



VFT-compact-pro

Generating All-Format™ Lens Surfaces with
High Performance Fast Tool Technology

Superior performance-to-cost ratio, outstanding surface quality and form accuracy. Low-cost All-Format™ generator with semi-automated engraving, axis alignment & tool calibration.

satisloh®

VFT-compact-pro
utilizing a revolutionary fast tool turning technology
in a unique and compact system design



VFT-compact-pro high performance generating for All-Format™ lens surfaces

Superior performance-to-cost ratio, high performance fast tool generating for soft tool polishing, provides outstanding surface quality and form accuracy.

VFT-compact-pro: unique semi-automated axis alignment and tool calibration for reliable, quick, operator-independent accurate system set-up and integrated engraving of back side lenses. These two very important functions are now standard features within VFT-compact-pro for daily lab operation today and in the future. VFT-compact-pro, combined with Satisloh's soft-tool polishing system such as i-FLEX, Auto-FLEX, Toro-FLEX or Duo-FLEX, offer full All-Format™ processing capability to economically generate free-form surfaces as well as standard spheric and toric lenses at highest level of surface quality and form accuracy.

VFT – Fast Tool Technology

It provides exceptionally accurate error-free surface quality, because of proprietary fast tool technology, high damping polymer concrete machine base, rigid design as well as low friction air bearing axes.

High performance real time control system with sophisticated control algorithms ensures ultimate surface form accuracy (due to no stick-slip effects in air bearing spindles).

Take advantage of cost savings with short polishing times, eliminating hard lap polishing tools, associated labor and reducing blank costs.

Semi automated axes and tool calibration

For precision processing axes, tool height and tool geometry – calibration is critical.

Precise axis alignment – especially for centre point adjustment – is key for all turning steps. Satisloh engineers created a revolutionary solution: semi-automated axes adjustment and tool calibration based on a built-in encoder system – auto-calibration. It enables accurate and repeatable results, avoiding undesired breakage and production losses.

Your benefits:

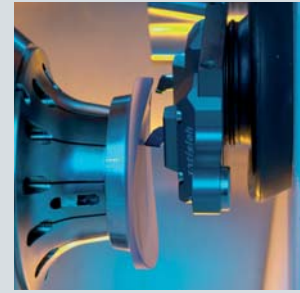
- Tremendous time savings while eliminating visual inspections and adjustments, independent from operator experience
- Greatly reduces operator errors
- Easy operation: can be operated by less skilled persons within minutes
- Consistent quality with integrated surface measurement system and control algorithms
- Cost savings though higher production yields

VFT engraving

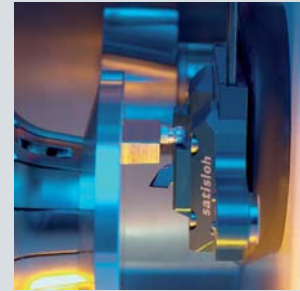
Engrave semi visible markings on free-form lenses with a tool tip mounted on a fast tool axis while lens is still in collet chuck inside the generator.

Your benefits:

- Maximum positioning accuracy
- No extra lens handling - ready to be polished and deblocked
- Layout editor allows free definition of symbols, characters, numbers and even logos for permanent lens marking
- Saves on external marking system investment



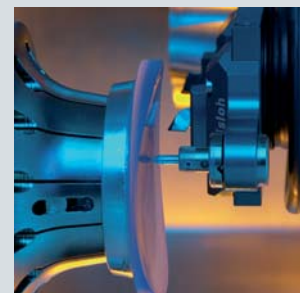
Turning tip holder for engraving tip



Tool height adjustment by auto-calibration



Triple tool holder with cribbing cutter in background



Lens engraving by separate tool tip



Touch screen user interface

Technical Information:

Energy Requirements:

Power: 6 kVA, 16 A
Voltage: 208-400 V, 3 phase,
50 or 60 Hz
Compressed air: 6 bar / min

Dimensions (w x d x h):

1000 x 1070 x 1502 mm /
40 x 42 x 60 inches

Weight:

1500 kg / 3311 lb

Interfaces:

TCP/IP OMA/VCA 3.05ff compliant

Tool Spindle:

Direct driven cribbing spindle:
0 – 12,000 rpm

Work Piece Spindle:

Direct driven air bearing spindle:
0 – 6,000 rpm
Work piece reception:
collet chuck for Satisloh blocking
systems, Ø 43 mm
Work piece: Ø 85 mm

Control:

High resolution real-time continuous
path control 15" touch screen with
interactive user interface based on
Windows™ USB interface located at
user panel

Tools:

PCD cribbing tool: Ø 70 mm
Specific turning tools made of poly-
and monocrystalline diamonds for
organic lens materials
Carbide engraving tip

Working Range:

Concave: up to -30 dpt
Convex: up to +30 dpt

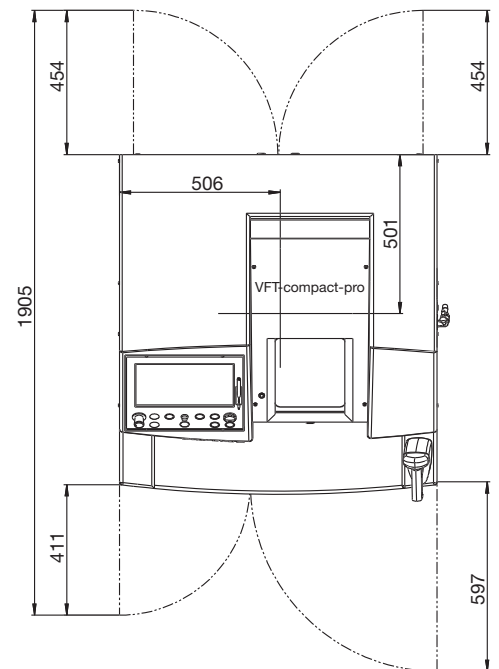
Materials:

CR 39, polycarbonate, Trivex™ and
high index materials

Throughput:*

up to 30 free-form lenses/h
up to 40 spheric/toric lenses/h

* depending on material mix, geometries and selected
process parameters



Options & Accessories:

- All-Format™ software
- Remote STEP
- Barcode scanner
- Cooling system
- Coolants & other consumables

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