

OTEC SF-SERIES HEAVY DUTY WITH INTEGRATED LOADING SYSTEM



STREAM FINISHING SOLUTION WITH AUTOMATED LOADING AND FITTING

With the SF-HD, large, heavy workpieces can be smoothed, rounded and deburred with absolute process reliability, fully automatically and with extremely short process times of just a few minutes. It can accommodate a wide variety of workpiece sizes in a single operation without violating the workpiece contours significantly. The SF-HD is ready for process automation thanks to its integrated, fully automatic loading system.



Read more

Sectors

Aerospace, mechanical engineering, tools; energy, oil and gas industries, shipbuilding and the food industry

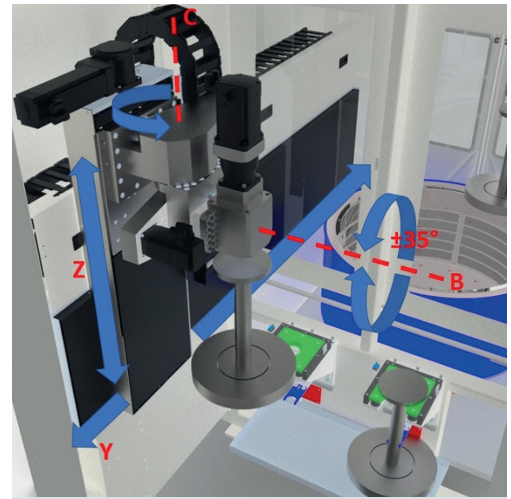
Highlights

- Fully automatic workpiece removal and return
- Automatic fitting of the spindle position and processing angle
- Simple part programming and simultaneous processing of up to two workpieces
- Ready for automation: communication interface for robots

Properties

- Pluggable, portable 15" Siemens Touch HMI
- Loading area for up to four workpieces
- Cyclical operation:
machine can be loaded and unloaded during processing
- Spindle with workpiece cycling function:
Workpiece can be positioned as required for processing
- Parameter monitoring
- Integrated, automatic component cleaning





Technical features

Process parameters

- Max. workpiece dimensions (including holder):
68 kg including holder, Ø up to 380 mm, L = 500 mm including holder
- Spindle speed: up to 1,000 rpm

Operation

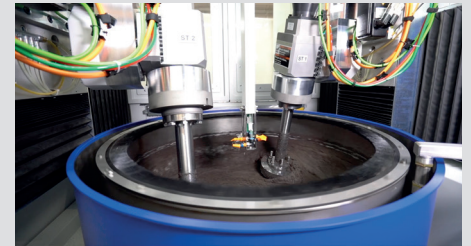
- Process selection via HMI or barcode scanner
- Simple spindle teach-in function for part programming
- Straightforward replacement of the process container

Equipment

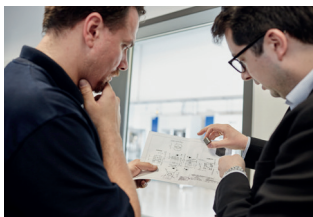
- Heavy-duty zero point clamping system
- Integrated connection and electrical interface for suction system
- Automatic lubrication system
- Automatic process water dosing
- Automatic loading door on the rear of the machine

Automatic fitting of the spindle position

- Fully automatic immersion angle adjustment of +/- 35°
- Fully automatic C angle adjustment (distance to the container wall) +/- 20°
- Fully automatic Z and Y axes
- Automatic fitting of the spindle position when changing to the next workpiece



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As a trusted global partner for perfect surfaces, OTEC builds innovative finishing machines which set high standards and achieve perfect process reliability. Revolutionising manual processing applications results in precise and consistent quality in the shortest possible process time.

Smooth surfaces every time, defined rounding results, the removal of burrs and a perfect sheen are decisive competitive advantages in almost all industrial sectors. In particular that means saving energy as well as extending the service life and increasing the durability of parts.

OTEC machines with the "Made in Germany" seal of quality stand for dependable technology, high-quality workmanship, reliable operation and a long service life.



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