



KUSHAL

CRAFTED TO WELD BEST

ELECTRO FUSION
WELDING MACHINES
& ACCESSORIES



About Us

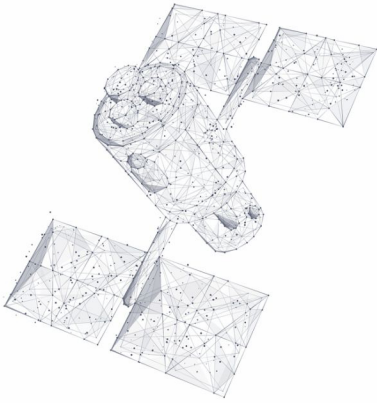
Our manufacturing infrastructure is spacious and is supported by highly advanced tools and machineries. Different teams assigned for different processes of Design, Manufacture, Quality Check, and Support ensure that our products meet our internally set highest standards of quality.

We continue to focus on making the best quality products at most competitive prices and achieve highest customer satisfaction.

We would be happy to partner with you for your welding / jointing needs of Plastic Pipes.

All our products are **100% MADE IN INDIA.**

This ensures that all parts and components are easily available through our dealer network and also directly from our factory.





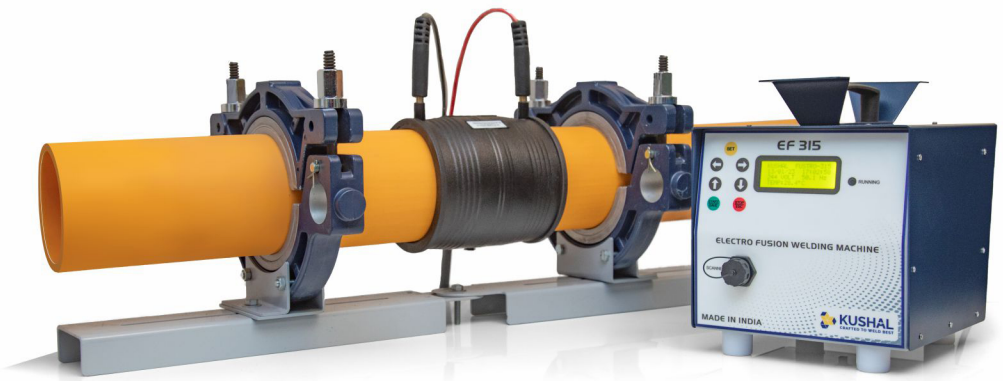
Technical Specifications



Model	EF315	EF160
FOR USE	WATER	WATER
INPUT VOLTAGE	SINGLE PHASE 230V/AC	SINGLE PHASE 230V/AC
FREQ.	50/60 HZ	50/60 HZ
GEN. REQ.	5 KVA WITH AVR CONTROL	5 KVA WITH AVR CONTROL
OUTPUT VOLTAGE	8-48V	8-48V
POWER	2200 VA	1600 VA
CURRENT	70AMP	50AMP
MAX DIA	315MM	160MM
WEIGHT	14KG	10KG
OPERATING TEMP.	-10°C TO +45°C	-10°C TO +45°C
MAIN CABLE LENGTH	3 METER	3 METER
WELDING CABLE LENGTH	3 METER	3 METER
WELDING	AUTO/MANUAL	AUTO/MANUAL
DATA RECORDING	NO	NO
AUTOMATIC VOLTAGE CONTROL	YES	YES
RESISTANCE CHECK	NO	NO
TEMPERATURE COMPENSATION	YES	YES
IP RATING	NO	NO
INBUILT GPS	NO	NO
WELDING ERROR DISPLAY ON SCREEN	YES	YES
WIRED PRINTER (GAS)	NO	NO
CLASSIFICATION	ISO 13950-2 CLASS B ISO 12176-2(P23USVAK_X)	ISO 13950-2 CLASS B ISO 12176-2(P22USVAK_X)



Standard Cartoon Packing with Machine, Scanner, Scrapper, Connector Pin 4.0mm & 4.7mm. (Calibration Report available on request)



