

FUME EXTRACTION MIG GUN

APPLICATIONS	• Heavy Equipment • Ship • Fabrication • Commercial Truck & Trailer
PROCESSES	• MIG (GMAW) • Flux Cored (FCAW)
WIRE SIZE	• 0.023" - 3/32" (0.06mm-2.4mm)
RATED OUTPUT	• 300A • 400A • 500A • 600A
DUTY CYCLE	• 100% with CO ₂ Gas • 60% with Mixed Gases

Closely matching the weight, handle size and industrial-grade performance as Bernard® BTB Semi-Automatic Air-Cooled MIG Guns, the Bernard® Clean Air™ Fume Extraction MIG Gun is an industrial duty capture solution that helps to provide a cleaner, more compliant work environment.

Now with even more options to meet the needs of your welding application, Clean Air™ guns are fully configurable with your choice of straight handle or new curved handle.

- Suitable for use with solid and flux-cored wire
- Compatible with vacuum systems from most major manufacturers
- Crush- and snag-resistant vacuum hose has threaded connections for easy replacement and eliminates the need for a protective cover
- Suction Control Valve allows balance of suction with shielding gas flow to protect against porosity
- Rubber overmold on straight handle model provides comfort and control

CONFIGURE YOUR MIG GUN ONLINE
BUILD YOUR FUME EXTRACTION GUN TO MATCH YOUR APPLICATION

IMPROVED FLEXIBILITY REDUCED WRIST FATIGUE
REDUCE WRIST AND HAND FATIGUE WITH HOSE SWIVEL

Choose between:
AccuLock™, Centerfire™
and TOUGH LOCK™
Consumables



Nozzle Shroud
adjusts to 1 of 4
positions

Suction
Control Valve

Rotatable
Hose Swivel

Ball and Socket
Hose Swivel

Jacketed to protect
hose from heat
and abrasion

CONSUMABLES

(AVAILABLE THROUGH CONFIGURATOR)

ACCULOCK™ S CONSUMABLE SERIES

Contact Tips

T-A035CH	0.035" (0.9 mm)
T-A045CH	0.045" (1.2 mm)
T-A052CH	0.052" (1.4 mm)
T-A062CH	1/16" (1.6 mm)

Nozzles — Large

N-A3400C	3/4" bore, flush, copper
N-A3418C	3/4" bore, 1/8" recess, copper
N-A3414C	3/4" bore, 1/4" recess, copper
N-A3418B	3/4" bore, 1/8" recess, brass
N-A3414B	3/4" bore, 1/4" recess, brass

Nozzles — Large

N-A5800C	5/8" bore, flush, copper
N-A5818C	5/8" bore, 1/8" recess, copper
N-A5814C	5/8" bore, 1/4" recess, copper
N-A5818B	5/8" bore, 1/8" recess, brass
N-A5814B	5/8" bore, 1/4" recess, brass

Nozzles — Small

NS-A5800C	5/8" bore, flush, copper
NS-A5818C	5/8" bore, 1/8" recess, copper
NS-A5800B	5/8" bore, flush, brass
NS-A5818B	5/8" bore, 1/8" recess, brass
NS-A1200B	1/2" bore, flush, brass
NS-A1218B	1/2" bore, 1/8" recess, brass

Nozzles — Small

NS-A1218C	1/2" bore, 1/8" recess, copper
NST-A3800B	3/8" bore, flush, brass
NST-A3818B	3/8" bore, 1/8" recess, brass
NST-A38XTB	3/8" bore, 1/8" ext., brass
NST-A1218B	1/2" bore, 1/8" recess, brass

Diffusers For use with AccuLock™ S Liners (front-loading)

D-A1	Large, brass, thread-on	DS-A1	Small, brass, thread-on
D-A2	Large, brass, slip-on	DS-A2	Small, brass, slip-on

Diffusers For use with Bernard® Conventional Liners (rear-loading)

D-A1-C	Large, brass, thread-on	DS-A1-C	Small, brass, thread-on
D-A2-C	Large, brass, slip-on	DS-A2-C	Small, brass, slip-on

CENTERFIRE™ CONSUMABLE SERIES

Contact Tips

T-023	0.023" (0.6 mm)	T-062	1/16" (1.6 mm)
T-030	0.030" (0.8 mm)	T-072	0.072" (1.8 mm)
T-035	0.035" (0.9 mm)	T-078	5/64" (2.0 mm)
T-039	0.039" (1.0 mm)	T-094	3/32" (2.4 mm)
T-045	0.045" (1.2 mm)		
T-052	0.052" (1.4 mm)		

