

**SERENI**



Macchine per Finiture di Superfici



<b>AUTOMATIC POLISHING</b>	<b>4</b>
<b>AUTOMATIC BELT-GRINDING</b>	<b>13</b>
<b>MANUAL POLISHING</b>	<b>15</b>
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# W420



## Description

Rotary table semiautomatic polishing machine, with continuous and adjustable rotation of plate and piece-holders mandrels.

The column polishing units have horizontal and vertical motorized movements.

The machine is equipped with plant for the supply of liquid polishing compound.

Optional rotary tables: Ø1800mm - 24 mandrels and Ø2000mm - 36 mandrels.

## Standard versions

	<u>W420-3</u>	<u>W420-3S</u>	<u>W420-4</u>	<u>W420-4S</u>
Ø Table	1500mm	1500mm	1500mm	1500mm
Table speed	Adjustable	Adjustable	Adjustable	Adjustable
N. of mandrels	20	20	20	20
Mandrels speed	Adjustable	Adjustable	Adjustable	Adjustable
Polishing units	3	3	4	4
Polishing motors	4kW	4kW	4kW	4kW
Motors speed	900rpm	Adjustable	900rpm	Adjustable
Ø Polishing disks	400mm	400mm	400mm	400mm
Installed power	16kW	16kW	20kW	20kW



# W312



## Description

Rotary table semiautomatic polishing machine, with continuous and adjustable rotation of plate and piece-holders mandrels.

The three polishing units have horizontal and vertical motorized movements.

The machine is equipped with plant for the supply of liquid polishing compound.

Compact overall dimensions, 1.850 x 1.550mm of floor space occupied.

## Standard versions

	<u>W312</u>	<u>W312-A</u>
Ø Table	800mm	800mm
Table speed	Adjustable	Adjustable
N. of mandrels	12	12
Mandrels speed	Adjustable	Adjustable
Polishing units	3	3
Polishing motors	3kW	3kW
Motors speed	Adjustable	Adjustable
Ø Polishing disks	350mm	350mm
Protective structure	No	Yes
Control panel	Electromechanic	Touch-screen
Installed power	10kW	10kW

# W-SC



## Description

Line of semiautomatic machines with indexed rotary table and adjustable speed of rotation for the piece-holders mandrels.

Each polishing unit is programmable with independent work times and the oscillation speed of the polishing disks is adjustable.

The machine is equipped with plant for the supply of liquid polishing compound.

Model W304-SC	
	<u>W304-SC</u>
Ø Table	900mm
Table positions	4
N. of mandrels	4
Mandrels speed	Adjustable
Polishing units	3
Polishing motors	3kW
Motors speed	Adjustable
Ø Polishing disks	350mm
Protective structure	Yes
Control panel	Touch-screen
Installed power	12kW

Characteristics vary depending machine configuration.

# W108



## Description

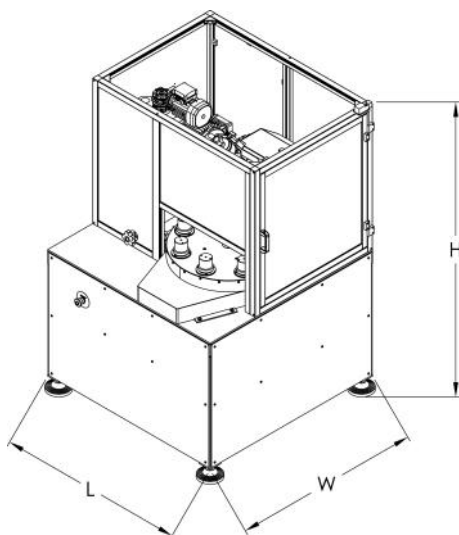
Rotary table semiautomatic polishing machine, with continuous and adjustable rotation of plate and piece-holders mandrels.

The polishing unit has manual adjustable horizontal movement and vertical motorized movement.

The machine is equipped with plant for the supply of liquid polishing compound.

## Dimensions

L:	1030mm
H:	1600mm
W:	1030mm
Weight:	435Kg



## Standard versions

	<u>W108</u>
∅ Table	560mm
Table speed	Adjustable
N. of mandrels	8
Mandrels speed	Adjustable
Polishing units	1
Polishing motor	3kW
Motor speed	Adjustable
∅ Polishing disks	350mm
Protective structure	Yes
Control panel	Electromechanic
Installed power	6kW

# S2M350



## Description

Semiautomatic polishing machine to buff flat parts or with slight concavity and convexity.

