AccuLock[™] **S Consumables**

MIG (GMAW) Welding Consumables



Quick Specs

Applications

Shipbuilding Rail Construction Fabrication Heavy Equipment Truck and Trailer Manufacturing

System Components

Liners
Contact Tips
Nozzles
Diffusers
Power Pins
Power Pin Caps

Compatible With

BTB Series MIG Guns Miller® MDX™-250 Series MIG Guns

Wire Sizes

0.023" to 1/8" (0.6 to 3.2 mm)

It all comes together with AccuLock™

Choosing equipment with fewer points of failure and simplified maintenance can reduce welder training and shorten your troubleshooting list leading to increased productivity.

AccuLock S Consumables are designed to decrease liner trim length errors and erratic wire-feeding, while increasing contact tip life.

Error-Proof Liner Replacement — With AccuLock S Dual-Locked Liner. *See page 5 for details.*

Optimized Wire-Feeding — AccuLock S Liners are locked and concentrically aligned to both the contact tip and power pin to ensure smooth, uninterrupted delivery of the wire to the weld puddle. This means you'll benefit from reduced troubleshooting and downtime caused by burnbacks, birdnests, and erratic arc.

Enhanced contact tip-to-diffuser design

 contact tip is 60% buried within the diffuser for less exposure to the heat of the weld and more cooling from shielding gas for 2-3x longer life.



AccuL@ck[™]



Keeps the liner perfectly aligned from the power pin to the contact tip



Eliminates measuring the liner - simply cut flush with the back of the power pin



Contact tips can be used on robotic, semi-automatic and fixed automatic guns



Bernard

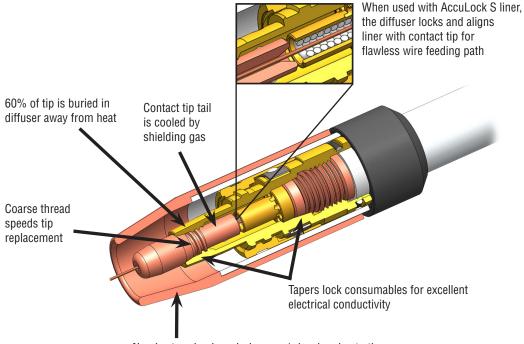
A Division of Miller Electric Mfg. LLC 449 West Corning Road Beecher, Illinois 60401 USA Phone: 1-855-MIGWELD (644-9353) (US & Canada Only)

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For more information, visit us at Tregaskiss.com

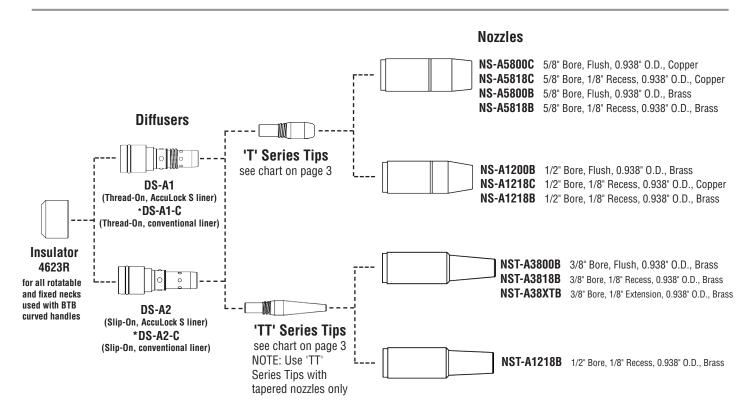
AccuLock S Key Features

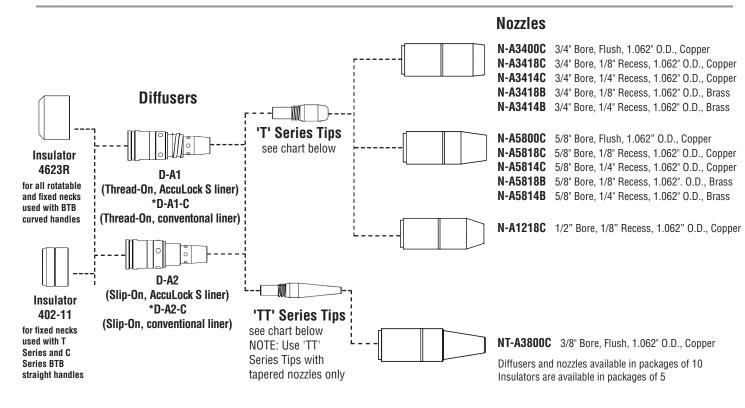


Nozzle stays in place during use / cleaning due to the steel retaining ring on the diffuser that helps to keep the threaded nozzle from loosening

AccuLock S Consumables

Small AccuLock S Diffusers and Nozzles





NOTE: *Not engineered for error-proof liner replacement and flawless wire feeding. For use with Bernard conventional liners. Refer to spec sheet SP-L for more information.

