

# PROMOTECH®

## WHEEL TRACTORS



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## RAIL TRACTORS



## RAIL TRACTORS



*smart tools  
for heavy tasks*

**WELDING & CUTTING  
TRACTORS**

**OVERVIEW**

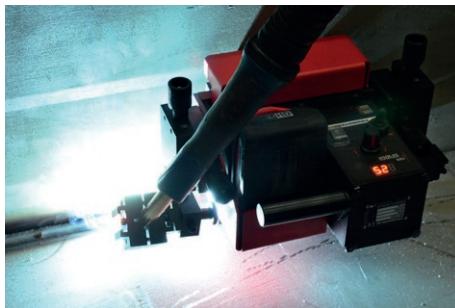
# MINI SPIDER BATTERY

## FILLET WELDING TRACTOR



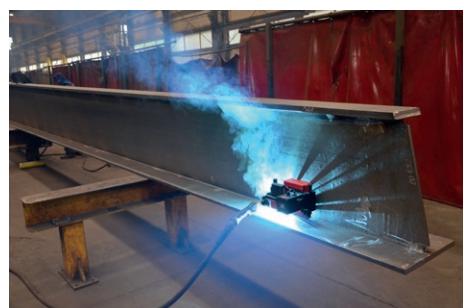
BOOST YOUR MOBILITY  
WITH BATTERY POWER!  
No need for power cables

- 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



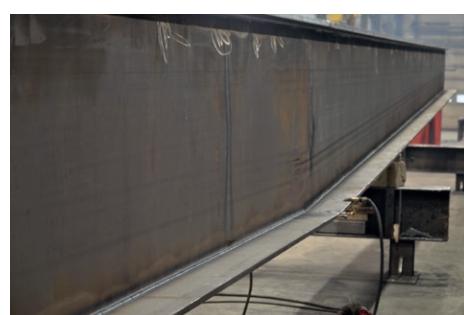
BOOST YOUR MOBILITY  
WITH BATTERY POWER!  
No need for power cables

- 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
- 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



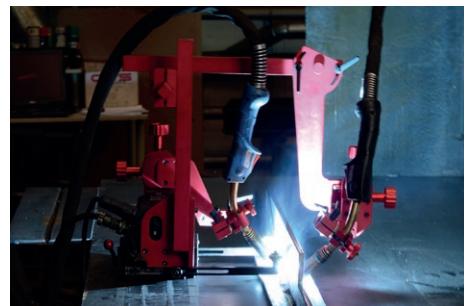
# GECKO

## COMPACT WELDING TRACTOR

**42V AC** version available

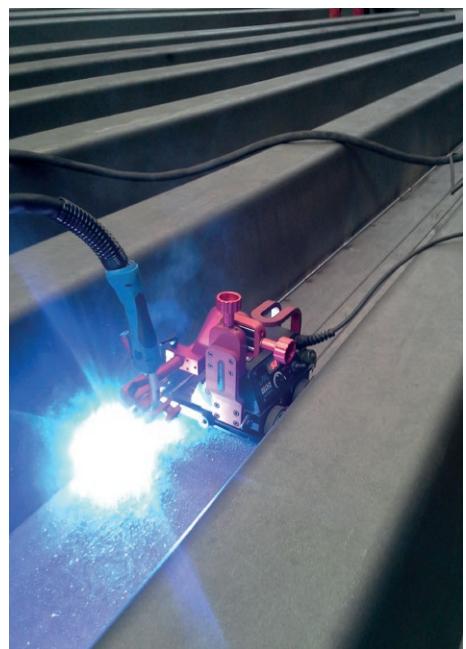


- Continuous welding
- Dual torch welding
- Horizontal speed 0-110 cm/min
- Vertical speed 0-100 cm/min
- Dual Arc Ignition
- Min. path convex radius 600 mm
- Min. path concave radius 800 mm
- Weight 8 kg



