



Price List: FPESGWUS080122
Effective: August 1, 2022
Replaces: July 15, 2021
Revised: February 25, 2025

PRICE LIST



PE
Electrofusion
Systems
for Gas,
Municipal,
Industrial Waste
and Water
Applications



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Order Minimum \$100.00

Specific Terms of Sale

**Terms: Net 30 days / F.O.B. Pineville, N. C., USA
(Prepay and Add)**

Handling charges will be added to all rush orders, and special shipping requests.

Handling charges are at a rate of 30% of freight charge to a maximum of \$200.

Any claims of shortage or damages from shipment must be submitted in writing within 2 days after receipt of shipment.

Buyer shall note loss or damages on truck shipments by providing a delivery receipt signed by the driver.

Description	Dimension inches	Product Code	Std Pkg	Unit Price
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Electrofusion Processors (Genesis software download available at no charge at ipexna.com)

Friamat 6 Electrofusion Processor (110v)	628000	1	\$ 5,294.00
Workflow License – Up to 25 Users	728001	-	\$ 3,529.50
Workflow License – Up to 50 Users	728002	-	\$ 5,647.00
Workflow License – Up to 100 Users	728003	-	\$ 9,035.00
Workflow License – Up to 200 Users	728004	-	\$ 11,763.50
Genesis F3 Processor / Pen Scanner (120 V)	328221	1	\$ 4,200.00
Genesis F3 Processor / Smart Scan (120 V)	328222	1	\$ 4,375.00
Genesis F3 Processor / Smart Scan + GPS (120 V)	328223	1	\$ 4,475.00
Genesis F3 Processor / Pen Scanner (240 V)	328251	1	\$ 4,475.00
Genesis F3 Processor / Smart Scan (240 V)	328250	1	\$ 4,650.00
Genesis F3 Processor / Smart Scan + GPS (240 v)	328249	1	\$ 4,750.00
Genesis F3 Processor / Pen Scanner w/ Bluetooth (120 V)	328276	1	\$ 4,200.00
Genesis F3 Processor / Smart Scan w/ Bluetooth (120 V)	328277	1	\$ 4,375.00
Genesis F3 Processor / Smart Scan w/ Bluetooth + GPS (120 V)	328278	1	\$ 4,475.00
Genesis F3 Processor / Pen Scanner w/Bluetooth (240 V)	328280	1	\$ 4,475.00
Genesis F3 Processor / Smart Scan w/ Bluetooth (240 V)	328281	1	\$ 4,650.00
Genesis F3 Processor / Smart Scan w/ Bluetooth + GPS (240 v)	328282	1	\$ 4,750.00


Included Accessories:

Accessory bag (x1)	328229
Genesis F3 Manual, English (x1)	-
Instructional Video, Genesis F3 (x1) thumb drive	-
Fittings Adapter 90 Deg, 4.0mm (x2) (white adapter)	328231
Fittings Adapter 90 Deg, 4.7mm (x1) (black adapter)	328232
Fittings Adapter 90 Deg, 4.7mm (x1) (black adapter with Red ID pin)	328233
Information Card, Genesis F3 (x1)	328234
5/16" Adapter Wrench (x1)	328248

Genesis F3 Replacement Parts

	Pen Scanner, Threaded Connector	328224	1	\$ 290.00
	SMART Scanner, Genesis F3	328225	1	\$ 450.00
	SMART Scanner with GPS, Genesis F3	328226	1	\$ 550.00
	Display Shield (4 screws not included)	328230	1	\$ 20.00
	Fittings Adapter 90 Deg, 4.0mm (white adapter)	328231	1	\$ 21.25
	Fittings Adapter 90 Deg, 4.7mm (black adapter)	328232	1	\$ 21.25
	Fittings Adapter 90 Deg, 4.7mm (black adapter with red ID pin)	328233	1	\$ 33.25
	Fittings Adapter Universal accomodates both 4.0mm & 4.7mm	328269	1	\$ 41.18
	Smart Scan Holster	328227	1	\$ 25.00
	Barcode Pen Holster	328228	1	\$ 18.00
	Accessory Bag	328229	1	\$ 18.00
	Genesis F3 Information Card	328234	1	\$ 7.25
	Fuse, 2 Amp 250 Volt Slow-Blow, 5 x 20mm	328235	1	\$ 3.50
	Replacement Case	328247	1	\$ 465.00
	5/16" Adapter Wrench	328248	1	\$ 5.00

Friamat I and II Accessories


	Replacement Friamat 6 110V Electrofusion Case	628002	1	\$ 647.00
	Marinco Adapter - Plug 30A. To 15A.	328000	1	\$ 74.39
	Frialen® Silver Pipe Markers	328002	1	\$ 10.41
	* UPONOR® New Style Central Connectors - (Pair) 4.7mm	328015	1	\$ 74.39
	* Central Connectors - (Pair) 3.2mm	328016	1	\$ 74.39
	Pen Scanner - Replacement	328063	1	\$ 383.37
	* Alum. Fusion Processor Carrying Case	328143	1	\$ 339.28
	* Plastic Fusion Processor Carrying Case	291158	1	\$ 446.49
	* Fusion Lead End 4.0mm (Pair)	328119	1	\$ 111.67

** For Friamat I & II Processors Only

Description	Dimension inches	Product Code	Std Pkg	Unit Price
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Couplings Metric sized (special order only, 4-6 weeks lead time)

	20mm	128147	1/Box	P.O.R.
	32mm	128179	1/Box	P.O.R.
	63mm	128149	1/Box	P.O.R.
	75mm	128150	1/Box	P.O.R.
	110mm	128151	1/Box	P.O.R.
	140mm	128195	1/Box	\$ 96.66
	Note: 5" IPS - 5.563 O.D. Pipe only			
	125mm	128152	1/Box	P.O.R.
	160mm	128153	1/Box	P.O.R.
	180mm	128144	1/Box	P.O.R.
	200mm	128145	1/Box	P.O.R.
	225mm	128181	1/Box	P.O.R.
	250mm	128146	1/Box	P.O.R.
	280mm	128154	1/Box	P.O.R.
	315mm	128143	1/Box	P.O.R.
	400mm	128155	1/Box	P.O.R.
	450mm	128199	1/Box	P.O.R.
	500mm	128156	1/Box	P.O.R.
	560mm	-	1/Box	P.O.R.
	630mm	128157	1/Box	P.O.R.
	710mm	-	1/Box	P.O.R.



