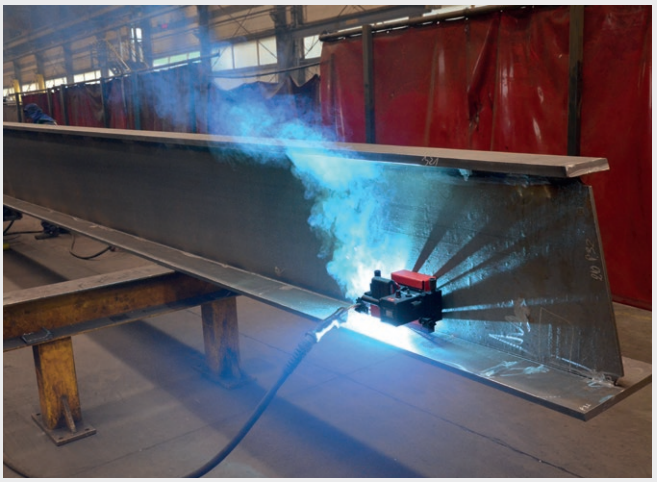
PROMOTECH®

WHEEL TRACTORS

WHEEL TRACTORS



RAIL TRACTORS

RAIL TRACTORS

smart tools
for heavy tasks

WELDING & CUTTING TRACTORS

OVERVIEW

MINI SPIDER BATTERY

FILLET WELDING TRACTOR

Continuous welding

Torch placement on either side

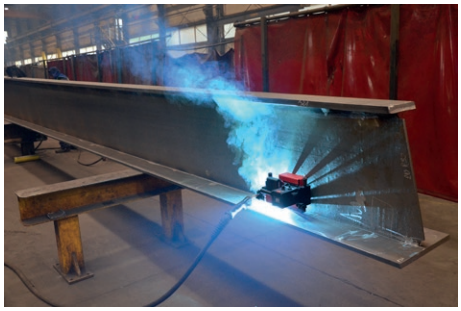
Horizontal speed 5–110 cm/min

Welding in narrow spaces

Weight 6,6 kg

Features & benefits:

- The compact and lightweight design facilitates welding in narrow spaces
- Convenient 18 V DC battery supply (same 4.0 Ah battery as other PROMOTECH battery-powered tractors)
- No need for mains power and one less cable to carry around
- Intelligent battery management for long-lasting performance
- Digital LED display for presetting of travel speed and diagnostic messages
- Easy access for battery charge level reading
- Built-in guide rollers with adjustable height
- Torch placement on either side
- Welding edge to edge (e.g. welding of stiffeners for bridge structures)
- Consistent heat input reduces distortion



GECKO BATTERY 2

MOBILE WELDING TRACTOR

Continuous welding

Dual torch welding

Horizontal speed 0–110 cm/min

Dual Arc Ignition

Min. path convex radius 600 mm

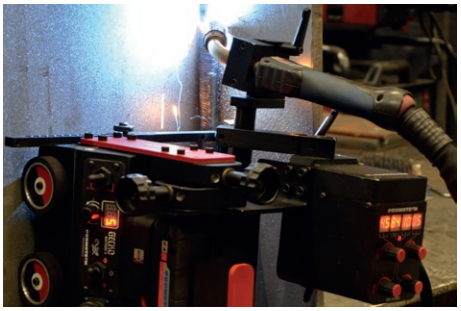
Min. path concave radius 800 mm

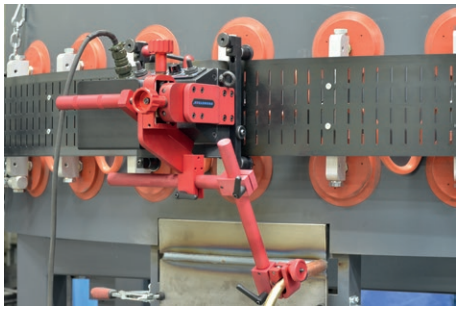
PRE-POST

Weight 8,6 kg

Features & benefits:

