

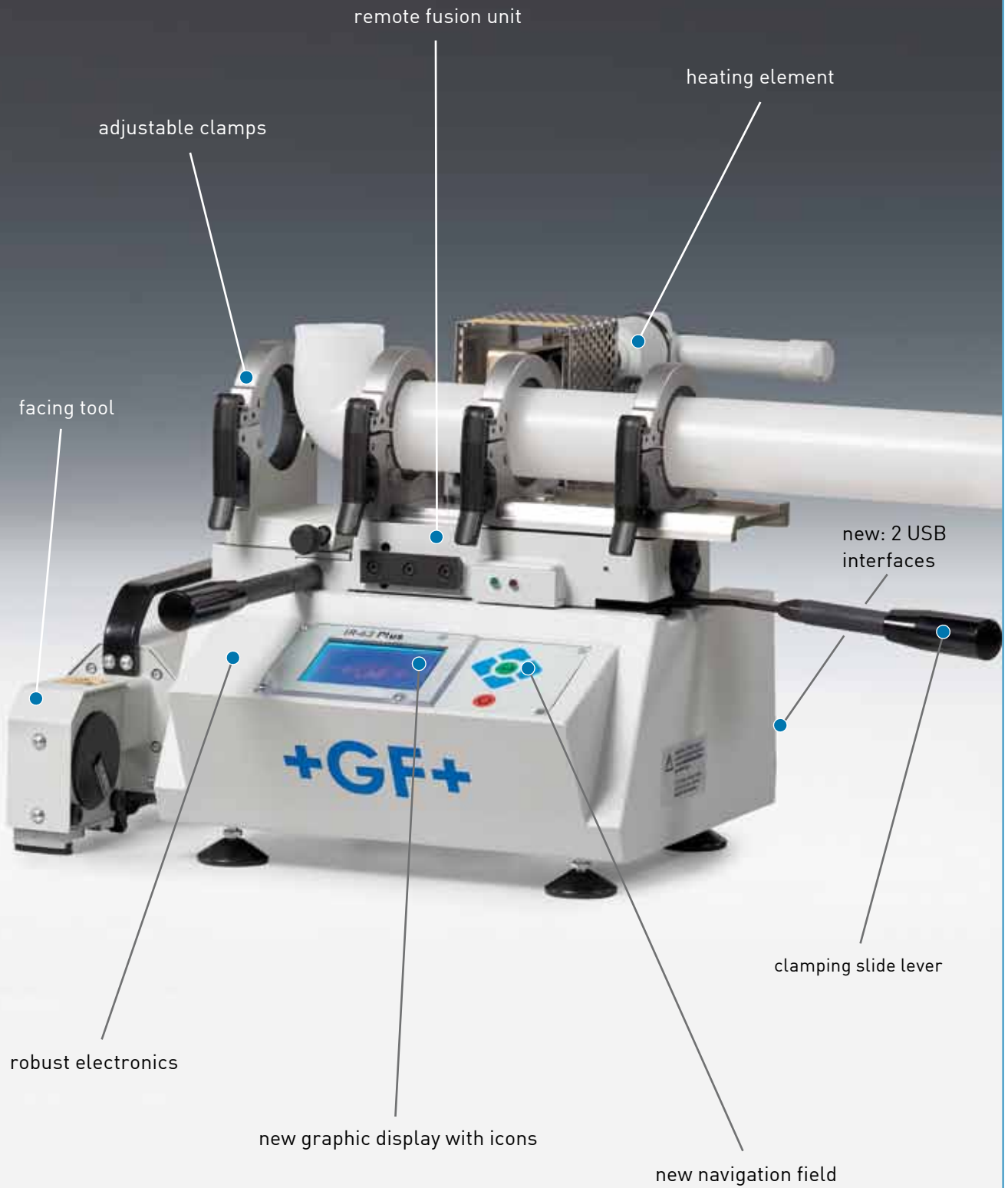


Product Specification

IR Plus Fusion Machines

The Plus of IR Fusion

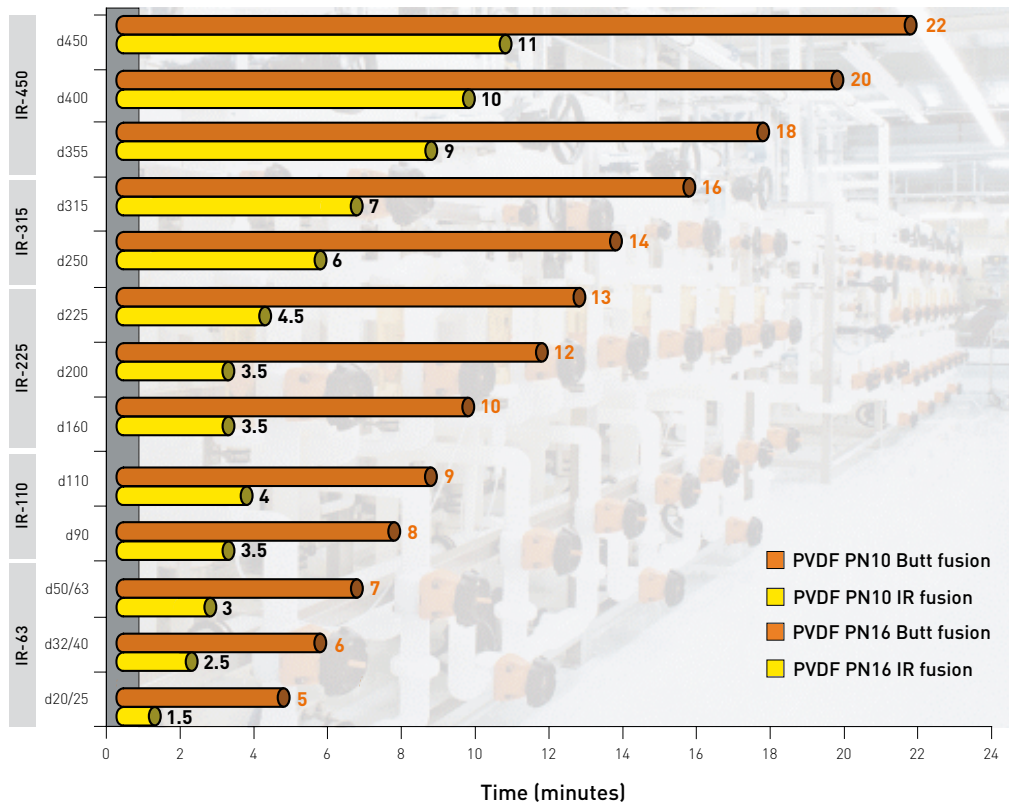
● Speed and quality in one



IR-Plus Product Specification

Fusion Technology	<p>Non-contact radiant heating Jointing pressure produced by overlap distance Software controlled, reproducible and monitored fusion and cooling process Cooling process determined by fusion zone temperature via infrared sensor (IR225/315-Plus) Remote fusion unit (IR63-Plus) Pre-programmed and key-protected fusion parameters Fusion protocol storage of 2500 fusions with unique fusion numbers Fusion factor ≥ 0.90 Fusion + cooling time typically between 38% and 62% of conventional butt-fusion (DVS 2207) User guidance in more than 12 languages with graphic icons Integrated error recognition Automated maintenance intervals World-wide welder installation training and certification programme World-wide weld-bead inspection training and certification programme</p>										
Piping Material	<p>SYGEF Plus (PVDF HP) SYGEF Standard (PVDF Standard) PROGEF Plus (PP-H CDB) PROGEF Natural (PP Natural) PROGEF Standard / DEKAPROP / Beta PP (β-PP-H) PE100 / HDPE ECTFE PN10 PFA Sch40</p>										
Dimension	<table border="0"> <tr> <td>IR-63 Plus</td> <td>d20 – d63 (1/2" - 2")</td> </tr> <tr> <td>IR-110 Plus</td> <td>d20 – d110 (1/2" - 4")</td> </tr> <tr> <td>IR-225 Plus</td> <td>d63 – d225 (2" - 9")</td> </tr> <tr> <td>IR-315 Plus</td> <td>d225 – d315 (9" - 12")</td> </tr> <tr> <td>IR-450</td> <td>d315 – d450 (12" - 18")</td> </tr> </table>	IR-63 Plus	d20 – d63 (1/2" - 2")	IR-110 Plus	d20 – d110 (1/2" - 4")	IR-225 Plus	d63 – d225 (2" - 9")	IR-315 Plus	d225 – d315 (9" - 12")	IR-450	d315 – d450 (12" - 18")
IR-63 Plus	d20 – d63 (1/2" - 2")										
IR-110 Plus	d20 – d110 (1/2" - 4")										
IR-225 Plus	d63 – d225 (2" - 9")										
IR-315 Plus	d225 – d315 (9" - 12")										
IR-450	d315 – d450 (12" - 18")										
