

D/F MACHINE SPECIALTIES, INC.

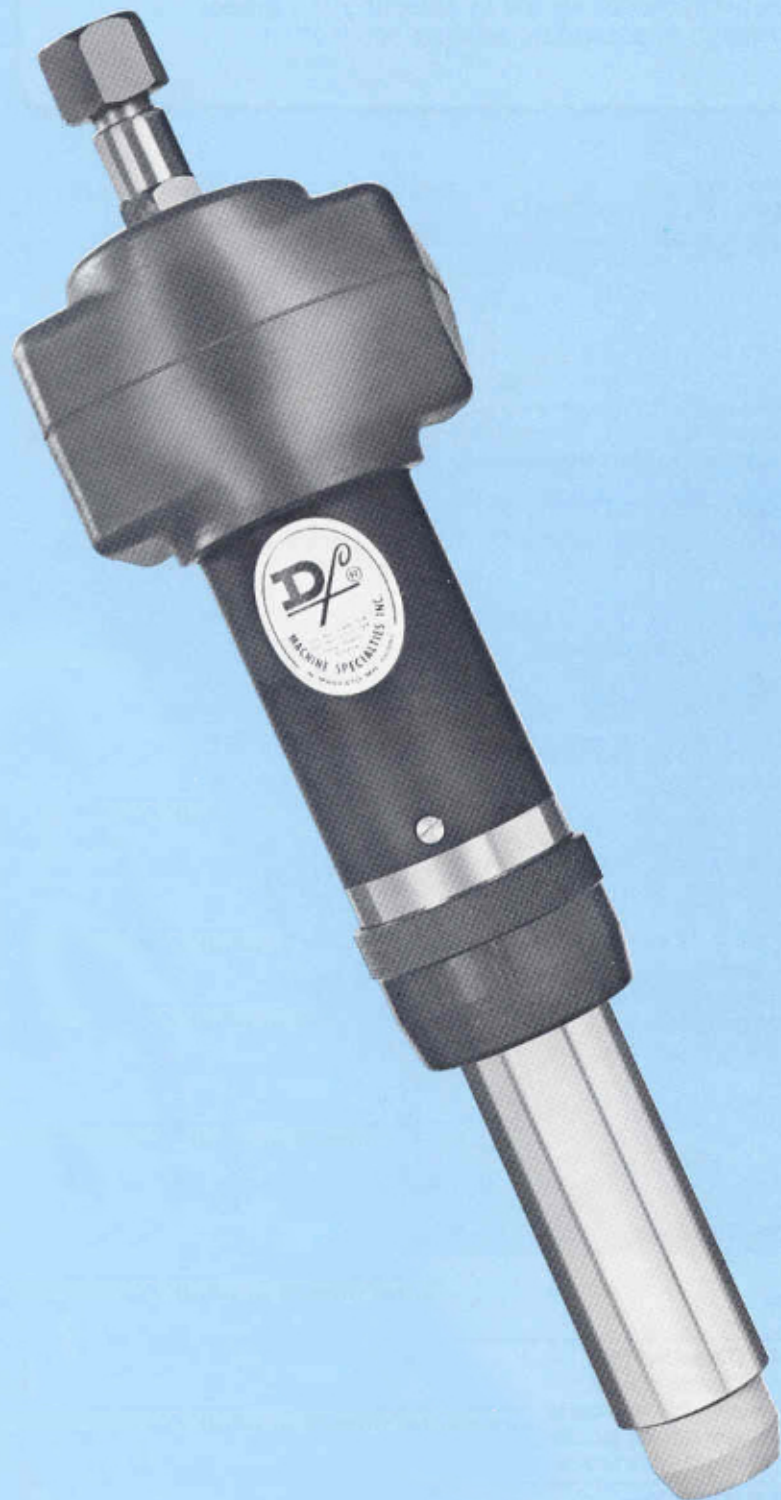
"MIG" AND "TIG" WELDING TOOLS

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**MECHANIZED
and
ROBOTIC
WELDING
PRODUCTS**

**MIG
&
TIG**



WATER COOLED ‘MIG’ GUNS—REMOTE MOUNT



The models HTC-E/NCC-E and (HTC/NCC—page 2) curved water cooled welding guns share similar design features except the HTC-E/NCC-E (external casing) use an axial alignment of the casing to reduce wire feed pressure and improve current tip life.

