

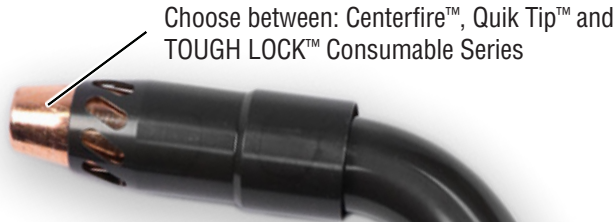
# Clean Air™ Fume Extraction MIG Gun

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Fume Extraction  
MIG Welding Guns



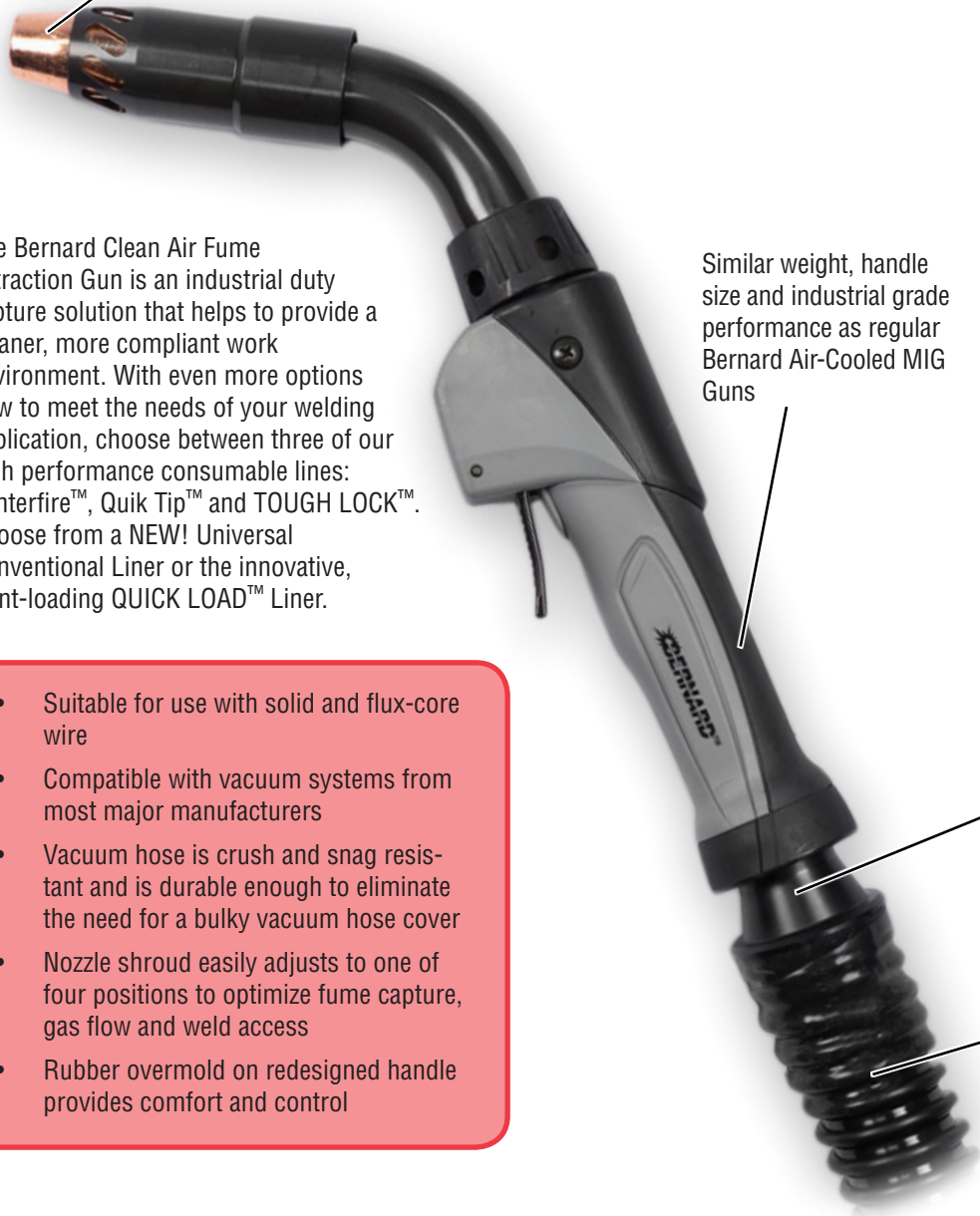
<b>Quick Specs</b>	<b>Applications</b>	<b>Processes</b>	<b>Wire Size</b>	<b>Rated Output</b>	300A 400A 500A 600A
	Heavy Equipment Shipbuilding & Repair Fabrication	MIG (GMAW) Flux Cored (FCAW)	0.023" - 1/8" (0.06 mm - 3.2 mm)	<b>Duty Cycle</b>	100% CO <sub>2</sub> Gas 60% Mixed Gas



