



AtlantaHDPE

High Density Polyethylene Pipes & Fittings



- Easy to Handle
- High Chemical Resistance
- Safe for Potable Water & Other Fluids
- Flexible
- Abrasion Resistance
- Lower Flow Resistance
- Tight Joints
- Light Weight
- Impact Resistance



ADVANTAGES

Atlanta HDPE pipe offers a number of engineering advantages over conventional piping materials.



Ease of Handling

Atlanta HDPE pipe weighs considerably less than pipes made from conventional materials. Typically, it is only 1/4 to 1/10 the weight of cast iron, steel or concrete pipes used for the same service. This affords significant savings in transportation and installation by reducing manpower and equipment needs to a minimum.



High Chemical Resistance

Atlanta HDPE pipe has replaced steel, stainless steel, cast iron and concrete piping where chemical or corrosion resistance is required. It is resistant to attack by acids, bases, salts and many hydrocarbon materials. In addition, even the most aggressive soil will not corrode Atlanta HDPE piping.



Flexible

Atlanta HDPE pipe is flexible, providing ease of installation. It can be curved, snaked, inserted or laid along natural ground contours, thereby reducing installation costs and equipment requirements.



Lowest Flow Resistance

The smooth interior of this pipe provides for higher flow design factors. The Hazen-Williams water flow coefficient for Atlanta HDPE pipe is 150 to 155, and the Manning "n" value is approximately 0.009. Resistance to scaling and corrosion allows the pipe to maintain its excellent flow properties throughout service life.



Lightweight

Can be easily handled and installed because the weight of PE pipe is just 1/7 of steel pipes.



Safe for Potable Water and Other Fluids

Because Atlanta HDPE piping does not contaminate fluid with metallic ions, it is often used in the transportation of pure materials, including deionized water. Atlanta HDPE piping materials also meet with the approval of the Bureau of Product Standards for the transport of potable water.



Impact Resistance

PE pipes doesn't break up to -80°C.



Abrasion Resistance

Atlanta HDPE pipe has smooth, tough interior surfaces which make it an excellent material for conveying a variety of abrasive slurries.



Tight Joints

A choice of jointing systems is available depending upon the application and the size of the Atlanta HDPE pipe. These include butt fusion, electrofusion, socket fusion, extrusion welding, mechanical connectors and compression type fittings.

PHYSICAL PROPERTIES



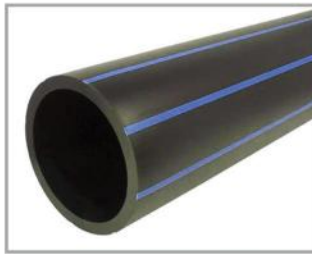
PROPERTY	ASTM TEST	ACTUAL VALUE
Density, g/cm ²	D 1505	0.926
Melt Flow Rate g/10min (max)	ASTM P1238	1.0
Environmental Stress* Cracking Resistance, (Hrs.) Condition A, B & C	D 1693	> 1500
Tensile Strength, Mpa	ISO 6259	23
Toxicity	ISO 3114	Pb - Less than 0.005 mg/L Cd - Less than 0.001 mg/L Hg - Less than 0.0005 mg/L
Modulus of Elasticity, PSI	ASTM D 638	79,190
Carbon Black	ISO 6964	2.19 ±0.25%
Thermal Stability (Oxidative Induction Time), min.	ISO 13949	82.23
Melt Flow Rate Deviation, +/- 30%	ISO 1133	-6.25%
Elongation at Break, %	ISO 6259	768%

* Testing for this is not requested by ISO 4427

AVAILABLE WITH COLOR STRIPS



Plain Black

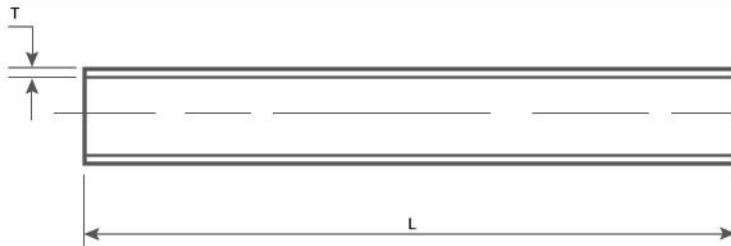


Black with Blue Strips
for Water Distribution



Black with Orange Strips
for Water Drainage

HDPE PIPE RANGE



APPLICATION: Potable Water Main Distribution and Service Connection System & Industrial Application.

STANDARD: Conforming to ISO R 161/1/ISO 3607 Series, SDR PR based on controlled Outside Diameter and in accordance to PNS ISO 4427-2002.