Nozzles

N-5818C	5/8" Bore, 1/8" Recess, Copper
N-5814C	5/8" Bore, 1/4" Recess, Copper
N-3414C	3/4" Bore, 1/4" Recess, Copper
NS-1218B*	1/2" Bore, 1/8" Recess, Brass
NS-1218C*	1/2" Bore, 1/8" Recess, Copper
NS-5818C*	5/8" Bore, 1/8" Recess, Copper

Diffusers

DS-1*	Small, Brass
DS-1	Large, Brass

Nozzle Shrouds

1390132*	Standard (long)
1390134	Standard (long)
1390142	Short (not configurable; purchase separately)

* FOR 300 AMP ONLY

TOUGH LOCK® CONSUMABLE SERIES

Contact Tips

403-20-30	0.030" (0.8 mm)	403-20-1.4	0.055" (1.4 mm)
403-20-35	0.035" (0.9 mm)	403-20-116	1/16" (1.6 mm)
403-20-1.0	0.040" (1.0 mm)	403-20-1.8	0.070" (1.8 mm)
403-20-45	0.045" (1.2 mm)	403-20-78	0.078" (2.0 mm)
403-20-364	3/64" (1.2 mm)	403-20-564	5/64" (2.0 mm)
403-20-52	0.052" (1.3 mm)		

Nozzles

401-6-62	5/8" Bore, 1/8" Recess, Copper
401-5-75	3/4" Bore, 1/4" Recess, Copper

Retaining Head

404-44	Brass
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Nozzle Shrouds

1390135	Standard (long)
1390142	Short (not configurable; purchase separately)

LINERS

(AVAILABLE THROUGH CONFIGURATOR)

ACCULOCK™ S LINERS (FRONT-LOADING)

SEE ACCULOCK™ S CONSUMABLES SPEC SHEET ([SP-ALS](#)) FOR PART NUMBERS AND MORE INFORMATION AND ADDITIONAL OPTIONS THAT CAN BE ORDERED SEPERATELY.

CONVENTIONAL LINER

10' (3.05 m) Gun Lengths

L3A-10 for 0.035" - 0.045" wire
L4A-10 for 0.045" - 1/16" wire

15' (4.57 m) Gun Lengths

L1A-15 for 0.023" - 0.030" wire
L2A-15 for 0.030" - 0.035" wire
L3A-15 for 0.035" - 0.045" wire
L4A-15 for 0.045" - 1/16" wire
L6A-15 for 5/64" wire
L7A-15 for 3/32" wire
L8A-15 for 7/64" - 1/8" wire

25' (7.62 m) Gun Lengths

L1A-25 for 0.023" - 0.030" wire
L2A-25 for 0.030" - 0.035" wire
L3A-25 for 0.035" - 0.045" wire
L4A-25 for 0.045" - 1/16" wire
L7A-25 for 3/32" wire
L8A-25 for 7/64" - 1/8" wire

NECK ASSEMBLIES

(AVAILABLE THROUGH CONFIGURATOR)

The below neck assembly part numbers include both the neck and vaccum tube assembly.

NECKS FOR STRAIGHT HANDLE MODEL

2390049 45°, Medium
2390050 60°, Medium

NECKS FOR CURVED HANDLE MODEL

2390047 45°, Medium
2390048 60°, Medium

POWER PINS

(AVAILABLE THROUGH CONFIGURATOR)

MILLER®

POWER PINS SHOWN ARE FOR USE WITH CONVENTIONAL LINERS ONLY.

2520077 Strain Relief
2200137 Power Pin (Includes O-Rings)
214-116 Power Pin Tip for 0.023"-1/16"
214-332 Power Pin Tip for 5/64"-3/32"
214-9 Power Pin Tip for 7/64"-1/8"
GN2021 Trigger Control Plug

EURO™

2520080 Strain Relief
5060T Euro Block Assembly
4816 Adapter Nut

LINCOLN®

2520077 Strain Relief
214-2-1 Power Pin
414-400-35 Power Pin Insulator
GLM1 Gas Line Assy.
SCL1N Trigger Control Plug

TWECO® #4

2520077 Strain Relief
214 Power Pin (Includes O-Rings)
414-400-30 Power Pin Insulator
GN2021 Trigger Cable Adaptor, Miller®
SCT1N Trigger Control Lead, Standard
SCL1N Trigger Control Lead, Lincoln®
SCX1N Trigger Control Plug, NAS Plug

TWECO® #5

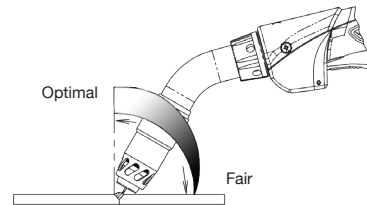
2520077 Strain Relief
214-12 Power Pin (Includes O-Rings)
414-400-29 Power Pin Insulator
GN2021 Trigger Control Plug, Miller®
SCT1N Trigger Control Lead, Standard
SCL1N Trigger Control Lead, Lincoln®
SCX1N Trigger Control Plug, NAS Plug

SEE ACCULOCK™ S CONSUMABLES SPEC SHEET (SP-ALS) FOR POWER PIN PART NUMBERS AND INFORMATION WHEN USING ACCULOCK S LINERS.