Friastop EFV Couplings (Excess Flow Valve) Note: Electrofusion fittings meet all ASTM F1055 & D2513 requirements for electrofusion fittings.

	1" CTS X 1/2" EFV	128240	40/Box	\$ 69.53
	3/4" EFV	128237	60/Box	\$ 63.83
	1" CTS EFV	128238	30/Box	\$ 68.12
	1" IPS EFV	128239	30/Box	\$ 66.34
	1 1/4" IPS EFV	128241	20/Box	\$ 105.40
	2" IPS EFV	128257	16/Box	\$ 163.86

Description	Dimension inches	Product Code	Std Pkg	Unit Price
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CTS Couplings / FRIALEN

Note: Electrofusion fittings meet all ASTM F1055 & D2513 requirements for electrofusion fittings.



1/2" CTS	128031	80/Box	\$	9.84
1" CTS	128027	30/Box	\$	11.42

Note: Use FWSG 63 Scraper



Couplings IPS

Note: Electrofusion fittings meet all ASTM F1055 & D2513 requirements for electrofusion fittings.




3/4" IPS	SDR11	128026	60/Box	\$	10.55
Note: Use FWSG 63 Scraper or FWZ hand scraper					
1" IPS	SDR11	128024	30/Box	\$	11.42
Note: Use FWSG 63 or FWZ hand scraper					
1 1/4" IPS	SDR11	128025	20/Box	\$	13.18
Note: Use FWSG 63 Scraper or FWZ hand scraper					
1 1/2" IPS	SDR11	128033	15/Box	\$	14.95
Note: Use FWSG 63 Scraper or FWZ hand scraper					
2" IPS	SDR11	128028	8/Box	\$	15.65
Note: Use FWSG 63 Scraper, FWSG-SE 2" scraper or FWZ hand scraper					
3" IPS	SDR11	128029	30/Box	\$	34.28
Note: Use FWSG 315/400 Scraper, FWSG-SE 3" scraper or FWZ hand scraper					
4" IPS	SDR11	128030	24/Box	\$	50.10
Note: Use FWSG 315/400 Scraper, FWSG-SE 4" scraper or FWZ hand scraper					
* 5" IPS	SDR11	128195	1/Box	\$	96.66
Note: Use FWSG 315/400/630/710 Scraper or FWZ hand scraper d 140mm fit 5.563 O.D.					
6" IPS	SDR11	128032	8/Box	\$	126.54
Note: Use FWSG 315/400/630/710 Scraper or FWZ hand scraper					
8" IPS	SDR11	128060	36/Box	\$	184.55
Note: Use FWSG 315/400/630/710 Scraper or FWZ hand scraper					
* 8" IPS BIF	SDR11	128023	36/Box	\$	184.55
Note: Use FWSG 315/400/630/710 Scraper or FWZ hand scraper					
10" IPS	SDR11	128061	18/Box	\$	316.37
Note: Use FWSG 315/400/630/710 Scraper or FWZ hand scraper					
12" IPS	SDR11	128062	18/Box	\$	544.87
Note: Use FWSG 315/400/630/710 Scraper or FWZ hand scraper					
14" IPS	SDR11	128064	12/Box	\$	597.59
Note: Use FWSG 315/400/630/710 Scraper or FWZ hand scraper					
** 16" IPS	SDR11	128063	1/Box	\$	738.20
Note: Use FWSG 630/710 Scraper or FWZ hand scraper					
** 18" IPS	SDR11	128065	1/Box	\$	1,001.85
Note: Use FWSG 630/710 Scraper or FWZ hand scraper					
** 20" IPS	SDR11	128176	1/Box	\$	1,098.51
** 22" IPS	SDR17	128066	1/Box	\$	1,362.14
** 24" IPS	SDR13.5	128067	1/Box	\$	1,748.82
Note: Use FWSG 630/710 Scraper or FWZ hand scraper					
** 28" IPS	SDR17	128068	1/Box	\$	4,130.39
Note: Will not be shipped without Re-Round tool. Use FWSG 710 Scraper or FWZ hand scraper					
** 30" IPS	SDR11	228451	1/Box	\$	7,788.28
Note: Will not be shipped without Re-Round tool. Use FWSG 710 Scraper or FWZ hand scraper					

**Note: Special Training
Required for sizes
16" and above.


* Not standard stocking item.

