

Wire Feeder System "ABIDRIVE V2"

ABIDRIVE V2 – precise wire feeding for professional welding seam results

The new wire feeding unit ABIDRIVE V2 of ABICOR BINZEL equipped with the special 4-roller drive offers a constantly precise wire feeding for manual and automated TIG welding. With the intuitive menu guidance, individual settings of wire feeding are simple. The detailed customization possibilities to each welding task lead to an optimal result.

Together with the air cooled manual TIG welding torches ABITIG® GRIP 200, the liquid cooled manual TIG torches ABITIG® GRIP 260 W / 450 W and the liquid cooled TIG machine welding torches ABITIG® 260 W / 400 W / 500 W MT, the wire feeding unit ABIDRIVE V2 forms the ideal system for welding long TIG seams in a time-saving, comfortable and process-safe manner.

The wire feeding system can be easily adapted to various TIG welding machines via customized intermediate cable assemblies.

The advantages of the compact and robust ABIDRIVE V2 at a glance:

- Wire speed adjustable from 0.2 to 8.0 m/min
- Fine adjustment of wire speed in steps of 0.02 m/min
- 2 driven wire feeding rolls for minimal slippage and maximum feed constancy
- Individually customizable wire retraction
- Finely adjustable interval function to define the seam shaping and optics
- Optional remote controllers (potentiometer or up/down) – for automated TIG welding
- Commercial standard connections / quick couplings



Technical data

ABIDRIVE V2 (230 V)

Technical data (IEC 60974)

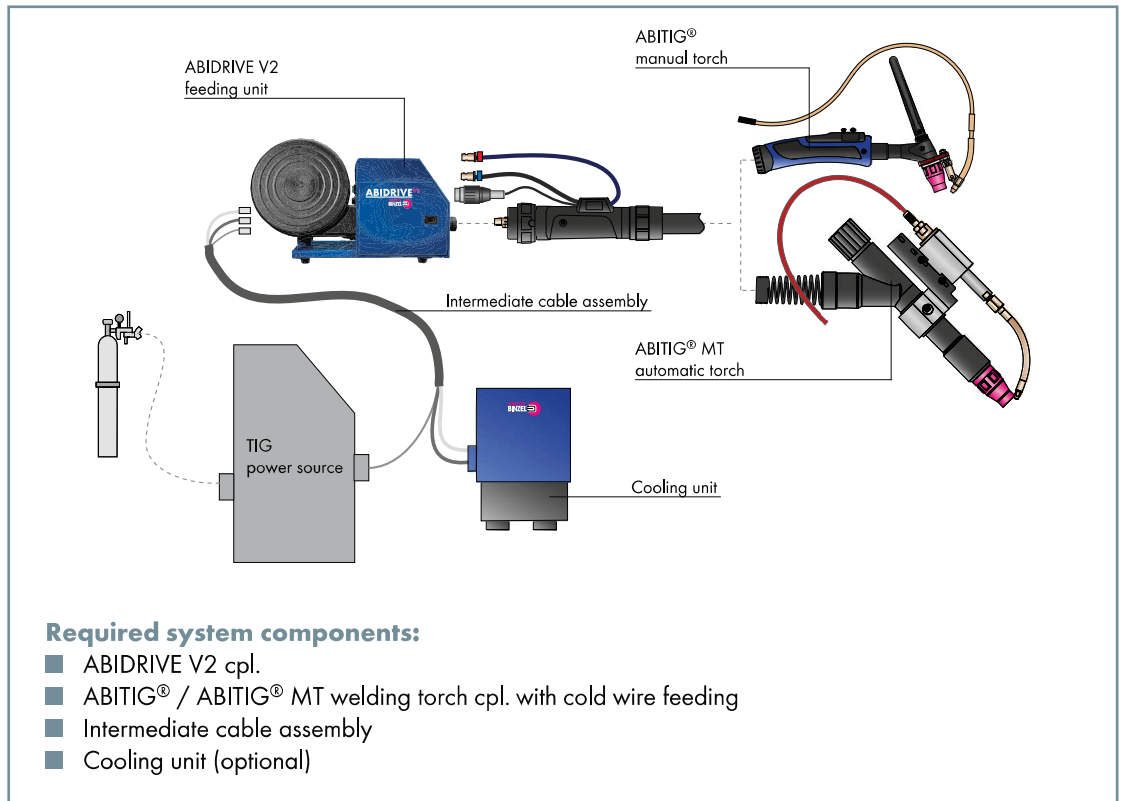
Inlet voltage:	230 V/50 Hz ± 10 %
Welding current:	300 A (100% duty cycle and direct connection)
Delay fuse:	2 AT
Wire speed:	0.2–8.0 m/min
Wire diameter:	0.8–1.6 mm
Protection class:	IP21s
Weight:	17 kg
Size in mm (L/W/H):	674x260x408

ABIDRIVE V2 (115 V)