MODEL EXPLANATION

HTC-E—Heavy-duty, Threaded current tip, Curved gun, External casing

NCC-E—Normal duty, Collet action (slip-in current tip), Curved gun, External casing

SPECIFICATIONS

See page 2—HTC/NCC

ORDERING INFORMATION

Description	Code No. for Selection of Available Lengths		
	6 Ft.	7 Ft.	8 Ft.
MODEL HTC-E (Threaded Tip)			
Water Cooled Nozzle Option			
Short 3" Water Cooled Nozzle	15654	15657	15660
Inter. 4" Water Cooled Nozzle	15655	15658	15661
Long 5" Water Cooled Nozzle	15656	15659	15662
MODEL NCC-E (Slip-In Tip)			
Water Cooled Nozzle Option			
Short 3" Water Cooled Nozzle	15663	15666	15669
Inter. 4" Water Cooled Nozzle	15664	15667	15670
Long 5" Water Cooled Nozzle	15665	15668	15671

WATER COOLED "MIG" BARRELS—DIRECT MOUNT



The water cooled HTM/NCM series barrel is designed to be mounted directly. With optional accessories it may also be remotely mounted for automatic welding applications. The small physical size and unique features are identical to those of the HTM/NCM for remote mounting.

MODEL EXPLANATION

HTM—Heavy-duty, Threaded current tip, Machine barrel

NCM—Normal duty, Collet action (slip-in current tip), Machine barrel

HTM/NCM SERIES SPECIFICATIONS

Current Capacity

HTM Series 500 amp continuous duty

NCM Series 450 amp continuous duty

Barrel Dimensions

Overall length with 3" nozzle . . . 10.250"

4" nozzle . . . 11.250"

5" nozzle . . . 12.250"

Diameter of body housing 1.625"

Recommended Wire Diameter Range

HTM030"-.062" Hard

.035"-3/32" Cored

NCM030"-.062" Hard

.035"-3/32" Aluminum

Weight (approx.) 2.5 lbs.

Cooling Required . . . Min. 5 pints/minute

ORDERING INFORMATION

Description	Code No. for Selection of Available Lengths			
	3 Ft.	4 Ft.	5 Ft.	8 Ft.
MODEL HTM (Threaded Tip)				
Water Cooled Nozzle Option				
Short 3" Water Cooled Nozzle	17118	17121	17124	17133
Inter. 4" Water Cooled Nozzle	17119	17122	17125	17134
Long 5" Water Cooled Nozzle	17120	17123	17126	17135
MODEL NCM (Slip-in Tip)				
Water Cooled Nozzle Option				
Short 3" Water Cooled Nozzle	17100	17103	17106	17115
Inter. 4" Water Cooled Nozzle	17101	17104	17107	17116
Long 5" Water Cooled Nozzle	17102	17105	17108	17117

The HTM/NCM series A direct mounted barrels are for nonferrous and ferrous welding applications where a higher capacity nozzle is required. The optional one-piece nozzle assembly (11139) is desirable for aluminum welding applications. The standard (11138) threaded nozzle offers a range of sizes (11/16"-15/16") for flexible adaptation to many production applications.

MODEL EXPLANATION

HTM-A—Heavy-duty, Threaded current tip, Machine barrel, (A) high capacity nozzle

NCM-A—Normal duty, Collet action (slip-in current tip), Machine barrel, (A) high capacity nozzle

HTM/NCM A SPECIFICATIONS

Current Capacity

HTM A Series 600 amp cont. duty

NCM A Series 450 amp cont. duty

Barrel Dimensions

Overall length with 4" nozzle . . 11.250"

Diameter of body housing 1.625"

Recommended Wire Diameter Range

HTM A035"-7/64" Hard/Cored

NCM A030"-.062" Hard

3/64"-3/32" Aluminum

Weight (approx.)—w/o services . . 2.5 lbs.