Two polishing stations, for disks with a maximum diameter of 350mm, with electronically adjustable speed.

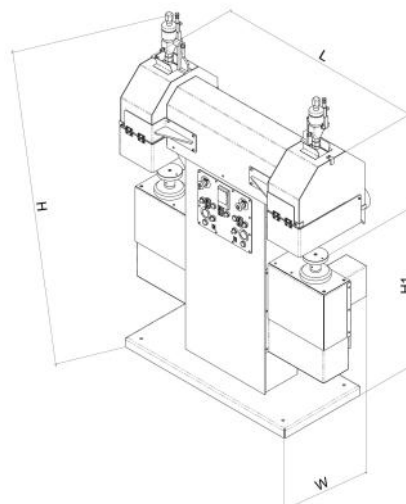
Automatism of ascent and descent, adjustment of working pressures and timers for the duration of the buffing cycle.

## Standard versions

	<u>S2M350</u>
N. of mandrels	2
Mandrels speed	Adjustable
Polishing stations	2
Polishing motor	4kW
Motor speed	Adjustable
∅ Polishing disks	350mm
Control panel	Electromechanic
Installed power	5kW

## Dimensions

L:	1560mm
H:	1460mm
W:	550mm
H1:	990
Weight:	600Kg





# SM430.20



## Description

Reciprocating table semiautomatic polishing machine, for finishings of long and/or flat pieces with manual or automatic work cycle, programmer for the number of finishing passes and adjustable length of the working area.

The machine is equipped with plant for the supply of liquid polishing compound.

The machine can be realized with different table's stroke and working capacity.

## Standard versions

	<u>SM430.20</u>
Fixing plate	2000x500mm
Table run	5600mm
Table speed	0 ~ 3m/min
Polishing units	1
Movements	Motorized
Polishing motor	5,5kW
Motor speed	Adjustable
Ø Polishing disks	430mm
Disks oscillation	Yes, adjustable
Control panel	Electromechanic
Installed power	11kW

# SC420-S



## Description

Indexed rotary table semiautomatic polishing machine, with adjustable speed of rotation for the piece-holders mandrels.

Ideal for finishings on borders of cylindrical and/or tilted pieces.

The machine is equipped with plant for the supply of liquid polishing compound.

## Standard versions

	<u>SC420-S</u>
Ø Table	1300mm
Table positions	12
N. of mandrels	12
Mandrels speed	Adjustable
Polishing units	4
Movements	Motorized
Polishing motors	3,3kW
Motors speed	Adjustable
Ø Polishing disks	350mm
Control panel	Electromechanic
Installed power	17kW



## Description

Indexed rotary table semiautomatic polishing machine, with adjustable speed of rotation for the piece-holders mandrels.

Ideal for finishings on borders of cylindrical and/or tilted pieces.

The machine is equipped with plant for the supply of liquid polishing compound.

## Standard versions

	<i>SC420</i>
Ø Table	1300mm
Table positions	12
N. of mandrels	12
Mandrels speed	Adjustable
Polishing units	4
Movements	Motorized
Polishing motors	3,3kW
Motors speed	Adjustable
Ø Polishing disks	350mm
Control panel	Electromechanic
Installed power	17kW

# SPZ200



## Description

Column polishing/buffing unit, to be used with working plates or stationary and rotating tables, single or multiple even with different heights.

Motorized movements controlled by a PLC, with memories and automatic repositioning.

Electro-spindle with power of 4kW with electronic speed adjustment.

Machine completely customizable on customer request.

# ST3-150



## Description

Belt-grinding semiautomatic machine for flat pieces or tubes (polygonal).

Belt conveyor with electronically adjustable speed, belt-grinding units with fine positioning and digital readouts for the working quota.

Pneumatic abrasive belts tensioning system.

## Standard versions

	<u>ST3-150</u>	<u>ST2-150</u>	<u>ST1-150</u>	<u>ST3-100R7</u>	<u>ST1-100R5</u>
Conveyor speed	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Belt-grinding units	3	2	1	3	1
Quota readouts	Yes, digital	Yes, digital	Yes, digital	Yes, digital	Yes, digital
Abrasive belts	3000x150mm	3000x150mm	3000x150mm	3500x120mm	3000x120mm
Movements	Motorized	Motorized	Motorized	Motorized	Motorized
Fine positioning	Yes, manual	Yes, manual	Yes, manual	Yes, manual	Yes, manual
Vertical stroke	150mm	150mm	150mm	100mm	100mm
Abrasive belts motors	5,5kW	5,5kW	5,5kW	11kW	11kW
Motors speed	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Electric panel	Electromechanic	Electromechanic	Electromechanic	Electromechanic	Electromechanic
Installed power	19kW	14kW	8kW	35kW	13kW

# SAP-200



## Descrizione

Reciprocating table semiautomatic belt-grinding machine, for flat pieces.

