

Internal and external profiling and polishing



The stone processing center ALL IN ONE



GHINES tools do not loose their shape!*

They always keep the same exact geometry and they are interchangeable without modifying the setting.

* except for position "green".



The stone processing center ALL IN ONE

TEMPLATE PLACED ON TOP OF THE WORK PIECE

- speeds up the work preparation
- more power onto the tool
- faster cutting execution
- adaptable to all former models
- reduced footprint



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A PERFECT STONE PROCESSING CENTER

SYSTAR BASIC is a sturdy and well-designed machine capable of performing all the processing required to a stone fabrication workshop: **shaping and polishing of internal and external profiles, bevelling, drilling faucet holes, cutting sink cut-out and drain-boards; grooves and slots on edges, vertical and inclined cuts at 45°, polishing of straight and inclined edges.** You will be able to create **kitchen and vanity tops, arches, sills, stairs, shower bases, gravestones, and many other stone pieces** extremely easily.



Straight and inclined edge polishing

SYSTAR BASIC is simple to install and easy to use

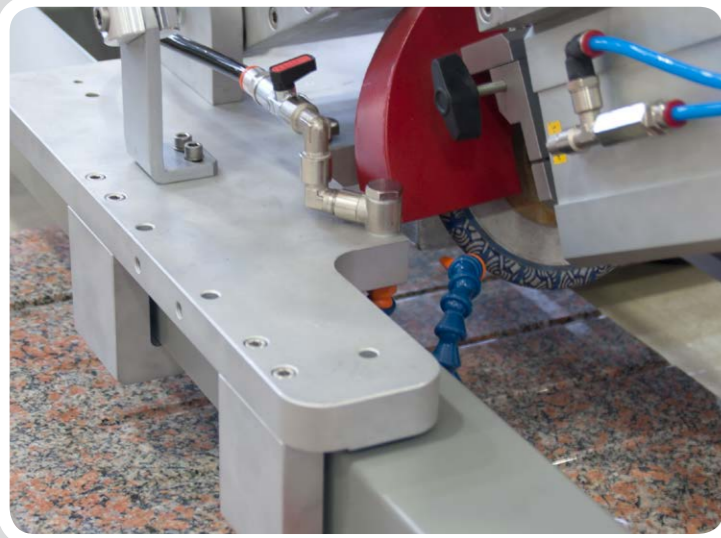


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HAND ASSEMBLED





Draining grooves

▲ The **operating head**, driven by a powerful and reliable electro-spindle, works with internal and external water lubrication. The double lubrication, together with an extreme easiness in the change of tool-holder, makes possible the use of whatever tool.



Recessed drainboard

▲ **Spindle** equipped with double water lubrication system: internal for CNC tools and GTOOLS diam. 22,2 mm for manual machines, and external.



Inclined cuts at 45°

▲ Mounting **cutting discs** on the spindle: you can perform vertical and inclined cuts (on -x axis) and use discs for grooves. Cutting disc diameter: 200 mm



Profiling

- ▲
- 1 knob for the micrometric adjustment of the operating head on -y axis
 - Hardened, anti-corrosion treated, steel slide guides using recirculating ball bearings. Easy reachable greaser.

SPECIFICATIONS

Operating area

- Work area: 3000 x 1100 mm
- Max. length of straight cut with blade: 3000 mm
- Max. length of inclined 45° mitre cut with blade: 2800 mm
- Maximum length for edge polishing (also 45°): 3000 mm
- Maximum slab thickness for disc cutting: 40 mm; for profiling and polishing: 60 mm (on vacuum cups)

Framework

- Dimensions: 3500 x 2360 x 1650(h) mm
- Weight: 680 kg

Template on top

- Fixed by 4 suction cups Ø120 mm

Operating Head

- Electrospindle: 2.2 kW with internal water lubrication.