Cooling Required . . Min. 3 quarts/minute

ORDERING INFORMATION

Description	Code No. for Selection of Available Lengths			
	3 Ft.	4 Ft.	5 Ft.	8 Ft.
MODEL NCM (Slip-in Tip)				
Series-A 3" W/C Nozzle 11142	17471	17472	17473	17476
Series-A 4" W/C Nozzle 11138	17492	17493	17494	17497
MODEL HTM (Threaded Tip)				
Series-A 3" W/C Nozzle 11142	17482	17483	17484	17487
Series-A 4" W/C Nozzle 11138	17503	17504	17505	17508



D_W WATER COOLED "BIG MIG" AND DIRECT MOUNT CURVED GUN



Model NCM 15

WATER COOLED MACHINE BARREL "HIGH CURRENT" MODEL NCM15 —SLIP-IN OR THREADED TIP

These high current "BIG MIG" water cooled machine barrels offer a design with interchangeability of models for mechanized gas metal arc welding.

The model NCM15 as provided will accommodate 4" and 6" current tips fastened by a collet action nut. The water cooled nozzle accepts threaded gas nozzles. This barrel is primarily for wire diameters from 1/16" through 1/8". The suggested current level with the threaded gas nozzles with the model NCM15 would be approximately 750 amperes. Maximum current capacity applicable to all models is 1000 amperes.

"BIG MIG" HIGH CURRENT (NCM) SPECIFICATIONS

Current Capacity . . . 1000 amp cont. duty	Weight (approx.) 11.8 lbs.
Barrel Dimensions—overall 16"	Cooling Required . . Min. 1 gallon/minute
Diameter of body housing 2.375"	
Recommended Wire Diameter Range	
NCM15062"-.125"	

ORDERING INFORMATION

Description	Code No. for Selection of Available Lengths			
	3 Ft.	4 Ft.	6 Ft.	8 Ft.
MODEL NCM15	11623	11624	11626	11628

"BIG MIG" CURRENT TIPS (Not shown)

Aluminum (Slip-in Tip)		
Wire Size	Code No.	Length
1/16"	10802	6"
3/32"	10803	6"
1/8"	10804	6"
5/32"	10805	6"
3/16"	10806	6"
7/32"	10807	6"
1/4"	10808	6"

Cored Wire (Slip-in Tip)		
Wire Size	Code No.	Length
1/16"	15181	4"
5/64"	15182	4"
3/32"	15183	4"
7/64"	15184	4"
1/8"	15185	4"
5/32"	15186	4"

The direct mounted curved gun is designed to be used on automatic applications where the wire drive system is mounted at the end of the robot wrist or mechanized fixture. Especially suited for feeding small diameter filler wires.

MODEL EXPLANATION

HTC—Heavy-duty, Threaded current tip, Curved gun
NCC—Normal duty, Collet action (slip-in current tip), Curved gun

HTC/NCC SERIES SPECIFICATIONS

Current Capacity	Gun Dimensions
HTC Series 500 amp continuous duty	Diameter of handle 1.500"
NCC Series 450 amp continuous duty	Nozzle to elbow clearance with
Gun Dimensions	3" nozzle (approx.) 6.250"
Overall length with 3" nozzle . . 15.000"	Recommended Wire Range . . .035"-3/32"
4" nozzle . . 15.500"	Weight (approx.)—w/o service . . 2.3 lbs.
5" nozzle . . 16.000"	Cooling Required . . . Min. 5 pints/minute
Gun Angle 55° curved elbow	

ORDERING INFORMATION

Description	Code No. for Selection of Available Lengths			
	3 Ft.	4 Ft.	7 Ft.	8 Ft.
MODEL HTC (Threaded Tip)				
Water Cooled Nozzle Option				
Short 3" Water Cooled Nozzle	17160	17163	11511	11514
Inter. 4" Water Cooled Nozzle	17161	17164	11512	11515
Long 5" Water Cooled Nozzle	17162	17165	11513	11516
MODEL NCC (Slip-in Tip)				
Water Cooled Nozzle Option				
Short 3" Water Cooled Nozzle	17139	17142	11518	11521
Inter. 4" Water Cooled Nozzle	17140	17143	11519	11522
Long 5" Water Cooled Nozzle	17141	17144	11520	11523



WATER COOLED CURVED "MIG" GUNS (DRY NOZZLE)



CTW/CCW SERIES FEATURES

- Dry type nozzle—water cooled inner body assembly
- Simplified maintenance
- Low replacement parts inventory
- Lightweight design
- Several intermediate nozzle configurations
- Furnished assembled with protective sheath

