

# IR-Plus Fusion Machines



The IR-Plus fusion machines comply fully with the strict EU Regulation 2002/95/EC.

The IR-Plus fusion machines from GF Piping Systems meet the highest demands in terms of fusion weld quality and purity. They are the fusion machines of choice in the microelectronic (semicon, photovoltaic) chemical process and life science industries as well as in biotechnology.

## Faster fusion times

The new generation of IR-63 Plus, IR-225 Plus and IR-315 Plus fusion machines now feature even faster fusion times, with the same high standard of safety. An added plus for our customers.

## Multifunctional display

The larger, monochrome display makes working with the IR-Plus machines even easier. And graphic illustrations (icons) supplement the menu guidance.

## New navigation field

The modern navigation field is clearly designed and guarantee ease of use.

## Practical data transfer

Another plus of the IR-Plus machines is the possibility of direct data transfer as well as individual data storage via USB interfaces.

Machines	Dimensions	Materials
IR-63 Plus with integrated remote fusion device	d20 – d63 mm	SYGEF Standard, SYGEF Plus, PROGEF Plus, PROGEF Natural, PROGEF Standard, PE 100
IR-225 Plus	d63 – d225 mm	SYGEF Standard, SYGEF Plus, PROGEF Plus, PROGEF Natural, PROGEF Standard, PE 100
IR-315 Plus only rental pool	d250 – d315 mm	SYGEF Standard, SYGEF Plus

# GF Piping Systems → worldwide at home

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

[www.piping.georgfischer.com](http://www.piping.georgfischer.com)



The technical data is not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

## Adding Quality to People's Lives

### Australia

Georg Fischer Pty Ltd  
Riverwood NSW 2210 Australia  
Phone +61(0)2 9502 8000  
[australia.ps@georgfischer.com](mailto:australia.ps@georgfischer.com)  
[www.georgfischer.com.au](http://www.georgfischer.com.au)

### Austria

Georg Fischer  
Rohrleitungssysteme GmbH  
3130 Herzogenburg  
Phone +43(0)2782 856 43-0  
[austria.ps@georgfischer.com](mailto:austria.ps@georgfischer.com)  
[www.georgfischer.at](http://www.georgfischer.at)

### Belgium/Luxembourg

Georg Fischer NV/SA  
1070 Bruxelles/Brüssel  
Phone +32(0)2 556 40 20  
[be.ps@georgfischer.com](mailto:be.ps@georgfischer.com)  
[www.georgfischer.be](http://www.georgfischer.be)

### Brazil

Georg Fischer Ltda  
04795-100 São Paulo  
Phone +55(0)11 5687 1311  
[br.ps@georgfischer.com](mailto:br.ps@georgfischer.com)

### China

Georg Fischer  
Piping Systems Ltd Shanghai  
Pudong, Shanghai 201319  
Phone +86(0)21 58 13 33 33  
[china.ps@georgfischer.com](mailto:china.ps@georgfischer.com)  
[www.cn.piping.georgfischer.com](http://www.cn.piping.georgfischer.com)

### Denmark/Iceland

Georg Fischer A/S  
2630 Taastrup  
Phone +45 (0)70 22 19 75  
[info.dk.ps@georgfischer.com](mailto:info.dk.ps@georgfischer.com)  
[www.georgfischer.dk](http://www.georgfischer.dk)

### GMST 6113/4 (5.08)

© Georg Fischer Piping Systems Ltd.  
8201 Schaffhausen/Switzerland, 2008  
Printed in Switzerland

### France

Georg Fischer SAS  
95932 Roissy Charles de Gaulle Cedex  
Phone +33(0)1 41 84 68 84  
[fr.ps@georgfischer.com](mailto:fr.ps@georgfischer.com)  
[www.georgfischer.fr](http://www.georgfischer.fr)

### Germany

Georg Fischer GmbH  
73095 Albershausen  
Phone +49(0)7161 302-0  
[info.de.ps@georgfischer.com](mailto:info.de.ps@georgfischer.com)  
[www.georgfischer.de](http://www.georgfischer.de)

