

SL-15.02

Portable grinding and lapping machine for working sealing surfaces, in gate valve housings, at gate wedges, swing-checks and flanges of all kinds.

#27907

The SL-15.02 is a modern, lightweight (one-man-operation) and rugged machine for operation on-site or in the workshop. In the basic execution the machine is shipped only with grinding tools. Lapping equipment is also available as an option.

Working range:	DN 40–300 (1 ½" – 12")
Immersion depth:	600 mm (23.6") (other immersion depths upon request)
Minimum distance between sealing surfaces:	41 mm (1.6")
Drive:	pneumatic, electric, battery-powered
Reference:	1" (inch) = 25,4 mm (millimetres) 1 mm (millimetre) = 0.039370078740157477" (inches)

EFCO SL-15.02 can be applied independently of:

- thickness and hardness of the sealing surfaces,
- mounting position of the valve (horizontal, vertical),
- shape of valve (with or without cover flange, oval-shaped or round).

The universal mounting system of this machine allows:

- safe and fast clamping,
- easy handling,
- bilateral installation and quick replacement of the drive motors,
- easy adjustment of the required working (immersion) depth.

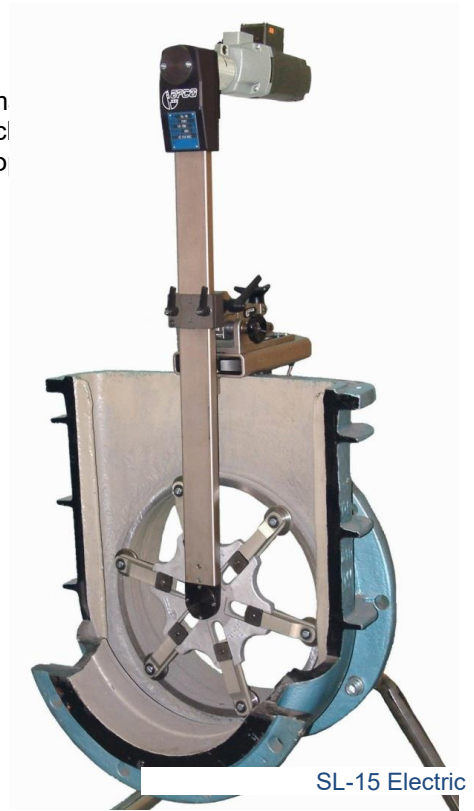
The SL-15.02 is equipped with various planet-wheels for the requested working range as well as radial adjustable planet-arms to carry the grinding or lapping discs (planets).

For exact alignment of the machine, the rocker and machine arm are equipped with lateral and height adjustment. Thus, all necessary adjustment functions are integrated in the clamping system of the machine.

The machine uses hardened, lapped grinding discs and spindles with self-adhesive abrasive paper or foil rings for optimal cross-hatching results. The rotation of the planet wheel induces friction-driven disc rotation, enhancing surface quality. Maximum material removal rates are achieved with premium self-adhesive abrasives and oil-soluble boron carbide-based lapping pastes.

GSS high-performance grinding spindles are specially designed for rapid removal of coarse damage, even in hot or chemically aggressive environments. High-quality materials, a powerful motor, and low-wear tools ensure a long service life. With versatile tool systems and accessories, the machine adapts flexibly to a wide range of applications.

Delivery includes a wheeled carrying case, a selection of consumables, and operating manuals for immediate use.



SL-15 Electric



SL-15 Battery

November 03, 2025

Scope of Supply

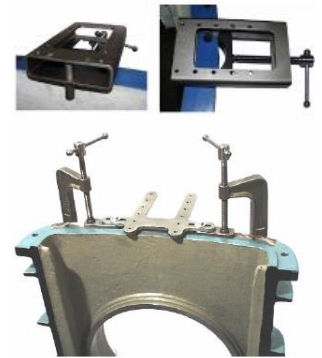
- 1 pc. Electric drive motor, 230 V/50 Hz (1150 watt)
- Alternatively:
- 1 pc. Pneumatic motor:, 830 Watt
Air consumption: 16.5 l/s (5–7 bar)
- Alternatively:
- 1 pc. Battery drive (18 V)
Incl. 2 batteries and charger

- 1 pc. Machine arm for immersion depths (Tt) up to 600 mm (23.6")
- 1 pc. Standard non-digital rocker

Clamping system

- 1 pc. Clamping block (tension block)
Allows easy, stable, and universal mounting of the machine also on flangeless gate valves.