SIZES: 20mm to 630mm

JOINT METHOD: Butt Fusion, Flange Type, Compression Type, Electrofusion, Socket Fusion, Mechanical Fittings

NOMINAL SIZE	OUTSIDE DIAMETER	STANDARD LENGTH	SDR 9	SDR 11	SDR 13.6	SDR 17	SDR 21	SDR 26		
			NOMINAL PRESSURE (PSI)							
			PN 20	PN 16	PN 12.5	PN 10	PN 8	PN 6.3		
			290	232	181.25	145	116	87		
			Thickness T (mm)	Thickness T (mm)	Thickness T (mm)	Thickness T (mm)	Thickness T (mm)	Thickness T (mm)		
1/2	20	300	2.30	*1.90	*1.60	-	-	-		
3/4	25	150	2.80	*2.30	*1.90	-	-	-		
1	32	100	3.60	3.00	*2.40	*1.90	-	-		
1-1/4	40	60	4.50	3.70	*3.00	*2.40	-	-		
1-1/2	50	60	5.60	4.60	*3.70	*3.00	-	-		
2	63	60	7.10	5.80	4.70	*3.80	-	-		
2-1/2	75	60	8.40	6.80	5.60	4.50	-	-		
3	90	6	10.10	8.20	6.70	5.40	4.30	**3.50		
4	110	6	12.30	10.00	8.10	6.60	5.30	**4.20		
6	160	6	17.90	14.60	11.80	9.50	7.70	**6.20		
8	225	6	25.20	20.50	16.60	13.40	10.80	**8.60		
10	280	6	31.30	25.40	20.60	16.60	13.40	**10.70		
12	315	6	35.20	28.60	23.20	18.70	15.00	**12.10		
14	355	6	39.70	32.20	26.10	21.10	16.90	**13.60		
16	400	6	44.70	36.30	29.40	23.70	19.10	**15.30		
18	450	6	50.30	40.90	33.10	26.70	21.50	**17.20		
20	500	6	55.80	45.40	36.80	29.70	23.90	**19.10		
22	560	6	62.22	50.80	41.20	33.20	**26.70	**21.40		
24	630	6	70.00	57.20	46.30	37.40	**30.00	**24.10		

Note: All (*) are based on our manufacturing standard.

** Subject for Availability

NEW HDPE LARGE DIAMETER SIZES

24	710	6	-	64.50	52.20	42.10	-	27.20
32	800	6	-	72.60	58.80	47.40	-	30.60
36	900	6	-	81.70	66.20	53.30	-	34.40
40	1000	6	-	90.20	72.50	59.30	-	38.20

Images for illustration only. Actual products and specifications may vary without prior notice. For inquiries, contact our Technical Department.

INJECTION MOULDED - BUTT FUSION SERIES

Moulded 90° Elbow



Nominal Size	
mm	in
315	12

Moulded 90° Elbow



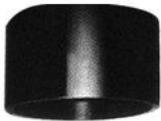
Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16

Moulded 45° Elbow



Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14

Moulded End Cap



Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16

Moulded Tee



Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
400	16

Moulded Wye



Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12

Moulded Stub End



Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16
450	18
630	24

Moulded Tee Reducer



Nominal Size		Nominal Size		Nominal Size	
mm	in	mm	in	mm	in
75 x 40	2-1/2 x 1-1/4	110 x 63	4 x 2	225 x 110	8 x 4
75 x 50	2-1/2 x 1-1/2	110 x 63	4 x 2-1/2	225 x 160	8 x 6
75 x 63	2-1/2 x 2	110 x 75	4 x 3	280 x 90	10 x 3
90 x 40	3 x 1-1/4	110 x 90	6 x 1-1/2	280 x 110	10 x 4
90 x 50	3 x 1-1/2	160 x 50	6 x 2	280 x 160	10 x 6
90 x 63	3 x 2	160 x 75	6 x 2-1/2	315 x 75	12 x 2-1/2
90 x 75	3 x 2-1/2	160 x 90	6 x 3	315 x 110	12 x 4
110 x 40	4 x 1-1/4	160 x 110	6 x 4	315 x 160	12 x 6
110 x 50	4 x 1-1/2	225 x 90	8 x 3	315 x 225	12 x 8

INJECTION MOULDED - BUTT FUSION SERIES

Moulded Wye Reducer



Nominal Size	
mm	in
110 x 63	4 x 2
110 x 90	4 x 3
160 x 110	6 x 4
315 x 110	12 x 4

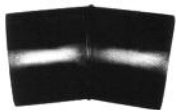


Moulded Coupling Reducer

Nominal Size		Nominal Size	
mm	in	mm	in
75 x 50	2-1/2 x 1-1/2	160 x 63	6 x 2
75 x 63	2-1/2 x 2	160 x 75	6 x 2-1/2
90 x 40	3 x 1-1/4	160 x 90	6 x 3
90 x 50	3 x 1-1/2	160 x 110	6 x 4
90 x 63	3 x 2	225 x 90	8 x 3
90 x 75	3 x 2-1/2	225 x 110	8 x 4
110 x 40	4 x 1-1/4	225 x 160	8 x 6
110 x 50	4 x 1-1/2	315 x 110	12 x 4
110 x 63	4 x 2	315 x 160	12 x 6
110 x 75	4 x 2-1/2	315 x 225	12 x 8
110 x 90	4 x 3	450 x 315	18 x 12
160 x 50	6 x 1-1/2		

FABRICATED - BUTT FUSION SERIES

Fabricated 60° Elbow



Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16

Fabricated 90° Elbow



Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16

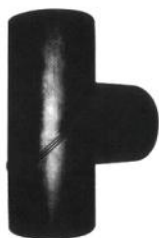
Fabricated End Cap



Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16
450	18
500	20
560	22
630	24