MODEL EXPLANATION

CTW—Curved, Threaded current tip, Water cooled (dry type nozzle)

CCW—Curved, Collet action (slip-in current tip), Water cooled (dry type nozzle)

CTW/CCW SPECIFICATIONS

Current Capacity	.....450 amp CO ₂.....350 amp Argon
Gun Dimensions	
Length	.....12.375"
Gun angle	.....55° curved body
Nozzle to body tube clearance	.....5.375"
Recommended Wire Diameter Range	
CTW	......030"-.062" Hard......045"-5/64" Cored
CCW	......030"-.062" Hard......045"-5/64" Cored
Weight	.....1.8 lbs.
Cooling Required	.....2 quarts/minute

ORDERING INFORMATION

Description	Code No. for Selection of Available Lengths			
	4 Ft.	6 Ft.	7 Ft.	8 Ft.
CTW/CCW With 13197 Nozzle Body	11597	11599	11600	11684

CW-T/CW-C series is available with three (3) nozzle body configurations for "MIG" welding. This series has the same features listed above. The 35° curved gun body accommodates wire .035" through 1/8" diameter. Gas nozzles and nozzle bodies are common to the CTW/CCW series.

MODEL EXPLANATION

CW-T—Curved gun, Water cooled (dry type nozzle), Threaded current tip

CW-C—Curved gun, Water cooled (dry type nozzle), Collet action (slip-in current tip)

CW-T/CW-C SPECIFICATIONS

Current Capacity	.....600 amp CO ₂.....450 amp Argon/Oxygen
Gun Dimensions	
Length	.....15.00"
Gun Angle	.....35° curved body
Nozzle to body tube clearance	.....5.250"
Recommended Wire Range Diameter	......045"-.062" Hard/Cored.....5/64"-7/64" Cored
Weight	.....1.9 lbs.
Cooling Required	.....2 quarts/minute

ORDERING INFORMATION

Description	Code No. for Selection of Available Lengths		
	6 Ft.	7 Ft.	8 Ft.
CW-T/CW-C With 13196 Nozzle Body	11681	11682	11683





AIR COOLED CURVED "MIG" GUNS

The rugged air cooled CTA/CCA series curved gun configurations come pre-assembled and ready to install. All models have the feature of individual replaceable service connections with a removable cable hose sheath to add to the durability and long life of these gun assemblies.

MODEL EXPLANATION

CTA—Curved, Threaded current tip, Air cooled

CCA—Curved, Collet action (slip-in current tip), Air cooled

CTA/CCA "400" SPECIFICATIONS

Current Capacity	400 amp CO ₂ 260 amp Argon
Gun Dimensions	
Length	13.125"
Gun angle	55° curved body
Nozzle to body tube clearance	5.375"
Recommended Wire Diameter Range	.030"-.062" Hard and Cored
Weight (approx.)	1.8 lbs.



ORDERING INFORMATION

Description	Code No. for Selection of Available Lengths			
	4 Ft.	5 Ft.	7 Ft.	8 Ft.
MODEL CTA Equipped with 13197 nozzle body	15527	15533	11555	11548
MODEL CCA Equipped with 13197 nozzle body	15524	15530	11547	11578

The heavy-duty model CA gun assembly is similar in design to the CTA series above and offers a low cost design with various features for application requirements.

MODEL EXPLANATION

CA-T—Curved gun, Air cooled, Threaded current tip

CA-T SPECIFICATIONS

Current Capacity	500 amp CO ₂ 350 amp Argon
Gun Dimensions	
Length	14.375"
Gun Angle	35° curved body
Nozzle to body tube clearance	5.500"
Recommended Wire Range Diameter	.035"-.062" Hard .045"-7/64" Cored
Weight	2.2 lbs.



ORDERING INFORMATION

Description	Code No. for Selection of Available Lengths			
	4 Ft.	5 Ft.	7 Ft.	8 Ft.
MODEL CA-T Equipped with 13196 nozzle body	15544	15545	15546	15547

WATER COOLED "TIG" BARRELS



The TM500 is intended for semi-automatic or automatic machine applications of the tungsten inert arc process. The barrel accommodates top load of tungsten with a tubular dual collet design providing clamping pressure at two points.