- 1 pc. Flange mounting system consisting of:
 - 1 Base plate
 - 2 Clamping lashes
 - 2 Special screw clamps



Clamping block (above)
and screw clamps (below).

Grinding discs, planet-wheels for working range DN 40–DN 300

- 1 pc. Smooth grinding disc for DN 40 (2") [ø 55 mm (2.2")]
- 1 pc. Smooth grinding disc for DN 50 [ø 65 mm (2.6")]
- 1 pc. Planet-wheel for DN 65 [ø 95 mm (3.7")]
- 1 pc. Planet-wheel DN 80–225 (3"- 9")
- 3 pcs Planet arm type 1S
- 3 pcs Planet arm type 1M
- 3 pcs Planet arm type 1L
- 1 pc. Planet-wheel DN 200–450 (8"- 18")
- 6 pcs Planet arm type 2S

Grinding spindles

- 3 pcs Grinding spindle ø 30 mm (1.2")
- 6 pcs Grinding spindle ø 50 mm (2")
- 6 pcs Grinding spindle ø 80 mm (3.1")

CBN-coated High-Performance grinding spindles EFCO GSS

- 6 pcs GSS grinding spindles ø 50 mm (2")



Drive, grinding discs, planet-wheels and accessories in carrying case.

Abrasives (self-adhesive grinding paper rings, P=grain size)

- | | | | |
|---------|-------------|------|---------------|
| 160 pcs | Paper rings | P80 | ø30 mm (1.2") |
| 240 pcs | Paper rings | P80 | ø50 mm (2") |
| 50 pcs | Paper rings | P80 | ø55 mm (2.2") |
| 50 pcs | Paper rings | P80 | ø65 mm (2.6") |
| 80 pcs | Paper rings | P80 | ø80 mm (3.1") |
| 50 pcs | Paper rings | P280 | ø30 mm (1.2") |
| 100 pcs | Paper rings | P280 | ø50 mm (2") |
| 25 pcs | Paper rings | P280 | ø55 mm (2.2") |
| 25 pcs | Paper rings | P280 | ø65 mm (2.6") |



Abrasives and GSS grinding spindles (also available: lapping paste).

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50 pcs	Paper rings	P280	ø80 mm (3.1")
50 pcs	Paper rings	P500	ø30 mm (1.2")
100 pcs	Paper rings	P500	ø50 mm (2")
50 pcs	Paper rings	P500	ø80 mm (3.1")

Special abrasives EFCOSIT (ceramically bonded hollow spheres) for seats made of stainless steels

25 pcs	EFCOSIT	P120	ø50 mm (2")
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General accessories

1 set	Standard accessories and tools
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Instruction Manuals

1 set	Instruction Manuals (original and translations)
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Packaging

The SL-15.02 - incl. tools, consumables, and instruction manuals - is delivered in a robust Polyethylene container with transport rollers. The case is highly resistant to impact, scratching, and breakage, as well as being highly resistant to chemicals, thus meeting the toughest packaging standards.

Options

#17398

Lapping equipment for SL-15.02

1 pc.	Lapping disc for DN 40 (ø 55 mm) (2.2")
1 pc.	Lapping disc for DN 50 (ø 65 mm) (2.6")
3 pcs.	Lapping spindle ø 30 mm (1.2")
6 pcs.	Lapping spindle ø 50 mm (2")
6 pcs.	Lapping spindle ø 80 mm (3.1")
1 pc.	Lapping paste EFCOBOR F120 (100 grams unit)
1 pc.	Lapping paste EFCOBOR F400 (100 grams unit)
1 pc.	Lapping paste EFCOBOR F800 (100 grams unit)
3 pcs.	brush

Globe valve attachment.

VB-device for valve machining with SL-15.02

1 pc.	Machine arm VB-15 incl. concentric ball joint (calotte)
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Separate machine arm VB-15 for working flat seat valves for use with drive motor, clamping system, and tools of SL-1.02/SL-15.02. With this option often it is not necessary to procure a special machine for globe valves.

Machine arms can be replaced easily via screws.

Immersion depth: up to 500 mm (20")