FABRICATED - BUTT FUSION SERIES

Fabricated Tee



Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16



Fabricated Wye

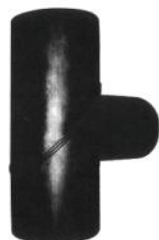
Nominal Size	
mm	in
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16

Fabricated Cross Tee Reducer



Nominal Size	
mm	in
110 x 75	4 x 2-1/2
110 x 90	4 x 3
160 x 110	6 x 4
225 x 160	8 x 6
280 x 160	10 x 6
280 x 225	10 x 8
315 x 225	12 x 8
315 x 280	12 x 10
355 x 280	14 x 10
355 x 315	14 x 12
400 x 315	16 x 12
400 x 355	16 x 14

Fabricated Tee Reducer



Nominal Size	
mm	in
110 x 75	4 x 2-1/2
110 x 90	4 x 3
160 x 110	6 x 4
225 x 160	8 x 6
280 x 160	10 x 6
280 x 225	10 x 8
315 x 225	12 x 8
315 x 280	12 x 10
355 x 280	14 x 10
355 x 315	14 x 12
400 x 315	16 x 12
400 x 355	16 x 14



Fabricated Wye Reducer

Nominal Size	
mm	in
110 x 75	4 x 2-1/2
110 x 90	4 x 3
160 x 110	6 x 4
225 x 160	8 x 6
280 x 160	10 x 6
280 x 225	10 x 8
315 x 225	12 x 8
315 x 280	12 x 10
355 x 280	14 x 10
355 x 315	14 x 12
400 x 315	16 x 12
400 x 355	16 x 14

ELECTROFUSION SERIES

90° Elbow



Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
315	12

45° Elbow



Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
315	12

Tee



Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
315	12

ELECTROFUSION SERIES

Tee Reducer

Nominal Size	
mm	in
25 x 20	3/4 x 1/2
32 x 20	1 x 1/2
32 x 25	1 x 3/4
40 x 20	1-1/4 x 1/2
40 x 25	1-1/4 x 3/4
40 x 32	1-1/4 x 1
50 x 20	1-1/2 x 1/2
50 x 25	1-1/2 x 3/4
50 x 32	1-1/2 x 1
50 x 40	1-1/2 x 1-1/4
63 x 20	2 x 1/2
63 x 25	2 x 3/4
63 x 32	2 x 1
63 x 40	2 x 1-1/4
63 x 50	2 x 1-1/2
75 x 63	2-1/2 x 2
90 x 40	3 x 1-1/4
90 x 50	3 x 1-1/2
90 x 63	3 x 2
110 x 40	4 x 1-1/4
110 x 50	4 x 1-1/2
110 x 63	4 x 2
110 x 90	4 x 3
160 x 50	6 x 1-1/2
160 x 63	6 x 2
160 x 90	6 x 3
160 x 110	6 x 4



Coupling

Nominal Size	
mm	in
20	1/2
25	3/4
32	1
40	1-1/4
50	1-1/2
63	2
75	2-1/2
90	3
110	4
160	6
225	8
280	10
315	12
355	14
400	16
450	18
500	20
560	22
630	24



Saddle

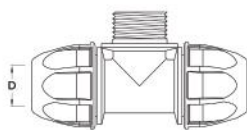
Nominal Size	
mm	in
75 x 63	2-1/2 x 2
90 x 63	3 x 2
110 x 63	4 x 3
160 x 110	6 x 4
315 x 160	12 x 4

End Cap

Nominal Size	
mm	in
32	1
40	1-1/4
50	1-1/2
63	2

NON LOOSE COMPONENT SERIES

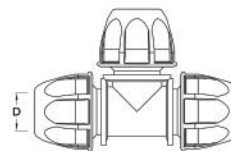
Male Tee



Size mm
20
25
32
*40
*50
*63
*75
*90
*110

* BSP Taper Male Threaded

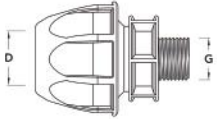
Equal Tee



Size mm
20
25
32
40
50
63
75
90
110

NON LOOSE COMPONENT SERIES

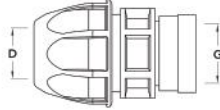
Male Threaded Adaptor



Size D (mm) x G (inch)
20 x 1/2"
20 x 3/4"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 1/2"
32 x 3/4"
32 x 1"
*40 x 1"
*40 x 1-1/4"
*40 x 1-1/2"
*50 x 1-1/4"
*50 x 1-1/2"
*50 x 2"
*63 x 1-1/2"
*63 x 2"
*63 x 2-1/2"
*75 x 2-1/2"
*90 x 3"
*110 x 4"

* BSP Taper Male Threaded

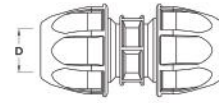
Female Threaded Adaptor



Size D (mm) x G (inch)
20 x 1/2"
20 x 3/4"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 3/4"
32 x 1"
*40 x 1"
*40 x 1-1/4"
*40 x 1-1/2"
*50 x 1-1/4"
*50 x 1-1/2"
*63 x 2"
*75 x 2"
*75 x 2-1/2"
*90 x 3"
*110 x 4"

