

Bernard® T-Gun™ MIG Guns

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**Semi-Automatic Water-Cooled
MIG Welding Guns** 

Quick Specs	Applications	Processes	Rated Output	Wire Size	Duty Cycle
	Heavy Equipment Shipbuilding & Repair Pipeline Fabrication	MIG (GMAW) Welding	400A 450A 600A	0.023" - 3/32" (0.06 mm - 2.4 mm)	100% with CO ₂ Gas 60% with Mixed Gases

Bernard® T-Gun™ semi-automatic water-cooled MIG guns are engineered for superior performance in production environments requiring extremely high-heat applications.

The insulated neck, armored with stainless steel, better withstands abuse, and all neck joints are silver brazed and leak tested.

Available in 400 amp (compact series models), 450 and 600 amp models, all Bernard T-Gun semi-automatic water-cooled MIG guns are fully configurable and compatible with front-loading QUICK LOAD® liners, TOUGH LOCK® and **new** AccuLock™ R consumables.

- Neck is insulated and armored with stainless steel to withstand abuse
- All neck water-line joints are silver brazed and 100% leak tested
- Custom neck length and bend configurations available
- Nozzles thread directly to neck for a cooler-running nozzle
- Water-cooled internally to diffuser/retaining head
- Custom gun lengths available
- Compatible with front-loading QUICK LOAD® liners, TOUGH LOCK® consumables and **new** AccuLock™ R consumables



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Handle and Trigger Options

Handles and Triggers

400 amp Models

Part Number	Description
320	Handle, front
610	Handle, rear (with strain relief)
211-5	Trigger
211-5-8	Trigger housing, extended lever

450, 600 amp Models

Part Number	Description
610	Handle, front/rear
411-1	Trigger
411-2	Trigger housing
411-4	Trigger housing, lock-on

Part Number	Description
411-12	Trigger housing, dual schedule
411-13	Trigger housing, lock-on D/S
411-23	Trigger housing, extended lever
411-11	Trigger housing, two-position

Necks and Neck Insulators

400 amp Models

Part Number	Description
445-45	Neck, 45 degree
445-60	Neck, 60 degree
402-7	Neck insulator, 400 amp

450 amp Models

Part Number	Description
455-45	Neck, 45 degree
455-60	Neck, 60 degree
455-180	Neck, 180 degree
452-3	Neck insulator

600 amp Models

Part Number	Description
595-45	Neck, 45 degree
595-60	Neck, 60 degree
595-180	Neck, 180 degree

Consumables

AccuLock™ R Consumables

See AccuLock™ R Consumables Spec Sheet (SP-ALR) for more information and additional options that can be ordered separately



Contact Tips

T-A023CH	0.023" (0.6 mm)
T-A030CH	0.030" (0.8 mm)
T-A035CH	0.035" (0.9 mm)
T-A039CH	0.039" (1.0 mm)

T-A045CH	0.045" (1.2 mm)
T-A052CH	0.052" (1.3 mm)
T-A062CH	1/16" (1.6 mm)

T-A072CH	0.070" (1.8 mm)
T-A078CH	5/64" (2.0 mm)
T-A094CH	3/32" (2.4 mm)

Nozzles

401-5-62	5/8" bore, 1/4" recess, copper; 400A, 450A
601-5-62	5/8" bore, 1/4" recess, bronze; 600A
601-6-75	3/4" bore, 1/8" recess, bronze; 600A

Gas Diffusers

D-ATTH	Gas diffuser, thread-on; 400A, 450A
D-ATSH	Gas diffuser, slip-on; 400A, 450A
D-ATTH-MW1	Gas diffuser, thread-on; 600A

TOUGH LOCK® Heavy Duty Consumables



Contact Tips

403-20-30	0.030" (0.8 mm)
403-20-35	0.035" (0.9 mm)*
403-20-1.0	0.039" (1.0 mm)
403-20-45	0.045" (1.2 mm)*
403-20-52	0.052" (1.4 mm)

403-20-116	1/16" (1.6 mm)*
403-20-564	5/64" (2.0 mm)
403-20-332	3/32" (2.4 mm)
403-20-364	3/64" (1.2 mm) aluminum

*Part number also applicable for aluminum wire in corresponding size

Nozzles

401-4-38	3/8" bore, flush, copper; 400A, 450A
401-6-50	1/2" bore, 1/8" recess, copper; 400A, 450A
401-4-50	1/2" bore, 1/8" recess, copper; 400A, 450A
401-5-62	5/8" bore, 1/4" recess, copper; 400A, 450A
401-42-50	1/2" bore, 1/8" recess, brass; 400A, 450A
601-5-62	5/8" bore, 1/4" recess, bronze; 600A
601-6-75	3/4" bore, 1/8" recess, bronze; 600A