Spindle:

- Stainless steel
- Connection: 1/2" gas F
- Rotation speed: from 1500 to 12500 rpm (controlled by vector drive)
- Vertical movement operated by a hand crank
- Vertical stroke: 100 mm

3 spindle modes:

- Vertical (for profiling and slot cutting)
- 45° inclination (for disc cutting and bevel polishing)
- Horizontal (for disc cutting, edge polishing, grooves)
- Manual lifting and locking of the operating head
- Automatic internal and external tool lubrication

Pneumatic system

- 1 vacuum system with 8 connections to hold the work piece and template firmly in position:
 - Vacuum ejector pump
 - Pressure regulator
 - Manometer
 - 4 Suction cups work piece: Ø90 mm, can be excluded individually
 - 4 Suction cups template: Ø120 mm with internal thread
 - Connection pipes: 4 m, Ø 6 mm
 - Compressed air gun

Supply

- Supply tension: 230V 50/60 Hz single-phase.
- Water pressure: min. 2 bar
- Pneumatic pressure: 3 bar



▲ **Control panel**
(24 V AC low tension controls)

- Spindle rpm speed adjustment, with real time display on the digital tachometer
- Manual micrometric adjustment of the spindle vertical motion, operated by a hand crank

REDLINE

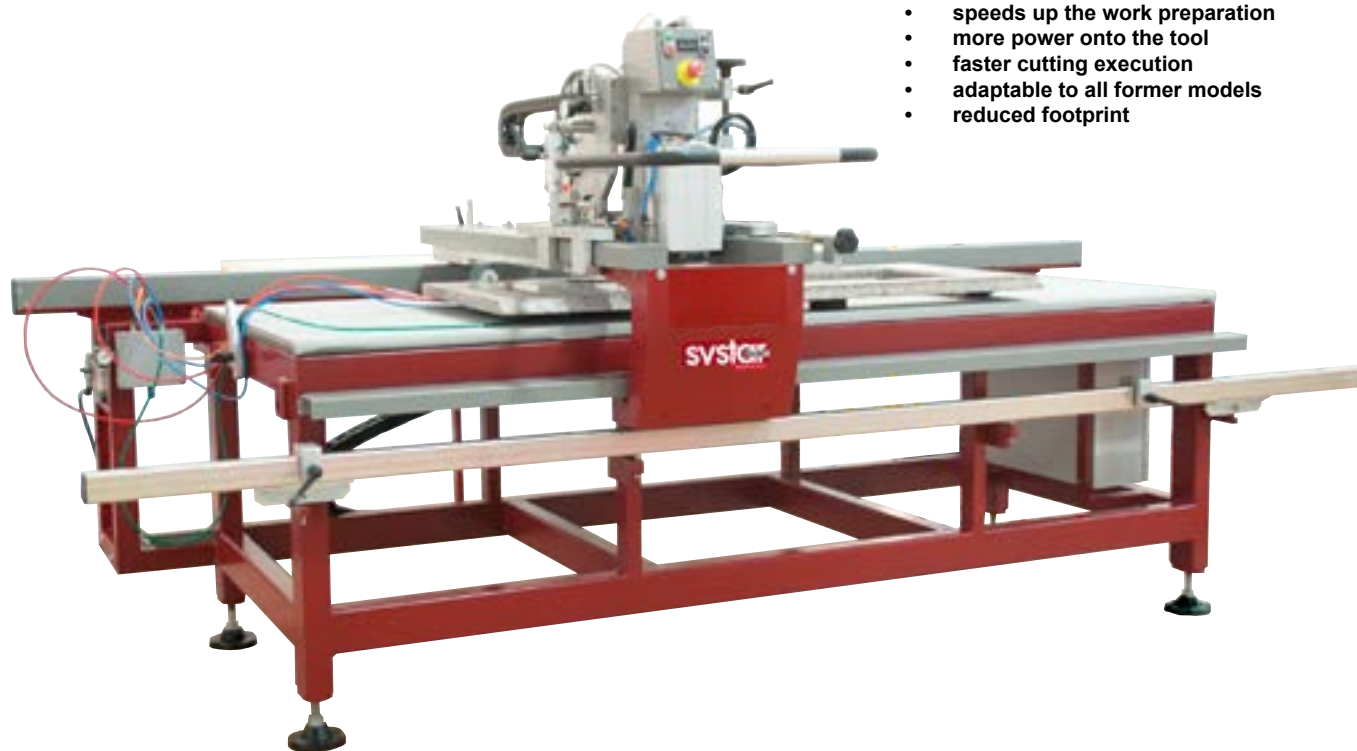


The stone processing center ALL IN ONE



Template placed on top of the work piece

- speeds up the work preparation
- more power onto the tool
- faster cutting execution
- adaptable to all former models
- reduced footprint



SPECIFICATION

OPERATING AREA

- Work surface made of smooth stone calibrated by the machine itself
- Maximum length workable with profiling tools : 3000 x 1100 mm
- Max. length of straight cut with blade: 3000 mm
- Max. length of inclined 45° mitre cut with blade: 2800 mm
- Maximum length for edge polishing (also 45°): 3000 mm
- Maximum slab thickness for disc cutting: 40 mm for vertical cuts and 30 mm for 45° miter cuts
- Maximum slab thickness for profiling edge polishing: 60 mm (on vacuum cups)
- Maximum slab thickness for polishing flat edge: 80 mm (on table)

FRAMEWORK

- Tubular steel frame coated with ceramic and epoxy paint
- Dimensions: 3500 x 1700 x 1650 (h) mm