Description	Dimension inches	Product Code	Std Pkg	Unit Price
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Couplings DIP

	6" DIP SDR11	128134	80/Box	\$ 178.41
	Note: Use FWSG 315/400/630/710 Scraper or FWZ hand scraper			
	8" DIP SDR11	128131	36/Box	\$ 257.49
	Note: Use FWSG 315/400/630/710 Scraper or FWZ hand scraper			
	10" DIP SDR11	128136	18/Box	\$ 355.04
	Note: Use FWSG 315/400/630/710 Scraper or FWZ hand scraper			
	12" DIP SDR11	128132	18/Box	\$ 653.83
	Note: Use FWSG 400/630/710 Scraper or FWZ hand scraper			
	14" DIP SDR11	128158	12/Box	\$ 915.28
	Note: Use FWSG 400/630/710 Scraper or FWZ hand scraper			
	16" DIP SDR11	128135	1/Box	\$ 1,176.73
	** Note: Special Training Required			
	18" DIP SDR13.5	128138	1/Box	\$ 1,374.88
	Note: Use FWSG 630/710 Scraper or FWZ hand scraper			
	20" DIP SDR13.5	128133	1/Box	\$ 1,573.05
	Note: Use FWSG 630/710 Scraper or FWZ hand scraper			
	24" DIP SDR11	128207	1/Box	\$ 2,779.17
	** Note: Use FWSG 630/710 Scraper or FWZ hand scraper			


Alignment Clamps IPS/DIP Single

	1 1/4" IPS	228244	1	\$ 532.93
	2" IPS	228137	1	\$ 596.00
	3" IPS	228248	1	\$ 735.00
	4" IPS	228138	1	\$ 902.00
	6" IPS	228139	1	\$ 1,760.00
	6" DIP	228264	1	POR
	8" IPS	228246	1	\$ 2,722.00


Alignment Clamps IPS/DIP Double





	1 1/4" IPS	228245	1	\$ 1,053.21
	2" IPS	228140	1	\$ 1,192.00
	3" IPS	228249	1	\$ 1,470.00
	4" IPS	228141	1	\$ 1,804.00
	6" IPS	228142	1	\$ 3,520.00
	8" IPS	228247	1	\$ 5,444.00











Hy-Ram Alignment Clamp

	1/2 - 2" Single Angled	228368	1	\$ 601.00
	1/2 - 2" Double Angled	228369	1	\$ 750.00
	2 - 6" Single Angled	228370	1	\$ 1,121.00
	2 - 6" Double Angled	228371	1	\$ 1,785.00
	2 - 6" Single Tee ADPT	228372	1	\$ 1,102.00
	3 - 8" Single Straight	228373	1	\$ 1,123.00

Hydraulic Re-Rounding Clamps IPS (special order, 8-13 weeks lead time)

	12" IPS Re-Round Insert	228157	1	P.O.R.
	14" IPS Master Re-Round Clamp	228152	1	P.O.R.
	16" IPS Re-Round Insert	228158	1	P.O.R.
	18" IPS Master Re-Round Clamp	228154	1	P.O.R.
	20" IPS Master Re-Round Clamp	228161	1	P.O.R.
	d 630mm Large Master Re-Round Clamp, 22" - 24"	228156	1	P.O.R.
	24" IPS Re-Round Insert	228160	1	P.O.R.
	22" IPS Re-Round Insert	228159	1	P.O.R.
	28" IPS Master Re-Round Clamp	228217	1	P.O.R.

Description	Dimension inches	Product Code	Std Pkg	Unit Price
Hydraulic Re-Rounding Clamps DIP (special order, 8-13 weeks lead time)				
	8" DIP Re-Round Insert	228162	1	P.O.R.
	8" DIP Master Re-Round Insert	228151	1	P.O.R.
	12" DIP Master Re-Round Clamp	228153	1	P.O.R.
	12" DIP Re-Round Insert	228163	1	P.O.R.
	16" DIP Master Re-Round Clamp	228155	1	P.O.R.
	16" DIP Re-Round Insert	228164	1	P.O.R.
	18" DIP Master Re-Round Clamp	228161	1	P.O.R.
Note: 20" IPS Master				
Re-Rounding Tools				
	10" IPS/DIP - 16" IPS/DIP	128258	1	\$ 2,075.00
	18" IPS/DIP - 26" IPS/DIP	228359	1	\$ 2,150.00
	28" IPS/DIP - 36" IPS/DIP	228338	1	\$ 2,934.78
Scraper Tools				
	FWZ Hand Scraper	328018	Each	\$ 22.79
	FWSG 63 Scraper Tool (1/2" IPS - 2" IPS) with case	128255	1/Box	\$ 992.25
	FWSG 400 Scraper Tool (3" IPS - 14" IPS & 4" DIP - 14" DIP) with case	128259	1/Box	\$ 2,096.47
	FWSG 710 Scraper Tool (6" IPS - 28" IPS & 6" DIP-24" DIP) with case	128190	1/Box	\$ 2,615.75
FWSG-SE Scraper Tools				
	2" Scraper Tool FWSG-SE IPS with case	128223	1	\$ 799.47
	3" Scraper Tool FWSG-SE IPS with case	128222	1	\$ 860.46
	4" Scraper Tool FWSG-SE IPS with case	128217	1	\$ 882.35
	6" Scraper Tool FWSG-SE IPS with case	128218	1	\$ 1,049.80
	8" Scraper Tool FWSG-SE IPS with case	128219	1	\$ 1,113.09
	12" Scraper Tool FWSG-SE IPS with case	128220	1	\$ 1,290.45
Scraper Tool Accessories				
	Spare Blades For FWZ Hand Scraper	328017	5/Pack	\$ 14.71
	Note: Set of 5			
	Spare Blade Kit (FWSGE 4) For Old Version FWSG 63	128041	3/Pack	\$ 279.30
	Kit Contains: 3 Blades, 2 Screws & Driver			
	Spare Blade Kit (FWSGE 3) For FWSG 315	128040	3/Pack	\$ 279.30
	Kit Contains: 3 Blades, 2 Screws & Driver			
	Spare Blade Kit (FWSGE 5) For FWSG 630/710	128042	3/Pack	\$ 279.30
	Kit Contains: 3 Blades, 2 Screws & Driver			
	Alum. Carrying Case For FWSG 630-710 Scraper Tool	128198	1	\$ 279.30
	Alum. Carrying Case For FWSG 63-315 Scraper Tool	128035	1	\$ 154.33
	Spare Blade Kit (FWSGE 8) For FWSGE SE Series (double sided blade)	128221	1	\$ 179.68
	Spare Blade Kit (FWSGE 14) For FWSG 400 (double sided blade)	128260	1	\$ 279.30
	Spare Blade Kit (FWSGE 15) For New Style FWSG 63 (double sided blade)	128256	20	\$ 243.33