### India

Georg Fischer Piping Systems Ltd  
400 076 Mumbai  
Phone +91 224007 2001  
[in.ps@georgfischer.com](mailto:in.ps@georgfischer.com)  
[www.georgfischer.in](http://www.georgfischer.in)

### Italy

Georg Fischer S.p.A.  
20063 Cernusco S/N (MI)  
Phone +3902 921 861  
[it.ps@georgfischer.com](mailto:it.ps@georgfischer.com)  
[www.georgfischer.it](http://www.georgfischer.it)

### Japan

Georg Fischer Ltd  
556-0011 Osaka.  
Phone +81(0)6 6635 2691  
[jp.ps@georgfischer.com](mailto:jp.ps@georgfischer.com)  
[www.georgfischer.jp](http://www.georgfischer.jp)

### Korea

Georg Fischer Piping Systems  
Guro-3 dong, Guro-gu, Seoul, Korea  
Phone +82(0)2 2081 1450  
Fax +82(0)2 2081 1453  
[kor.ps@georgfischer.com](mailto:kor.ps@georgfischer.com)

### Malaysia

Georg Fischer (M) Sdn. Bhd.  
40460 Shah Alam, Selangor  
Phone +60 (0)3 5122 5585  
[conne.kong@georgfischer.com](mailto:conne.kong@georgfischer.com)

### Mexico

Georg Fischer S.A. de C.V.  
Apodaca, Nuevo Leon  
CP66636 Mexico  
Phone +52 (81)1340 8586  
Fax +52 (81)1522 8906

### Middle East

Georg Fischer Piping Systems  
Dubai, United Arab Emirates  
Phone +971 4 289 49 60  
[info.export@georgfischer.com](mailto:info.export@georgfischer.com)  
[www.export.georgfischer.com](http://www.export.georgfischer.com)

### Netherlands

Georg Fischer N.V.  
8161 PA Epe  
Phone +31(0)578 678 222  
[nl.ps@georgfischer.com](mailto:nl.ps@georgfischer.com)  
[www.georgfischer.nl](http://www.georgfischer.nl)

### Norway

Georg Fischer AS  
1351 Rud  
Phone +47(0)67 18 29 00  
[no.ps@georgfischer.com](mailto:no.ps@georgfischer.com)  
[www.georgfischer.no](http://www.georgfischer.no)

### Poland

Georg Fischer Sp. z o.o.  
02-226 Warszawa  
Phone +48(0)22 313 10 50  
[poland.ps@georgfischer.com](mailto:poland.ps@georgfischer.com)  
[www.georgfischer.pl](http://www.georgfischer.pl)

### Romania

Georg Fischer  
Piping Systems Ltd  
020257 Bucharest - Sector 2  
Phone +40(0)21 230 53 80  
[ro.ps@georgfischer.com](mailto:ro.ps@georgfischer.com)  
[www.export.georgfischer.com](http://www.export.georgfischer.com)

### Russia

Georg Fischer Piping Systems  
Moscow 125047  
Tel. +7 495 258 60 80  
[ru.ps@georgfischer.com](mailto:ru.ps@georgfischer.com)  
[www.georgfischer.ru](http://www.georgfischer.ru)

### Singapore

Georg Fischer Pte Ltd  
528 872 Singapore  
Phone +65(0)67 47 06 11  
[sgp.ps@georgfischer.com](mailto:sgp.ps@georgfischer.com)  
[www.georgfischer.com.sg](http://www.georgfischer.com.sg)

### Spain/Portugal

Georg Fischer S.A.  
28046 Madrid  
Phone +34(0)91 781 98 90  
[es.ps@georgfischer.com](mailto:es.ps@georgfischer.com)  
[www.georgfischer.es](http://www.georgfischer.es)

### Sweden/Finland

Georg Fischer AB  
12523 Ålvsjö-Stockholm  
Phone +46(0)8 506 775 00  
[info.se.ps@georgfischer.com](mailto:info.se.ps@georgfischer.com)  
[www.georgfischer.se](http://www.georgfischer.se)