Model	FUSTRO 315	FUSTRO 160
FOR USE	GAS	GAS
INPUT VOLTAGE	SINGLE PHASE 230V/AC	SINGLE PHASE 230V/AC
FREQ.	50/60 HZ	50/60 HZ
GEN. REQ.	5 KVA WITH AVR CONTROL	5 KVA WITH AVR CONTROL
OUTPUT VOLTAGE	8-48V	8-48V
POWER	2200 VA	1600 VA
CURRENT	70AMP	50AMP
MAX DIA	315MM	160MM
WEIGHT	14KG	10KG
OPERATING TEMP.	-10°C TO +45°C	-10°C TO +45°C
MAIN CABLE LENGTH	3 METER	3 METER
WELDING CABLE LENGTH	3 METER	3 METER
WELDING	AUTO/MANUAL	AUTO/MANUAL
DATA RECORDING	500 LOGS	500 LOGS
AUTOMATIC VOLTAGE CONTROL	YES	YES
RESISTANCE CHECK	YES	YES
TEMPERATURE COMPENSATION	YES	YES
IP RATING	IP65	IP65
INBUILT GPS	YES	YES
WELDING ERROR DISPLAY ON SCREEN	YES	YES
WIRED PRINTER (GAS)	YES	YES
CLASSIFICATION	ISO 13950-2 CLASS B	ISO 13950-2 CLASS B
	ISO 12176-2(P23USVAKDX)	ISO 12176-2(P22USVAKDX)

All images & specifications are subject to change without prior notice and are for reference purpose only.

Accessories

Alignment tool

Size : 50-160
Features : Straight 90° -45° -22.5°



Saddle Holder

Size : Up to 110



Squeeze off Tool

Size : Up to 110



<<<<< Start >>>>>
 Fusion No:0015/0018
 Fusion Date:05/01/2023
 Fusion Time:13:43:48
 Pipe NO. :1774
 Project NO. :8610
 Welder Code:Kushal12

<<<<< Start >>>>>
 Fusion No:0015/0018
 Fusion Date:05/01/2023
 Fusion Time:13:43:48
 Pipe NO. :1774
 Project NO. :8610
 Welder Code:Kushal12
 Manual Fusion
 Set Volt:25.6V
 Set Fuse Time:19 Second
 Set Cool Time:1 Minute
 Actual Volt:03.5
 Actual Fuse Time:0 Second
 Actual Cool Time:0:00 M:SS
 Current:00:00
 Total Energy:0000 KJ
 Compensation:YES
 Temperature:+25.8 C
 Power:240V/50Hz

<<<<< Start >>>>>
 Fusion No:0016/0018
 Fusion Date:05/01/2023
 Fusion Time:13:45:34
 Pipe NO. :1774
 Project NO. :8610
 Welder Code:Kushal12
 Manual Fusion
 Set Volt:25.6V
 Set Fuse Time:19 Second
 Set Cool Time:1 Minute
 Actual Volt:03.5
 Actual Fuse Time:0 Second
 Actual Cool Time:0:00 M:SS
 Current:00:00
 Total Energy:0000 KJ
 Compensation:YES
 Temperature:+25.8 C
 Power:240V/50Hz
 ERROR :
 Stop Process by User
 ##### GEO Data #####
 Latitude:00.000000
 Longitude:00.000000
 Print Date:18/01/2023
 Print Time:12:41:40
 Make : Kushal
 Model : EF315
 Serial No

Stop Process by User
 ##### GEO Data #####
 Latitude:00.000000
 Longitude:00.000000
 Print Date:18/01/2023



Sales Office

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-  Mr. Hardik Patel : +91 9820 453 549
-  anekplastics@gmail.com

Factory

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-  Kushal S. Rathod : +91 9879 777 123
-  kushalindustries11@gmail.com
-  www.kushalindustries.com



HDPE / PP / PP-R
PLASTIC PIPE
FUSION
EQUIPMENTS



**WE UNDERSTAND
HOW IMPORTANT
STRONG BONDING IS!**



**ONE OF INDIA'S
LEADING & LARGEST
MANUFACTURER OF
BUTT FUSION &
ELECTRO FUSION
MACHINE**



 **KUSHAL**
CRAFTED TO WELD BEST



About Us

Kushal Enterprise is India's leading manufacturer of HDPE / PP / PP-R Plastic Pipe Welding Equipments like Heater (Mirror), Butt Fusion (Manual and Hydraulic operation) and Electrofusion Welding Machines. Since past 22 Years of our existence, our steadfast focus has been providing BEST Standout features of our products:

- Easy to use
 - Long life
 - Sturdy design
 - Crack resistant
 - Light weight
- We offer different models as per Customers Requirements with:
- Ready Stock Material
 - On-time Dispatch
 - Easy Payment Options
 - Transparent Dealing
 - Excellent Product Packaging

Who We Are

Our manufacturing infrastructure is spacious and is supported by highly advanced tools and machineries. Different teams assigned for different processes of Design, Manufacture, Quality Check, and Support ensure that our products meet our internally set highest standards of quality.