This water cooled "TIG" barrel has the unique feature of the nozzle assembly water passages being serially connected to the inner body water chamber by means of sliding removable connectors. This allows ease of maintenance and eliminates the use of "O" rings or gaskets in the water passage system.

MODEL EXPLANATION

TM500—"TIG", Machine barrel, 500 amp

TM500 "TIG" SPECIFICATIONS

Current Capacity . . . 500 amp cont. duty
Barrel Dimensions
Length (approx.) . . . 12.5"
Barrel diameter . . . 1.625"
Recommended Tungsten Electrode
Range040"-5/32"
Weight 2.5 lbs.
Cooling Required 5 pints/minute

ORDERING INFORMATION

Description	Code No. for Selection of Available Lengths			
	3 Ft.	4 Ft.	6 Ft.	8 Ft.
(Top Load Tungsten)				
TM503	15193			
TM504		15194		
TM506			15196	
TM508				15198

The TM500B "TIG" machine barrel incorporates the same design as previously described (TM500) but is a bottom load type barrel. Tungsten electrodes are fastened by a collet action nut.

MODEL EXPLANATION

TM500-B—"TIG", Machine barrel, (500-B) bottom load

TM500-B SPECIFICATIONS

Current Capacity . . . 500 amp cont. duty
Barrel Dimensions
Length (approx.) . . . 10.250"
Barrel diameter . . . 1.625"
Recommended Tungsten Electrode
Range040"-5/32"
Weight (less hoses) 2.5 lbs.
Cooling Required 5 pints/minute

ORDERING INFORMATION

Description	Code No. for Selection of Available Lengths			
	3 Ft.	4 Ft.	8 Ft.	10 Ft.
(Bottom Load Tungsten)				
TM503-B	15238			
TM504-B		15239		
TM508-B			15242	
TM510-B				15243

The "BIG TIG" high current machine barrel is recommended for mechanized welding applications where production demands the maximum durability and quality.

MODEL EXPLANATION

TM1000—"TIG", Machine barrel, 1000 amp

TM1000 "BIG TIG" SPECIFICATIONS

Current Capacity . . . 1000 amp cont. duty
Barrel Dimensions
Overall length 19"
Diameter of body housing . . . 2.375"
Recommended Tungsten Electrode
Range 1/8"-3/16"
Weight 11.8 lbs.
Cooling Required 1 gallon/minute

ORDERING INFORMATION

Description	Code No. for Selection of Available Lengths			
	3 Ft.	4 Ft.	8 Ft.	10 Ft.
MODEL "BIG TIG"				
TM1000-3	15203			
TM1000-4		15204		
TM1000-8			15208	
TM1000-10				15210

For "TIG" Accessories Reference

Instruction Manual
TM500 64TM
TM1000 63TM





MACHINE BARREL AND GUN ACCESSORIES



CURRENT TIPS—1/4" DIAMETER SLIP-IN

GUN OR BARREL MODEL	WIRE SIZE	WIRE TYPE	CODE NO.
ALL NCC, NCM	.030"	Hard	10787
	.035"	Hard	10788
	.045"	Hard	10789
	.052"	Hard	10830
	1/16"	Hard	10790
	3/64"	Aluminum	10781
	1/16"	Aluminum	10782
	3/32"	Aluminum	10783

CURRENT TIPS—5/16" DIAMETER SLIP-IN

GUN OR BARREL MODEL	WIRE SIZE	WIRE TYPE	CODE NO.
ALL NCC, NCM (Tip provides 1/8" set back)	.030"	Hard	10883
	.035"	Hard	10884
	.045"	Hard	10885
	.052"	Hard	10886
	1/16"	Hard	10887
	5/64"	Hard	10888
(Tip provides 3/8" set back)	3/32"	Hard	10889
	.035"	Cored	10893
	.045"	Cored	10894
	.052"	Cored	10895
	1/16"	Cored	10896
	5/64"	Cored	10897
(Tip provides 1/8" set back)	3/32"	Cored	10898
	7/64"	Cored	10899
	3/64"	Soft	10902
	1/16"	Soft	10903
	3/32"	Soft	10904