AccuLock Contact Tips

'T' Series Contact Tips (0.350" O.D.)

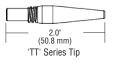


0.023"	(0.6 mm)
0.030"	(0.8 mm)
0.035"	(0.9 mm)
0.039"	(1.0 mm)
0.045"	(1.2 mm)
0.052"	(1.4 mm)
1/16"	(1.6 mm)
0.072"	(1.8 mm)
5/64"	(2.0 mm)
3/32"	(2.4 mm)
7/64"	(2.8 mm)
1/8"	(3.2 mm)
	0.030" 0.035" 0.039" 0.045" 0.052" 1/16" 0.072" 5/64" 3/32" 7/64"

^ add "-100" to the end of the above 'T' series contact tip part numbers for quantities of 100.
*add "-1000" to end of the above 'T' series contact tip part numbers listed for quantities of 1000.

- Torque to 30 in.-lbs. (3.5 Nm)
- Contact tips available in quantities of 10

'TT' Series Contact Tips (0.350" O.D.)



TT-A023CH	0.023"	(0.6 mm)
TT-A030CH	0.030"	(0.8 mm)
TT-A035CH	0.035"	(0.9 mm)
TT-A039CH	0.039"	(1.0 mm)
TT-A045CH	0.045"	(1.2 mm)
TT-A052CH	0.052"	(1.4 mm)
TT-A062CH	1/16"	(1.6 mm)

Bernard® AccuLock S and Tregaskiss® AccuLock R Consumables share a common contact tip. If you have a combination of robotic and semi-automatic guns in your facility, you'll benefit from reduced costs and simplified inventory.



AccuLock S Liners

		Cable Length			
Wire Size	Liner Color	10' (3.05m)	15' (4.57m)	20' (6.10m)	25' (7.62m)
0.023" (0.6 mm) - 0.030" (0.8 mm)	Yellow	LA1A-10	LA1A-15	LA1A-20	LA1A-25
0.030" (0.8 mm) - 0.035" (0.9 mm)	Green	LA2A-10	LA2A-15	LA2A-20	LA2A-25
0.035" (0.9 mm) - 0.045" (1.2 mm)	White	LAD3A-10	LAD3A-15	LAD3A-20	LAD3A-25
0.045" (1.2 mm) - 1/16" (1.6 mm)	Red	LAD4A-10	LAD4A-15	LAD4A-20	LAD4A-25
5/64" (2.0 mm)	Blue	LA6A-10	LA6A-15	LA6A-20	LA6A-25
3/32" (2.4 mm)	Grey	LA7A-10	LA7A-15	LA7A-20	LA7A-25
7/64" (2.8 mm) - 1/8" (3.2 mm)	Black	LA8A-10	LA8A-15	LA8A-20	LA8A-25

AccuLock S Power Pin and Power Pin Caps (for use with AccuLock S liners)

	Power Pin	Power Pin Cap	Cap Washer Color	Compatible Wire Size
Miller® _		2200351	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		2200352	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
	2200206	2200353	White	0.035" (0.9 mm) - 0.045" (1.2 mm)
		2200354	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
	i i	2200355	Blue	5/64" (2.0 mm)
	0000007	2200356	Grey	3/32" (2.4 mm)
	2200207	2200357	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)
		2200309	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		2200310	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
	2200210	2200311	White	0.035" (0.9 mm) - 0.045" (1.2 mm)
Lincoln®		2200312	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
		2200313	Blue	5/64" (2.0 mm)
	0000011	2200314	Grey	3/32" (2.4 mm)
	2200211	2200315	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)
		2200281	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		2200282	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
	2200150	2200283	White	0.035" (0.9 mm) - 0.045" (1.2 mm)
Tweco® #4		2200284	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
		2200285	Blue	5/64" (2.0 mm)
	0000454	2200286	Grey	3/32" (2.4 mm)
	2200151	2200287	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)
		2200295	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		2200296	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
	2200156	2200297	White	0.035" (0.9 mm) - 0.045" (1.2 mm)
Tweco® #5		2200298	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
		2200299	Blue	5/64" (2.0 mm)
	2200157	2200300	Grey	3/32" (2.4 mm)
		2200301	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)
	_	2200337	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		2200338	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
		2200339	White	0.035" (0.9 mm) - 0.045" (1.2 mm)
Euro	2200359 / 2200273	2200340	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
	Г	2200341	Blue	5/64" (2.0 mm)
	Г	2200342	Grey	3/32" (2.4 mm)
	Г	2200343	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)
		2200323	Yellow	0.023" (0.6 mm) - 0.030" (0.8 mm)
		2200324	Green	0.030" (0.8 mm) - 0.035" (0.9 mm)
		2200325	White	0.035" (0.9 mm) - 0.045" (1.2 mm)
0X0™	2200358	2200326	Red	0.045" (1.2 mm) - 1/16" (1.6 mm)
		2200327	Blue	5/64" (2.0 mm)
		2200328	Grey	3/32" (2.4 mm)
		2200329	Black	7/64" (2.8 mm) - 1/8" (3.2 mm)