### 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



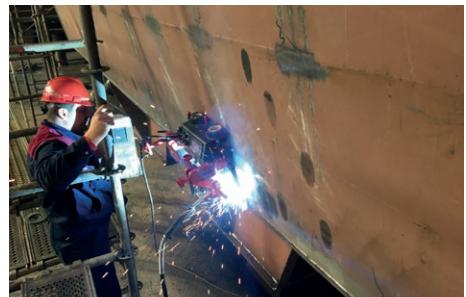
# LIZARD

## PROGRAMMABLE WELDING TRACTOR

**42V AC** version available

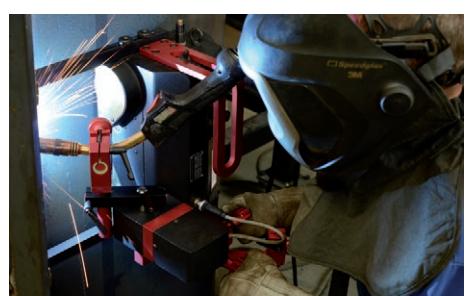


- Continuous welding
- Stitch welding
- Angular oscillation
- Dual torch welding
- Dual Arc Ignition
- Min. path convex radius 1500 mm
- Min. path concave radius 1500 mm
- Programming device up to 40 welding programs



### 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



BOOST YOUR MOBILITY  
WITH BATTERY POWER!  
No need for power cables



Continuous welding



Stitch welding



Angular oscillation



Dual torch welding



Dual Arc Ignition



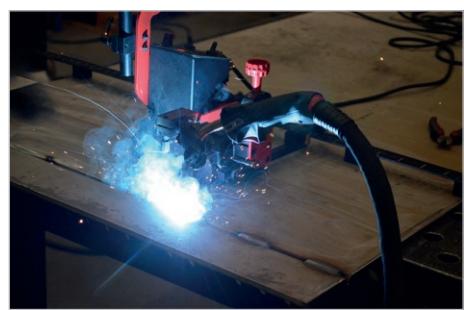
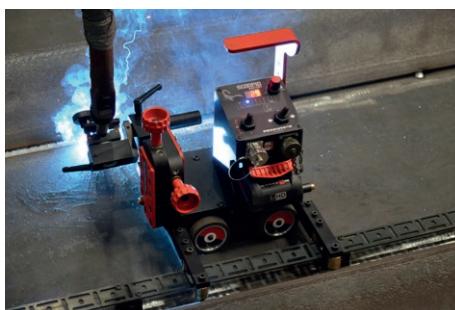
Min. path convex radius  
1000 mm