Description	Dimension inches Main Size x Outlet Size	Product Code	Std Pkg	Unit Price	
 DAA High Pressure Tapping Tee IPS					
	2" IPS x 1/2" CTS with Undersaddle Note: Use 228051 (17mm Hex Wrench)	228042	16/Box	\$	50.97
	2" IPS x 3/4" IPS with Undersaddle Note: Use 228051 (17mm Hex Wrench)	228029	16/Box	\$	50.97
	2" IPS x 1" CTS with Undersaddle Note: Use 228051 (17mm Hex Wrench)	228033	16/Box	\$	50.97
	2" IPS x 1" IPS with Undersaddle Note: Use 228051 (17mm Hex Wrench)	228032	16/Box	\$	69.98
	2" IPS x 2" IPS with Undersaddle Note: Use 228052 (19mm hex wrench)	228274	1/Each	\$	113.25
	3" IPS x 1/2" CTS with Undersaddle Note: Use 228052 (19mm hex wrench)	228043	16/Box	\$	78.49
	3" IPS x 3/4" IPS with Undersaddle Note: Use 228052 (19mm hex wrench)	228030	16/Box	\$	78.49
	3" IPS x 1" CTS with Undersaddle Note: Use 228052 (19mm hex wrench)	228031	16/Box	\$	78.49
	3" IPS x 1" IPS with Undersaddle Note: Use 228052 (19mm hex wrench)	228044	16/Box	\$	78.49
	3" IPS x 2" IPS with Undersaddle Note: Use 228052 (19mm hex wrench)	228028	12/Box	\$	119.51
	4" IPS x 1/2" CTS with Undersaddle Note: Use 228052 (19mm hex wrench)	228045	16/Box	\$	80.05
	4" IPS x 3/4" IPS with Undersaddle Note: Use 228052 (19mm hex wrench)	228034	10/Box	\$	80.05
	4" IPS x 1" CTS with Undersaddle Note: Use 228052 (19mm hex wrench)	228035	10/Box	\$	80.05
	4" IPS x 1" IPS with Undersaddle Note: Use 228052 (19mm hex wrench)	228046	10/Box	\$	80.05
	4" IPS x 2" IPS with Undersaddle Note: Use 228052 (19mm hex wrench)	228025	6/Box	\$	128.32
	6" IPS x 1/2" CTS with Undersaddle Note: Use 228052 (19mm hex wrench)	228047	6/Box	\$	108.65
	6" IPS x 3/4" IPS with Undersaddle Note: Use 228052 (19mm hex wrench)	228036	6/Box	\$	108.65
	6" IPS x 1" CTS with Undersaddle Note: Use 228052 (19mm hex wrench)	228038	6/Box	\$	108.65
	6" IPS x 1" IPS with Undersaddle Note: Use 228052 (19mm hex wrench)	228049	6/Box	\$	108.65
	6" IPS x 2" IPS with Undersaddle Note: Use 228052 (19mm hex wrench)	228027	6/Box	\$	164.27
	8" IPS x 1/2" CTS with Undersaddle Note: Use 228052 (19mm hex wrench)	228048	5/Box	\$	175.76
	8" IPS x 3/4" IPS with Undersaddle Note: Use 228052 (19mm hex wrench)	228037	5/Box	\$	175.76
	8" IPS x 1" CTS with Undersaddle Note: Use 228052 (19mm hex wrench)	228041	5/Box	\$	175.76
	8" IPS x 1" IPS with Undersaddle Note: Use 228052 (19mm hex wrench)	228040	5/Box	\$	175.76
	8" IPS x 2" IPS with Undersaddle Note: Use 228052 (19mm hex wrench)	228039	5/Box	\$	175.76

Note: When ordering IPS sizes for gas applications, please advise Customer Service.

Cap Sizes & part numbers are: 32mm (228280); 40 mm (228281), 50 mm (228282)

Description	Dimension inches	Product Code	Std Pkg	Unit Price
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EFS™ Electrofusion Tapping Tees GAS SERVICE APPLICATIONS ONLY