We continue to focus on making the best quality products at most competitive prices and achieve highest customer satisfaction.

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Cnc Machine

VMC machine
5 AXIS

CNC Laser
Cutting Machine

CNC Bending
Machine

MIG Welding
Machine

Precise
Fabrication

All our products are

100% MADE IN INDIA.

This ensures that all parts and components are easily available through our dealer network and also directly from our factory.



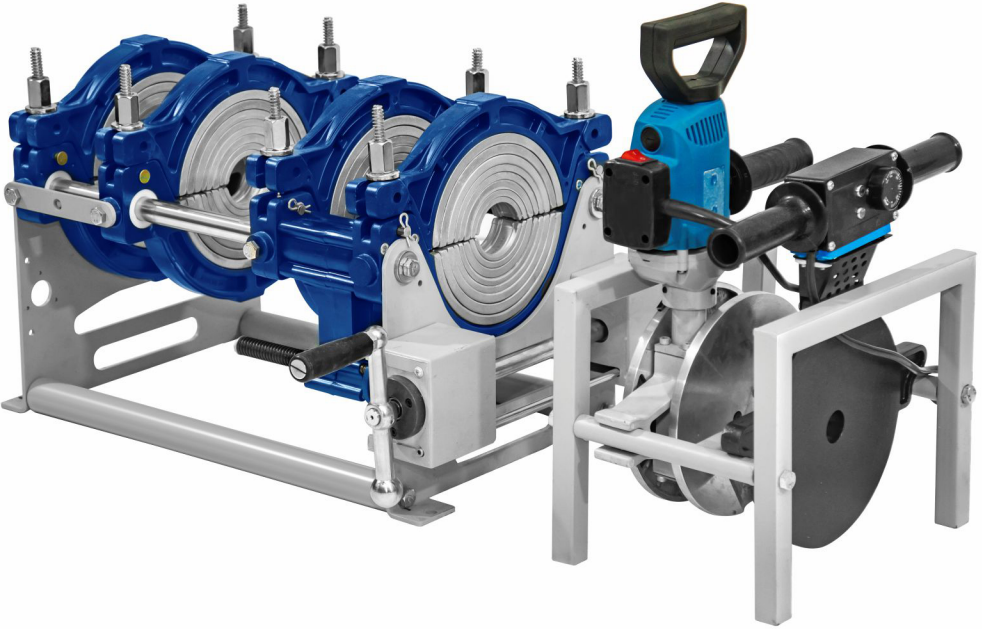
Application & Features :

- Suitable for butt fusion welding of plastic pipes and fittings made of PE, PP, and PVDF in construction site or workshop.
- Consists of basic frame, heating plate, and support for heating plate.
- Removable PTFE coated heating plate with inbuilt Thermostat temperature control system.
- Electric facer cutter with double cutting edge blades optional.
- It is made of lightweight and high strength material; simple structure and easy to operate.
- Use of high quality pressure casting allows low weight without compromising strength and performance, while providing extra strength.

Technical Specifications :



Model	P110	P160
Welding range (mm)	40.50.63.75.90.110.	50.63.75.90.110. 125.140.160
Heating Plate Max. Temp	270°C	270°C
Temp. Deviation in surface	< +5°C	< +5°C
Working voltage / Gen. Req.	220V 50Hz / 3kva	220V 50Hz / 3kva
Heating Plate Power	1.0 KW	2.2 KW
Facer Power	1.0 KW	1.0 KW
Net Weight Machine & Heater Support	18 KGS	20 KGS