AccuLock™ S Conversion Series

Convert from your current consumables to our AccuLock S Consumables for your Bernard® BTB semi-automatic MIG gun or competitive style MIG guns. Find your MIG gun make and model on the left, then follow the chart to the right for parts needed to upgrade.

Gun Manufacturer	Gun Model	Desired Nozzle / Diffuser Style	Adapter	Insulator	Diffuser	Contact Tip	Nozzle
Bernard®	BTB Semi-Automatic MIG Gun	Small	Not	4623R	DS-A1-C (thread-on) DS-A2-C (slip-on)		
		Large	Required	4023N	D-A1-C (thread-on) D-A2-C (slip-on)		
Tweco®	No. 1, No. 2	Small	1380030	10012	DS-A1-C (thread-on) DS-A2-C (slip-on)		Select from nozzles on
		Large	1300030	10012	D-A1-C (thread-on) D-A2-C (slip-on)		pages 2-3 Note: use
	No. 3, No. 4, Tuff-n-Lite, Supra®	Small	Not	10012	DS-A1-C (thread-on) DS-A2-C (slip-on)	Select from tips	small nozzles
	XT (HD consumables), Spray Master 450	Large	Required	10012	D-A1-C (thread-on) D-A2-C (slip-on)	on page 3	with small diffusers
Lincoln®	Magnum® 250	Small	1380030	10012	DS-A1-C (thread-on) DS-A2-C (slip-on)		and large nozzles
		Large	1300030	10012	D-A1-C (thread-on) D-A2-C (slip-on)		with large diffusers
	Magnum® 300, 400	Small	Not	10012	DS-A1-C (thread-on) DS-A2-C (slip-on)		
		Large	Required	10012	D-A1-C (thread-on) D-A2-C (slip-on)		

Above gun models are registered tradenames of their respective companies

AccuLock™ S for Conventional Liners Starter Kit





Part Number	Description
	Conventional liner starter kit. Allows welders to convert thier Bernard [®] BTB MIG gun consumables, or select competitor MIG gun consumables, to AccuLock S consumables.
	Swap current nozzle, diffuser and contact tip with AccuLock S consumables while still using a conventional liner.

With AccuLock S – the liner replacement process has been error-proofed. No more measuring means no more liners trimmed incorrectly.

Quick Reference for AccuLock™ S Liner Installation

The below liner installation instructions are not applicable for Bernard conventional liner diffusers (D-A1C, DS-A1C, D-A2C and DS-A2C).



1. Loosen power pin cap set screw. Remove nozzle, gas diffuser, power pin cap, and liner.



3. Lock and center liner by reinstalling the diffuser. Slide power pin cap over exposed liner and tighten the cap snug against power pin shoulder with welding pliers or appropriate wrench.



Scan to view detailed AccuLock S liner installation instructions

2. Replace the new liner through the neck until brass liner lock bottoms on neck.



4. Holding a hex wrench as shown, tighten the screw "finger-tight" against the liner.



Quick Reference Instructions Continued on page 6

Quick Reference for AccuLock S Liner Installation (Continued)

5. Next, hold the hex wrench by the handle and tighten the set screw and additional one-half turn to fully secure the liner.





7. Insert a piece of welding wire into the liner to check for burrs or obstructions. If needed, loosen screw slightly until wire slides freely.





Quick Reference for Bernard Conventional Liner Installation

Refer to Bernard Conventional Liner spec sheet SP-L for liner installation instructions.

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Subject to Change – The information presented in this spec sheet is accurate to the best of our knowledge at the time of printing. Please visit Tregaskiss.com for the most up-to-date information.

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