CURRENT TIPS—7/16" DIAMETER THREADED

GUN OR BARREL MODEL	WIRE SIZE	WIRE TYPE	CODE NO.
ALL HTC, HTM, CTW, CW-T, MTW (Tip provides 1/8" set back)	.035"	Hard SS	15116
	.045"	Hard SS	15117
	.052"	Hard SS	15121
	1/16"	Hard SS	15118
	5/64"	Hard SS	15119
	3/32"	Hard SS	15120
(Tip provides 3/8" set back)	.045"	Cored	15106
	1/16"	Cored	15107
	5/64"	Cored	15108
	3/32"	Cored	15109
(Tip provides 1/8" set back)	3/64"	Aluminum	15126
	1/16"	Aluminum	15125
	3/32"	Aluminum	15124
	1/8"	Aluminum	15123

CURRENT TIPS—5/16" DIAMETER THREADED

GUN OR BARREL MODEL	WIRE SIZE	WIRE TYPE	CODE NO.
ALL HTM, HTC, CTW, CW-T, MTW (Tip provides 1/8" set back)	.035"	Hard	10756
	.045"	Hard	10757
	.052"	Hard	10841
	1/16"	Hard	10759
	5/64"	Hard	10761
	3/32"	Hard	10763
ALL HTM, HTC (Tip provides 3/8" set back)	.045"	Cored	10750
	1/16"	Cored	10751
	5/64"	Cored	10752
	3/32"	Cored	10753
	7/64"	Cored	10754

CURRENT TIPS—2 1/2" SLIP-IN—1/4" DIAMETER

GUN MODEL	WIRE SIZE	WIRE TYPE	CODE NO.
ALL CCW, CW-C, MCW (Tip provides 1/8" set back)	.030"	Hard	10794
	.035"	Hard	10795
	.045"	Hard	10796
	.052"	Hard	10840
	1/16"	Hard	10797
(Tip provides 1/8" set back)	3/64"	Aluminum	10785
	1/16"	Aluminum	10786



WIRE FEEDER ADAPTERS AND WIRE INLETS

Manufacturer	Models	Wire Diameter	Remote Adapter			Direct Mount Adapter	
			Hard or Al	Cored	*Stub Liner	Hard or Al	Cored
Airco	AHF-T	.030"-.035" Hard	13031		16166	13032	
	AHF-N	.045"-1/16" Hard	13031		16167	13032	
	AHF-R1	3/64" Soft	13031		16654	13032	
	AFH-U1	1/16" Soft	13013		16655	13032	
	AHF-V1	3/32" Soft	13031		16656	13032	
	AHF-V6	5/64"-3/32" Cored		13029	16168		13028
	AHF-NP	7/64" Cored		13029	16169		13028
	AHF-N6						
Compak-O-Matic	480, 120, 125	.035"-.045" Hard	13486		16690	13485	
		.045"-1/16" Hard	13486		16691	13485	
		3/64" Soft	13486		16694	13485	
		1/16" Soft	13486		16695	13485	
		3/32" Soft	13486		16696	13485	
		5/64"-3/32" Cored		16612	16692		16611
		7/64" Cored		16612	16693		16611
	10, 25, 103-B 500		13481			13482	
	No. 75	.035" Hard	13482			13487	
		.045" Hard	13488			13488	
		1/16" Hard	13489			13489	
		3/64"-1/16"-3/32" Al	13490			13490	
		5/64"-3/32" Cored	13491				13491
		7/64" Cored	13492				13492
Hobart	All Models	.030"-.035" Hard	13067		16665	13068	
		.035"-.045" Hard	13067		16666	13068	
		.045"-1/16" Hard	13067		16667	13068	
		3/64" Soft	13067		16670	13068	
		1/16" Soft	13067		16671	13068	
		3/32" Soft	13067		16672	13068	
		(5/64"-7/64") Cored		16087	16668		16225
Lincoln	LN-7 LN-8	.035"-.045" Hard	13110		16698	13110	
		.045"-1/16" Hard	13110		16699	13110	
		3/64" thru 3/32" Al	13111			13111	
		5/64"-3/32" Cored		13112	16700		13112
Water Cooled Guns	LN-9 No Lug	.035"-.045" Hard	16581		16711	16528	
		.045"-1/16" Hard	16581		16712	16528	
		5/64"-3/32" Cored		16582	16713		16529
		7/64" Cored		16582	16714		16529
Air Cooled Guns	LN-9 Adapter with Lug	.035"-.045" Hard	16373		16703	16373	
		.045"-1/16" Hard	16373		16704	16373	
		5/64"-3/32" Cored		16527	16705		16527
		7/64" Cored		16527	16705		16527
Lincoln "Big Mig"	NA3/NA5	.045"-1/8" Hard				16886	
		.045"-1/8" Cored					16880
		5/64"-3/32" Cored, Al	16879	16879	16884		
		7/64"-1/8" Cored, Al	16879	16879	16885		
		.045"-1/8" Hard				16880	
		.045"-1/8" Cored					16881

