly control panel:** Easily set & monitor all welding parameters.
- **Stable rotation control:** Maintains consistent speed across the full 0.12–2.4 rpm range.
- **Continuous speed adjustment:** Fine-tune travel speed for precise results.
- **Flexible measurement units:** View key parameters in cm/in and cm/min or in/min.
- **Arc ignition control:** Adjustable pre- & post-crater fill for clean starts and finishes.
- **Bidirectional rotation:** Operates in both left & right directions.
- **Heavy-duty construction:** Built for durability & long service life.
- **Modular compatibility:** Works with the optional Mini C&B System to create a fully configurable welding station.





A whole world of metal fabrication solutions.

Discover our complete range:

**MAGNETIC DRILLING, MILLING,  
PUNCHING, SAWING, &  
GRINDING MACHINES.**



**PLATE & PIPE BEVELLING**



**CUTTING TOOL SOLUTIONS**



**UK HQ**

+44 (0) 1706 229490  
sales@jeisolutions.co.uk  
www.jeiuk.com

Unit 21, Empire Business Park  
Enterprise Way  
Burnley  
Lancashire  
BB12 6LT

**Authorised distributor:**