 <p>1-1/4" and 2" main sizes plastic under saddle</p>	1-1/4 IPS x 1/2 CTS	528000	25	\$	22.87
	1-1/4 IPS x 3/4 IPS	528001	25	\$	22.87
	1-1/4 IPS x 1 CTS	528002	25	\$	22.87
	1-1/4 IPS x 1 IPS	528003	25	\$	22.87
	2 IPS x 1/2 CTS	528004	25	\$	28.36
	2 IPS x 3/4 IPS	528005	25	\$	28.36
	2 IPS x 1 CTS	528006	25	\$	28.36
	2 IPS x 1 IPS	528007	25	\$	28.36
	2 IPS x 1 1/4 IPS	528009	15	\$	118.15
<p>3"-8" main sizes nylon strap undersaddle.</p>	3 IPS x 1/2 CTS	528011	20	\$	40.17
	3 IPS x 3/4 IPS	528012	20	\$	40.17
	3 IPS x 1 CTS	528013	20	\$	40.17
	3 IPS x 1 1/4 CTS	528015	15	\$	118.15
	3 IPS x 1 1/4 IPS	528016	15	\$	118.15
	4 IPS x 1/2 CTS	528018	20	\$	40.17
	4 IPS x 3/4 IPS	528019	20	\$	40.17
	4 IPS x 1 CTS	528020	20	\$	40.17
	4 IPS x 1 IPS	528021	20	\$	40.17
	4 IPS x 1 1/4 CTS	528022	15	\$	151.23
	4 IPS x 1 1/4 IPS	528023	15	\$	151.23
	6 IPS x 1/2 CTS	528025	20	\$	40.17
	6 IPS x 3/4 IPS	528026	20	\$	40.17
	6 IPS x 1 CTS	528027	20	\$	40.17
	6 IPS x 1 IPS	528028	20	\$	40.17
	6 IPS x 1 1/4 CTS	528029	15	\$	151.23
	6 IPS x 1 1/4 IPS	528030	15	\$	151.23
	8 IPS x 1/2 CTS	528032	20	\$	40.17
	8 IPS x 3/4 IPS	528033	20	\$	40.17
	8 IPS x 1 CTS	528034	20	\$	40.17
	8 IPS x 1 IPS	528041	20	\$	40.17
	8 IPS x 1 1/4 CTS	528035	15	\$	184.32
	8 IPS x 1 1/4 IPS	528036	15	\$	184.32
	All Ipx Tap Tees are made from PE 4710				





EFS™ Accessories

Low Volume Pressure Test Cap (Outlet sizes 1/2" to 1")	528039	1	\$	59.08
Medium Volume Pressure Test Cap (Outlet sizes 1 1/4")	528040	1	\$	59.08
Tapping Tool	528038	1	\$	37.80



Electrofusion Reducers


	1" CTS X 1/2" CTS Frialen E.F. Reducer	128203	40	\$	21.57
	1" IPS X 1/2" CTS Frialen E.F. Reducer	128204	40	\$	21.57
	2" IPS X 1" CTS Frialen E.F. Reducer	128205	10	\$	23.46

Description	Dimension inches	Product Code	Std Pkg	Unit Price
DAA High Pressure Tapping Tee DIP				
	4" DIP x 1" CTS with Undersaddle Note: Use 228052 Hex Wrench	228250	16/Box	\$ 81.32
	4" DIP x 2" IPS with Undersaddle Note: Use 228052 Hex Wrench	228253	10/Box	\$ 135.57
	8" DIP x 1" CTS with Undersaddle Note: Use 228052 Hex Wrench	228260	5/Box	\$ 175.76
	8" DIP x 2" IPS with Undersaddle Note: Use 228052 Hex Wrench	228261	5/Box	\$ 175.76
DAA Top Loading High Pressure Tapping Tee DIP/IPS				
	10" - 16" IPS/DIP x 2" IPS (Extended Cutter) Note: Requires 228053 Friatop Pneumatic Top-Loading Tool For use with 16" SDR 11 main. Use 228052 (19mm Hex Wrench)	128246	5/Box	\$ 301.63
	10" - 16" IPS/DIP x 2" IPS (12" & Larger DR Restr.) Note: Requires 228053 Friatop Pneumatic Top-Loading Tool See catalog for exclusions. Use 228052 (19mm Hex Wrench)	228056	5/Box	\$ 274.46
	10" - 16" IPS/DIP x 3/4" IPS Note: Requires 228053 Friatop Pneumatic Top-Loading Tool See catalog for exclusions. Use 228052 (19mm Hex Wrench)	228324	1/Each	\$ 477.20
DAA Accessories				
 <p>17mm wrench for 2" main, 1/2" - 1" IPS/CTS outlets.</p> <p>19mm wrench for 2" x 2" through 16" mains.</p> 	10mm Hex Wrench For 1 1/4" Main DAA Tees	228050	1/Each	\$ 33.97
	17mm Hex Wrench For 2" X 1/2" - 1" IPS & CTS Outlet Sizes	228051	1/Each	\$ 34.78
	19mm Hex Wrench For 2" X 2" and 3 - 16" Main DAA Tees	228052	1/Each	\$ 35.60
	Friatop Pneumatic Top Loading Tool Note: For 10" - 16" DAA-TL Tee & All TL Fittings	228053	1/Each	\$ 2,235.87
	Pressure Test Cap Adapter (Optional) Note: For DAA Style 1 1/4" Tees	228024	1/Each	\$ 53.16
	Pressure Test Cap Adapter (Optional) Note: For DAA Style 2" - 16" Tees	228055	1/Each	\$ 64.98
	2" IPS x 1/2" CTS Training Tee	228356	16	\$ 16.54
	2" IPS x 3/4" IPS Training Tee	228357	16	\$ 16.54
	Plug cap with O-ring, 1-1/4 DAA	228332	1	\$ 5.43
	Plug cap with O-ring, 2" DAA for 1/2" cts -1" cts/ips	228333	1	\$ 5.43
	Plug cap with O-ring, 2" x 2" through 16"DAA	228334	1	\$ 5.43
	Replacement bladder for Friatop	228148	1	\$ 74.44

Description	Dimension inches	Product Code	Std Pkg	Unit Price
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Repair Clamps Undersaddle

	3" IPS	228175	24/Box	\$ 131.14
	4" IPS	228176	16/Box	\$ 131.14
	4" DIP	228295	1/Box	\$ 133.91
	6" IPS	228177	10/Box	\$ 155.96