Manufacturer	Models	Wire Diameter	Remote Adapter			Direct Mount Adapter	
			Hard or Al	Cored	*Stub Liner	Hard or Al	Cored
Linde	SWM31 SWM34 SWM37 SWM38 EH8	Casing to Feeder (Accepts Linde Outlet Guide)	13046			13046	
		D/F Insert					
		.035"-.045" Hard	13047			13047	
		.045"-1/16" Hard	13048			13048	
		5/64"-3/32" Cored		13049			13049
		3/64"-1/16" Al	13050			13050	
	SWM11 SWM113 SWM23 SWM25 EH35 EH10	.035"-.045" Hard	13043		16690	13060	
		.045"-1/16" Hard	13043		16691	13080	
		3/64" Soft	13043		16694	13080	
		1/16" Soft	13043		16695	13080	
		3/32" Soft	13043		16696	13080	
Linde "Big Mig"	EH-10	5/64"-3/32" Cored		13052	16692		13079
		7/64" Cored		13052	16693		13079
Miller	MHFC		13115			13115	
	10A 30A	.030"-.035" Hard	13120			13120	
		.035"-.045" Hard	13121			13121	
		.045"-1/16" Hard	13122			13122	
Miller ("50" Series)	S-52A S-52E S-54E S-52D S-54D D-52D	5/64"-3/32" Cored		13123			13123
		3/64"-3/32" Al	13124			13124	
		.030"-.035" Hard	16557		16673	16558	
		.035"-.045" Hard	16557		16674	16558	
		.045"-1/16" Hard	16557		16675	16558	
		3/64" Soft	16557		16679	16558	
		1/16" Soft	16557		16680	16558	
		3/32" Soft	16557		16681	16558	
		5/64"-3/32" Cored		16559	16676		16560
		7/64" Cored		16559	16677		16560
Westinghouse	SA2/SA605 SA625 SA-505-C SA205/SA225	.035" Hard	13003			13003	
		.045" Hard	13004			13004	
		1/16" Hard	13005			13005	
		3/64"-3/32" Cored	13006			13006	
		5/64"-3/32" Cored		13007			13007
		7/64" Cored		13008			13008

*Stub liners only required in feeder adapter when single piece casing is used.

FEEDER ADAPTER INLETS

Wire Size	Steel Code No.	Brass Code No.	Nylon Code No.
.030"	13801	16417	
.035"	13803	16418	
.045"	13806	16419	
.052"	13844	16420	
1/16"	13809	16421	
5/64"	13812	16422	
3/32"	13814	16422	
7/64"	13816		
1/8"	13842		
3/64" Al.			13807
1/16" Al.			13810
3/32" Al.			13815

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ORDERING INFORMATION

Each D/F gun/barrel is fully assembled and ready to install. In order to make the installation complete, the code number, wire size, make/model of wire feeder, and inlet as needed must be specified when ordering. If special welding tools or accessories other than those listed on pages 10-12 are required, please consult with the factory.

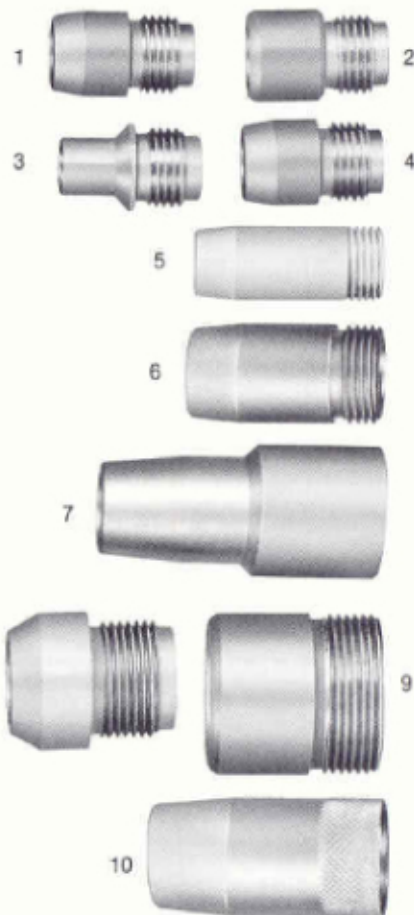
WARNING—DISCONNECT ALL POWER BEFORE SERVICING OR CHANGING ANY MACHINE BARREL OR GUN SYSTEM.