FUME CAPTURE OPTIMIZATION

Follow the diagram below for optimizing the efficiency of fume capture when welding with a fume extraction MIG gun. The joints and positions of welds will affect the efficiency of fume capture.

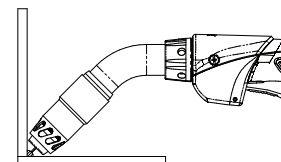
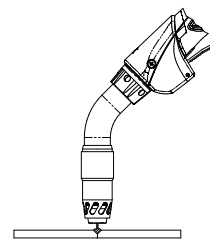
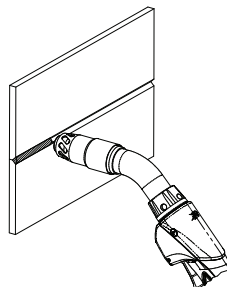
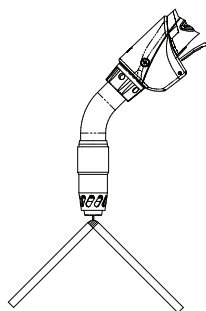
Optimal capture efficiency is achieved when fume gun is positioned directly above the weld puddle.



OPTIMAL



FAIR



NOTES

ORDERING INFORMATION

Amperage	Cable Length	Handle & Trigger	Neck	Contact Tip	Wire Size	Power Pin	Liner
CL30 300 amp Max. wire size 5/64"	10 10' (3.05 m) 15 15' (4.57 m)	N Straight Std Trigger	J Fixed, Med. 45°	3 TOUGH LOCK® Heavy Duty	A * 0.023"	E Euro	A AccuLock™ S Liner††††
CL40 400 amp Max. wire size 5/64"	20 20' (6.16 m)	T* Curved Std Trigger	K Fixed, Med. 60°	4 AccuLock™ S††	B 0.030"	L Lincoln®	C Conventional Liner
CL50 500 amp Max. wire size 3/32"	25 25' (7.63 m)			8 Centerfire™	C 0.035"	M Miller®	
CL60 600 amp Max. wire size 1/8"				9 AccuLock™ S††	D 0.039"	S Tweco® (Lincoln lead)	
					E 0.045"	T Tweco® #4 (std. lead)	
					H 0.052"	U Tweco® #4 (NAS Plug)	
					I 1/16"	V Tweco® #5 (std. lead)	
					K 5/64"		
					L 3/32"		
					M 7/64"		
					N 1/8"		
					ALUMINUM†		
					Q 0.035"		
					R 3/64"		
					S 1/16"		

BRAND AND PRODUCT NAMES SHOWN ABOVE ARE TRADEMARKS OF THEIR RESPECTIVE OWNERS.

*AVAILABLE WITH 300 AMP AND 400 AMP MODELS ONLY.

**AVAILABLE WITH CURVED HANDLE MODEL ONLY.

^AVAILABLE WITH CENTERFIRE CONTACT TIP OPTION ONLY.

^^COMPATIBLE WITH WIRE SIZES BETWEEN 0.023" AND 3/32" AND CABLE LENGTHS UP TO 15' (4.57 M); NOT COMPATIBLE WITH WIRE SIZE OPTIONS FOR ALUMINUM.

† NOT COMPATIBLE WITH ACCULOCK S CONTACT TIP, CONFIGURATOR 4 OPTION.

†† ONLY AVAILABLE WITH MILLER®, LINCOLN®, TWECO® #4 AND TWECO #5 POWER PIN OPTIONS; MUST BE USED WITH ACCULOCK S LINERS.

††† COMPATIBLE WITH BERNARD CONVENTIONAL LINERS ON MILLER PACKAGES.

†††† COMPATIBLE WITH ACCULOCK CONTACT TIP OPTION.

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TREGASKISS® AND TOUGH LOCK™ ARE TRADEMARKS OF TREGASKISS, A DIVISION OF ITW CANADA INC.

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