- Compact, lightweight design with durable aluminum cast housing
- Convenient 18 V DC battery supply (same 4.0 Ah battery as other PROMOTECH battery-powered tractors)
- LiHD battery ensures extended power availability even for the whole shift
- Intelligent battery management for long-lasting battery
- Digital speed control and stabilization for high quality welds
- Multifunctional LED display to present travel speed, units and diagnostic messages
- Possibility of pre-setting the torch activation time before and after the tractor travel for better filling of the weld seam at both ends
- Built-in oscillator socket for direct powering of external OSC-8 PRO pendulum oscillator
- Optional accessories make Gecko Battery 2 fit for various applications with carbon steel, stainless steel and aluminum



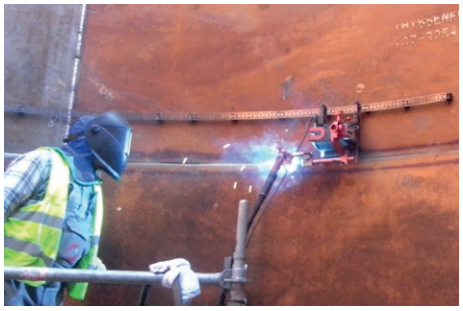


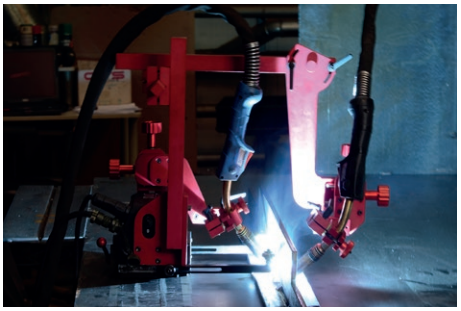
GECKO

COMPACT WELDING TRACTOR

42V AC version available

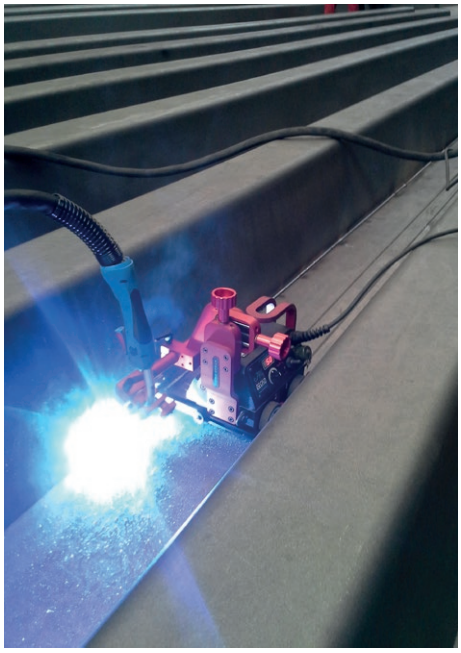
- Continuous welding
- Dual torch welding
- Horizontal speed 0–110 cm/min
- Vertical speed 0–100 cm/min
- Min. path convex radius 600 mm
- Min. path concave radius 800 mm
- PRE-POST
- Weight 8 kg





Features & benefits:

- Compact, lightweight design with durable aluminum cast housing
- Closed loop speed control system stabilizes travel speed enabling uniform heat input to produce consistently high-quality welds
- Possibility of pre-setting the torch activation time before and after the tractor travel for better filling of the weld seam at both ends
- Reduce wasted filler metal - eliminates over welding
- Multifunctional LED display to present travel speed, units and diagnostic messages
- Precise torch adjustment with screw drive cross slide
- Capable of carrying and controlling two torches
- Convenient Power Supply 115–230 V, 50–60 Hz or 42 V, 50–60 Hz