Table with adjustable pneumatic feed, belt grinding unit with motor for the rotation of the abrasive belt with power of 3,3kW double speed 1400/2800rpm.

Pneumatic abrasive belt tensioning system.

Model "SAP-200/T" is equipped with belt conveyor feed system.

### Standard versions

	<u>SAP-200</u>	<u>SAP-200/T</u>
Fixing plate	200x200mm	Conveyor type
Table speed	Adjustable	Adjustable
Table stroke	500mm	~
Belt-grinding units	1	1
Abrasive belts	3000x100mm	3000x100mm
Movements	Motorized	Motorized
Fine positiong	Yes, manual	Yes, manual
Abrasive belts motor	3,3kW	3,3kW
Motor speed	1400/2800rpm	1400/2800rpm
Control panel	Electromechanic	Electromechanic
Installed power	4kW	4,5kW



**S80**

**Description**

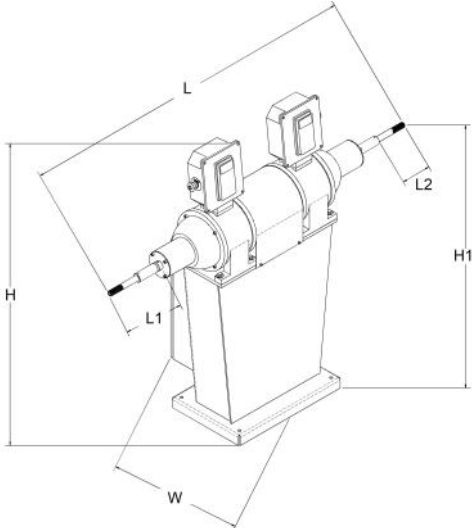
Manual polishing / buffing machine, with two independent motors.  
 Cast iron electric motors, mainshafts rotation on ball bearings.  
 Possibility of installing belt grinding equipment.

**Dimensions**

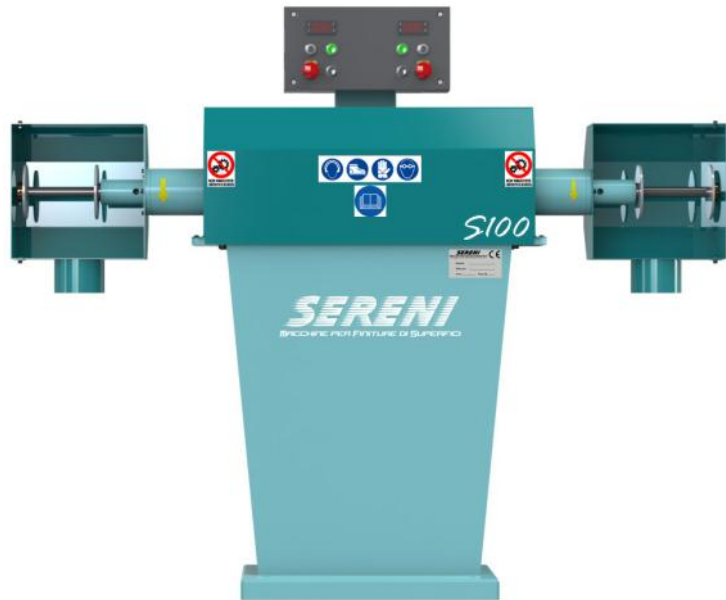
L:	1730mm
L1:	295mm
L2:	160mm
H:	1385mm
H1:	990mm
W:	515mm
Weight:	365Kg

**Motors**

<u>kW (Hp)</u>	<u>Rpm</u>
3,7 + 3,7 (5 + 5)	2800
3,7 + 3,7 (5 + 5)	300-3000 inverter



# S100



## Description

Manual polishing / buffing machine, with two independent motors.

Aluminium electric motors, mainshafts rotation on ball bearings.

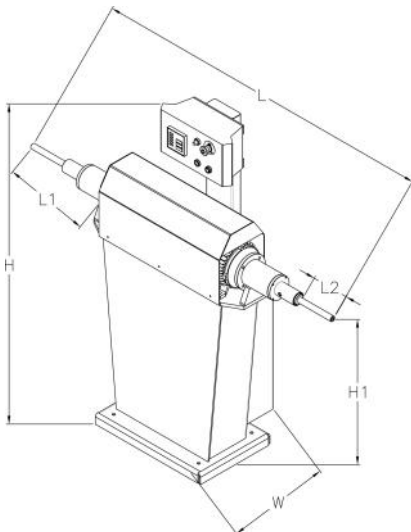
Possibility of installing belt grinding equipment.