Repair Patches Top Loading

	8" IPS Note: Requires 228053 Friatop Pneumatic Top-Loading Tool Restriction on 28"	228178	10/Box	\$ 269.38
	10" - 22" IPS & 8" - 20" DIP Note: Requires 228053 Friatop Pneumatic Top-Loading Tool Restriction on 28"	228179	10/Box	\$ 344.99




Accessories

	Friatop Pneumatic Top Loading Tool	228053	1	\$ 2,235.87
	12mm PE Repair Plug	228133	1	\$ 16.52
	18mm PE repair Plug	228134	1	\$ 15.29
	24mm PE Repair Plug	228135	1	\$ 14.41
	44mm PE Repair Plug	228136	1	\$ 21.45
	Replacement bladder for Friatop	228148	1	\$ 74.44
	VSC Adapter for Friatop Pneumatic Top Loading Tool	228223	1	\$ 21.58

Description	Dimension inches Main Size x Outlet Size	Product Code	Std Pkg	Unit Price
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SA Branch Saddles

	* 3" IPS x 2" IPS	228184	20/Box	\$ 87.89
	* 4" IPS x 2" IPS	228185	12/Box	\$ 96.66
	* 4" DIP x 2" IPS	228296	1/Box	\$ 122.76
	* 6" IPS x 3" IPS	228180	2/Box	\$ 521.95
	* 6" IPS x 4" IPS	228277	1/Box	\$ 164.51
	* 8" IPS x 4" IPS	228276	1/Box	\$ 187.30
	10" - 22" IPS x 2" IPS & 10" - 20" DIP x 2" IPS	228182	5/Box	\$ 254.86
	10" - 22" IPS x 3" IPS & 10" - 20" DIP x 3" IPS	228187	5/Box	\$ 285.91

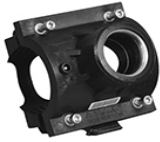
* comes with undersaddle

Note: Requires 228053 Friatop Pneumatic Top-loading Tool

Description	Dimension inches	Product Code	Std Pkg	Unit Price
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VA Service Saddle with 2" IPS Brass FIP Outlet



* 3" IPS x 2" SSPT Note: Undersaddle	228262	26/Box	\$	140.00
* 4" IPS x 2" SSPT	228170	20/Box	\$	73.84
* 4" DIP x 2" SSPT	228298	1/Box	\$	88.60
* 6" IPS x 2" SSPT	228171	10/Box	\$	87.89
* 6" DIP x 2" SSPT	228302	1/Box	\$	105.48
* 8" IPS x 2" SSPT Note: Requires 228053 Friatop Pneumatic Top-Loading Tool, complete with VSC adaptor	228218	10/Box	\$	98.42
* 8" DIP x 2" SSPT Note: Requires 228053 Friatop Pneumatic Top-Loading Tool, complete with VSC adaptor	228173	10/Box	\$	101.95
* 10" - 22" IPS x 2" SSPT Note: Requires 228053 Friatop Pneumatic Top-Loading Tool, complete with VSC adaptor 228253 Application restricted to 22" IPS and 20" DIPs	228174	10/Box	\$	237.27

Assemble nipple, bushings or corporation stop into saddle using RED LOC-TITE #262.
Do not over tighten or back out threads once assembled.
* SSPT- straight standard pipe thread.
The use of tapered fittings is not allowed.

New! Brass Reducing Bushings - For use with VA Service Saddles

Lead Free NSF-61 Annex G



To avoid weeping at threads, use brass reducing bushings listed below

2" x 3/4" Male SSPT x Female NPT	228453	1	\$	31.47
2" x 1" Male SSPT x Female NPT	228454	1	\$	32.10
2" x 1 1/2" Male SSPT x Female NPT	228455	1	\$	26.98

Assemble Bushings into VA Saddle using RED LOC-TITE #262.
Do not overtighten or back out threads once assembled.



SPA Electrofusion Shut Off Saddles



3" IPS SPA Electrofusion Shut Off Saddle	228363	-	\$	256.07
4" IPS SPA Electrofusion Shut Off Saddle	228361	-	\$	269.64
6" IPS SPA Electrofusion Shut Off Saddle	228362	-	\$	288.83
8" IPS SPA Electrofusion Shut Off Saddle	228335	-	\$	343.48
10" - 12" IPS SPA Electrofusion Shut Off Saddle Note: Requires 228053 Friatop Pneumatic Top-Loading Tool	228360	-	\$	398.55



Accessories For SPA Electrofusion Shut Off Saddles



Electrofusion cap for SPA Saddles - Yellow	228242	-	\$	10.87
Electrofusion cap for SPA Saddles - Black- fusible	228339	-	\$	33.46

RE-ROUND CLAMP RENTAL RATES

14" IPS/DIPS RE-ROUND CLAMPS:

RATES	\$655.00 / MONTH
	\$165.00 / WEEK
	\$35.00 / DAY

16" IPS/DIPS - 18" IPS/DIPS RE-ROUND CLAMPS:

RATES	\$802.00 / MONTH
	\$200.50 / WEEK
	\$41.00 / DAY

20" IPS/DIPS - 30" IPS RE-ROUND CLAMPS:

RATES	\$1280.00 / MONTH
	\$320.00 / WEEK
	\$65.00 / DAY

ALL RENTAL CHARGES START ON THE DAY IT LEAVES FOR DESTINATION AND ENDS WHEN RECEIVED BACK AT OUR DOCK.

FREIGHT CHARGES ARE NOT INCLUDED IN THE RENTAL RATES.

PLEASE NOTE:

1) Re-Round Clamp will be invoiced at our full selling price and credited upon its return, less rental charges (as indicated above) and less any applicable fees (cleaning/missing parts, etc.)

