

Robust Feed AVS

A versatile voltage-sensing wire feeder for use with any CV or CC welding power supply



reddot winner 2021

Industry

- Railcars
- Ship/Barge Building
- Civil Construction
- Repair and Maintenance

Dirt. Drops. Mud. Rain. Game on. You are a welder, and you are not afraid to get your hands dirty. You work in some of the toughest conditions, and you need equipment you can take anywhere. That is why we created Robust Feed –our most durable, ergonomic, and high-performing wire feeder yet.

The Robust Feed, with its ergonomic, robust and enclosed design, is the ideal partner whenever portability and durability are key. These welding wire feeders are equipped with a new precision wire drive system perfect for demanding applications.

- Quick-change, four-roll drive reduces downtime and provides consistent feeding results. Rolls are easily changed from one wire size to another without the need for tools
- Digital meters for Voltage and WFS ensure more arc time, are labor-saving and beneficial for critical welds using specific welding procedures
- Durable, drop-proof housing that withstands demanding applications
- Weatherproof, enclosed design that withstands rain from all directions ensures the filler metal is kept dry
- Full use of the Robust Feed family accessories such as wheel kit and strain reliefs make this feeder the perfect solution for the toughest applications

Visit esab.com for more information.



Internal LED lights and intergrated storage for wear parts in lid



Wheel Kit works with feeder horizontal or vertical

Robust Feed AVS

Specifications	
Input Voltage, Max	14 - 100 VDC
Welding Output	500 A @ 40% 450 A @ 60% 350 A @100%
Wire Dimensions Mild Steel Stainless Steel Cored Wire Aluminum	0.6 – 2.0 mm (.023 – 5/64 in.) 0.6 – 1.6 mm (.023 – 1/16 in.) 0.9 – 2.4 mm (.035 – 3/32 in.) 0.9 – 1.6 mm (.035 – 1/16 in.)
Wire Feed Speed	1.3 – 25.0 m/min (51 – 984 ipm)
Wire Spool Capacity	20 kg (44 lbs)
Max Spool Diameter	300 mm (12 in.)
Operating Temperature	-20° to +55°C (-4 to 131 °F)
Protection Class	IP44
Certification Mark (Standards)	CE,CSA,RCM,CCC,EAC,IEC
Dimensions L x W x H, incl. top handle	595 x 250 x 430 mm (23.4 x 9.8 x 16.9 in.)
Weight	18.37 kg (40.5 lbs)

Features		
	Robust Feed AVS Tweco	Robust Feed AVS Tweco w/ flow meter
Current Display	X	X
Gas Flow Meter		X
Front Torch Connector, Euro		
Front Torch Connector, Tweco 4	X	X
Front HMI Panel (V/A display)	X	X
Front Knobs	X	X
IP44	X	X
Fan	X	X
LED (Internal)	X	X
Gas-purge/inching	X	X
2T/4T	X	X
Creep Start	X	X
Circuit Breaker	X	X
On/OFF Switch	X	X
CC/CV Mode	X	X

Robust Feed AVS

Ordering Information	
Robust Feed AVS Tweco	0446700882
Robust Feed AVS Tweco (incl. gas flow meter)	0446700883

Options & Accessories	
Robust Feed Wheel Kit	0446081880
Torch Strain Relief	0446082880
Trolley (Robust Feed/Warrior Feed)	0349313450
Trolley Retrofit Kit Robust Feed †	0349313100
Guide Pin Extension Kit **	0465508880
Liquid Cooling Kit (to upgrade air cooled feeders)	0446123880
Quick Connector Marathon Pac™	F102440880
OKC 50 female cable connector, 1/0-4/0 cable (50 mm²) EU	0160361881
OKC 50 male cable connector, 1/0-4/0 cable (50 mm²) EU	0160360881
2-MPC Tweco female cable connector, 1/0-3/0	94251220
2-MPC Tweco male cable connector, 1/0-3/0	94251210
Air-Cooled Torches	
Flux Cored SEFC 350Amps 15ft Self Shielded	30938SP
Flux Cored SEFC 450Amps 15ft Self Shielded	44070SP
Spray Master 350 Air Cooled MIG Gun (350A, 1/16, 12 ft, Tweco)	1036-1613
Spray Master 350 Air Cooled MIG Gun (350A, 1/16, 15 ft, Tweco)	1036-1615
Spray Master 450 Air Cooled MIG Gun (450A, 1/16, 15 ft, Tweco)	1040-1052
Spray Master 450 Air Cooled MIG Gun (450A, 1/16, 25 ft, Tweco)	1040-1058
Classic 5 Air Cooled MIG Gun (500A, 1/16, 15 ft, Tweco)	1050-1113

† To fit Robust Feed on previous Warrior Trolley 0465510880

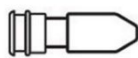
** Extension Kit required when Wheel Kit is used in combination with Trolley.

Robust Feed AVS

Wear & Spare Parts	
Feed Roller V Groove for Fe/SS/C 0.6-0.8 mm	0445850001
Feed Roller V Groove for Fe/SS/C 0.8-0.9/1.0 mm	0445850002
Feed Roller V Groove for Fe/SS/C 0.9/1.0-0.9/1.0 mm	0445850003
Feed Roller V Groove for Fe/SS/C 0.9/1.0-1.2 mm *	0445850004
Feed Roller V Groove for Fe/SS/C 1.2-1.2 mm	0445850005
Feed Roller V Groove for Fe/SS/C 1.4-1.6 mm	0445850006
Feed Roller V Groove for Fe/SS/C 2.0 mm	0445850007
Feed Roller V-K Groove for C 0.9/1.0-1.2 mm	0445850030
Feed Roller V-K Groove for C 1.2-1.2 mm	0445850031
Feed Roller V-K Groove for C 1.2-1.4 mm	0445850032
Feed Roller V-K Groove for C 1.6-1.6 mm	0445850033
Feed Roller V-K Groove for C 2.0-2.0 mm	0445850035
Feed Roller V-K Groove for C 2.4-2.4 mm	0445850036
Feed Roller U Groove for Al 0.8-1.0 mm	0445850050
Feed Roller U Groove for Al 1.0-1.2 mm	0445850051
Feed Roller U Groove for Al 1.2-1.6 mm	0445850052
Inlet Wire Guide Ø 2 mm for Fe/SS/Al/C 0.6-1.6 mm	0445822001
Inlet Wire Guide Ø 3 mm for Fe/C 1.8-2.4 mm	0445822002
Middle Wire Guide for Fe/SS/C 0.6-1.6 mm	0446080882
Middle Wire Guide for Fe/C 1.8-2.4 mm	0446080883
Middle Wire Guide for Al 0.8-1.6 mm	0446080881
Outlet Wire Guide for Fe/SS/C 0.6-1.6 mm, Tweco	0445830883
Outlet Wire Guide for Fe/C 1.8-2.4 mm, Tweco	0445830884
Outlet Wire Guide for Al 0.8-1.6 mm, Tweco	0445830886

Fe = Mild Steel; SS = Stainless Steel, Al = Aluminum, C = Cored Wire * Included in delivery.
For complete list of wear and spare parts please see separate manual.

Inlet Wire Guide



Middle Wire Guide



Outlet Wire Guide



Dual Groove Feed Roller



V Groove



V-K Groove



U-Groove



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