

Product Range

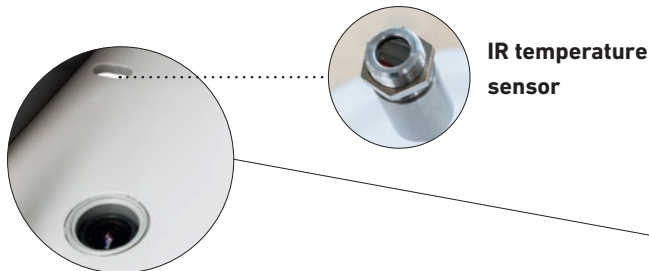
Automated infrared fusion machine
IR-110 A



IR-110 A

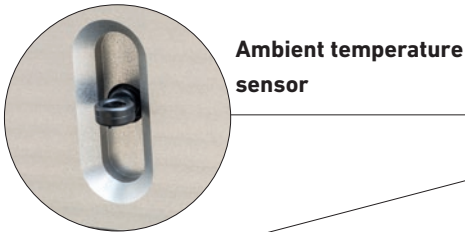
Peace of mind in quality of jointing

Pressure piping systems for industrial applications place high demands on mechanical stability, reproducibility and quality of fusion jointing. The IR-110 A is the new generation of infrared fusion machines by GF. Automation, intuitive handling and system security enable highest efficiency for installers and operators.



IR temperature sensor

Video camera



Ambient temperature sensor

12.1" touchscreen display

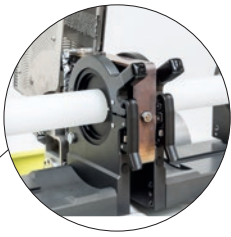
End caps & clamping inserts in high purity tray



Label printer, documents, brush, tools



Space for additional equipments



Automated heater unit



Automated facer unit

Automated clamping slide

Interfaces:

- 4 x USB
- Ethernet
- 230V output

Two-hand buttons for a safe operation

Integrated working table

Easy to clean and safe to use



Safety bar and removable shavings tray

Smart transportation



Transport case with integrated pallet

Specifications IR-110 A

Dimensions	d20 – d110 mm (½" – 4")
Materials	PVDF SYGEF PP grey PROGEF PE100 ecoFIT PP-n PROGEF Natural
Languages	English, German, Korean
Power supply	230V 50/60Hz, max. 2000W, integrated UPS (uninterruptible power supply)
Machine control	PLC (programmable logical controller)
Working temperature range	+5°C to +40°C
Fusion factor f_s	≥ 0.80
Fusion data storage	min. 2500 fusions (protocol, label and video files)
Weight machine/ incl. transport case	130kg / 250kg
Dimensions transport case L x W x H	1.0 x 0.8 x 1.35 m
Conformance/ standards	DVS 2007-6, DVS 2203-1
Compliance to	2006/42/EC (MD) + 2004/108/EC (EMC)
Applications	Fusion machine designed for industrial applications and clean room conditions
Purchase order number for fully equipped machine (with working table)	790.164.001

IR-110 A Automated Fusion Machine



IR-110 A Automated Fusion Machine

Model:

- Fully equipped automated infrared fusion machine for welding: PVDF SYGEF (Standard/Plus), PP grey PROGEF (Standard/Plus), PP-n PROGEF Natural, PE100 ecoFIT
- Dimension d 20-110 mm
- Automated facer, clamping slide and heater
- 4 USB interfaces, LAN Ethernet interface, 230V Output
- Integrated video camera
- User friendly touch-screen interface 12.1" with various languages
- 1-phase AC (50/60 Hz) 230V L/N/PE
- Fusion machine complete (1 pcs.)
- Transport box with integrated working table on pallet (1 pcs.)
- Shavings collection tray (1 pcs.)
- Clamping Inserts d 20-90 mm (8 pcs. per dimension)
- End caps PE d 20-110 mm (4 pcs. per dimension)
- Power supply cable 230V EU Standard (1 pcs.)
- Cleaning brush (1 pcs.)
- Torx key for facing blades (KW3) (1 pcs.)
- Label printer (1 pcs.)
- Instruction manual

d-d (mm)	Code	Weight (kg)
20 - 110	790 164 001	250.000



Clamping inserts

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d (mm)	Code	Weight (kg)	Pieces
20	790 132 051	0.108	1
25	790 132 052	0.106	1
32	790 132 053	0.104	1
40	790 132 054	0.100	1
50	790 132 055	0.095	1
63	790 132 156	0.085	1
75	790 132 157	0.087	1
90	790 132 158	0.064	1



Set of facing knives

- A set includes two facing knives. Each facing knife has four blades. The blade may be turned three times before it must be replaced.

d-d (mm)	Code	Weight (kg)	Pieces
20 - 110	790 132 061	0.007	2



Set of end caps

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d (mm)	Code	Weight (kg)	Pieces
20	790 131 030	0.040	4
25	790 131 031	0.010	4
32	790 131 032	0.088	4
40	790 131 033	0.005	4
50	790 131 034	0.005	4
63	790 131 035	0.023	4
75	790 133 036	0.095	4
90	790 133 037	0.028	4
110	790 133 038	0.180	4



Torx key

- For facing knives

Code	Weight (kg)
790 131 129	0.002



Power supply lead

Performance	Code	Weight (kg)	Pieces
230V	790 122 246	0.150	1

Accessories



Tangit KS Cleaner

- Special cleaner for plastic fusion connections in the material of PP, PE, PVDF and PB
- Suitable for Tangit Rapid. Must not be used for solvent cementing
- DVGW approved
- DW 5290 BR 0464

Size	Code	Weight (kg)
1 liter	799 298 023	0.872



Cleaning tissue KO-TON-R

Minimum order quantity 100 pieces

- This cleaning tissue is suitable for the cleaning of the welding zone of piping components, because it is lint free and clean room checked.

Code	Weight (kg)
790 122 085	0.005



Label Printer Brother P-touch 9700 PC

- Label 36 mm included, order Label 24 mm separately

description	Code	Weight (kg)	Pieces
Label Printer	790 131 064	4.000	1
Label 24 mm	790 131 065	0.100	1



Cleaning brush

Code	Weight (kg)
790 133 198	0.055

Complete systems, services and trainings

The one-stop-shop solution

GF Piping Systems is a solution provider in the piping systems market. This includes, in addition to the core products (pipes, fittings, valves, and fusion machines) service and customer training, such as certified welding courses and maintenance courses. The correct installation of our products is just as important as the quality of the products themselves.

Sales & rental pool

Sales companies worldwide, global and local rental pools

Total plastic solution

Over 70'000 products

Training

Trainings for welders, weld bead inspection and special maintenance

Service & maintenance

Worldwide maintenance centers, engineering services, after sales support

Worldwide at home

Our sales companies and representatives ensure local customer support in over 100 countries

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