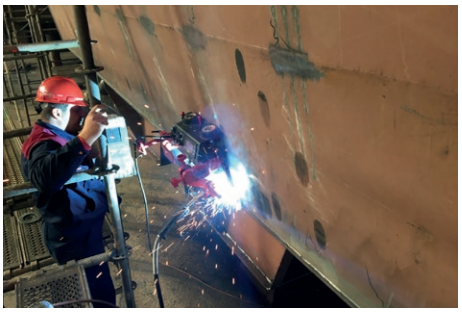


LIZARD

PROGRAMMABLE WELDING TRACTOR

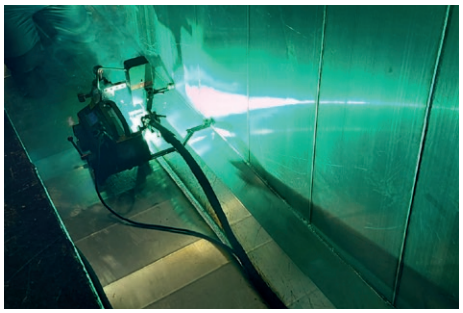
42V AC version available

- Continuous welding
- Stitch welding
- Angular oscillation
- Dual torch welding
- Min. path convex radius 1500 mm
- Min. path concave radius 1500 mm
- Programming device up to 40 welding programs
- PRE-POST
- Backweld



Features & benefits:

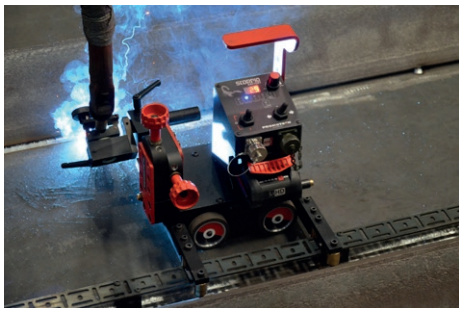
- Up to 40 complete programs may be stored in non-volatile memory to repeat optimum weld procedures
- Multifunctional LCD display and 2-function buttons for programming of selected welding patterns and parameters such as weld length, distance between welds, reverse fill, crater fill time and others
- Lizard travels at full speed between stitches, which saves valuable welding time.
- Optional torch oscillator produces weave welds
- Uniform heat input to produce consistently high-quality welds
- Can work in continuous or stitch welding modes
- 4-wheel drive magnetic traction permits out of position use
- Compact, lightweight design with durable aluminum cast housing
- Capable of carrying and controlling two torches
- Automatic arc on/off system initiates welding and travel, simultaneously
- Convenient Power Supply 115–230 V, 50–60 Hz or 42 V, 50–60 Hz



SCORPIO BATTERY

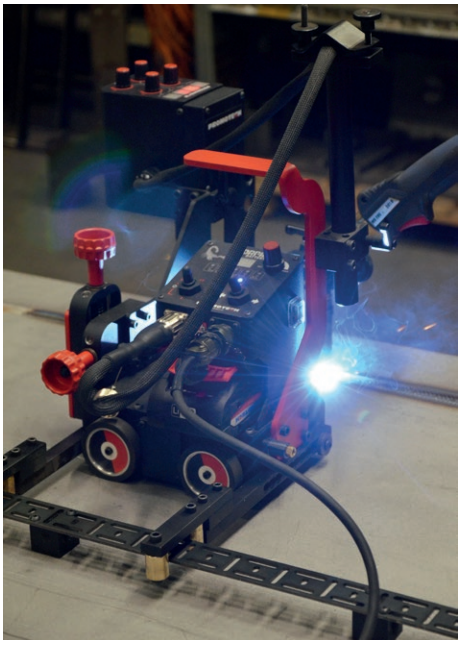
CORDLESS PROGRAMMABLE WELDING TRACTOR

- Continuous welding
- Stitch welding
- Angular oscillation
- Dual torch welding
- Dual Arc Ignition
- Min. path convex radius 1000 mm
- Min. path concave radius 1250 mm
- Welding path programming
- PRE-POST
- Backweld