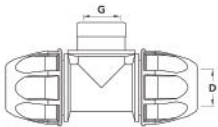
* Come With Reinforced
Stainless Steel Ring Cap
* BSP Taper Male Threaded

Straight Coupler



Size mm
20 x 20
25 x 25
32 x 32
40 x 40
50 x 50
63 x 63
75 x 75
90 x 90
110 x 110

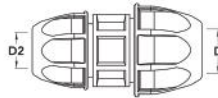
Female Tee



Size D (mm) x G (inch)
20 x 1/2"
20 x 3/4"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 3/4"
32 x 1"
*40 x 1"
*40 x 1-1/4"
*40 x 1-1/2"
*50 x 1-1/4"
*50 x 1-1/2"
*50 x 2"
*63 x 2"
*75 x 2"
*75 x 2-1/2"
*90 x 3"
*110 x 4"

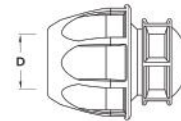
* Come With Reinforced
Stainless Steel Ring Cap
* BSP Taper Male Threaded

Reducing Coupler



Size mm
25 x 20
32 x 20
32 x 25
40 x 20
40 x 25
40 x 32
50 x 20
50 x 25
50 x 32
50 x 40
63 x 25
63 x 32
63 x 40
63 x 50
75 x 50
75 x 63
90 x 63
90 x 75

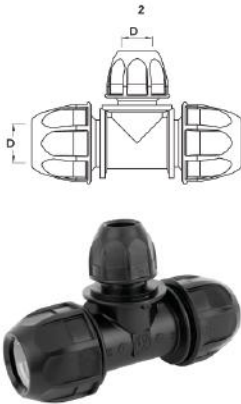
End Cap



Size mm
20
25
32
40
50
63
75
90
110

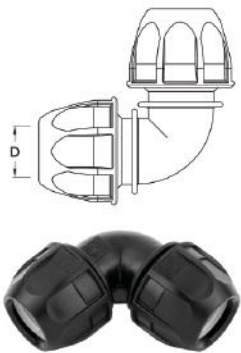
NON LOOSE COMPONENT SERIES

Reducing Tee

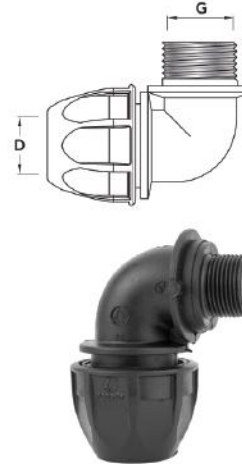


Size D x D2 (mm)
25 x 20
32 x 20
32 x 25
40 x 25
40 x 32
50 x 20
50 x 25
50 x 32
50 x 40
63 x 25
63 x 32
63 x 40
63 x 50
75 x 50
75 x 63
90 x 63
90 x 75

Equal Elbow 90°



Size mm
20
25
32
40
50
63
75
90
110



Male Elbow 90°

Size D (mm) x G (inch)
20 x 1/2"
20 x 3/4"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 3/4"
32 x 1"
40 x 1"
40 x 1-1/4"
40 x 1-1/2"
50 x 1-1/4"
50 x 1-1/2"
63 x 2"
75 x 2"
75 x 2-1/2"
90 x 2"

* BSP Taper Male Threaded

Female Elbow 90°



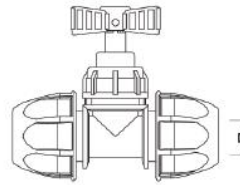
Size D (mm) x G (inch)
20 x 1/2"
20 x 3/4"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 3/4"
32 x 1"
40 x 1"
40 x 1-1/4"
50 x 1-1/4"
50 x 1-1/2"
63 x 2"
75 x 2"
75 x 2-1/2"
90 x 2"

* Come With Reinforced
Stainless Steel Ring Cap
* BSP Taper Male Threaded

NON LOOSE COMPONENT SERIES

PE - PE Connection

Branch Outlet Size mm
20
25
32



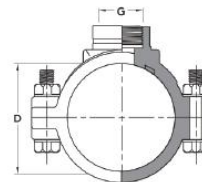
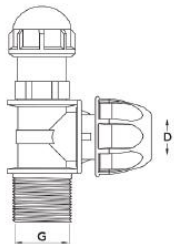
Gate Valve

Size mm
20
25
32



Tapping Ferrule (PE Pipe Connector)

Size G (inch) x D (mm)
1" x 20
1" x 25
1" x 32
1-1/4" x 20
1-1/4" x 25
1-1/4" x 32



Saddle Clamp

Size D (mm) x G (inch)	No. Bolt & Nuts
63mm x 1/2"	4
63mm x 3/4"	4
63mm x 1"	4
63mm x 1-1/4"	4
75mm x 1/2"	4
75mm x 3/4"	4
75mm x 1"	4
75mm x 1-1/4"	4
75mm x 1-1/2"	4
90mm x 1/2"	4
90mm x 3/4"	4
90mm x 1"	4
110mm x 1/2"	4
110mm x 3/4"	4
110mm x 1"	4
110mm x 1-1/4"	4
110mm x 1-1/2"	4
110mm x 2"	4



