



V-50 / V-75

Generating centers

Process all materials & aluminium lap tools,
with excellent cost / performance ratio.

satisloh

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performance ratio.
V-50 easily upgradeable to V-75.



V-50 / V-75 Generating centers

Application

V-50 and V-75 provide precise and efficient generating for all lens materials including mineral glass as well as aluminium and plastic lap tools. Both offer CNC-controlled surfacing, cribbing, chamfering and prism cutting in one cycle. Cost/performance ratio is excellent. Further more it stands for high curve accuracy & surface quality reproducible results, reduced fining times, achieved with circular disc cutter ensuring consistent cutting edge, patented Satisloh Series kinematics and direct-driven motor spindles.

The V-50 Generator is an ideal tool for medium and small laboratories. It combines a multitude of manufacturing steps with high output performance. The productivity of up to 50 lenses/h. can easily be increased by upgrading to the V-75, delivering up to 70 lenses/h. pre-edges according to frame shape and comes with a clear & easy to use colour TFT monitor.

Process

With Satislohs FastProcessing the V-50 / V-75 series generate prismatic, toric, spheric, convex or concave surfaces in one step. The generators reduce the diameter, pre-edge, chamfer and generate the optical surface. The cutting tips can be rotated 7 times and re-trued 3 to 4 times.

Benefits

- Cuts all ophthalmic lens materials including mineral glass
- Superior surface-finish matching later AR requirements
- Efficient generating by patented "FastProcessing" concept, incl. prism, lens diameter reduction, safety bevel
- Simple operation and macros for every application
- Short cycle times due to minimum kinematic surface roughness
- Lowest service and maintenance costs
- Worldwide service
- No elliptical error

Features

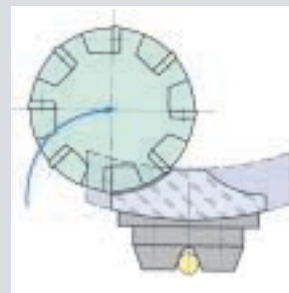
- Generates lenses ready-to-smooth
- Simple diamond fining process
- Fast and precise by automated selection of ideal feed rate based on cutter load and the use of individual macros
- Uses a water-based coolant for wet cutting
- Both generators comprise space to insert a 60 l cooling tank
- Eliminates airborne particles; reduces lens heat stress, extends tool life
- Automated, push-button generating including cribbing and chamfering
- Work piece reception by Collet chuck for Satisloh blocking system, others available
- Use stand-alone or interface with host computer to upload data aided by barcode reader
- VCA standard interface
- Direct drive motor spindle with speeds:
V-75: up to 12000 rpm / V-50: 9600 rpm
- 3 axis CNC control with operator prompting



Clear and easy to use



Effective: The cutting tips can be rotated 7 times and re-trued 3 to 4 times



In one step: With "FastProcessing" the V-50 / V-75 generators reduce the diameter, pre-edge, chamfer and generate the optical surface



Versatile: The V-50 / V-75 generate prismatic, toric, spheric, convex or concave



Flexible: The V-50 / V-75 process plastic and aluminium lap and polishing tools



New tank unit



Technical Information:

Lens specification

Working range

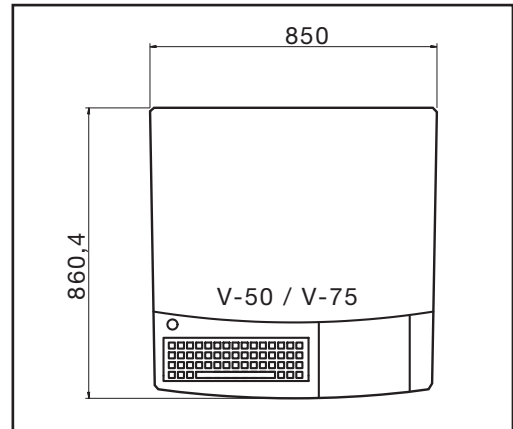
- Concave: plano to -30 dpt, with standard tool up to -14 dpt
- Convex: plano to +30 dpt

Workpiece diameter

35 – 90 mm

Utilities & Space

- Weight: approx 500 kg / 1104 lb
- Electrical power: 1.9 KVA, 220 Volt, 1 Phase, 50/75 Hz
- Dimensions (w x d x h):
980 x 1730 x 1310 mm / 38 x 68 x 51 inches
- Compressed air: 6 bar



Accessories & Options:

- Coolant system + coolants
- Barcode reader
- Tools: PCD cutter, galvanic diamond wheel, sintered diamond wheel, carbide disc cutter for processing aluminum tools
- V-50: pre-edging, according to frame shape, modem and floppy drive 3.5"

Material	Lens Ø (mm)	V-50 prod./h	V-75 prod./h
CR39 ¹	70	50	70
Polycarbonate ¹	70	40	60
Mineral Glass ¹	65	25	35
CR39 ²	75/60	40	65
Polycarbonate ²	75/60	35	55
Mineral Glass ²	75/60	22	30

¹ Loading time of 8 seconds

² Diameter reduction and bevel

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