### Switzerland

Georg Fischer  
Rohrleitungssysteme (Schweiz) AG  
8201 Schaffhausen  
Phone +41(0)2476 535 30 26  
[ch.ps@georgfischer.com](mailto:ch.ps@georgfischer.com)  
[www.piping.georgfischer.ch](http://www.piping.georgfischer.ch)

### Taiwan

Georg Fischer Piping Systems  
San Chung City, Taipei Hsien  
Phone +886 2 8512 2822  
Fax +886 2 8512 2823

### United Kingdom/Ireland

Georg Fischer Sales Limited  
Coventry, CV2 2ST  
Phone +44(0)2476 535 535  
[uk.ps@georgfischer.com](mailto:uk.ps@georgfischer.com)  
[www.georgfischer.co.uk](http://www.georgfischer.co.uk)

### USA/Canada/Latin America/Caribbean

Georg Fischer LLC  
Tustin, CA 92780-7258  
Phone +1(714) 731 88 00  
Toll Free 800 854 40 90  
[us.ps@georgfischer.com](mailto:us.ps@georgfischer.com)  
[www.us.piping.georgfischer.com](http://www.us.piping.georgfischer.com)

### Export

Georg Fischer  
Piping Systems (Switzerland) Ltd.  
8201 Schaffhausen  
Phone +41(0)2476 535 30 03  
Fax +41(0)2476 535 28 93  
[info.export@georgfischer.com](mailto:info.export@georgfischer.com)  
[www.export.georgfischer.com](http://www.export.georgfischer.com)



## New IR-Plus Fusion Machines

IR-63 Plus  
IR-225 Plus  
IR-315 Plus



**GEORG FISCHER**  
PIPING SYSTEMS



**GEORG FISCHER**  
PIPING SYSTEMS

## ● Speed and quality in one



## Sophisticated in every detail

The name Georg Fischer has stood for reliability and durability for over 200 years. Our products guarantee quality, innovation and functionality. Our innovativeness is demonstrated perfectly in this new generation of IR-Plus fusion machines.

### Modern navigation field

The redesigned navigation field on the IR-Plus fusion machines IR-63, IR-225 and IR-315 is self-explanatory. Users are guided through the menu with blue arrow keys and a green enter button. The red stop button was brought more to the fore.

### User-friendly

#### IR-Plus WIN WELD software

Fusion logs can be easily downloaded from the fusion machines via the USB interfaces. These data can be write-protected stored and managed on a PC/notebook with the IR-Plus WIN WELD software.

### Unique IR-Plus quality

The fusion bead is significantly smaller with IR fusion than with conventional fusion methods. The joining path is controlled with user-independent reproducibility and the fusion bead is minimal, defined and does not obstruct the flow.

### Unique sensor

The room temperature sensor enables short fusion times while also ensuring high fusion quality.



### Strong design

The new navigation field makes work easier.



### Simple documentation

The IR-Plus WIN WELD software takes care of fusion weld documentation for you.



### Sophisticated solution

The room temperature sensor optimizes preheating temperature and cooling time.



### Perfectly clear

Graphic illustrations (icons) supplement the multilingual operator guidance.



### Direct communication

Data is transmitted directly to the printer via a USB interface.



### Practical data transfer

Two USB interfaces facilitate communication.

### Multifunctional display

Legibility has been greatly improved with the larger, monochrome display and the individually adjustable display lighting. The highest EMC requirements are satisfied.

The language-based user guidance is available in twelve languages. New in the selection of languages: Chinese, Japanese, Norwegian and Russian. The work steps are also supported with graphic illustrations (icons).

### Modern USB interfaces

Thanks to the two new USB interfaces, fusion data can be read directly from the internal memory via a USB memory stick and stored on a computer. A standard printer (e.g. PCL, EPSON FX or IBM Pro-Printer) which must be capable of emulation or a clean room label printer can also be connected via the USB interface.

### Your benefits at a glance:

- short welding time
- fusion factor over 0.9
- minimal fusion beads
- traceability warranted
- safe fusion at room temperatures of 5°C – 40°C
- global customer service and rental service
- fast USB interfaces
- easy software updates
- multilingual operator guidance supported with icons
- new languages: Chinese, Japanese, Norwegian, Russian