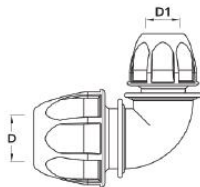
Rubber Gasket



O-Ring

Reducing Elbow

Size D (mm) x D1 (mm)
25 x 20
32 x 20
32 x 25
50 x 25
50 x 32



ATLANTA BUTT FUSION WELDING MACHINES



Atlanta BF Machine 160/4 + Handle

Technical Parameters	
Model	SHDS164A4
Welding Range (mm)	50, 63, 75, 90, 110, 125, 140, 160
Heating Plate Max Temp.	270°C
Heating Plate Surface Diff. (170°-250°C)	≤±5°C
Operating Voltage	AC 220V
Heating Plate Power	1.5 kW
Milling Cutter Power	0.7 kW
Total Power	2.2 kW
Weight	48 kg



Atlanta BF Machine 200/4 + Handle

Technical Parameters	
Model	SHDS164A4
Welding Range (mm)	90, 110, 125, 140, 160, 180, 200
Heating Plate Max Temp.	270°C
Heating Plate Surface Diff. (170°-250°C)	≤±5°C
Operating Voltage	AC 220V
Heating Plate Power	1.5 kW
Milling Cutter Power	0.7 kW
Total Power	2.2 kW
Weight	64 kg



Atlanta BF Machine SHD 250 Hydraulic

Technical Parameters	
Model	SHD 250
Welding Scope (mm)	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250
Highest Temperature Heating Plate	270°C
Temperature of 170 ~250°C Heating Plate Surface	≤±5°C
Pressure Regulating Range	0 - 6.3 Mpa
Working Voltage	220V
Heating Plate Power	2 kW
Milling Power	1.1 kW
Hydraulic Power Station	0.75 kW
Lifting Power	none
Total Power	3.85 kW
Weight	143 kg



Atlanta BF Machine SHD 315 Hydraulic

Technical Parameters	
Model	SHD 315
Welding Scope (mm)	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315
Highest Temperature Heating Plate	270°C
Temperature of 170 ~250°C Heating Plate Surface	≤±5°C
Pressure Regulating Range	0 - 6.3 Mpa
Working Voltage	220V
Heating Plate Power	2 kW
Milling Power	1.1 kW
Hydraulic Power Station	0.75 kW
Lifting Power	none
Total Power	4.85 kW
Weight	216 kg

ATLANTA BUTT FUSION AND ELECTROFUSION MACHINES



Atlanta BF Machine SHD 450 Hydraulic

Technical Parameters	
Model	SHD 450
Welding Scope (mm)	200, 225, 250, 280, 315, 355, 400, 450
Highest Temperature Heating Plate	270°C
Temperature of 170 ~250°C Heating Plate Surface	±7°C
Pressure Regulating Range	0 - 8 Mpa
Working Voltage	380V
Heating Plate Power	5.38 kW
Milling Power	1.5 kW
Hydraulic Power Station	1.5 kW
Lifting Power	0.25 kW (optional)
Total Power	8.38 kW
Weight	560 kg



Atlanta BF Machine SHD 630 Hydraulic

Technical Parameters	
Model	SHD 630
Welding Scope (mm)	315, 355, 400, 450, 500, 560, 630
Highest Temperature Heating Plate	270°C
Temperature of 170 ~250°C Heating Plate Surface	±7°C
Pressure Regulating Range	0 - 8 Mpa
Working Voltage	380V
Heating Plate Power	9.35 kW
Milling Power	1.5 kW
Hydraulic Power Station	1.5 kW
Lifting Power	0.25 kW (optional)
Total Power	12.35 kW
Weight	780 kg



Atlanta EF Machine SHD 3.5KW

Technical Parameters	
Model	SHD 3.5KW
Input Voltage	48V±10%, 220V±20% or 380V±20%
Output Voltage	46 - 65 Hz
Output Power	8 - 135 VAC
Control Mode	Constant Volt / Constant Current / Constant Power
Recording Number of Data	500
Time Control Precision	±0.01%
Temperature Measuring Precision	±0.5°C
Data Output Port	Rs232
Packing Size (mm)	330 x 200 x 270



Atlanta EF Machine SHD 8KW

Technical Parameters	
Model	SHD 8KW
Input Voltage	48V±10%, 220V±20% or 380V±20%
Output Voltage	40 - 65 Hz
Output Power	8 - 135 VAC
Control Mode	Constant Volt / Constant Current / Constant Power
Recording Number of Data	500
Time Control Precision	±0.01%
Temperature Measuring Precision	±0.5°C
Data Output Port	Rs232
Packing Size (mm)	330 x 200 x 270

Atlanta EF Machine SHD 12KW



Technical Parameters	
Model	SHD 12KW
Input Voltage	48V±10%, 220V±20% or 380V±20%
Output Voltage	46 - 65 Hz
Output Power	8 - 135 VAC
Control Mode	Constant Volt / Constant Current / Constant Power
Recording Number of Data	500
Time Control Precision	≤±0.01%
Temperature Measuring Precision	±0.5°C
Data Output Port	Rs232
Packing Size (mm)	330 x 200 x 270

INSTALLATION

BUTT FUSION WELDING



1. Wipe pipe ends inside and to remove dirt, oil, grease and other foreign materials.



2. Square the end of each pipe section to be fused by using the facing tool of the fusion machine. Remove cuttings and burrs from pipe ends.