## Motors

<u>kW (Hp)</u>	<u>Rpm</u>
4 + 4 (5,5 + 5,5)	1400/2800
5,5 + 5,5 (7,5 + 7,5)	1400/2800
4 + 4 (5,5 + 5,5)	1400
5,5 + 5,5 (7,5 + 7,5)	1400

## Dimensions

L:	1700mm
L1:	425mm
L2:	130/160/190mm
H:	1480mm
H1:	960mm
W:	515mm
Weight:	295Kg





# S60



## Description

Manual polishing / buffing machine, with one motor.

Cast iron electric motor, mainshaft rotation on ball bearings.

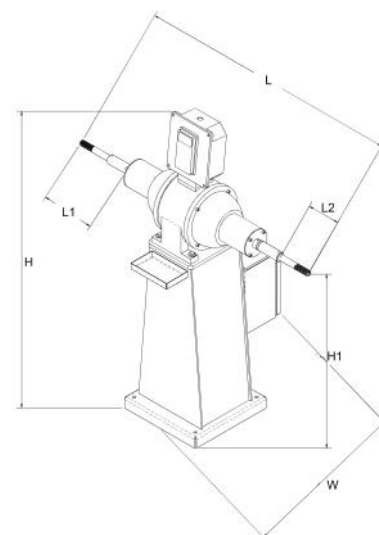
Possibility of installing belt grinding equipment.

## Dimensions

L:	1265mm
L1:	295mm
L2:	160mm
H:	1385mm
H1:	990mm
W:	515mm
Weight:	295Kg

## Motors

<u>kW (Hp)</u>	<u>Rpm</u>
3,7 (5)	2800
3,7 (5)	300-3000 inverter



# S75



## Description

Manual polishing / buffing machine, with one motor.

Aluminium electric motor, mainshaft rotation on ball bearings.

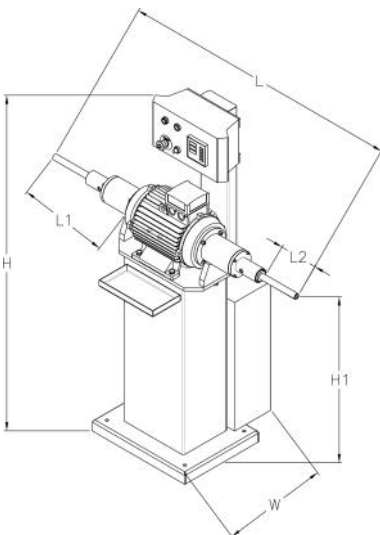
Possibility of installing belt grinding equipment.

## Motors

<u><i>kW (Hp)</i></u>	<u><i>Rpm</i></u>
5,5 (7,5)	1400/2800
5,5 (7,5)	1400

## Dimensions

L:	1320mm
L1:	430mm
L2:	130/160/190mm
H:	1450mm
H1:	960mm
W:	520mm
Weight:	225Kg





# S50

## Description

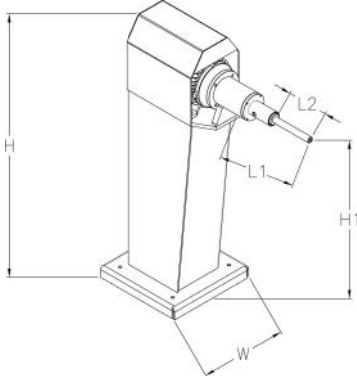
Manual polishing / buffing machine, with one motor.  
 Aluminium electric motor, mainshaft rotation on ball bearings.  
 Possibility of installing belt grinding equipment.

## Dimensions

L:	850mm
L1:	425mm
L2	130/160/190mm
H:	1180mm
H1:	960mm
W:	400mm
Weight:	180Kg

## Motors

<i>kW (Hp)</i>	<i>Rpm</i>
4 (5,5)	1400
4 (5,5)	2800
4 (5,5)	1400/2800
4 (5,5)	300-3000 inverter
5 (7,5)	1400
5 (7,5)	2800
5 (7,5)	1400/2800
5 (7,5)	300-3000 inverter



# S40



## Description

Manual bench polishing / buffing machine, with one motor.

Aluminium electric motor, mainshaft rotation on ball bearings.