Pre-fusion treatment	<p>Cleaning with Tangit KS and lint-free tissue (KO-TON-R) Facing by integrated facing tool Airflow around fusion machine maximum 0.2 m/s</p>										
Weld bead	Typically 50% smaller than conventional butt-fusion (DVS 2207)										
Post-fusion treatment	<p>Software controlled cooling phase No additional treatment after cooling phase complete</p>										
Fusion Documentation	<p>Print-out of 2 identical labels for labelling of piping system and/or isometric drawing</p> <ul style="list-style-type: none"> • Date • 2 Joint numbers (1 fixed, 1 user selectable) • Machine number • Process status symbol (OK / NOK) • Welder / supervisor visa <p>Print-out of fusion protocol via A4 printer</p> <ul style="list-style-type: none"> • Date • Time • Machine number • 2 Joint numbers (1 fixed, 1 user selectable) • Operator • Worksite • Process status (OK / NOK) • Chosen parameter (material, size, series, PN, wall thickness) • Process parameters (overlap and facing distance, temperatures, times) • Confirmation and signature <p>Electronic record downloadable, write protected stored and administered via WIN WELD software package for PC via USB interface</p>										
Testing and Inspection	<p>Sample fusions one per job site and dimension Weld-bead inspection as per GF guidelines Weld-bead inspection as per DVS control document</p>										
Conformances/Standards	<p>DVS 2207-6 (2003) SEMI F57</p>										
Main applications	<p>Alternative to conventional butt-fusion in applications where purity, weld-strength, traceability and speed of installation are imperative. Typical market segments include Semiconductor/Microelectronics, Chemical Processing and workshop pre-fabrication.</p>										

IR Plus fusion times in comparison with butt fusion (acc. to DVS 2207-15)



The technical data are not binding and not expressly warranted characteristics of the goods. They are subject to change. Please consult our General Conditions of Supply.

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