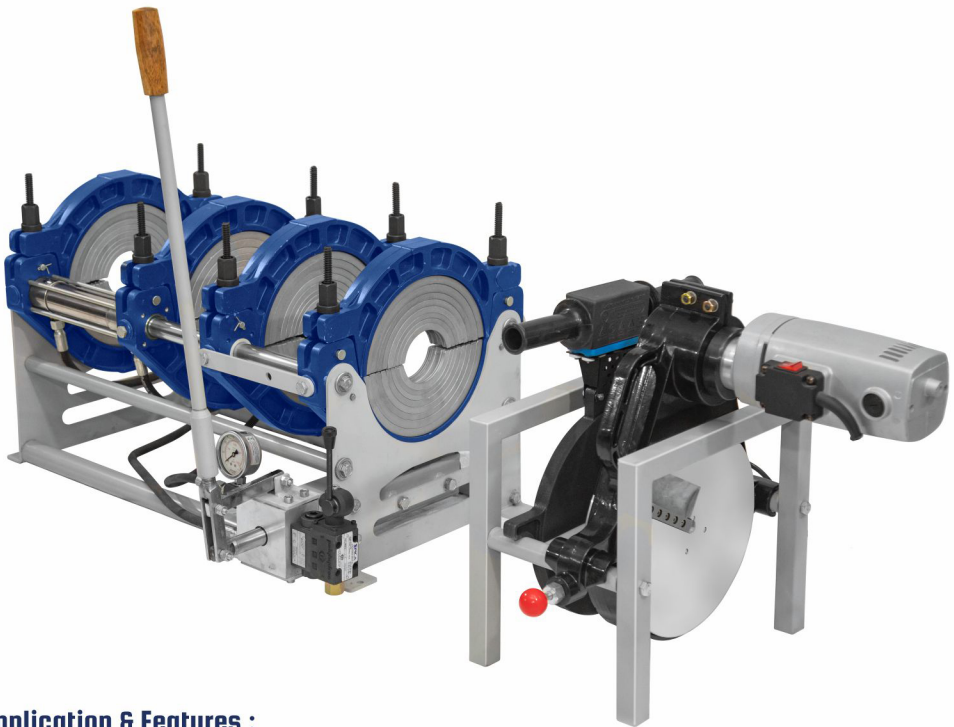
Application & Features :

- Easy Self Pressure Locking System. Suitable for butt fusion welding of plastic pipes and fittings made of PE, PP and PVDF in construction site or workshop.
- Consists of basic frame, heating plate, planning tool, and support (for planning tool & heating plate).
- PTFE coated heating plate with Thermostat Controller
- Electric facer cutter with double cutting blades.
- Low starting pressure ensures reliable welding quality of small pipes.
- It is made of lightweight and high strength material, simple structure and easy to operate.
- Use of high quality pressure casting allows low weight without compromising strength and performance, while providing extra strength when welding not perfectly round pipe.

Technical Specifications :



Model	R160	R200
Welding range (mm)	50.63.75.90.110. 125.140.160	63.75.90.110.125. 140.160.180.200
Heating Plate Max. Temp	270°C	270°C
Temp. Deviation in surface	< +5°C	< +5°C
Working voltage / Gen. Req.	220V 50Hz / 5kva	220V 50Hz / 5kva
Heating Plate Power	2.2 KW	2.2 KW
Facer Power	1.0 KW	1.0 KW
Net Weight Machine, Facer, Heater & Support	43 KGS	51 KGS



Application & Features :

- Suitable for butt fusion welding of plastic pipes and fittings made of PE, PP, and PVDF in construction site or workshop.
- Consists of basic frame, heating plate, planning tool, and support (for planning tool & heating plate) and hydraulic unit.
- Removable PTFE coated heating plate with inbuilt Digital temperature control system.
- Electric facer cutter with double cutting blades.
- Low starting pressure ensures reliable welding quality of small pipes.
- Use of high quality pressure casting allows low weight without compromising strength and performance, while providing extra strength when welding not perfectly round pipe.
- Hand pump hydraulic unit easy to use without power with accurate Analogue Pressure read out.
- Easy to read high accurate pressure gauge meter.