Standard equipment with protective cover for disks with a maximum diameter of 300mm.

## Motors

<i>kW (Hp)</i>	<i>Rpm</i>
3 (4,5)	1400
3 (4,5)	2800
3 (4,5)	300-3000 inverter

## Dimensions

L:	870mm
H:	780mm
H1:	300mm
W:	475mm
Weight:	110Kg

# S30



## Description

Manual polishing / buffing machine, with one motor.

Aluminium electric motor, mainshaft rotation on ball bearings.

Standard equipment with protective covers for disks with a maximum diameter of 250mm.

## Dimensions

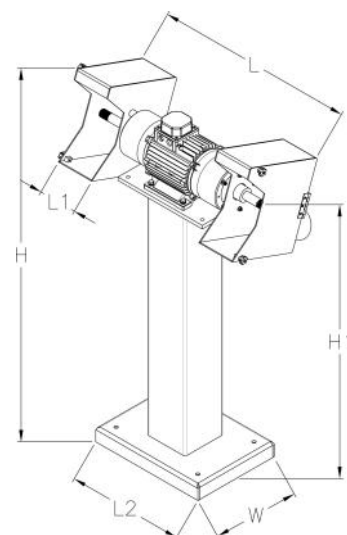
L:	720mm
L1:	125mm
L2:	400mm
H:	1165mm
H1:	960mm
W:	300mm
Weight:	135Kg

## Motors

<i>kW (Hp)</i>	<i>Rpm</i>
2,2 (3)	1400
2,2 (3)	2800
2,2 (3)	300-3000 inverter



Machine with column pedestal



# ELSF-40



## Description

Manual polishing / buffing machine, with one motor.

Big buffing wheels usage, mainshaft rotation on ball bearings.

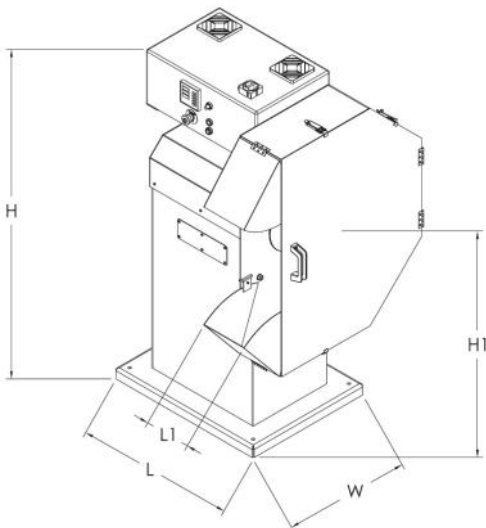
Standard equipment with protective cover for disks with a maximum diameter of 980mm.

## Motors

<i><u>kW (Hp)</u></i>	<i><u>Rpm</u></i>
5,5 (7,5)	200-1000 inverter

## Dimensions

L:	990mm
L1:	215mm
ØL:	50mm
H:	1500mm
H1:	1000 or 700mm
W:	730mm
Weight:	480Kg



# ELSF-80



## Description

Manual polishing / buffing machine, with two independent motors.

Big buffing wheels usage, mainshaft rotation on ball bearings.

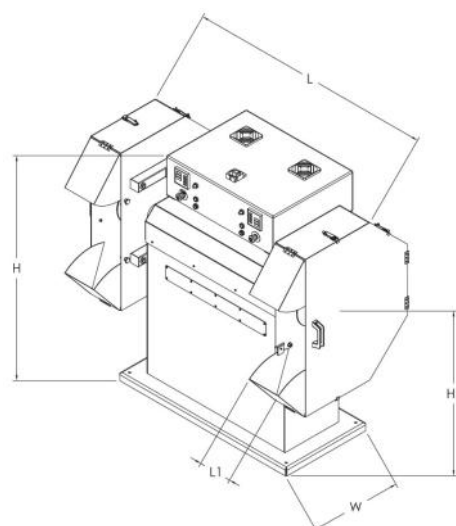
Standard equipment with protective covers for disks with a maximum diameter of 980mm.

## Dimensions

L:	1720mm
L1:	215mm
ØL:	50mm
H:	1500mm
H1:	1000 or 700mm
W:	730mm
Weight:	875Kg

## Motors

<i>kW (Hp)</i>	<i>Rpm</i>
5,5 + 5,5 (7,5 + 7,5)	200-1000 inverter



# S100-SM



## Description

Manual belt-grinding machine, with two independent motors.

Aluminium electric motors, mainshafts rotation on ball bearings.