Choose between: Centerfire™, Quik Tip™ and TOUGH LOCK™ Consumable Series

The Bernard Clean Air Fume Extraction Gun is an industrial duty capture solution that helps to provide a cleaner, more compliant work environment. With even more options now to meet the needs of your welding application, choose between three of our high performance consumable lines: Centerfire™, Quik Tip™ and TOUGH LOCK™. Choose from a NEW! Universal Conventional Liner or the innovative, front-loading QUICK LOAD™ Liner.

- Suitable for use with solid and flux-core wire
- Compatible with vacuum systems from most major manufacturers
- Vacuum hose is crush and snag resistant and is durable enough to eliminate the need for a bulky vacuum hose cover
- Nozzle shroud easily adjusts to one of four positions to optimize fume capture, gas flow and weld access
- Rubber overmold on redesigned handle provides comfort and control



Similar weight, handle size and industrial grade performance as regular Bernard Air-Cooled MIG Guns



**CONFIGURE YOUR MIG GUN ONLINE**  
Build your fume gun to match your application



**IMPROVED FLEXIBILITY REDUCED WRIST FATIGUE**  
Reduce wrist and hand fatigue with 360° hose swivel



**SMALLER LIGHT-WEIGHT HANDLE**  
Ergonomic, lightweight handle improves operator comfort

360° vacuum hose swivel on rear of handle for greater flexibility and balance

Threaded vacuum hose connections for easy replacement



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# Consumables

(available through configurator)

## Centerfire™ Consumable Series

### Contact Tips

<b>T-023</b> 0.023" (0.6 mm)	<b>T-062</b> 1/16" (1.6 mm)
<b>T-030</b> 0.030" (0.8 mm)	<b>T-072</b> 0.072" (1.8 mm)
<b>T-035</b> 0.035" (0.9 mm)	<b>T-078</b> 5/64" (2.0 mm)
<b>T-039</b> 0.039" (1.0 mm)	<b>T-094</b> 3/32" (2.4 mm)
<b>T-045</b> 0.045" (1.2 mm)	<b>T-109</b> 7/64" (2.8 mm)
<b>T-052</b> 0.052" (1.4 mm)	<b>T-125</b> 1/8" (3.2 mm)

\* For 300 amp only

### Nozzles

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

### Diffusers

<b>DS-1*</b> (Small, Brass)
<b>D-1</b> (Large, Brass)

### Vacuum Chamber

<b>1390132*</b>
<b>1390134</b>

## Quik Tip™ Consumable Series

### Contact Tips

<b>T1030</b> 0.030" (0.8 mm)	<b>T1068</b> 0.068" (1.7 mm)
<b>T1035</b> 0.035" (0.9 mm)	<b>T1072</b> 0.072" (1.9 mm)
<b>T1039</b> 0.039" (1.0 mm)	<b>T1564</b> 5/64" (2.0 mm)
<b>T1045</b> 0.045" (1.2 mm)	<b>T1332</b> 3/32" (2.4 mm)
<b>T1052</b> 0.052" (1.4 mm)	<b>T1764</b> 7/64" (2.8 mm)
<b>T1116</b> 1/16" (1.6 mm)	

### Nozzles

<b>N1C58Q</b> (5/8" Bore, Plated Copper)
<b>N1C34Q</b> (3/4" Bore, Plated Copper)

### Diffusers

<b>D118Q</b> (1/8" Recess)
<b>D114Q</b> (1/4" Recess)

### Vacuum Chamber

<b>1390133</b>
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## TOUGH LOCK™ Consumable Series

### Contact Tips

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

### Nozzles

<b>401-6-62</b> (5/8" Bore, 1/8" Recess, Copper)
<b>401-5-75</b> (3/4" Bore, 1/4" Recess, Copper)

### Retaining Head

<b>404-44</b> (Brass)
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### Vacuum Chamber

<b>1390135</b>
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# Liners

(available through configurator)

## QUICK LOAD™ Liner

### 10' (3.05 m) Gun Lengths

<b>415-35-10Q</b> for 0.035" - 0.045" wire
<b>415-116-10Q</b> for 0.045" - 1/16" wire

### 15' (4.57 m) Gun Lengths

<b>415-23-15Q</b> for 0.023" wire
<b>415-30-15Q</b> for 0.030" wire
<b>415-35-15Q</b> for 0.35" - 0.045" wire
<b>415-564-15Q</b> for 1/16" - 5/64" wire
<b>415-332-15Q</b> for 0.078" - 3/32" wire