Retaining Heads

404-30	Retaining head; 400A, 450A
404-38	Retaining head; 600A

Consumables (Continued)

QUICK LOAD® Liners (front-loading)

See QUICK LOAD® Liner and AutoLength Pins Spec Sheet (SP-QLL) for more information

10-foot Gun Lengths

415-35-10Q for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire **415-116-10Q** for 0.045" (1.2 mm) - 1/16" (1.6 mm) wire

12-foot, 15-foot Gun Lengths

415-23-15Q for 0.023" (0.6 mm) wire **415-116-15Q** for 0.052" (1.3 mm) - 1/16" (1.6 mm) wire
415-30-15Q for 0.030" (0.8 mm) wire **415-564-15Q** for 5/64" (2.0 mm) wire
415-35-15Q for 0.035" (0.9 mm) - 0.045" (1.2 mm) wire **415-332-15Q** for 3/32" (2.4 mm) wire

Liner Retainers (required for initial installation)

415-26 for 0.035" - 5/64" wire
415-24 for 0.078" - 3/32" wire

Conventional Liners for Aluminum Wire (rear-loading)

10-foot Gun Lengths

415-45-02 polymer liner for 0.035" - 3/64" wire **415-116-22** polymer liner for 3/64" - 1/16" wire

12-foot, 15-foot Gun Lengths

415-45-03 polymer liner for 0.035" - 3/64" wire **415-116-2** steel wrapped nylon liner for 0.045" - 1/16" wire
415-35-2 steel wrapped nylon liner for 0.035" - 0.045" wire **415-116-23** polymer liner for 3/64" - 1/16" wire

Jump Liners

415-25 Bronze jump liner for polymer liner

Components

Conduits

657-15 Conduit, 15-ft service (cut to size for other lengths)

Water Lines

658 Water line, red (out) **656-15** Internal water line, 15-ft service
658-1 Water line, blue (in)

Power Cables

659-10 Power cable, 10-ft service (actual length: 9.5 ft) **659-15** Power cable, 15-ft service (actual length: 14.5 ft)
659-12 Power cable, 12-ft service (actual length: 11.5 ft)

Replacement Cable Bundles

661-10 Replacement cable bundle, 10 ft **661-15** Replacement cable bundle, 15 ft
661-12 Replacement cable bundle, 12 ft

Control Wire Assemblies

662-10 Control wire assembly, 10 ft length **662-210** Control wire assembly, dual schedule, 10 ft; 450, 600 amp
662-15 Control wire assembly, 12 ft and 15 ft length **662-212** Control wire assembly, dual schedule, 12 ft; 450, 600 amp
662-215 Control wire assembly, dual schedule, 15 ft; 450, 600 amp

Power Pins

214 Power pin, Tweco® #4 **214-7** Power pin, Lincoln (short); 450, 600 amp
214-2 Power pin, Lincoln® **214-6-9** Power pin, Miller (aluminum); 400 amp
214-6-116 Power pin, Miller®
214-12 Power pin, Tweco #5

Ordering Information

Switch Options	Power Pin	Amperage	Cable Length	Wire Size	Nozzle	Neck	Liner/Consumables
	M	62	10	-45	-5	-545	AR
None*	Tweco® #4**	42 400	<u>400 amp</u>	-23 0.023" ^	<u>400, 450 amp</u>	<u>400, 450 amp</u>	Conventional
D Dual	B Bernard®	amp	10 10 ft	-30 0.030"	-2 401-4-38 ^	-460 60	liner ^^
schedule	M Miller®	45 450	12 12 ft	-35 0.035"	-3 401-6-50 ^	degree	Q QUICK LOAD®
2D 2-position	LN Lincoln®	amp	15 15 ft	-1.0 1.0 mm	-4 401-4-50 ^	-445 45	liner
dual	TW Tweco #5	62 600	<u>450, 600 amp</u>	-45 0.045"	-5 401-5-62	degree	-L QUICK LOAD
schedule	E Euro	amp	08 8 ft	-364 3/64" ^	-7 401-42-50 ^	<u>600 amp</u>	liner
	PA Panasonic®		10 10 ft	-52 0.052"	<u>600 amp</u>	-560 60	AutoLength™
	LT L-Tec®		12 12 ft	-116 1/16"	-5 601-5-62	degree	system
	OX OXO™		15 15 ft	-564 5/64"	-6 601-6-75	-545 45	-9 for aluminum
				-332 3/32"		degree	AR AccuLock™
						-522 22	R consumables
						degree	

*Leave the "Switch Options" option blank if selecting None.

**Leave the "Power Pin" option blank if selecting Tweco® #4.

^Not compatible with AccuLock™ R consumables option.

^^Leave the "Liner/Consumables" option blank if selecting Conventional liner.

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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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