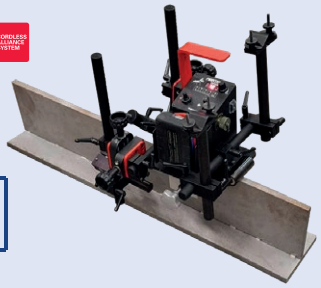
Features & benefits:

- Simple and ergonomic programming of welding patterns and stitch welding parameters
- Multifunctional LED display presenting travel speed, units, welding settings, and diagnostic messages
- Convenient 18 V DC battery supply (same 4.0 Ah battery as other PROMOTECH battery-powered tractors)
- High Density Lithium Ion battery (LiHD) ensures maximum power availability for extended periods
- 4-wheel drive system with magnetic traction for stable movement of the tractor
- Compact, lightweight design with durable aluminum cast housing
- Built-in oscillator socket for direct powering of external OSC-8 PRO pendulum oscillator
- Auxiliary accessories make SCORPIO BATTERY suitable for various applications with carbon steel, stainless steel and aluminium
- Equipped with limit switches



MANTIS BATTERY

CORDLESS DOUBLE-SIDED FILLET TRACTOR

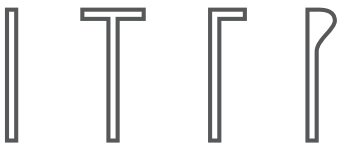


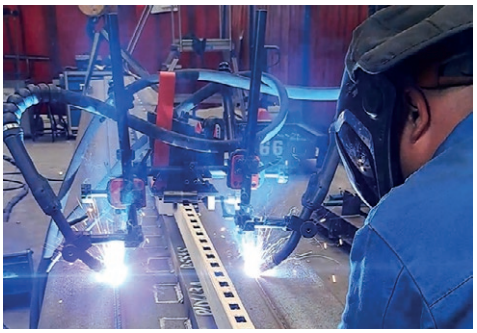
- Continuous welding
- Stitch welding
- Dual torch welding
- Dual Arc Ignition
- Horizontal speed 5–130 cm/min
- Welding path programming
- PRE-POST
- Backweld

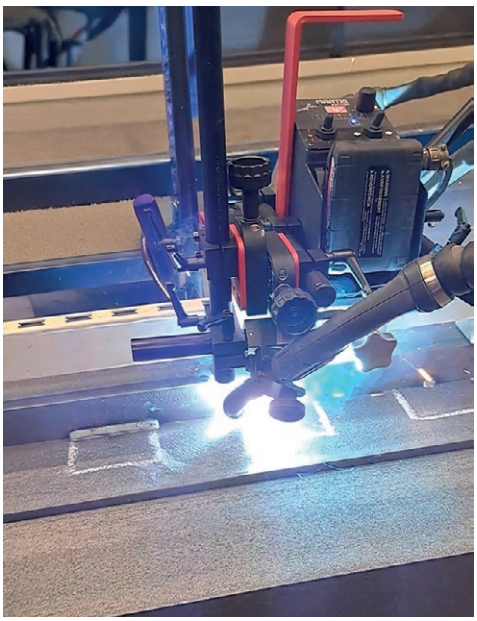
Features & benefits:

- Battery-powered programmable welding tractor for travelling on steel profiles such as flats, angles, I-beams, T-beams, bulb flats and irregularly shaped work pieces with radius down to 160 mm
- Dual-sided operation with two torches in continuous or intermittent welding mode
- Simple and ergonomic programming of weld patterns and stitch welding parameters
- Multi-functional LED display showing travel speed, units, welding settings and diagnostic messages
- Closed-loop speed control system stabilizes travel speed, enabling uniform heat input for consistently high-quality welds
- 18 V DC Lithium Ion High Density battery (LiHD) ensures extended power availability even for the whole shift (the same CAS battery as used in other PROMOTECH cordless machines)
- Tractor travels at full speed between stitches, which saves valuable welding time
- No need for mains power and one less cable to carry around