3. Check the line-up of pipe ends in the fusion machine to see that the pipe ends meet squarely and completely over the entire surface to be fused.



4. Insert the heater plate between the aligned pipe ends. Bring and hold the pipe ends in contact with the heater plate. Maintain contact and allow the pipe to heat and soften.



5. Remove heater plate from pipe end. Bring the heated pipe ends together with a firm pressure. Pressure is necessary to cause the heated material to flow together, thus giving a fusion bead flash around the entire circumference of the pipe.



6. Allow the joint to cool and solidify until the bead feels hard. Inspect the joint for a uniform non-porous appearance. If the joints appear faulty, simply cut the joints and repeat the procedure.

PUSH FIT FITTING INSTALLATION



1. Cutting The Pipe
Inspect and remove any damages found within the surface of the pipe. Cut the squarely with the use of a pipe cutter; Ensure that the end of the pipe is even & flat.



2. Mark The Pipe To Ensure Its Insertion Depth
Unscrew & loosen the nut in preparation for pipe insertion.



3. Pipe Insertion
Insert the pipe by pushing it into the fitting until the end of the pipe reaches the stopper, this must be done until the pipe can no longer be pushed inwards.
Note: Check if the pipe is completely inserted within the fitting by inspecting the insertion depth marking.



4. Tightening the Nut
Carefully tighten the nut by twisting the nut clockwise.



5. Fully Installed
The whole installation process is complete. Check the pipe connection.

CHEMICAL RESISTANCE

REAGANT	70°F (21°C)	140°F (60°C)	REAGANT	70°F (21°C)	140°F (60°C)	REAGANT	70°F (21°C)	140°F (60°C)
Acetic Acid* 1-10%	S	S	Chloride Liquid	M	U	Glycerine*	S	S
Acetic Acid* 10-60%	S	M	Chlorobenzene	M	U	Glycol*	S	S
Acetic Acid* 80-100%	S	M	Chloroform	M	U	Glycolic Acid* 30%	S	S
Acetone	M	U	Chlorosulfonic Acid 100%	M	U	Grade Sugar Sat'd Aq.	S	S
Acrylic Emulsions*	S	S	Chrome Alum Sat'd	S	S	Hexanol, Tert.*	S	S
Aluminum Chloride-Dilute	S	S	Chromic Acid 20%	S	S	Hydrobromic Acid 50%	S	S
Aluminum Chloride Conc.	S	S	Chromic Acid Up to 50%	S	S	Hydrocyanic Acid Sat'd	S	S
Aluminum Fluoride Conc.	S	S	Chromic Acid and Sulfuric Acid	M	U	Hydrochloric Acid 10%	S	S
Aluminum Sulfate Conc.	S	S	Cider*	M	U	Hydrochloric Acid 30%	S	S
Alums (All Types) Conc.	S	S	Citric Acid Sat'd	S	S	Hydrochloric Acid 35%	S	S
Ammonia 100% Dry Gas	S	S	Coconut Oil Alcohols*	S	S	Hydrochloric Acid Conc.	S	S
Ammonium Carbonate	S	S	Cola Concentrates*	S	S	Hydrofluoric Acid 40%	S	S
Ammonium Chloride Sat'd	S	S	Copper Chloride Sat'd	S	S	Hydrofluoric Acid 60%	S	S
Ammonium Fluoride 20%	S	S	Copper Cyanide Sat'd	S	S	Hydrofluoric Acid 75%	S	S
Ammonium Hydroxide 0.888 S.Q.	S	S	Copper Fluoride 2%	S	S	Hydrogen 100%	S	S
Ammonium Metaphosphate Sat'd	S	S	Copper Nitrate Sat'd	S	S	Hydrogen Bromide 10%	S	S
Ammonium Nitrate Sat'd	S	S	Copper Sulfate Dilute	S	S	Hydrogen Chlorine Gas Dry	S	S
Ammonium Ferrrous Sulfate Sat'd	S	S	Copper Sulfate Sat'd	S	S	Hydrogen Peroxide 30%	S	S
Ammonium Sulfate Sat'd	S	S	Cottonseed Oil*	S	S	Hydrogen Peroxide 90%	S	M
Ammonium Sulfide Sat'd	S	S	Cuprous Chloride Sat'd	S	S	Hydrogen Phosphide 100%	S	S
Ammonium Thiocyanate Sat'd	S	S	Cychohexanol*	S	S	Hydroquinone	S	S