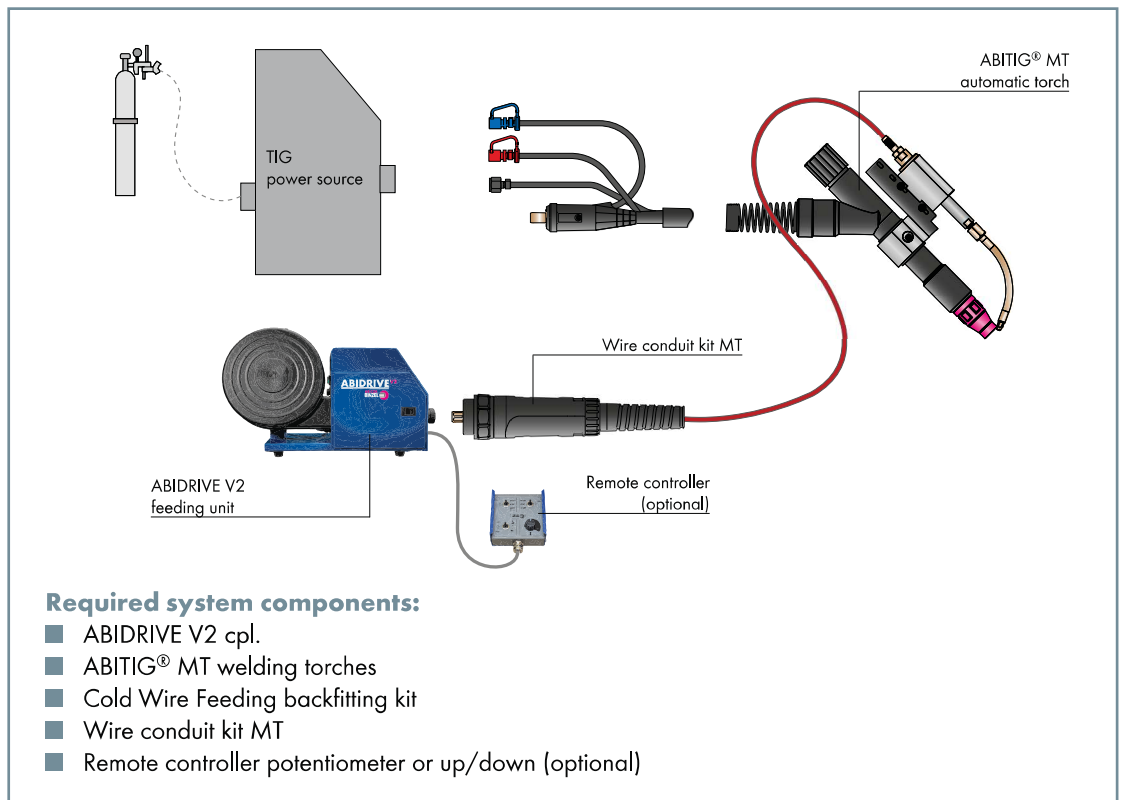
Technical data (IEC 60974)

Inlet voltage:	115 V/50 Hz ± 10 %
Welding current:	300 A (100% duty cycle and direct connection)
Delay fuse:	2 AT
Wire speed:	0.2–8.0 m/min
Wire diameter:	0.8–1.6 mm
Protection class:	IP21s
Weight:	17 kg
Size in mm (L/W/H):	674x260x408

**System overview
direct connection
ABIDRIVE V2**



**System overview
direct connection
power source**



Wire Feeder System "ABIDRIVE V2"

ABIDRIVE V2 cpl.



Wire Feeder System ABIDRIVE V2

Description	Details	Part-No.
Wire Feeder System ABIDRIVE V2	230 V	525.2002.1
Wire Feeder System ABIDRIVE V2	115 V	525.2003.1

Drive rolls

Drive rolls (1 pc.)

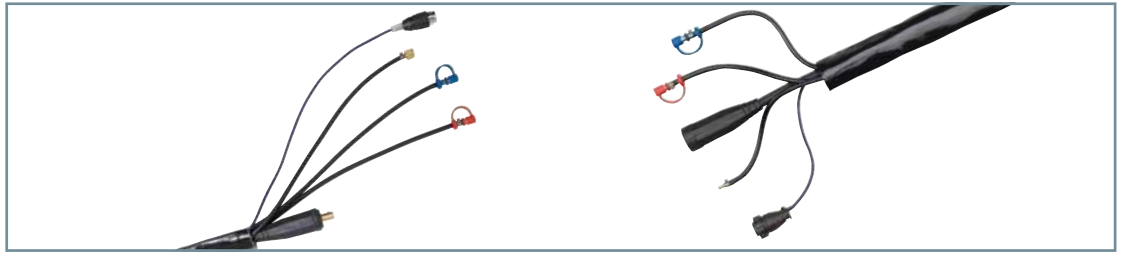
Description	Details	Part-No.
Wire feed roll 1.0 cpl.	4x U-groove driven	525.2053.1
Wire feed roll 1.2 cpl.	4x U-groove driven	525.2004.1
Wire feed roll 1.6 cpl.	4x U-groove driven	525.2005.1
Wire feed roll 0.8 cpl.	2x V-groove / 2x smooth	525.2008.1
Wire feed roll 1.0 cpl.	2x V-groove / 2x smooth	525.2009.1
Wire feed roll 1.2 cpl.	2x V-groove / 2x smooth	525.2010.1
Wire feed roll 1.6 cpl.	2x V-groove / 2x smooth	525.2011.1
Wire feed roll 0.8 cpl.	2x V-groove / 2x smooth driven	525.2012.1
Wire feed roll 1.0 cpl.	2x V-groove / 2x smooth driven	525.2013.1
Wire feed roll 1.2 cpl.	2x V-groove / 2x smooth driven	525.2014.1
Wire feed roll 1.6 cpl.	2x V-groove / 2x smooth driven	525.2015.1
Wire feed roll 0.8	2x V-groove w/o pressure roll	525.2049.1
Wire feed roll 1.0	2x V-groove w/o pressure roll	525.2050.1
Wire feed roll 1.2	2x V-groove w/o pressure roll	525.2051.1
Wire feed roll 1.6	2x V-groove w/o pressure roll	525.2052.1