Suitable steel profiles:





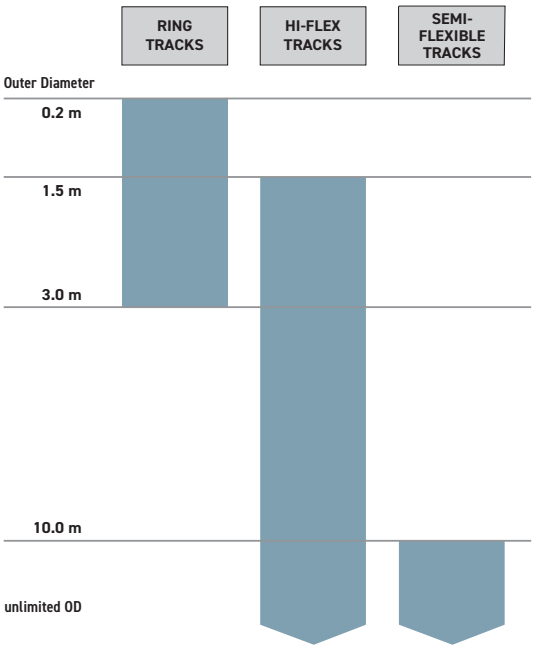


TRACKS FOR RAIL TRACTORS

PROMOTECH offers a wide range of tracks suitable for straight line, circumferential and irregular surface applications down to min. radius of 100 mm. The tracks can be fixed on both ferrous and non-ferrous materials by means of magnetic or vacuum units.
Single track sections can be joined together to accomplish the required working track length.

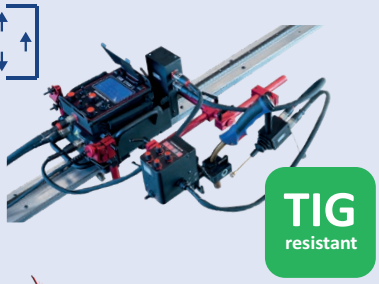
- **RING TRACKS for RAIL TITAN 2 and RAIL TUG**
  For circumferential applications from 200 mm OD up to 3000 mm OD
  Ring tracks can be equipped with various supports depending on the customer's needs.
- **HI-FLEX TRACKS for RAIL TITAN 2 and RAIL TUG**
  For lots of circumferential and irregular applications down to 750 mm radius.
- **SEMI-FLEXIBLE TRACKS for RAIL TITAN 2, RAIL TUG and RAIL BULL**
  For straight line and irregular surface applications. It can be flexed to minimum radius of 5 m without permanent deformation.
- **RIGID TRACKS for RAIL TITAN 2, RAIL TUG and RAIL BULL**
  For straight line applications and for going beyond workpiece and continuous welding edge to edge.
- **V-TRACKS for DRAGON, DRAGON HS and DRAGON BATTERY**
  Customized tracks for thermal cutting tractors.

