



**Morandi S.r.l.**

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P. IVA 00679430983

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## Multiple semiautomatic shearing machine TM6.150E



### Machine for cutting rubber sleeve collars:

- Electronically controlled by PLC and programmable through man/machine control panel.
- Highly flexible with equipment changing times reduced to a minimum for high yield productivity.
- Equipped with n° 6 sleeve collar cutting spindles.
- Cutting speed adjustable from the panel and controlled by brushless motor.
- Spindles rotation speed adjusted by inverter with potentiometer.
- Advance unit controlled by stepping motor.
- Cut lubrication unit.

#### **Technical Data**

Sleeve collar max. diam. (mm):	140
Sleeve collar max. length (mm):	150
Loading max. orifice (mm):	100
Loading min. orifice (mm):	8 len. max. mm 80
Cutting length (mm):	0,5 - 99,999
Pitch setting (mm):	0,01
Electrical power absorbed (Kw):	5
Dimensions (mm):	2.000x1.300x2.100 (h)
Weight (Kg):	1.950
Dimensioni (mm):	2.000x1.300x2.100 (h)
Peso (Kg):	1.950



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## Multiple semiautomatic shearing machine TM2.150E



### Machine for cutting rubber sleeve collars:

- Electronically controlled by PLC and programmable through man/machine control panel.
- Highly flexible with equipment changing times reduced to a minimum for high yield productivity.
- Equipped with n° 2 sleeve collar cutting spindles.
- Cutting speed adjustable from the panel and controlled by brushless motor.
- Spindles rotation speed adjusted by inverter with potentiometer.
- Advance unit controlled by brushless motor.
- Cut lubrication unit.

#### **Technical Data**

Sleeve collar max. diam. (mm):	140
Sleeve collar max. length (mm):	150
Loading max. orifice (mm):	100
Loading min. orifice (mm):	8 len. max. mm 80
Cutting length (mm):	0,5 - 99,999
Pitch setting (mm):	0,01
Electrical power absorbed (Kw):	3
Dimensions (mm):	2260x1050x1850 (h)
Weight (Kg):	730



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## Automatic shearing machine TE50.E



### Automatic cutting machine for extruded rubber products

- Single-structure machine totally streamlined with inspection window.
- Cutting rotation controlled by A.C. motor with electronic inverter
- Cutting carriage controlled by brushless motor for maximum precision
- Feeding towing with double belt for maximum grip to the profiles
- Unloading belt for cutted products driven by three phase asynchronous motor
- Highly versatile machine with quick matrix replacement system for product changes.
- Suitable for continuous cutting, with pre-established lengths and chain feed control
- Possibility of cutting more extruded profiles simultaneously

#### Technical Data

Min. chargeable diam. (mm):	5
Max. chargeable diam. (mm):	50
Min. cutting length (mm):	0,5
Max. cutting length (mm):	99.999
Electrical power absorbed (Kw):	5.5
Dimensions (mm):	1.600x750x1700 (h)
Weight (Kg):	1100



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## Automatic shearing machine TE50



### Automatic cutting machine for extruded rubber products

- Single-structure machine totally streamlined with inspection window.
- Cutting rotation controlled by A.C. motor with electronic inverter
- Cutting carriage controlled by adjustable hydropneumatic plant
- Belt feeding towing device controlled by brushless motor
- Unloading belt for cut product.
- Highly versatile machine with quick matrix replacement system for product changes.
- Possibility of continuous cutting, with pre-established lengths, chain feed control
- Possibility of cutting more extruded profiles simultaneously

#### Technical Data

Min. chargeable diam. (mm):	5
Max. chargeable diam. (mm):	50
Min. cutting length (mm):	0,5
Max. cutting length (mm):	99.999
Electrical power absorbed (Kw):	3,5
Dimensions (mm):	1600x700x2200 (h)
Weight (Kg):	1050



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## *Continuous cutter mod. TE30-ESP*



### Machine suitable for continuous cutting of extruded material

- Single structure machine with frame equipped with transport wheels and seats for forklift shovels.
- It is equipped with a fixed single-track towing with opening support equipped with grooved contrast rollers.
- The belt is controlled by a brushless motor.
- The cut takes place continuously due to the 'guillotine effect'.
- The cutting carriage is motorized with a brushless motor.
- At the cutting point, the profile is kept in guide by special equipment.
- The machine is controlled via PLC with a touch-screen communication and data setting panel : the operator sets the length of the piece, the feed rate, accelerations, decelerations and displays the number of pieces produced.