2) Return Material Authorization (RMA) must be requested prior to returning the re-round clamp to our distribution centre. A copy of the RMA must accompany the tool return at all times.

NOTES

This image shows a full page of white paper with horizontal dashed lines, typical of primary-ruled notebook paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings present.

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IPEX USA LLC

General Terms and Conditions of Sale

1. Scope

All sales are subject to these general terms and conditions ("**General T&Cs**"). In addition, certain products may be subject to product-specific terms and conditions ("**Specific T&Cs**") as posted on the Vendor's website at the time of sale. In the event of a conflict between the General T&Cs and the Specific T&Cs, the Specific T&Cs shall prevail. Purchaser's order is accepted subject to these General T&Cs, to the applicable Specific T&Cs and to any terms and conditions agreed to in writing by the Vendor and Purchaser. **It is expressly agreed that any terms and conditions contained in the Purchaser's order or otherwise stipulated will be deemed for the Purchaser's internal use only and will not be binding on the Vendor.**

2. Orders

Purchaser's orders are conditional upon satisfactory credit approval by the Vendor. The Vendor will only accept orders in excess of \$100 before taxes or such greater amount as may be specified for certain products. Once confirmed by the Vendor, orders for custom-made or non-stocked products cannot be cancelled, modified or returned, except with the Vendor's written consent and upon terms which provide for indemnification of the Vendor for the costs and expenses incurred.

3. Shipments, Title to the Products and Risk of Loss

Any delivery schedules stipulated are approximate only and shipment will be made within reasonable proximity thereto. Under no circumstances will the Vendor be responsible for any damage whatsoever caused by delays in shipment, whether resulting from causes within or beyond the control of the Vendor.

All shipments are F.O.B. origin (Vendor's location) (American standard) or Ex Works (Vendor's location) (ICC Incoterms), as indicated on the invoice. Freight prepaid orders, when applicable, will be delivered by the carrier of the Vendor's selection, unless the use of other carriers is agreed to in writing with the Purchaser.

Risk of loss and title to the Products shall in any case pass to the Purchaser upon delivery of Products to the carrier at Vendor's shipping dock or upon the invoicing of the Products, whichever occurs first.

Purchaser must verify quantities and report discrepancies within 2 business days of receipt.

4. Prices

All prices quoted or published are F.O.B. origin (Vendor's location) or Ex Works (Vendor's location), and do not include any sales, use, excise or any other tax or levy imposed by any present or future law, regulation or other order, on any of the Products.

Published prices are subject to change without notice until orders are accepted by the issuance of an order confirmation, whereupon prices will remain firm for those shipments that take place within the 30-day period following the date of the order confirmation. For specific projects, contracts or quotations, the Vendor may agree in writing to protect prices for an extended period of time. Each order may be shipped in whole or in part at the Vendor's discretion. Each shipment made will be immediately invoiced.

In order to be exempt of the applicable taxes, Purchaser must provide the Vendor with applicable tax exemption certificates or other documents.

5. Terms of Payment

Unless other terms of payment are agreed to in writing by the Vendor, payment is due upon delivery of the Products. If applicable, cash discounts, expressed as a percentage, are calculated on the net invoiced prices before any taxes, freight or other charges and can only be deducted from payment if the Vendor receives payment from Purchaser on or prior to the due date. Net 30 days means that payment is due within 30 days of the date of

invoice and no cash discount is applicable. Overdue accounts shall bear interest at a rate of 18% per annum. The granting of credit by the Vendor is at all times based on its evaluation of the Purchaser's financial condition. If such financial condition does not justify continuance of shipment on credit, the Vendor may require full or partial payment in advance.

6. Return of Products

The Vendor may accept the return of Products, at its sole discretion, but is subject in all cases to the following: a) prior to returning any Products, the Purchaser must obtain a Return Material Authorization (RMA) number from the Vendor; b) Products must be returned freight prepaid, unless otherwise authorized by the Vendor; and c) Products must be received in good saleable condition and, if required, in full carton quantities and in their original packaging. A minimum return charge of 25% of the purchase price will be applied

IPEX USA LLC

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against any credit issued pursuant to the return of Products, except in the case of a Vendor shipping error. The Vendor may apply additional charges against the credit to cover remarketing costs or may refuse to issue any credit, but will advise the Purchaser accordingly.

Certain Products, such as pressure pipe and fittings, custom-made products or configurations, perishable products, obsolete products, large quantities or other specialty products cannot be returned.

In certain circumstances, the Vendor may direct that Products be destroyed for credit rather than returned.

7. Changes to Products

The Vendor reserves the right to make changes or improvements to its Products without assuming any further obligation.

8. Patent Rights

If any claim is made against the Purchaser based on the allegation that any of the Products sold by the Vendor constitute an infringement of any patent, the Purchaser shall notify the Vendor immediately. The Vendor shall have the right, at its own option and expenses, to take any actions to protect and defend its rights.

9. Force Majeure

The Vendor shall in no event be responsible or liable for any non-performance or delay in performance hereunder or any loss or damage of any kind or nature whatsoever, direct or indirect, suffered by the Purchaser, subsequent purchasers, end-users of the Products or any other person, as a result of any causes beyond the reasonable control of the Vendor including, without limitation, fires, floods, civil commotion, riots, wars, acts of God, embargos, acts of or acts authorized by any government or standard organizations, adoption of laws or regulations, strikes/slowdowns, lock-outs/walk-outs, labor shortages, accidents, breakdowns, power outages, delays in shipments, manufacture, transportation or delivery of goods or materials, shortages of materials or supplies, or price alterations.