- Weight: 650 kg

TEMPLATE ON TOP

- Fixed by 4 suction cups Ø120 mm

STEEL LINEAR GUIDES

- Longitudinal movement: hardened, anti-corrosion treated, steel slide guides with recirculation balls block.
- Transversal movement: hardened, anti-corrosion treated, steel slide guides with recirculation balls block.

OPERATING HEAD

- Electrospindle: 2.2 kW (3HP) with internal lubrication.
- **Spindle:**
 - Stainless steel
 - Connection: 1/2" gas F
 - Rotation speed: from 1500 to 12500 rpm, with digital display on the control panel
 - Vertical movement operated by a hand crank
 - Vertical stroke: 100 mm
 - 3 spindle modes:
 - Vertical (for profiling and slot cutting)
 - 45° inclination (for disc cutting and bevel polishing)
 - Horizontal (for disc cutting and edge polishing)
- Manual lifting and locking the operating head
- At the start of the spindle motor the internal water lubrication is activated automatically

ORTHOGONAL MOVEMENT

- Slide guides are equipped with adjustable mechanical limit switches.

VACUUM SYSTEM TO FIX THE WORKPIECE AND TEMPLATE*

1 vacuum system with 8 connections to hold the work piece and template firmly in position:

- Vacuum ejector pump
- Pressure regulator
- Manometer
- 4 Suction cups work piece: Ø90 mm, can be excluded individually
- 4 Suction cups template: Ø120 mm with internal thread
- Connection pipes: 4 m, Ø 6 mm
- Compressed air gun

* required: minimum 6 bar pressure, 150 l/min, recommended: compressor minimum 4 kW, 300 l/min, 8 bar pressure

WATER CONNECTION*

- Tool lubrication: internal and external by water hoses
- Water gun

* required: minimum 2 bar pressure, 15 l/min

SUPPLY

- Electrical power: 230 V–50/60 Hz single-phase (16A)
- Power unit: IP 65 drive according to CE standards (low tension controls on the control panel)

STANDARD SUPPLY

- 1 tool holder 1/2" gas – M12 free turning toucher ring
- 1 tool holder 1/2" gas - Ø 22,2 mm free turning toucher ring
- Toucher rings Ø 37 and Ø 39 mm
- Blade guard and flange Ø 60 mm
- Compressed air, water and grease guns
- Use and maintenance manual
- Service wrenches
- Waterproof apron
- Screws and bolts
- Spare fuses