MACHINE BARREL AND GUN ACCESSORIES



GAS NOZZLES

Gun or Barrel Model	Ref.	Type Nozzle	O.D.	I.D.	Code No.
HTC/NCC, HTM/NCM	1	Copper—Tapered	15/16"	5/8"	10362
	2	Copper—Straight	1"	3/4"	10340
	3	Copper—Straight	5/8"	7/16"	10374
	4	Copper—Tapered	15/16"	17/32"	11941
CTW/CCW, CA-T	5	Brass	7/8"	5/8"	16380
		Brass	7/8"	35/64"	16379
	6	Brass—Tapered	1-1/16"	3/4"	10379
High Capacity Nozzle HTC/NCC, HTM/NCM	7	Copper—Tapered	1-3/8"	3/4"	10368
	8	Copper—Tapered	1-3/8"	11/16"	16749
		Copper—Tapered	1-3/8"	13/16"	16750
		Copper—Straight	1-3/8"	15/16"	16751
"BIG MIG" Group NCM15	9	Copper—Tapered	1-5/8"	1"	10387
		Copper—Tapered	1-5/8"	3/4"	10392
		Copper—Straight	1-5/8"	1-1/4"	10389



WATER AND AIR COOLED NOZZLE BODIES

Gun or Barrel Model	Ref.	Type Nozzle Body	Code No.
CTW/CCW, CTA/CCA, CW/CA	10	Normal Duty	13197
CTW/CCW, CTA/CCA, CW/CA	11	Medium Duty	13198
CA-T/CW-T	12	Heavy-duty	13196
CTW/CCW, CTA/CCA	13	Light Duty	16384



CASINGS

Description	3 Ft.	4 Ft.	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Casing Assembly (Flexible) Requires replacement liner below .030"-.035" (Select liner) .035"-.062" (Select liner)	14441 14445	14442 14446	12291 16173	12292 16561	12285 13565	12286 13751
Casing Assembly (Reinforced) Single Piece .035"-.045" Single Piece .045"-.062" Single Piece 5/64"-3/32" Single Piece 7/64"-1/8"	16736 15751 15730 15741	16737 15752 15731 15742	16739 15754 15733 15744	16740 15755 15734 15745	16741 16513 16514 16515	15988 12380 12441 12445
HTC-E Casings Casing Assembly (Flexible) Requires replacement liner below .035"-.062" (Select liner)	16778	16779	16781	16782	16783	15756
Casing Assembly (Reinforced) Single Piece .035"-.045" Single Piece .045"-.062" Single Piece 5/64"-3/32" Single Piece 7/64"-1/8"	16785 16792 16799 16806	16786 16793 16800 16807	16788 16795 16802 16809	16789 16796 16803 16810	16790 16797 16804 16811	15712 15746 15701 15704



LINERS

Description	Wire Size	3 Ft.	4 Ft.	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Wire Liner—Hard Wire	.030"	14130	14131	16818	16819	16820	12320
Wire Liner—Hard Wire	.035"-.045"	16444	16445	16447	16448	16449	16407
Wire Liner—Hard/Cored	.045"-.062"	16148	16149	16151	16152	16153	16119
Soft Liner for Aluminum	3/64"	14146	14148	16618	16619	12410	12411
Soft Liner for Aluminum	1/16"	14152	14154	14164	16620	12401	12402
Soft Liner for Aluminum	3/32"	14158	14160	14165	16769	16602	12406



D/F MACHINE SPECIALTIES, INC.

"MIG" AND "TIG" WELDING TOOLS

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With an original idea covering a design for a water cooled "MIG" welding gun, our Company has continued over the past 15 years to progress with various types of equipment to fill industry's needs to deal with the many diversified welding applications.

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Del Moerke, President

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