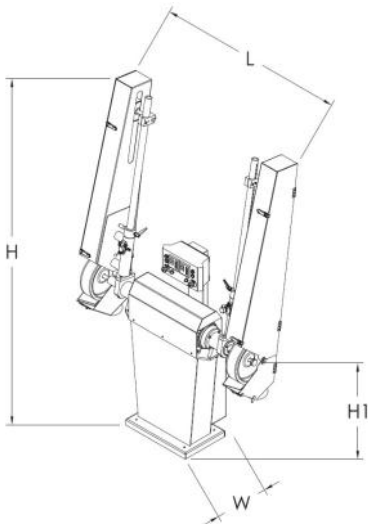
Belt-grinding equipment with manual mechanic or pneumatic tighteners, for abrasive belts with developments between 2500 and 3500mm.

## Motors

<u>kW (Hp)</u>	<u>Rpm</u>
4 + 4 (5,5 + 5,5)	1400/2800
5,5 + 5,5 (7,5 + 7,5)	1400/2800
4 + 4 (5,5 + 5,5)	1400
5,5 + 5,5 (7,5 + 7,5)	1400

## Dimensions

L:	1900mm
H:	2550mm
H1:	960mm
W:	515mm
Weight:	355Kg



## Models

<u>Name</u>	<u>Equipment</u>
S100SM-1TMC	1 mechanic tightener + 1 carter
S100SM-2TMC	2 mechanic tighteners + 2 carters
S100SM-1TPC	1 pneumatic tightener + 1 carter
S100SM-2TPC	2 pneumatic tighteners + 2 carters



# S80-SM



## Description

Manual belt-grinding machine, with two independent motors.

Cast iron electric motors, mainshafts rotation on ball bearings.

Belt-grinding equipment with manual mechanic or pneumatic tighteners, for abrasive belts with developments between 2500 and 3500mm.

## Dimensions

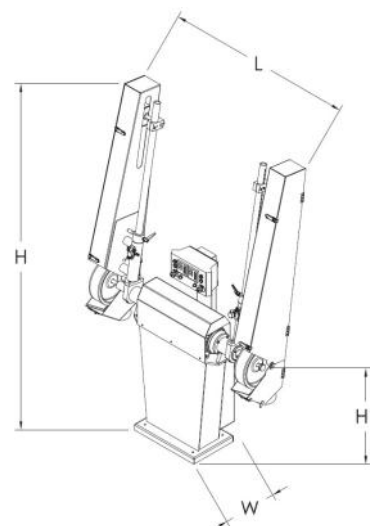
L:	1930mm
H:	2580mm
H1:	990mm
W:	515mm
Weight:	425Kg

## Motors

<i>kW (Hp)</i>	<i>Rpm</i>
3,7 + 3,7 (5 + 5)	2800
3,7 + 3,7 (5 + 5)	300-3000 inverter

## Models

<i>Name</i>	<i>Equipment</i>
S80SM-1TMC	1 mechanic tightener + 1 carter
S80SM-2TMC	2 mechanic tighteners + 2 carters
S80SM-1TPC	1 pneumatic tightener + 1 carter
S80SM-2TPC	2 pneumatic tighteners + 2 carters



# S60-SM



## Description

Manual belt-grinding machine, with one motor.

Cast iron electric motor, mainshaft rotation on ball bearings.

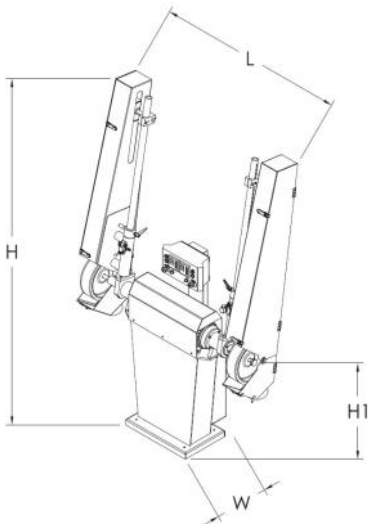
Belt-grinding equipment with manual mechanic or pneumatic tighteners, for abrasive belts with developments between 2500 and 3500mm.

## Motors

<i><u>kW (Hp)</u></i>	<i><u>Rpm</u></i>
3,7 (5 + 5)	2800
3,7 (5 + 5)	300-3000 inverter

## Dimensions

L:	1930mm
H:	2580mm
H1:	990mm
W:	515mm
Weight:	355Kg



## Models

<i><u>Name</u></i>	<i><u>Equipment</u></i>
S60SM-1TMC	1 mechanic tightener + 1 carter
S60SM-2TMC	2 mechanic tighteners + 2 carters
S60SM-1TPC	1 pneumatic tightener + 1 carter
S60SM-2TPC	2 pneumatic tighteners + 2 carters

SM3500-M



### Description

Manual belt-grinding machine, with one motor.