Tracks for circumferential and irregular applications

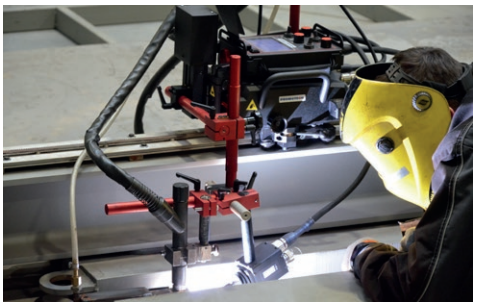


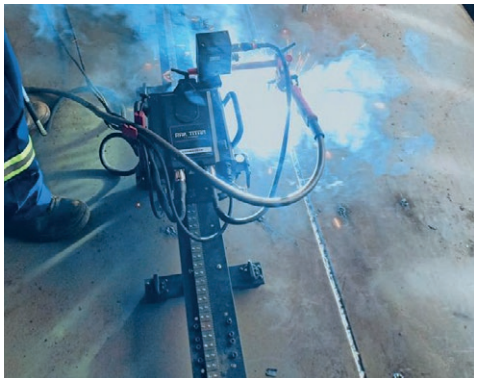
RAIL TITAN 2

MODULAR TIG-MIG-MAG WELDING AND CUTTING RAIL TRACTOR



- Continuous welding
- Stitch welding
- Linear oscillation with trapezoid, triangle, square and straight line paths
- Horizontal speed 0–250 cm/min
- Vertical speed 0–250 cm/min
- Hi Flex Track min OD 1500 mm min ID 3400 mm
- Min. path convex radius for semi-fl exible tracks is 5 m
- Ring tracks from 200 mm OD up to 3 m OD
- PRE-POST
- Backweld
- Mirror Switch





Features & benefits:

- Robust design with die-cast aluminum housing
- Suitable for TIG welding (HF resistant)
- Advanced closed loop position control system based on electric motor with high resolution encoder ensures increased accuracy of speed and positioning
- Ergonomic remote control pendant with simple and easy to find control knobs makes adjustments possible without lifting of the operators welding hood
- Programmable path of stitch welds
- Suitable for variety of circumferential and irregular surface applications down to minimum radius of 100 mm (4")
- Seam tracking enables active compensation of torch position vertically and horizontally with and without oscillation
- Suitable for all welding positions on both ferromagnetic and non-ferromagnetic materials
- Signal sockets/plugs feature increased HF immunity and improved grip for easier tightening & loosening
- The mirror switch function allows the welder to adjust the torch position to the left or right, regardless of the welder's position relative to the torch
- Wide input voltage range: 100-240V, 50-60Hz 1ph (single phase)

RAIL BULL

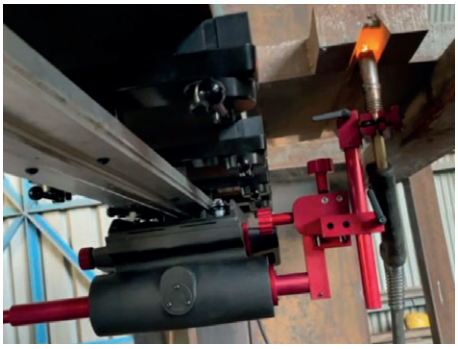
TRACK WELDING TRACTOR WITH OSCILLATOR

42V AC version available

- Continuous welding
- Linear oscillation with trapezoid and straight line paths
- Horizontal speed 0–120 cm/min
- Vertical speed 0–110 cm/min
- Min. path convex radius 5000 mm
- Min. path concave radius 5000 mm

Features & benefits:

- Closed loop position control system based on an electric motor with an encoder ensures increased accuracy of speed and positioning
- Integrated linear oscillator for weave welding and overlay
- Multifunctional LCD shows process parameters and warnings
- Compact, lightweight design with a durable aluminum cast housing
- Convenient power supply 115–230 V, 50–60 Hz or 42 V, 50–60 Hz
- Rail Bull produces consistently high-quality welds and cuts in a fraction of the time required by manual operations



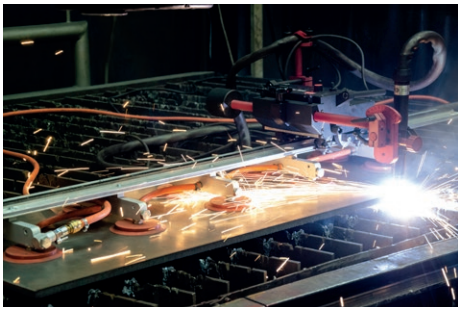
RAIL TUG

TRACK WELDING AND CUTTING TRACTOR

- Continuous welding
- Horizontal speed 10–200 cm/min
- Vertical speed 10–200 cm/min
- Hi Flex Track min OD 1500 mm
- Min. path convex radius for semi-flexible tracks is 5 m
- Ring tracks from 200 mm OD up to 3 m OD