Options / Spare parts

Options / Spare parts

Description	Details	Part-No.
Remote control V2	Up/Down	525.2042.1
Remote control V2	Potentiometer	525.2043.1
Drive gear	Plastics	525.2044.1
Feed cpl.		525.2045.1
Wire cover cpl.		525.2046.1
Central connector cpl.		525.2047.1
Gear motor		525.2048.1

Intermediate cable assembly



TIG intermediate cable assembly (L=2.00 m), air cooled

Current	Control cable	Inert gas	Coolant		Details	Part-No.
			Inlet	Return		
BCS-11 BLS-46B BHC-00	Amphenol 7 pol.	G1/4" IG	-	-	Kemppi®	525.2022.1
BCS-06 BLS-15A BHC-00	Tuchel 9 pol.	G3/8" IG	-	-	Fronius®	525.2024.1
Plug 50-70 BLS-01B BHC-05	Tuchel 5 pol.	NW 2,7mm	-	-	Lorch®	525.2056.1

TIG intermediate cable assembly (L=2.00 m), liquid cooled

Current	Control cable	Inert gas	Coolant		Details	Part-No.
			Inlet	Return		
Plug 50-70 BLS-37 BHC-11	Burndy 8 pol.	G1/4" IG	ND 5 mm	ND 5 mm	EWM®	525.2017.1
Plug 50-70 BLS-01A BHC-11	Tuchel 5 pol.	G1/4" IG	ND 5 mm	ND 5 mm	EWM®	525.2018.1
Plug 50-70 BLS-01B BHC-16	Tuchel 5 pol.	ND 2.7 mm	ND 5 mm	ND 5 mm	Lorch®	525.2019.1
Plug 50-70 BLS-03A BHC-16	Rundsteckverb. 7 pol.	ND 2.7 mm	ND 5 mm	ND 5 mm	Rehm®	525.2020.1
BCS-11 BLS-46B BHC-12	Amphenol 7 pol.	G1/4" IG	ND 5 mm	ND 5 mm	Kemppi®	525.2021.1
BCS-03 BLS-01A BHC-12	Tuchel 5 pol.	WZ-0	ND 5 mm	ND 5 mm	Merkle®	525.2023.1
Plug 50-70 BLS-01B BHC-11	Tuchel 5 pol.	G1/4" IG	ND 5 mm	ND 5 mm	Jäckle®/ Lorch®	525.2025.1
BCS-36 BLS-15A BHC-12	Tuchel 9 pol.	central Fronius-ZA	ND 5 mm	ND 5 mm	Fronius®	525.2026.1
BCS-06 BLS-10A BHC-15	Amphenol 4 pol.	G1/4" IG	G3/8" IG	G3/8" IG	Kemppi®	525.2027.1
Plug 50-70 BLS-09A BHC-21	Amphenol 2 pol.	G1/8" IG	ND 5 mm	ND 5 mm	ESAB®	525.2028.1
BCS-19 BLS-04A BHC-00	Tuchel 5 pol.	central Oerlikon-ZA	central	central	Oerlikon®	525.2029.1
BCS-25 BLS-04A BHC-12	Tuchel 5 pol.	central Oerlikon BSB	ND 5 mm	ND 5 mm	Oerlikon®	525.2030.1
BCS-07 BLS-99A BHC-12		ZA 9 pol.	ND 5 mm	ND 5 mm	Esab®/ Selco®	525.2031.1
Plug 50-70 BLS-01B BHC-30	Tuchel 5 pol.	G1/4" IG	G3/8" IG	M12x1	ESS®	525.2032.1
BCS-37 BLS-01A BHC-12	Tuchel 5 pol.	Merkle TCG	ND 5 mm	ND 5 mm	Merkle®	525.2033.1
Plug 50-70 BLS-01B BHC-26	Tuchel 5 pol.	G3/8" IG	ND 5 mm	ND 5 mm	Cloos®	525.2036.1
Plug 50-70 BLS-64B BHC-20	Amphenol 6 pol.	ND 5 mm	ND 5 mm	ND 5 mm	CEA®	525.2057.1

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