#### **Technical Data**

Maximum cutting face (mm):	30
Fixed cutting stroke (mm):	20
Max speed advancement (m/1'):	30
Max cutting length (mm):	999.99
Cutting precision (mm):	+ - 0.5
Absorbed electrical power (Kw):	2
Machine dimensions (mm):	2650x700x1600 (h)
Weight (Kg):	460



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## *Continuous cutter mod. TE400-CAM*



### Machine suitable for obtaining pieces of desired length from the cutting of rubber pipes and similar

- Equipped with a feeding belt powered by a brushless motor.
- Equipped with counter-pressure roller and adjustable guides for containing and guiding the material to be cut.
- Motorized connecting rod/crank cutting system by brushless motor.
- The cutting carriage is equipped with a 'sheet press' group for the fixed holding of the product during cutting.
- Cutting takes place without the supply belt stopping during cutting.
- Hardened 1.2379 (K110) blades.
- Dry cutting without lubricants/coolants.
- Protection that can be opened and equipped with an electric lock in the part involved in the cutting.

#### **Technical Data**

Max. opening cutting blade (mm):	5
Front max. cutting (mm):	80
Min. cutting length (m/1'):	0.5
Max cutting length (mm):	9999.99
Cutting precision (mm):	+ - 0.075
Absorbed electrical power (Kw):	3
Machine dimensions (mm):	1250x1550x1700 (h)
Weight (Kg):	850



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## *Semiautomatic lathe TRN 20.160*



### Machine suitable for tuning of scraper ring with metallic external

- Single structure machine body in steel structural work, annealed and sandblasted
- Lathe head comprising a main carriage upon which other two carriages have been positioned for external turning and bevelling work
- The cutting head comprised two carriages - a mobile carriage along the X axis and another along the Y axis.
- Fast tool approach whilst the cut displacement is controlled by hydraulic brakes.
- Control unit comprising a high-yield brushless motor. The spindle is of a self-centring type with pneumatic closing.
- The machine is equipped with a semi-automatic loader and is fed by a hydraulic and a pneumatic circuit. It is supplied with an electric box and a man-machine communication panel assembled thereon.

#### **Technical Data**

Scraper ring with loader maximum external dimension (mm):	160
Manual scraper ring maximum external dimension (mm):	190
Scraper ring minimum internal dimension (mm):	20
Maximum spindle rotation speed (RPM):	3.000
Rotation control motor (Kw):	8
Dimensions (mm):	1.560x3.000x1.950
Weight (Kg):	1.184



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## Vertical burring machine for O-Rings RT-VR



Machine suitable to burr big dimension o-ring gaskets. Vertical system of working to save overall dimensions.

- Entirely covered and sound-proofed single structure.
- Burring work by means of emery cloth.
- Manual loading and unloading of pieces.
- Speed variation through electronic inverter.
- Pre-selection of work timing and o-ring tensioning.
- Machine controlled by plc assembled on machine.
- Storing system of 200 programmes of working.

Dati Tecnici	MOD. A	MOD. B
Travel (mm):	1.000	3.000
OR thread min. diameter (mm):	2	2
OR thread max. diameter (mm):	14	14
Compr. air consumption (NL/ciclo):	20	20
Rotation motor N.2 (Kw):	0,75	0,75
Traverse motor (Kw):	0,37	0,37
Max. electrical power (Kw)	2,5	2,5
Machine dimensions (mm):	1.500x1.200x3.180	1.150x1.200x4.330
Machine weight (Kg):	565	680



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## *Manual lathe PS1*



### Single chick lathe suitable for turning of sealed rings.

- Manual feeding.
- N° 3 kind of operations: external cutting, internal cutting and grinding.
- Max. diameter sealed rings: mm 1.400.
- All the operations are carried out by means of PLC.
- Speed of ring carrier is adjusted by A.C. motor controlled by electronic inverter.



