

TBi PowerPull Hand-held Welding Torches

Our recommended solution for soft wires

Cable lengths up to 25 m possible

Can be used with all power sources

Advantages of the TBi PowerPull System

- No deformation of soft wires
- Better contact of the wire in the tip, therefore excellent ignition properties
- The wire will be straightened and exits in a repeatable position
- Wire pull-back is possible with suitable power sources
- Reduced friction in the cable assembly, longer cables are possible
- Multiple drive units can be linked electronically

Technical data

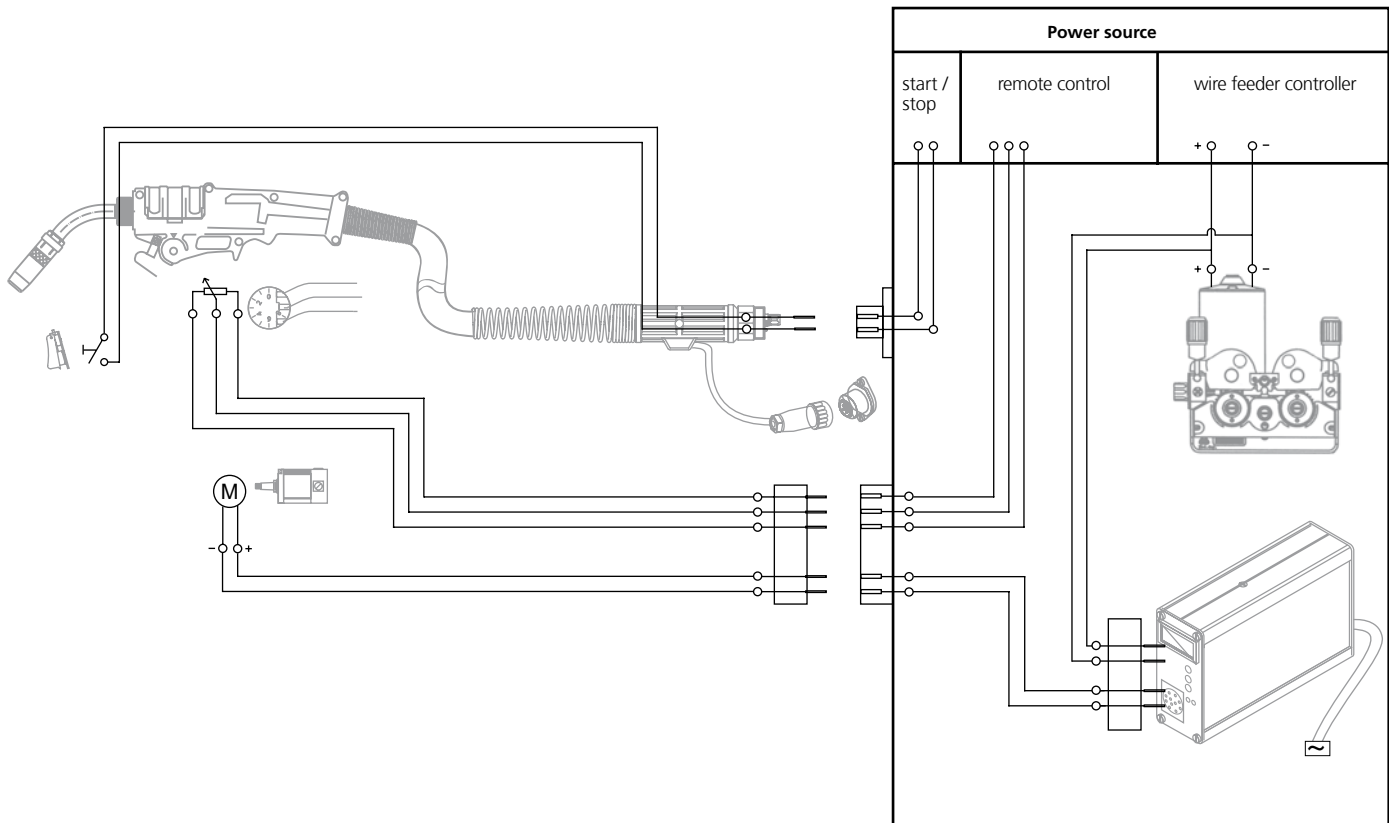
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Rating (mixed gas)	TBi PPP 7G: 325 A at 60% DC TBi PPP 7W: 380 A at 100% DC
Cooling method	TBi PPP 7G: aircooling TBi PPP 7W: watercooling
Wire diameter	0.8 – 1.6 mm
Gas flow	14 l/min
Technical specification	according to IEC 60974-7
Connection	Euro-Central connector, other connectors (e.g. Cloos®, ESAB®) available upon request.
Cable assemblies	Standard 4, 6, 8, 10 or 12 m, custom lengths up to 25 m available.

Torch rating will be reduced when using pulsed-arc power sources. Special torch necks are available upon request.



Connection diagram



Description

The TBI Syntronic is responsible for the perfect synchronization of wire feeding speed between the main wire feeder of the power source (master) and the compact planetary drive in the handheld torch (slave).

The high-resistance input of the Syntronic is only a measurement port for the voltage on the main feeder motor, any influence on the behaviour of the power source is eliminated.

Many years of practical experience have helped the development of the digitally controlled TBI Syntronic. Even the most complicated wire speed profiles will be precisely replicated in the torch, including the pull-back of the wire.

Short description of the installation

1. Connect the Syntronic to the main feeder motor and to supply voltage. To facilitate the exchange of the torch, an additional socket is mounted on the front panel. This is also the connection for the remote control potentiometer.
2. Connect the torch. Open the planetary head and let the wire run in automatically.
3. Adjust the motor characteristics for two set-points:
 - Choose a low wire speed, adjust the Syntronic with the help of the built-in LCD-meter, while the wire is running (see detailed manual for more information).
 - Choose a high wire speed, adjust the Syntronic on the second set-point as before.