Min. path concave radius  
1250 mm

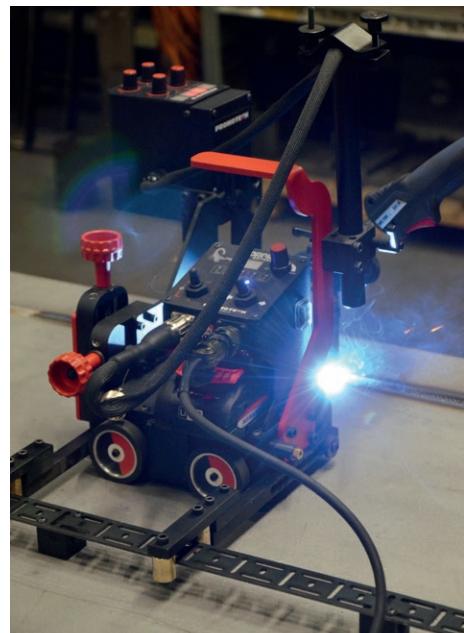


Welding path programming



## 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



BOOST YOUR MOBILITY  
WITH BATTERY POWER!  
No need for power cables



Continuous welding



Stitch welding



Dual torch welding



Dual Arc Ignition



Horizontal speed  
5-130 cm/min

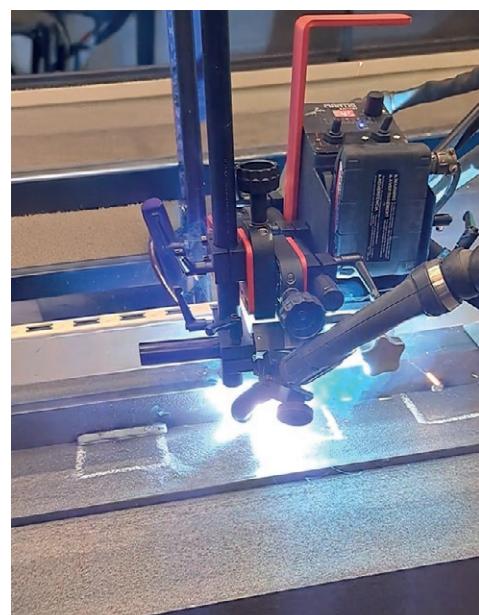


Welding path programming

## 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

Tracks for circumferential and irregular applications

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

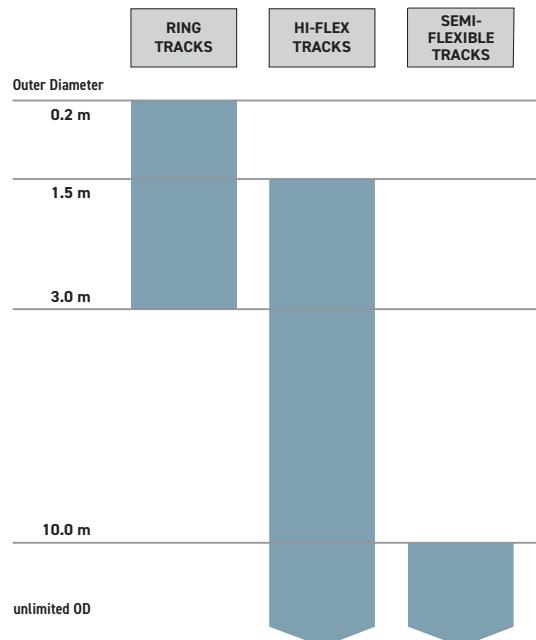
For straight line and irregular surface applications. It can be flexed to minimum radius of 5 m without permanent deformation.

## 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.



# RAIL TITAN 2

MODULAR TIG-MIG-MAG  
WELDING AND CUTTING  
RAIL TRACTOR



**TIG**  
resistant

Continuous welding

Stitch welding

Linear oscillation with trapezoid, triangle, square and straight line paths

Horizontal speed  
0-250 cm/min

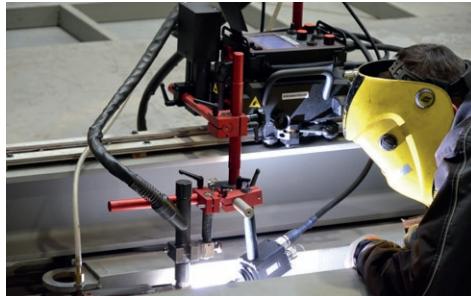
Vertical speed  
0-250 cm/min

Hi Flex Track  
min OD 1500 mm  
min ID 3400 mm

Min. path convex radius for semi-flexible tracks is 5 m

Ring tracks from 200 mm OD up to 3 m OD

**K|X** 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



# DRAGON

CUTTING TRACTOR FOR  
OXY-FUEL

42V AC version available



# DRAGON HS

CUTTING TRACTOR FOR PLASMA

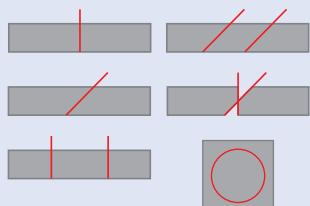
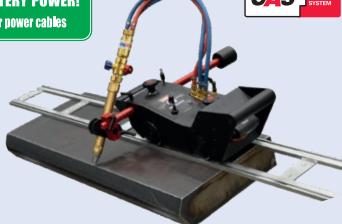