Technical Specifications :



Model	HP200	HP250	HP315
Welding range (mm)	63.75.90.110.125.140.160.180.200	90.110.125.140.160.180.200.225.250	90.110.125.140.160.180.200.225.250.280.315
Heating Plate Max. Temp	270°C	270°C	270°C
Temp. Deviation in surface	< +5°C	< +5°C	< +5°C
Working voltage / Gen. Req.	220V 50Hz / 5kva	220V 50Hz / 5kva	220V 50Hz / 5kva
Heating Plate Power	2.2 KW	2.6 KW	2.6 KW
Facer Power	1.0 KW	1.1 KW	1.1 KW
Net Weight Machine, Facer, Heater & Support	72 KGS	94 KGS	145 KGS

Application & Features :

- Suitable for but fusion welding of plastic pipes and fittings made of PE, PP, and PVDF in construction site or workshop.
- Consists of basic frame, heating plate, planning tool, and support (for planning tool & heating plate) and hydraulic unit.
- Removable PTFE coated heating plate with inbuilt Digital temperature control system.
- Electric facer cutter with double cutting blades.
- Low starting pressure ensures reliable welding quality of small pipes.
- Use of high quality pressure casting allows low weight without compromising strength and performance, while providing extra strength when welding not perfectly round pipe.
- Hydraulic unit with accurate Analogue Pressure read out.
- Hose pipe with Quick Release Couplings.
- Electric Hoist Crane for 630 (Optional)



Technical Specifications :

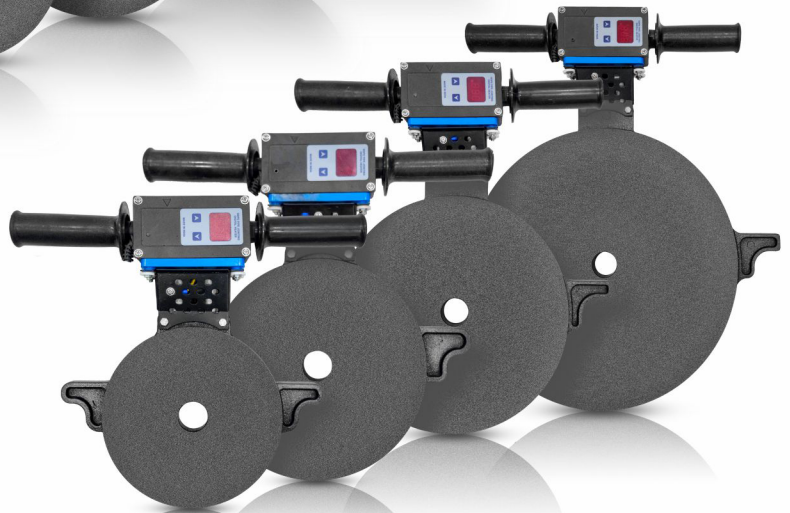


Model	G200	G250	G315	G450	G630	
Welding range (mm)	63-200	90-250	90-315	200-450	315-630	
Heating Plate Max. Temp	270°C	270°C	270°C	270°C	270°C	
Temp. Deviation in surface	< +5°C	< +5°C	< +5°C	< +5°C	< +5°C	
Working voltage/Gen. Req.	220V / 5kva	220V / 7.5kva	220V / 7.5kva	440V / 15kva	440V / 15kva	
Heating Plate Power	2.2 KW	2.6 KW	2.6 KW	6.5 KW	7.5 KW	
Facer Power	1.0 KW	1.1 KW	1.1 KW	1.1 KW	1.1 KW	
Net Weight	Machine, Facer, Heater & Support	62 KGS	84 KGS	135 KGS	265 KGS	474 KGS
	Hydraulic Unit	33 KGS		45 KGS		



**MANUAL
ANALOGUE
CONTROL
(MAC)**

**DIGITAL
TEMPERATURE
CONTROL
(DTC)**



Application & Features :

- Suitable for butt fusion welding of plastic pipes and fittings made of PE, PP, and PVDF in construction site or workshop.
- Inbuilt thermostat controller with LED indication. (MAC)
- PID-SMPS based digital temperature controller. Easy to replace by yourself. (DTC)
- No handle breaking problem extra tough high strength rigid handle design.
- Super smooth Teflon coated surface.
- Casted heating plate for faster heating.

Technical Specifications :






Model	110	160	200	250	315
Power	220V-230V	220V-230V	220V-230V	220V-230V	220V-230V
Watt	400	2200	2200	2600	2600
Net Weight (Kg.)	1.7	2.6	3.4	5	7.5
Gross Weight (Kg.)	2	3	4	6	9




Mfg. by

KUSHAL ENTERPRISE

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