GOLDSCHMIDT
Smart Rail Solutions



HYDRAULIC TRIMMING UNITS
U SERIES

FAST AND RELIABLE HOT WORKING

All trimming units made by Goldschmidt are easy to use. Whatever the intended application, we have the right weld trimmer and associated drive unit available for you.

The hydraulic trimming unit comprises a weld trimmer with shearing blades and a drive unit. You can combine your required configuration according to the module system principle. Our trimming units are ideal for removing excess weld metal on flat bottom, grooved and crane rails. The lightweight and long-lasting weld trimmers ensure safe and rapid working based on the rail profile. This reduces the workload required for any subsequent grinding work.



WORKING PRINCIPLE

The weld trimmer is equipped with two exchangeable **shear blades** 1 shaped to the rail section. Two parallel **hydraulic cylinders** 2 drive the blades towards each other, cutting off the excess weld metal from both sides. The cutting height is limited by the **guide shoes** 3, which are located under the rail head. The unit is operated by a **4/3 control valve** 4. Hydraulic pumps with electric motor or internal combustion engine, with battery drive or hand pump can be used as the **drive unit** 5.



Figure: Weld trimmer type U-L 4 with quick release connector and separate drive unit CPU 520 +S®

WELD TRIMMERS U-L SERIES

All U-L series weld trimmers are manufactured in ultra-light construction. The weight of the weld trimmer is reduced by the use of special high-strength materials. This relieves the load on the welding crew.

Weld trimmer type		U-L 4	U-L W	U-L S	U-L RK
Number of guide shoes		4	4	4	4
Dimensions (mm)	Length	735	735	735	785
	Width	380	450	352	452
	Height	220	220	225	215
Weight (kg)		33,5[1)]	37.5[1)]	28.5[1)]	39[2)]
Force (kN)		200	200	200	200
Working pressure (bar)		520	520	520	520
Stroke (mm)		150	150	150	150
Shear blade type		A, B	A, B	A, B	A, B, C
Rail type					
Wide gap		✓	✓	×	✓

[1)] Weight with guide shoes but excluding shear blades, approximate details
[2)] Weight excluding guide shoes, excluding shear blades, approximate details

Weld trimmer type U-L RK

Depending on the rail type, exchangeable guide shoes have to be inserted:

- VK for flat bottom rails and crane rails
- R for grooved rails (except profile Ph37a; guide shoe type Ph37a required here)
- The associated stop elements ensure cutting to profile and the guides are prevented from twisting during the trimming operation for all types of rail profile





DRIVE UNITS

We are able to offer you a variety of drive units. Whether it's the stable twin piston hand pump in an aluminium case, compact power unit with electric motor or high-performance hydraulic unit with electric motor or internal combustion engine or power units with battery, the choice is all yours.

Drive unit	Conveying capacity (l/min)	Quick release connector	Separate floor-type unit	Hose length (m)	Weight (kg)
1 Hand pump, coupled	Depends on user			0.6	10.8
2 4-stroke motor, Honda (3 kW)	1.8	✓	✓	7	34
3 AC motor (1.5 kW, 230 V)	1.8	✓	✓	7	38
4 Three-phase motor (1.5 kW, 230/380 V)	1.8	✓	✓	7	34
5 Hydraulic unit CPU 520 +S® (Direct current, battery) (1.5 kW, 12 Ah/56 V)	1.5	✓	✓	7	23 (without battery)

1



2



3



4



5

POWERED BY EGO





2-IN-1 WELD SHEAR U-C 4 +S®

The U-C 4 +S® weld shear combines the robustness and power of the conventional shearing devices in the U-L series with the advantages of an integrated battery drive. This means that less equipment is required on the construction site. The shearing can be carried out safely, quickly and reliably at the touch of a button. Up to 40 shearing operations are possible per battery charge. The charging time of just 75 minutes for a 12 Ah battery ensures rapid deployment.

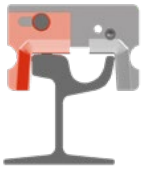
SPECIFICATIONS

Dimensions (L x W x H)	847 x 455 x 322 mm
Weight	45 kg (without battery, without shear blades)
Motor	Battery drive
Power	1.5 kW
Battery	12 Ah / 56 V, 1 piece
Force	180 kN
Rail type	Flat-bottom rail
Gap width	Up to 75 mm / 90 mm (Thermit® Head Repair, 150 mm stroke)

POWERED BY EGO™

SHEAR BLADES

The shear blades are designed to fit the rail profile. The cutting edges are made of wear and heat-resistant metal and can be used for long periods of time.

Shear blade type	A	B	C
			
Rail type			
Weight/pair (kg)	8.0	4.5	7.5
Features	Trimming off the excess weld metal on the rail head and risers on the rail foot	Trimming off the excess weld metal on the rail head	Adjustable, trimming off the excess weld metal on the rail head



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