# DRAGON BATTERY

CORDLESS CUTTING TRACTOR

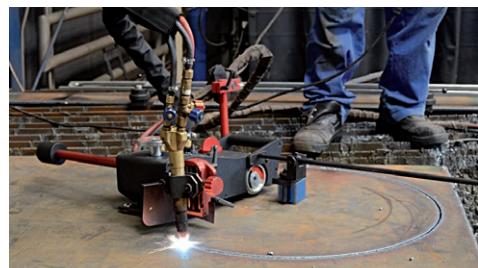
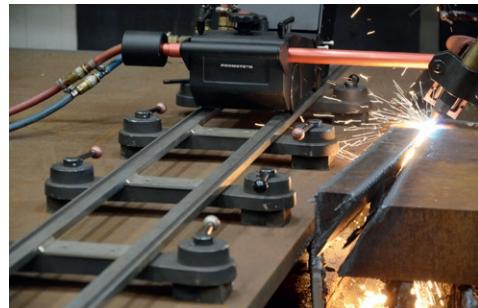
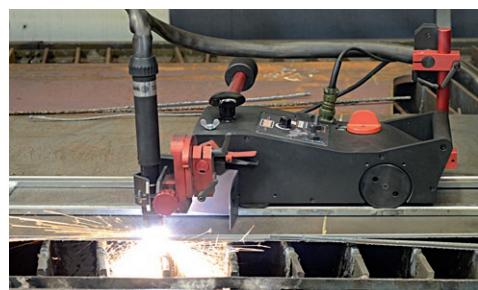
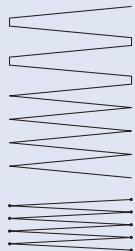
BOOST YOUR MOBILITY  
WITH BATTERY POWER!  
No need for power cables

CAS  
CORDLESS  
SYSTEM



# OSC-8 PRO

WEAVE WELDER



## 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
- Runs on a rail or directly on a workpiece
- Quick drive release switch for easy re-positioning
- 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)
- The LiHD battery, supported by intelligent battery management, ensures maximum power availability for an extended period



## Features & benefits:

- Lightweight and compact design
- Four adjustable parameters: oscillation width, oscillation speed, oscillation dwell time on ends
- Triangle and trapezoid weld paths
- Ergonomic control panel with four knobs
- Digital LED display for precise setting and

reading of oscillation parameters

- Two control modes: manual and external start
- Can operate as a stand-alone unit or be part of more advanced welding systems configured with welding tractors, columns and booms, positioners, gantry systems, etc.

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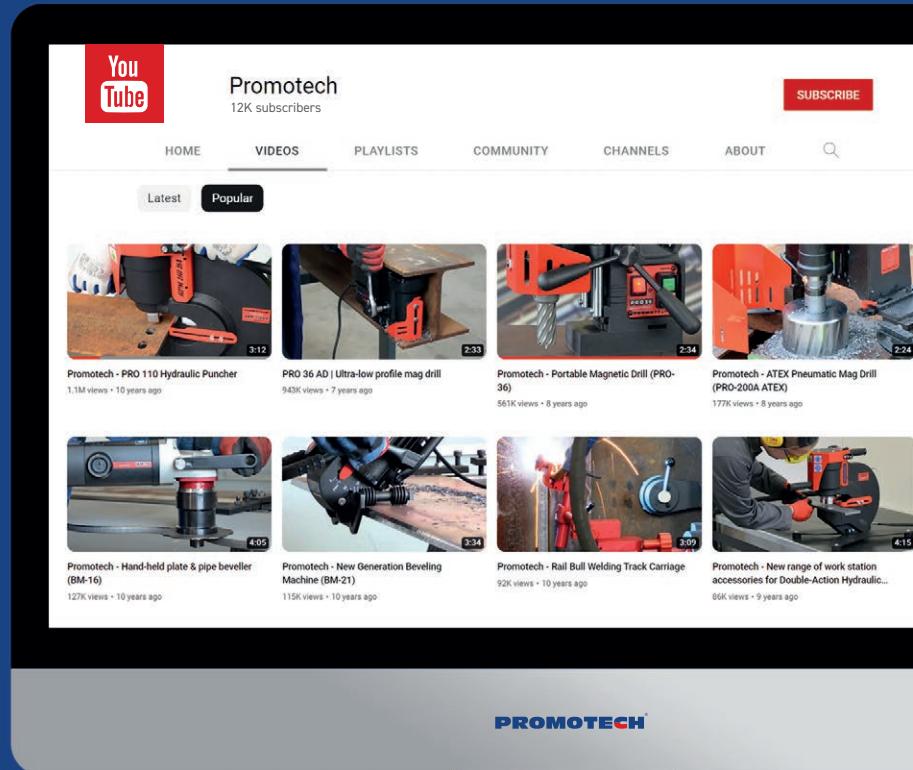
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