

Fast and high performance electric rail welding heads range



Welding of all types of rail

Automated system for single operator use

Welding head integrated in a standard size container + ISO 20' fastening







FLASH-BUTT RAIL WELDING



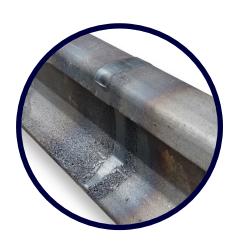
Flash-Butt Welding System range - Your benefits

- Range of Geismar electric rail welding heads for:
 - welding all types of rail (Vignole rail and grooved rail for urban networks)
 - welding of short rails to long welded rails thanks to powerful pulling and forging systems
 - performing an enclosure weld during de-stressing operations to free up the traffic lane (FLASH1200)
 - performing quick welds (less than 200 seconds), with an efficient energy supply system
- Automated process allowing one single operator to perform welding operations
- Universal mount capable of holding different types of electrodes depending on the rails to be welded and equipped with a high-performance cooling circuit
- Electrodes designed to prevent any rail core damage
- Welding heads with pulling forces adapted to the actual on-site needs. These forces make it possible to move long bars that are not placed on rollers (see "Maximum bar pulling length" in the table on the next page)

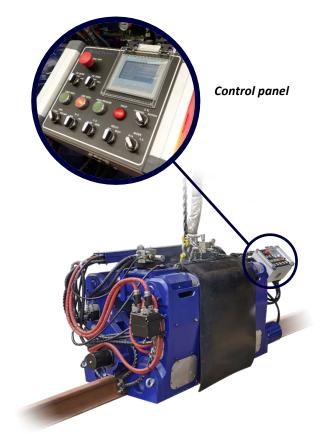
- Rail clamping device designed to correctly hold the rails during pulling and forging operations, without any risk of slipping (up to 3,000 kN - FLASH1200)
- Specific software, WPS (Weld Process Software), ensuring the automatic welding process all along the different stages. Parameters are recorded in real time and can be transmitted via a modem
- Recording of welding parameters, allowing the creation of a custom library of welding rails
- Operation via an ergonomic remote-controlled panel fitted on the welding head



Welding electrodes and universal mount



Result after welding and deburring







Flash-Butt Welding System range - Features			
FLASH600	FLASH850	FLASH1000	FLASH1200
150 kVA	240 kVA	240 kVA	240 kVA
1:60	1:60 & 1:54	1:60 & 1:54	1:60 & 1:54
600 kN	800 kN	1,000 kN	1,200 kN
1,450 kN	1,650 kN	2,500 kN	3,000 kN
35 mm/s	35 mm/s	40 mm/s	55 mm/s
3.3 in (85 mm)	3.3 in (85 mm)	3.9 in (100 mm)	5.9 in (150 mm)
7,055 lbs (3,200 kg)	7,385 lbs (3,350 kg)	8,818 lbs (4,000 kg)	9,920 lbs (4,500 kg)
820 ft (250 m)	1,148 ft (350 m)	1,640 ft (500 m)	2,625 ft (800 m)
-	-	-	√
integrated	integrated	integrated	Integrated and independent
-	-	-	3.3 in (85 mm)
2.5 to 3 minutes			
Vignole and groove from 24 to 50 lbs/ft (36 to 75 kg/m)			
Flash-butt welding			
Adjustable and isolated suspension			
Voltage / Welding current / Displacement / Force			
EN 14587-2 / 2006/42/EC			
238 x 100.4 x 94.5 in (6,038 x 2,550 x 2,400 mm)			
Up to 36,376 lbs (16,500 kg), depending on the welding head			
	FLASH600 150 kVA 1:60 600 kN 1,450 kN 35 mm/s 3.3 in (85 mm) 7,055 lbs (3,200 kg) 820 ft (250 m) - integrated - Vignole ar	FLASH600 FLASH850 150 kVA 240 kVA 1:60 1:60 & 1:54 600 kN 800 kN 1,450 kN 1,650 kN 35 mm/s 35 mm/s 3.3 in (85 mm) (85 mm) 7,055 lbs (3,200 kg) (3,350 kg) 820 ft (250 m) (350 m) - - integrated integrated - - Vignole and groove from 2 Flash-but Adjustable and is Voltage / Welding current EN 14587-2 238 x 100.4 x 94.5 in (6	FLASH600 FLASH850 FLASH1000 150 kVA 240 kVA 240 kVA 1:60 1:60 & 1:54 1:60 & 1:54 600 kN 800 kN 1,000 kN 1,450 kN 1,650 kN 2,500 kN 35 mm/s 35 mm/s 40 mm/s 3.3 in (85 mm) (85 mm) (100 mm) 3.9 in (100 mm) 7,055 lbs (3,200 kg) (3,350 kg) (4,000 kg) 8,818 lbs (3,200 kg) (4,000 kg) 820 ft (250 m) (350 m) (500 m) (500 m) integrated integrated integrated integrated Vignole and groove from 24 to 50 lbs/ft (36 Flash-butt welding Adjustable and isolated suspension Voltage / Welding current / Displacement EN 14587-2 / 2006/42/EC 238 x 100.4 x 94.5 in (6,038 x 2,550 x 2,



Indicative values may vary according to site conditions





Welding container - Your benefits

- 20 ft ISO container type packaging using a mechanical interface with the carrier vehicle (twistlock standards)
- Radio-controlled handling arms allowing to bring the welding head into working position over a wide area: 180° rotation with a range of 142 in (3,600 mm)
- Welding head suspension granting easy rotation for rail welds across the welding container
- Powerful cooling unit to optimize the welding cycle time

Container on road-rail truck

- Recognized expertise in the field of road-rail trucks with a 32-tonne carrier
- Specific provisions to ensure safe road and rail travel
- O Stabilizers for safe welding in all working conditions



Container on rail trailer

- Motorized railway trailer, allowing slow movement between each weld
- Standard rail trailers adapted to the applicable regulations or motorized lorry systems
- Radio-controlled travel



Container on track motor car

- Recognized expertise in the field of track motor cars
- Fully self-contained unit complying with the applicable regulation



Container-based installation

- Installation of the container on concrete blocks or on a secure structure that can be fastened with twistlocks
- The welding rails can be arranged longitudinally to the container, passing underneath or transversely by orienting the welding head



Road-rail welding loader

- Welding head installed at the end of a road-rail loader arm
- A generator towed by the road-rail loader powers the welding head



