

Forge Welders

Bring welding solutions for continuous-rod strings directly to the wellsite

Applications

- Installing continuous-rod string
- Adjusting the length of continuous-rod string
- Welding pin ends and fish pins
- Delivering continuous-rod strings using the heavy-duty universal forge welder (UFW) equipped with the Weatherford COROD® transport trailer

Features and Benefits

- Advanced rod heating, aligning, and forging processes enhance the performance and consistency of the welds.
- Nondestructive testing (NDT) equipment is included to perform weld inspections and control quality.

Tool Description

Weatherford forge welders enable welding of COROD continuous-rod strings in the field. These efficient and time-saving forge welders use four primary systems, including forge, air, electrical, and oxyacetylene systems. The forge welders use oxygen and acetylene to heat different pieces of COROD continuous rod and a mechanical thread to force the heated pieces together. This welding process produces exceptionally strong, smoothly welded joints for all grades and sizes of COROD continuous rod.

The forge welders exceed industry safety standards using heating, aligning, and forging processes that minimize the potential for personnel injury. Rigorous operating procedures and NDT equipment result in high-quality and high-performance welds that meet all required specifications. All forge welders support daytime and nighttime operation.

Weatherford offers forge welders in four configurations: the portable forge welder (PFW), the trailer UFW, the light-duty truck UFW, and the heavy-duty truck-mounted UFW. A Weatherford representative can determine the proper forge welder configuration for specific client needs.

The PFW is a self-contained and modular welding unit that can be fitted to mount on a flatbed trailer or a truck deck. The compact PFW can also be used as a standalone unit when mounted on the Weatherford Mobile Gripper™ unit and Corig® 50 unit. The PFW can be installed in minutes at any desired spot on the lease, and it leaves no environmental footprint after the job is finished.

The trailer UFW is a self-contained welding unit mounted on a single or tandem axle trailer. The unit is hauled using a light-duty truck and can be set up quickly once spotted on the lease.



The PFW can be mounted on the Weatherford Mobile Gripper unit, the Corig® E50 unit, a truck, or a flatbed trailer for added convenience.



The UFW can be mounted on a trailer for fast mobilization and deployment.



The light-duty truck UFW houses the welding system in the cargo bed of the truck.



The heavy-duty truck UFW can haul COROD continuous rod to wellsites and provide welding capabilities in the field.



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Tool Description (continued)

The light-duty truck UFW is a self-propelled welding unit mounted on a rolling bed of a light-duty truck. The rolling bed enables the welding system to be mobilized quickly for efficient welding operations.

The heavy-duty truck-mounted UFW is a self-contained and self-propelled welding unit capable of hauling COROD continuous rod to the wellsite. When paired with the Weatherford COROD transport trailer, it is capable of hauling and delivering up to 19,000 lb (8,618 kg) of continuous rod.

Specifications

Configuration	Portable Forge Welder	Trailer UFW	Light-Duty Truck UFW	Heavy-Duty Truck UFW
Total weight				
Diesel powered	2,500 lb (1,134 kg)	2,982 lb (1,353 kg)	—	67,320 lb (30,600 kg)
Gas powered	2,250 lb (1,021 kg)	—	9,634 lb (4,370 kg)	—
Overall dimensions				
Length	6 ft, 6 in. (1.98 m)	14 ft, 4 in. (4.37 m)	21 ft (6.4 m)	31 ft, 7 in. (9.63 m)
Width	2 ft, 9 in. (0.84 m)	6 ft, 8 in. (2.03 m)	6 ft, 5 in. (1.96 m)	8 ft, 2 in. (2.49 m)
Height	7 ft, 6 in. (2.29 m)	6 ft, 8 in. (2.03 m)	7 ft, 8 in. (2.34 m)	12 ft, 2 in. (3.71 m)
Compatibility				
Material metallurgy	1536, 4120, and 4320	1536, 4120, and 4320	1536, 4120, and 4320	1536, 4120, and 4320
Supported COROD types	3/4 to 1-5/32 in. (19.1 to 29.4 mm)	3/4 to 1-5/32 in. (19.1 to 29.4 mm)	3/4 to 1-5/32 in. (19.1 to 29.4 mm)	3/4 to 1-5/32 in. (19.1 to 29.4 mm)
Supported COROD sizes	Round, semi-elliptical	Round, semi-elliptical	Round, semi-elliptical	Round, semi-elliptical
Rod hauling				
Capacity	—	—	—	19,000 lb (8,618 kg)

* COROD is a registered trademark of Weatherford in the US, the Russian Federation, Argentina, Australia, Canada, Colombia, Kazakhstan, Mexico, Oman, Romania, and Venezuela. Corig is a registered trademark of Weatherford in the US.