Amyl Acetate	M	U	Cyclohexanone*	M	U	Hydrogen Sulfide	S	S
Amyl Alcohol* 100%	S	S	Detergents Synthetic*	S	S	Hypochlorus Acid Conc.	S	S
Amyl Chloride 100%	N	U	Developers, Photographic	S	S	Inks*	S	S
Aniline 100%	S	N	Dextrin Sat'd	S	S	Iodine (Alc. Sol.) Conc.	S	U
Antimony Chloride	S	S	Dextrose Sat'd	S	S	Lactic Acid 10%	S	S
Aqua Regia	U	U	Dibutylphthalate	S	M	Lactic Acid 90%	S	S
Barium Carbonate Sat'd	S	S	Disodium Phosphate	S	S	Latex	S	S
Barium Chloride	S	S	Diazo Salts	S	S	Lead Acetate Sat'd	S	S
Barium Hydroxide	S	S	Diethylene Glycol*	S	S	Lube Oil	S	M
Barium Sulfate Sat'd	S	S	Diglycolic Acid*	S	S	Magnesium Carbonate Sat'd	S	S
Barium Sulfide Sat'd	S	S	Dimethylamine	M	U	Magnesium Chloride Sat'd	S	S
Beer	S	S	Emulsions, Photographic*	S	S	Magnesium Hydroxide Sat'd	S	S
Benzene	M	U	Ethyl Acetate 100%	M	U	Magnesium Nitrate Sat'd	S	S
Benzene Sulfonic Acid*	S	S	Ethyl Alcohol* 100%	S	S	Magnesium Sulphate Sat'd	S	S
Bismuth Carbonate Sat'd	S	S	Ethyl Alcohol* 35%	S	S	Mercuric Chloride Sat'd	S	S
Bleach Lye 10% Black Liquor	S	S	Ethyl Butyrate	S	U	Mercuric Cyanide Sat'd	S	S
Borax Cold Sat'd	S	S	Ethyl Chloride	M	U	Mercurous Nitrate Sat'd	S	S
Boric Acid Dilute	S	S	Ethyl Ether	U	U	Mercury	S	S
Boric Acid Conc.	S	S	Ethylene Chloride	U	U	Methyl Alcohol 100%	S	S
Bromic Acid 10%	S	S	Ethylene Chlorohydrin	U	U	Methyl Bromide	M	U
Bromine Liquid 100%	S	U	Ethylene Dichloride	M	U	Methyl Chloride	M	U
Butanediol* 10%	M	S	Ethylene Glycol*	S	S	Methyl Ethyl Ketone 100%	M	U
Butanediol* 60%	S	S	Ferric Chloride Sat'd	S	S	Methylsulfuric Acid*	S	S
Butanediol* 100%	S	S	Ferric Nitrate Sat'd	S	S	Methylene Chloride 100%	M	U
Butyl Alcohol* 100%	S	S	Ferrous Chloride Sat'd	S	S	Milk	S	S
Calcium Bisulfide	S	S	Ferrous Sulphate	S	S	Mineral Oils	S	U
Calcium Carbonate Sat'd	S	S	Fish Solubles*	S	S	Molasses Comm.	S	U
Calcium Chlorate Sat'd	S	S	Fluorubic Acid	S	S	Nickel Chloride Sat'd	S	S
Calcium Chloride Sat'd	S	S	Flourine	S	U	Nickel Nitrate Conc.	S	S
Calcium Hydroxide	S	S	Fluosilicic Acid 32%	S	S	Nickel Sulfate Sat'd	S	S
Calcium Hypochlorite Bich Sol.	S	S	Fluosilicic Acid Conc.	S	S	Nicotine Dilute	S	S
Calcium Nitrate 50%	S	S	Formaldehyde* 40%	S	N	Nicotinic Acid*	S	S
Calcium Sulfate	S	S	Formic Acid* 0-20%	S	S	Nitric Acid 0-30%	S	S
Camphor Oil	N	U	Formic Acid* 20-50%	S	S	Nitric Acid 30-50%	S	M
Carbon Dioxide 100% Dry	S	S	Formic Acid* 100%	S	S	Nitric Acid 70%	S	M
Carbon Dioxide 100% Wet	S	S	Fructose Sat'd	S	S	Nitric Acid 95-98%	U	S
Carbon Dioxide Cold Sat'd	S	S	Fruit Pulp	S	S	Nitrobenzene 100%	U	U
Carbon Disulphide	N	U	Fuel Oil	S	U	Octyl Cresol	S	U
Carbon Monoxide	S	S	Furfural 100%	M	U	Oils and Fats	S	U
Carbon Tetrachloride	M	U	Furfuryl Alcohol	M	U	Oleic Acid Conc.	S	U
Carbonic Acid	S	S	Gallic Acid* Sat'd	S	S	Oleum Conc.	U	U
Castor Oil* Conc.	S	S	Gasoline	M	U	Orange Extract	S	S
Chloride Dry Gas 100%	S	M	Gin	S	U	Oxalic Acid Dilute	S	S
Chloride Moist Gas	M	U	Glucose	S	S	Oxalic Acid Sat'd	S	S

S - Satisfactory
U - Unsatisfactory
M - Marginal
N - Not Known

Some Reagents are marked with an asterisk (*). Although Atlanta HDPE Pipe is chemically resistant to these agents, excess temperatures and pressures can under certain conditions, lead to stress cracking. On Reagents marked marginal, chemical attacks will be recognized by a loss of physical properties of the pipe.