Aluminium electric motor, mainshaft rotation on ball bearings.

Motor with power of 3,3kW (4,5Hp) with electronically speed adjustment from 300 to 3000rpm.

Motorized abrasive belt alignment, front contact wheel  $\varnothing 350\text{mm}$ , manual mechanic or pneumatic belt tensioning system.

Usage of abrasive belts with a development of 3500mm.



Machine with aspirator

# SM3000-M



## Description

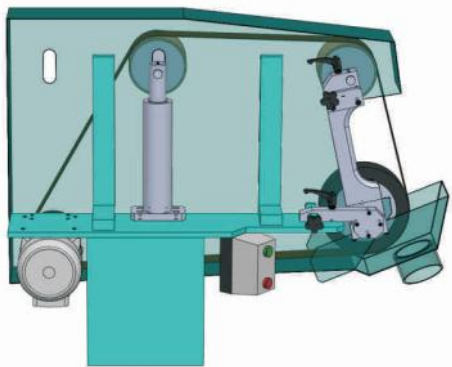
Manual belt-grinding machine, with one motor.

Aluminium electric motor, mainshaft rotation on ball bearings.

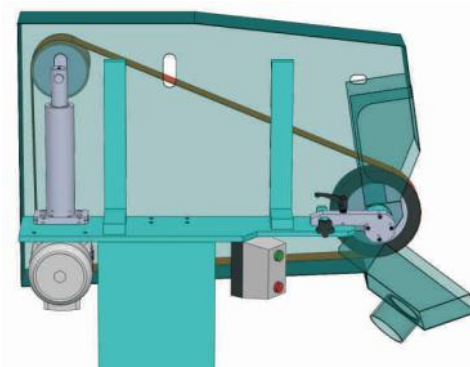
Motor with power of 2,2kW (3Hp) single speed 2800rpm.

Manual abrasive belt alignment, front contact wheel  $\varnothing 250 \times 70 \text{mm}$ , pneumatic belt tensioning system.

Usage of abrasive belts with a development of 3000mm.



Machine with 4 rollers



Machine with 3 rollers





### Description

Manual belt-grinding machine, with one motor.

Aluminium electric motor, mainshaft rotation on ball bearings.

Wide working area on free belt, with possibility of usage also of the back contrast plate.

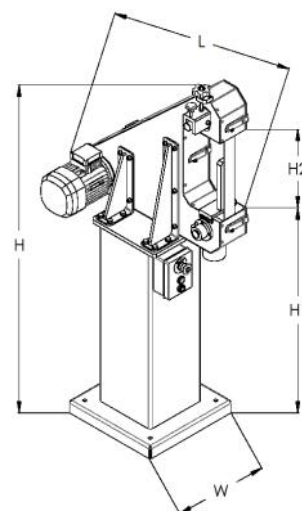
Manual belt tensioning system, usage of abrasive belts of 2000x50mm.

### Dimensions

L:	745mm
H:	1530mm
H1:	980mm
H2:	335mm
W:	440mm
Weight:	180Kg

### Motors

<i>kW (Hp)</i>	<i>Rpm</i>
1,5 (2)	2800



## SMB-2



### Description

Manual double disk grinder, with one motor.

Aluminium electric motor, mainshaft rotation on ball bearings.

Motor with power of 1,8kW (2,5Hp) with electronically speed adjustment from 300 to 1500rpm.

On this model can be used abrasive adhesive disks with a maximum diameter of 250mm.



### Description

Family of single motor flat belt-grinding machines.

Aluminium electric motor, mainshaft rotation on ball bearings.

Motors with power from 1,6kW (2Hp) to 4kW (5,5Hp) single, double or adjustable speed of rotation.

Possibility of working on the frontal contact wheel or on the upper contrast plate, manual alignment of the abrasive belt and pneumatic tightener.

Various models of various sizes according customer requests.

## TPN



### Description

#### PNEUMATIC TIGHTENER

To use abrasive belts with our models of manual polishing/buffing machines; it is realized in aluminium, it has the main shaft made of galvanized steel, sliding roller support, handle for the abrasive belt alignment.

#### Specifications:

- Valve for the pneumatic tightening of the cylinder.
- Pressure gauge.
- Adjustable idle roller.
- Idle roller  $\varnothing 160 \times 120$ mm in aluminium, coated in smooth polyurethane.