### 25' (7.62 m) Gun Lengths

<b>415-35-25Q</b> for 0.035" - 0.045" wire
<b>415-564-25Q</b> for 1/16" - 5/64" wire
<b>415-332-25Q</b> for 0.078" - 3/32" wire

### Liner Retainers (Required for Initial Installation)

<b>415-26</b> for 0.030" - 5/64" wire
<b>415-24</b> for 0.078" - 3/32" wire

## Universal Conventional Liner

### 10' (3.05 m) Gun Lengths

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

### 15' (4.57 m) Gun Lengths

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

### 25' (7.62 m) Gun Lengths

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

# Necks

(available through configurator)

## Necks

<b>1040084</b> 45°, Medium, 2" Radius	<b>2390029</b> Vacuum Tube Assy., 45°
<b>1040085</b> 60°, Medium, 2" Radius	<b>2390030</b> Vacuum Tube Assy., 60°

# Power Pins

(available through configurator)

## Bernard™

<b>2520076</b>	Strain Relief
<b>2200140</b>	Power Pin (Includes O-Rings)
<b>4924</b>	Wire Assy. (2 Req'd)
<b>4925</b>	Locking Sleeve
<b>4916</b>	Wave Spring
<b>4912</b>	Snap Ring External
<b>4911</b>	Snap Ring Inverted

## Euro™

<b>2520080</b>	Strain Relief
<b>5060T</b>	Euro Block Assembly
<b>4816</b>	Adapter Nut
<b>AutoLength™ Pin</b>	
<b>425-820</b>	Power Pin for 0.030" - 0.045"
<b>425-920</b>	Power Pin for 0.052" - 3/32"
<b>425-11</b>	Adapter Nut

## Lincoln®

<b>2520077</b>	Strain Relief
<b>214-2-1</b>	Power Pin
<b>414-400-35</b>	Power Pin Insulator
<b>GLM1</b>	Gas Line Assy.
<b>SCL1N</b>	Trigger Control Plug
<b>AutoLength Pin</b>	
<b>214-82</b>	Power Pin for 0.030" - 0.045"
<b>214-92</b>	Power Pin for 0.052" - 3/32"

## Miller®

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

### AutoLength Pin

<b>214-81</b>	Power Pin for 0.030" - 0.045"
<b>214-91</b>	Power Pin for 0.052" - 3/32"
<b>214-9</b>	Power Pin Tip for 7/64" - 1/8"

## Tweco® #4

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

### AutoLength Pin

<b>214-80</b>	Power Pin for 0.030" - 0.045"
<b>214-90</b>	Power Pin for 0.052" - 3/32"