CHEMICAL RESISTANCE

REAGANT	70°F (21°C)	140°F (60°C)	REAGANT	70°F (21°C)	140°F (60°C)	REAGANT	70°F (21°C)	140°F (60°C)
Ozone 100%	S	U	Potassium Hydroxide 20%	S	S	Sodium Sulfide 25%	S	S
Perchloric Acid 10%	S	S	Potassium Hydroxide Conc.	S	S	Sodium Sulfide Sat'd Solution	S	S
Petroleum Ether	U	U	Potassium Nitrate Sat'd	M	S	Sodium Sulfite Sat'd	S	S
Phenol 90%	U	U	Potassium Perborate Sat'd	S	S	Stannous Chloride Sat'd Solution	S	S
Phosphoric Acid Up to 30%	S	S	Potassium Perchlorate 10%	S	S	Stannic Chloride Sat'd	S	S
Phosphoric Acid Over 30%	S	S	Potassium Sulfate Conc.	S	S	Starch Solution* Sat'd	S	S
Phosphoric Acid 90%	S	S	Potassium Sulfide Conc.	S	S	Stearic Acid 100%	S	S
Phosphorous (Yellow) 100%	S	N	Potassium Sulfite Conc.	S	S	Sulfuric Acid 0-50%	N	S
Phosphorous Pentoxide 100%	S	N	Potassium Persulfate Sat'd	S	S	Sulfuric Acid 70%	S	M
Photographic Solutions	S	S	Propargyl Alcohol*	S	S	Sulfuric Acid 80%	S	U
Pickling Baths			Propyl Alcohol*	S	S	Sulfuric Acid 96%	M	U
Sulfuric Acid*	S	S	Propylene Dichloride 100%	S	S	Sulfuric Acid 98%	M	U
Hydrochloric Acid*	S	S	Propylene Glycol*	S	S	Sulfuric Acid Fuming	U	U
Sulfuric- Nitric*	S	U	Rayon Coagulating Bath*	S	S	Sulfurous Acid	S	S
Plating Solutions			Sea Water	S	S	Tallow	S	M
Brass	S	S	Selenic Acid	S	S	Tannic Acid* 10%	S	S
Cadmium*	S	S	Shortening*	S	S	Tanning Extracts Comm.	S	S
Chromium*	N	N	Silicic Acid	S	S	Tartaric Acid Sat'd	N	N
Copper*	S	S	Silver Nitrate Solution	S	S	Tetrahydrofurane	N	N
Gold*	S	S	Soap Solution* (Any Conc'n)	S	S	Titanium Tetrachloride Sat'd	S	N
Indium*	S	S	Sodium Acetate Sat'd	S	S	Toluene	M	U
Lead*	S	S	Sodium Benzoate 35%	S	S	Transformer Oil	S	M
Nickel*	S	S	Sodium Bicarbonate Sat'd	S	S	Trisodium Phosphate Sat'd	S	S
Rhodium*	S	S	Sodium Bisulfate Sat'd	S	S	Trichloroethylene	U	U
Silver*	S	S	Sodium Bisulfite Sat'd	S	S	Urea Up to 30%	S	S
Tin*	S	S	Sodium Borate	S	S	Urine	S	S
Zinc*	S	S	Sodium Bromide Dilute Solution	S	S	Vinegar Comm.	S	S
Potassium Bicarbonate Sat'd	S	S	Sodium Carbonate Conc.	S	S	Vanilla Extract*	S	S
Potassium Borate 1%	S	S	Sodium Carbonate	S	S	Wetting Agents*	S	S
Potassium Bromate 10%	S	S	Sodium Chlorate Sat'd	S	S	Whiskey*	S	N
Potassium Bromide Sat'd	M	S	Sodium Chloride Sat'd	S	S	Wines	S	S
Potassium Carbonate	S	S	Sodium Cyanide	S	S	Xylene	M	U
Potassium Chlorate Sat'd	S	S	Sodium Dichromate Sat'd	S	S	Yeast	S	S
Potassium Chloride Sat'd	S	S	Sodium Ferricyanide	S	S	Zinc Chloride Sat'd	S	S
Potassium Chloride Sat'd	S	S	Sodium Ferrous Sulfate Sat'd	S	S	Zinc Sulfate Sat'd	S	S
Potassium Chromate 40%	S	S	Sodium Fluoride Sat'd	S	S			
Potassium Cyanide Sat'd	S	S	Sodium Hydroxide Conc.	S	S			
Potassium Dichromate 40%	S	S	Sodium Hypochlorite	S	S			
Potassium Ferricyanide Sat'd	S	S	Sodium Nitrate	S	S			
Potassium Ferrocyanide Sat'd	S	S	Sodium Sulfate	S	S			
Potassium Fluoride	S	S						

PROJECTS

PERIGRINE PROJECT Global City, Clark, Pampanga



PROJECTS

ROCKWELL 205 SANTOLAN
Boni Serrano Ave., Quezon City



HDPE IRRIGATION SYSTEM
Unisan, Quezon Province



PHILIPPINE ARENA
Albaquerque, Bulacan



TOLEDO | BATKINGS PROJECT