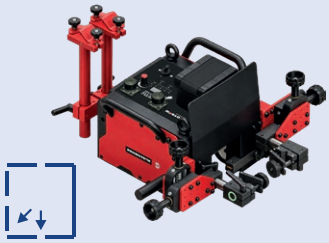
Features & benefits:

- Compact, lightweight design
- Closed loop speed control system stabilizes travel speed enabling uniform heat input to produce consistently high-quality welds and cuts
- Digital LED display for pre-setting travel speed
- Suitable for variety of circumferential and irregular surface applications down to minimum radius of 100 mm (4")
- Precise torch adjustment with screw drive cross slide
- Automatic arc on/off system initiates welding and travel, simultaneously
- Oxy-fuel and plasma cutting possible with optional accessories
- Convenient power supply 115–230 V, 50–60 Hz



BEETLE BATTERY

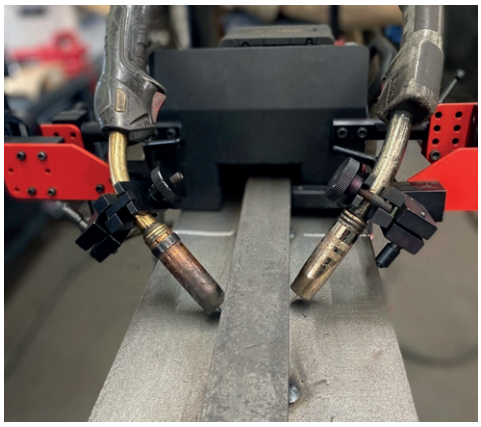
PROGRAMMABLE DUAL TORCH WELDING TRACTOR

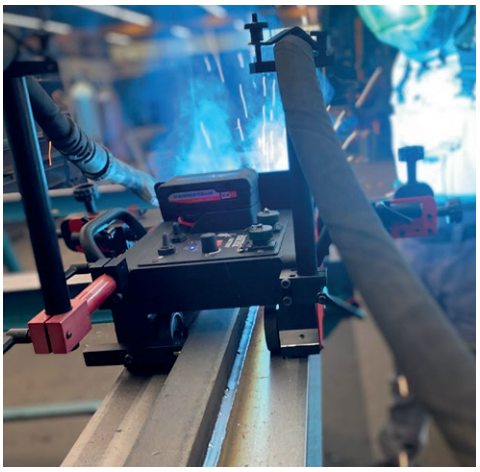


- Continuous welding
- Stitch welding
- Dual torch welding
- Horizontal speed 5–130 cm/min
- Welding path programming
- PRE-POST
- Backweld

Features & benefits:

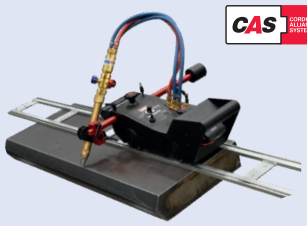
- Battery-powered, programmable tractor for longitudinal welding using a left, right or both left and right torches
- Continuous and stitch welding with programmable path
- 10 operating modes, including separate torch control allowing for alternating welding on the left and right sides of the beam
- The LiHD (High Density Lithium Ion) CAS battery, supported by intelligent battery management, ensures maximum power availability for an extended period
- The closed-loop speed control system stabilizes travel speed, enabling uniform heat input to produce consistently high-quality welds
- Multi-functional LED display showing travel speed, units, welding settings and diagnostic messages
- 4-wheel drive system with magnetic traction for stable movement of the tractor
- Self-guiding roller arms eliminate the need for a track
- Compact, lightweight design with durable cast aluminium housing
- Operates at speeds from 5 to 130 cm/min
- No need for mains power and one less cable to carry around





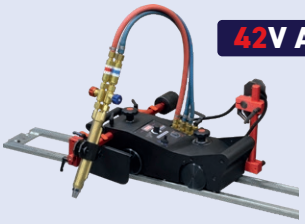
DRAGON BATTERY

CORDLESS CUTTING TRACTOR



DRAGON

CUTTING TRACTOR FOR OXY-FUEL



DRAGON HS

CUTTING TRACTOR FOR PLASMA

Common features and benefits of the DRAGON family:

