

Frog Profile Grinder (05900-05950)

Rail Welding Equipment



The Pandrol Frog/Profile Grinder is a lightweight and highly precise grinding machine, purpose-built for grinding frogs and finishing field welds. With its ergonomic roll-over design, the tool allows operators to restore rail profiles with accuracy and minimal strain. It offers efficient, on-site versatility with an optional detachable outrigger specifically for frog grinding.

For added safety, a flap-type spark guard is included to prevent sparks from reaching surrounding combustible materials. Designed for use in demanding rail environments, the Frog/Profile Grinder provides consistent results while prioritising operator comfort and workplace safety.

→ TECHNICAL FEATURES

Ergonomic roll-over design

The grinder features a roll-over mechanism that allows for accurate grinding to the original rail profile while reducing physical strain on the operator.

Optional detachable outrigger

Designed to support various tasks such as tamping, asphalt cutting, and concrete breaking with a single tool by simply switching accessories.

Flap-type spark guard

An integrated flap guard helps contain sparks during grinding operations, protecting nearby combustible materials and enhancing on-site safety.

Lightweight construction

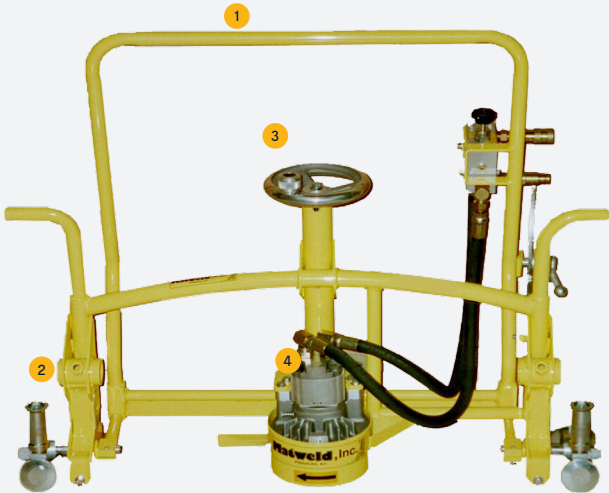
Despite its robust performance, the grinder weighs only 85 lbs (38.5 kg), making it easier to transport and handle during demanding maintenance operations.

Lightweight construction

With a hydraulic input of 10 GPM at 2,000 PSI, the grinder delivers a rotation speed of 4,000 RPM, ensuring powerful material removal and a smooth surface finish.

→ ADVANTAGES /

- The ergonomic roll-over feature enables consistent, precise grinding, helping crews replicate the original rail profile without fatigue or awkward positioning.
- Optional outrigger adds operational flexibility, allowing teams to switch easily between general rail grinding and detailed frog work without needing multiple tools.
- Lightweight frame improves transport and handling, reducing setup time and making it easier to operate in the field with limited manpower.
- Built-in spark guard reduces fire hazards on site, increasing safety, especially in dry or high-risk environments with adjacent combustible materials.



→ COMPONENTS /

- 1. Operator handles
- 2. Roll-over frame
- 3. Vertical adjustment handwheel
- 4. Hydraulic motor and circuit

→ SPECIFICATIONS /

Technical data	
Description	Frog-Profil Grinder
Item number	05900-05950
Flow	10 gpm (38 lpm)
Pressure	2000 psi (140 bar)
Dimensions	40" x 16" x 34" (101,6 x 40,6 x 86,4 cm)
Weight	85 lbs (38,5 kg)
Rotational Speed	4000 RPM

Accessories	
05999	Frog grinding outrigger
02199	Grinding stone

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