## TMN



### Description

#### MECHANIC TIGHTENER

To use abrasive belts with our models of manual polishing/buffing machines; it is realized in aluminium, it has the main shaft made of galvanized steel, sliding roller support, handle for the abrasive belt alignment.

#### Specifications:

- Lever for spring loading.
- Lever locking, for abrasive belt mounting.
- Adjustable idle roller.
- Idle roller  $\varnothing 160 \times 120$ mm in aluminium, coated in smooth polyurethane.



## Description

### TIGHTENERS PROTECTION COVER

Accessory to match with our models of tighteners, allows the usage of abrasive belts with developments between 2500 and 3500mm with contact wheels having a maximum diameter of 300mm.

#### Specifications:

- Connection  $\varnothing$ 120mm for the aspirator.
- Opening by hinges and toggle latches.
- Safety microswitch.



CPT

## Description

### MOVABLE PROTECTION COVER

Safety protection that allows the usage of polishing disks having a maximum diameter of 980mm.

#### Specifications:

- Connection  $\varnothing$ 140mm for the aspirator.
- Opening by hinges and toggle latches.
- Safety microswitch.



CMM

## CBA



### Description

#### SWINGING PROTECTION COVER

Safety protection swinging on the centre of the wheel and adjustable in height for a stroke of 250mm, allows the usage of polishing disks having a maximum diameter of 450mm.

#### Specifications:

- Connection  $\varnothing$ 120mm for the aspirator.
- Adjustable frontal hatch.

## CCA



### Description

#### BOX SHAPED PROTECTION COVER

Safety protection that allows the usage of polishing disks having a maximum diameter of 300mm.

#### Specifications:

- Connection  $\varnothing$ 120mm for the aspirator.
- Adjustable plane.
- Extractable drawer.

S30e



### Description

Bench polishing/buffing machine, with one motor.

Aluminium electric motor, mainshaft rotation on ball bearings.

Realizable with single-phase and three-phases motor, with power of 1,85kW (2,5Hp) in single-phase and 2,2kW (3Hp) in three-phases, with rotation speed of 2800rpm.

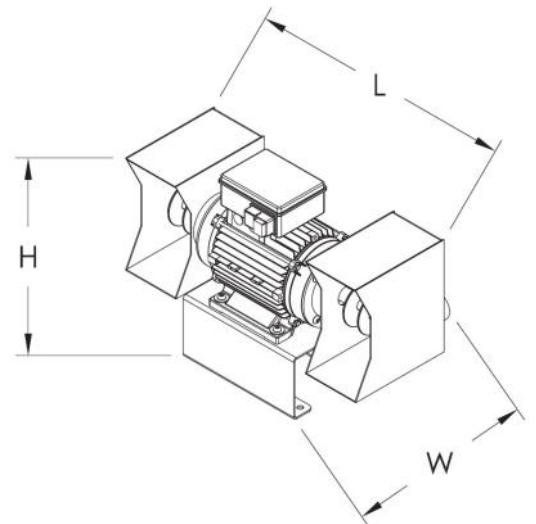
Allows the usage of polishing disks (or other tools) with a maximum diameter of 200mm, a center bore of 20mm and a maximum width of 30mm.

### Dimensions

L:	520mm
H:	320mm
W:	255mm
Weight:	25Kg



Three-phase machine



# S30e



S30E-CD



S30E-CSD



S30E-PD



S30E-CAD

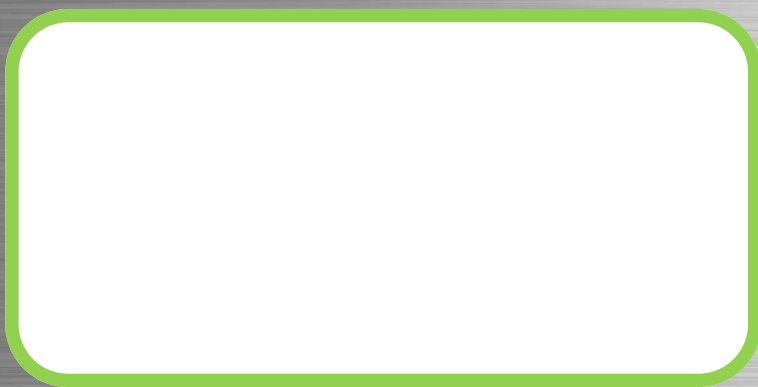


S30E-SA



S30E-BA





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