10. Governing Law

This agreement and all rights and obligations hereunder shall be governed by the laws of North Carolina and all actions commenced pursuant hereto shall be brought in a court of competent jurisdiction residing in Charlotte, North Carolina. The parties agree to exclude this Agreement and the purchases made thereunder from the application of the United Nations' Convention on the Sale of Goods.

11. Non-waiver

No delay, failure, change or waiver by the Vendor to exercise any one or more of its rights under these terms and conditions of sale shall be construed or shall operate to be a waiver thereof or a continuing waiver of such terms and conditions.

12. Warranty and Limitation of Liability

- 12.1 The Vendor warrants that its Products are, at the time of their sale by Vendor, free from defects resulting from Vendor's faulty manufacturing.
- 12.2 THERE IS NO WARRANTY, CONDITION OR REPRESENTATION OF ANY NATURE WHATSOEVER, EXPRESSED OR IMPLIED, BY STATUTE OR OTHERWISE, EXCEPT AS HEREIN CONTAINED. ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS OF THE PRODUCTS FOR A SPECIAL PURPOSE AND ANY OTHER WARRANTY OF QUALITY ARE EXPRESSLY DISCLAIMED.
- 12.3 The Vendor will, at its entire discretion either refund or replace with a Product of the same type and size as the original Product, free of charge, including shipping charges at the original point of delivery, any Product which is found to breach this Limited Warranty.
- 12.4 THIS LIMITED WARRANTY IS VALID ONLY AND WILL ONLY APPLY IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
 - 12.4.1 The Product must have been used only in applications and under conditions (handling, installation, testing, use, water temperature, maintenance, repairs, etc.) that are strictly in compliance with these terms and conditions and the Vendor's technical manuals and installation instructions currently available from the Vendor at the time of installation.

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General Terms and Conditions of Sale

- 12.4.2 The alleged defect must not be due to faulty installation, misalignment of products, vibration, ordinary wear and tear, corrosion, erosion, U.V. degradation, incompatible lubricants, pastes and thread sealants, unusual pressure surges or pulsation, water hammer, temperature shocking, or fouling.
- 12.4.3 The Product must have been installed in good and workmanlike manner consistent with the Vendor's technical manuals and installation instructions currently available from the Vendor at the time of installation, and with the state of the art industry standards and practices, and in conformance with all applicable laws and regulations.
- 12.4.4 The Product must have not been altered, damaged or modified after leaving the Vendor's premises, and must have been used in no more than one installation, show no evidence of disassembly or tampering, and have not been subjected to abnormal operating conditions, accident, abuse, misuse, unauthorized alteration, or repair.
- 12.4.5 The Product must not have been subject to acts of nature such as earthquakes, fire, flood, or lightning, or any other event of force majeure.
- 12.4.6 The Product must not have been subject to freezing inside any of its components.
- 12.4.7 If the Product is perishable, the Product must have been used prior to the expiration date as indicated on the Product.
- 12.4.8 The Claimant must notify the Vendor in writing within ten (10) days of when the alleged defect was discovered, or should have been discovered in the exercise of ordinary care, and the alleged defective Product must be promptly returned to the Vendor. Notice of an alleged defective Product under this Limited Warranty must be directed to your local IPEX Customer Service representative. Claimant must provide documentary evidence of failure, as well as the failed components themselves or representative samples of the Product that is alleged to have failed, and must agree to allow a meaningful and reasonable opportunity for Vendor to inspect the system in which the alleged defective Product was installed.
- 12.5 ANY LIABILITY IN RESPECT TO THE PRODUCTS IS STRICTLY LIMITED TO THEIR REFUND OR REPLACEMENT AS HEREINBEFORE SPECIFIED AND THERE SHALL NOT, IN ANY EVENT, BE ANY LIABILITY FOR ANY LABOUR CHARGES OR DAMAGES, INCLUDING WITHOUT LIMITATION DIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL OR PUNITIVE DAMAGES.
- 12.6 Without limiting the generality of the foregoing, any liability or responsibility is disclaimed:
 - 12.6.1 for labor, materials, and/or other expenses required to replace a defective Product;
 - 12.6.2 for any damage resulting from a defective Product;
 - 12.6.3 for calculations, product drawings, or engineering design specifications;
 - 12.6.4 regarding the accuracy of any plans, drawings, or specifications furnished to the purchaser as part of the sale of any of its products;
 - 12.6.5 for loss or damage resulting from failure to abide by manufacturer's warnings, safety instructions, or other precautionary guidelines.
- 12.7 ANY CLAIM, WHETHER IN CONTRACT OR IN TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, WITH RESPECT TO OR ARISING OUT OF THE SALE, DELIVERY, INSTALLATION, REPAIR OR USE OF ANY PRODUCTS SOLD TO PURCHASER SHALL NOT IN ANY EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCTS FOUND TO BE DEFECTIVE. It is the responsibility of the owner to obtain and pay for emergency repairs.
- 12.8 No statement, conduct, or description by the Vendor, any of its affiliates, their respective representatives, distributors or agents, in addition to or beyond this Limited Warranty, shall constitute a warranty. This Limited Warranty may only be modified in a writing signed by an officer of the Vendor.

13. IMPORTANT

Without limiting any other restriction in any of the Vendor's documentation, the Products must not be used in any way related to nuclear material or to a nuclear facility and must not be used or located in Iran, North Korea, Syria, Cuba or Sudan at any time.

**IPEX USA LLC SALES AND CUSTOMER SERVICE CENTER
&
SERVICE AND REPAIRS OF ELECTROFUSION UNITS AND TOOLS.**

IPEX USA LLC
1425 North Service Rd., Unit 3
Oakville, Ontario, L6H 1A7

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