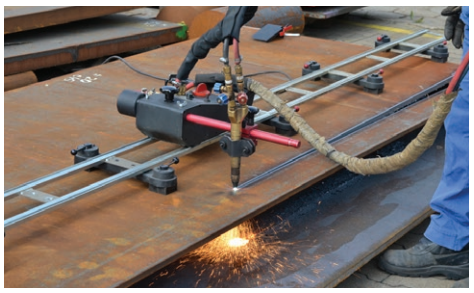
- Oxy-fuel and plasma cutting
- Digital speed control and stabilization for high quality cuts
- Cutting and bevelling up to 45° (also parallel, using 2 torches)
- LED display with readouts of both actual and set speeds, as well as report messages
- Ergonomic handles on both sides make it easy to carry the tractor
- Wide assortment of optional accessories like machine barrel torch holders, manifolds, circle cutting attachment make it useful for variety of applications.
- Track sections can be joined together for the required run length
- The tracks can be fixed on both ferrous and non-ferrous materials by means of magnetic or vacuum units
- Various power supply options: 115–230 V, 50–60 Hz, 42V AC or 18V DC battery

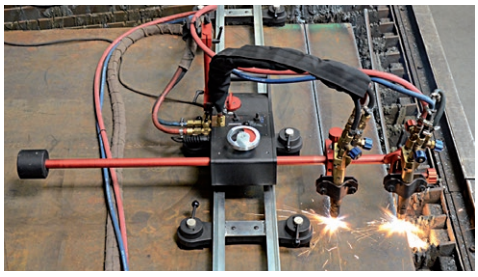
DRAGON HS more:

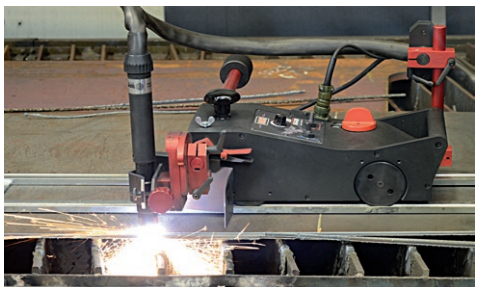
- High travel speed of up to 300 cm/min to increase plasma cutting capacity

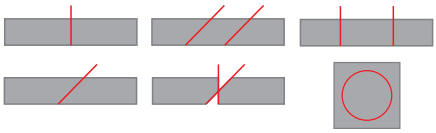
DRAGON BATTERY more:

- Ideal for use in the field - no need for mains power and one less cable to carry around
- Convenient 18 V DC battery supply (same 4.0 Ah battery as other PROMOTECH battery-powered tractors)









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PROMOTECH®

PROFESSIONAL MANUFACTURER OF PREMIUM MACHINES FOR METALWORKING INDUSTRY

PROMOTECH is an innovation driven ISO 9001:2015 manufacturer of professional metalworking machines, welding automation equipment and industrial systems designed for structural steel fabricators, heavy machinery manufacturers, shipyards and other metal machining companies

Main product lines:
- mag drills, pneumatic drills, rail drills and hydraulic punchers
- weld preparation/portable and stationary bevellers for plates and pipes
- welding and cutting portable mechanisation equipment
- welding and cutting automated systems

Our products:
- offer solutions to reduce cost and increase productivity
- are designed and engineered for long term use in tough industrial conditions
- meet the requirements of the most demanding clients and markets worldwide
- are made in Poland according to the highest quality standards
- include top quality components
- are thoroughly tested for quality approval
- proved to be extremely reliable with a variety of practical applications in most difficult climatic environments

Further information about PROMOTECH and our product range can be found at *www.promotech.eu* and *www.atexdrilling.com*

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All information is subject to change without notice. 26.10

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