## Tweco #5

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

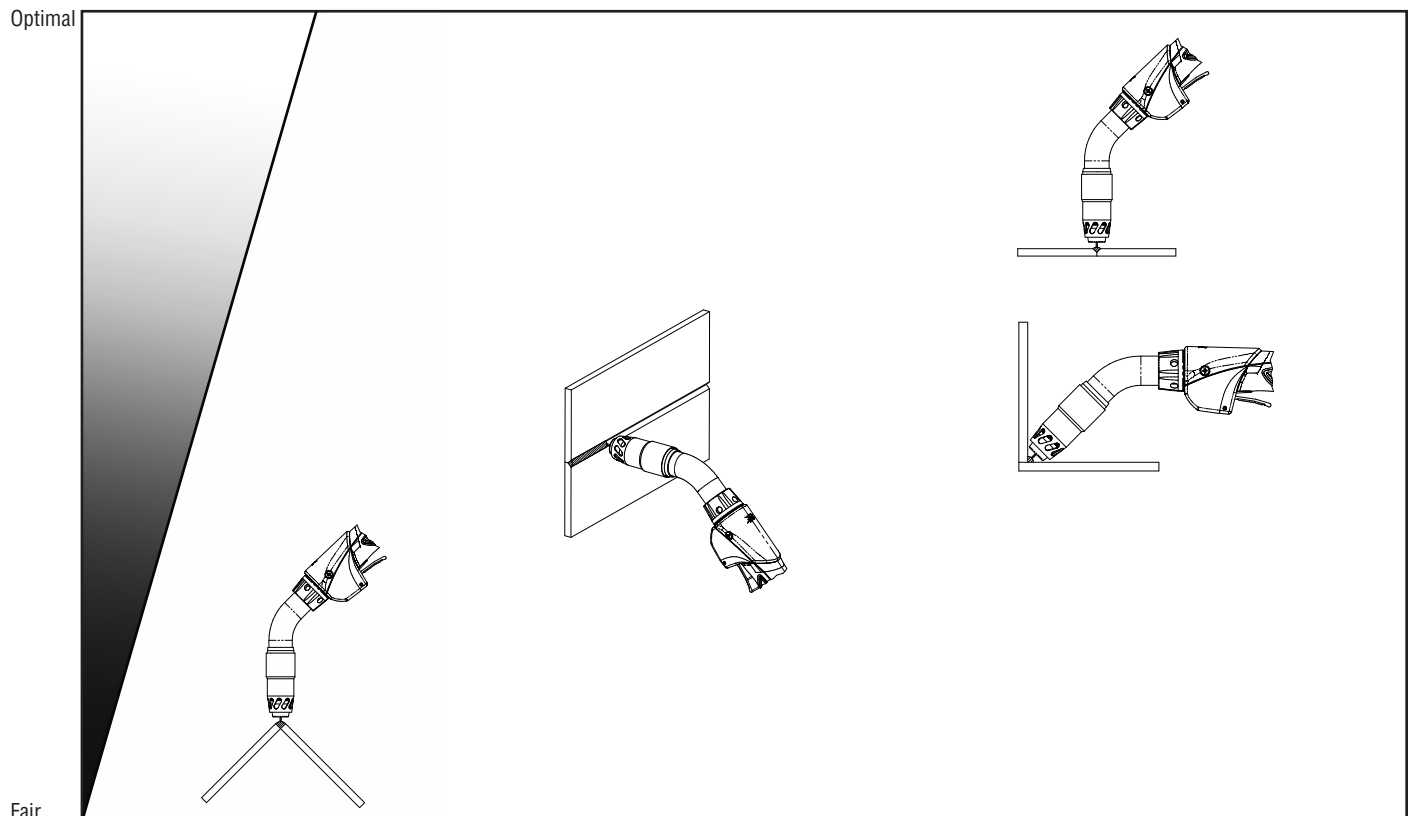
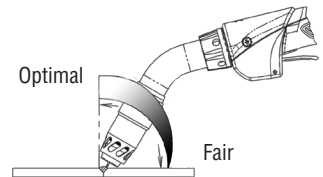
### AutoLength Pin

<b>214-81</b>	Power Pin for 0.030" - 0.045"
<b>214-91</b>	Power Pin for 0.052" - 3/32"

# 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.



# Ordering Information

Amperage	Cable Length	Handle & Trigger	Neck	Contact Tip	Wire Size	Power Pin	Liner
CL30	15	N	J	8	E	M	C
CL30 300 Amp Max. wire size 5/64"	08 ft. (2.44 m)	N Standard Trigger	J Fixed, Med., 45°	3 TOUGH LOCK™ Heavy Duty	A 0.023"(.6 mm)	B Bernard™	C Universal Conventional
CL40 400 Amp Max. wire size 5/64"	10 ft. (3.05 m)		K Fixed, Med., 60°	5 Quik Tip™	B 0.030"(.8 mm)	E Euro	L QUICK LOAD™ Liner AutoLength™ System**
CL50 500 Amp Max. wire size 3/32"	12 ft. (3.66 m)			8 Centerfire™	C 0.035"(.9 mm)	L Lincoln®	Q QUICK LOAD Liner *
CL60 600 Amp Max. wire size 1/8"	15 ft. (4.57 m)				D 0.039"(.1.0 mm)	M Miller®	
	20 ft. (6.16 m)				E 0.045"(.1.2 mm)	S Tweco® #4 (Lincoln Lead)	
	25 ft. (7.63 m)				H 0.052"(.1.4 mm)	T Tweco #4 (Std. Lead)	
					I 1/16"(.1.6 mm)	U Tweco #4 (NAS Plug)	
					K 5/64"(.2.0 mm)	W Tweco #5 (Std. Lead)	
					L 3/32"(.2.4 mm)		
					M 7/64"(.2.8 mm)		
					N 1/8"(.3.2 mm)		
					<b>Aluminum</b>		
					Q 0.035"(.9 mm)		
					R 3/64" (.1.19 mm)		
					S 1/16" (.1.6 mm)		

Brand and product names shown above are trademarks of their respective owners.

\*QUICK LOAD Liners are only compatible with wire sizes 0.023" - 3/32" and cable lengths up to 15' (4.57 m)

\*\*QUICK LOAD Liner AutoLength System Pin is only compatible with certain wire sizes 0.030"-3/32". Not Compatible with Bernard Power Pins.

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Tregaskiss™, TOUGH LOCK™ and QUICK LOAD™ are trademarks of Tregaskiss, a division of ITW Canada Inc.

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