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## *Lathe for rubber sealed rings PS5 x2*



- Rotation type machine with vertical axis and five work stations
- Each work station is equipped with two spindles for working two pieces at a time during any cycle phase
- Machine operation through pneumatic/electrical PLC logic
- Pulpit with control panel and man/machine communication
- Work cycle comprises:
  - a - loading
  - b - performance
  - c - first head for cutting
  - d - second head for cutting - expelling operation

### **Technical Data**

Min. working diameter (mm):	15
Max. working diameter (mm):	50
Cutting motor (Kw):	2,2
Rotation motor (Kw):	0,18
Feed pressure (bar):	8
Dimensions (mm):	1.000x1.680x1.530
Weight (Kg):	750



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## Turning lathe for grommets PS 4-8RM



- Machine of the rotating type with a vertical axel and more working stations (from four up to a maximum of eight).
- Arc-welded structure with a metallic framing.
- Cutting trolleys built on circular support with a pneumatic utensils carrier and a hydraulic speed control.
- Spindle rotating control obtained through an inverter controlled motor.
- Machine controlled through a pneumatics/electric plc logic with a t-line operator's panel of the hanging type.
- Working cycle comprising:
  - a - loading
  - b - pressing
  - c - working headsd - expulsion
- Machine fitted with dust suction system and conveying into a bag positioned in the machine frame.



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- Manual feeding either manually or through an automatic conveyor belt and vibrator when the diameter of the piece being worked allows it.
- Machine fully protected and accessible for adjustments from three sides through mobile panels fitted with electric locks.

### Technical Data

Min. worked external diameter (mm):	25
Max. worked external diameter (mm):	120
Spindle motor power (Kw):	3
Rotating speed (rpm):	4.500
Feeding pressure (bar):	6
Dimensions (mm):	2.100x1.650x2.000
Weight (Kg):	1.600



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## Vertical lathe TRV250



### Machine suitable for cutting bevels of gaskets

- Spindle with vertical axis, on which the aluminium/nylon form is positioned, with the molded part of the seal itself obtained.
- Seal positioned by the operator on the last.
- Two trolleys positioned on the table, above them are the cutting units.
- The movements of the carriages and cutting units are pneumatic.
- The cutting units are equipped with a speed regulator to control the finish of the cut.
- The cycle is started with two-hand buttons.
- Rotation motor controlled by inverter and equipped with electromagnetic brake.

#### **Technical Data**

Spindle motor power (kW):	0.75
Max. diameter workable (mm):	250
Max. range workable (mm):	20
Max. spindle speed (rpm):	1000
Power pressure (bar):	6
Total installed power (kW)	1
Dimensions (mm):	980x1060x1880(h)
Weight (Kg):	300



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## Caps lathe TC80/TC45



### Machines suitable for cutting the lip of rotating or sliding shaft seals

- Equipped with a tool carriage moving on pneumatically controlled guides,
- The cutting units are positioned on this carriage, which are also mobile on guides and operated by pneumatic cylinders,
- Machines supplied with coclea feeder and equipped with feeding track with adjustable guides with individualization of the passage of the piece,
- Rotation of the sealing mandrel obtained by a.c. motor self-braking,
- The remaining movements are pneumatically operated,
- The holding vacuum is obtained in line with a reversing valve for discharge at the end of the cycle,
- Interested part at the entrance to the work area protected by photoelectric barriers,
- Machines equipped with socket for 4.0 protocol and remote assistance module.

Technical Data	TC80	TC45
Max. loadable diameter (mm):	Øe 80	Øe 45
Minimum diameter (mm):	TBD	TBD
Spindle rotation (rpm):	2800	2800
Spindle motor power (kW):	2.2	2.2
Feeder (mm):	Ø 750	Ø 450
Indicative dimensions (mm):	1800x1850x2000(h)	1550x1870x2000(h)
Indicative weight (kg):	1100	900



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## Vertical lathe TRV2200-E



### Machine suitable for cutting the rubber lip of sealing rings for rotating shafts.

- Machine consisting of a bench with a vertical axis spindle inserted, motorized and controlled by an inverter,
- An aluminium form is positioned on the spindle on which the holes for housing the equipment for the seals are made,
- Trolleys positioned on the plane of the machine and mobile parallel to it, by means of motors,
- The cutting units for angular cuts are mounted on this carriages. The trolleys that perform the cuts are pneumatically controlled, equipped with a hydraulic decelerator and are positioned using dedicated motors,
- Position of the pressers to be adjusted manually according to the diameter,
- Machine equipped with photoelectric barriers on the working side,
- Machine equipped with socket for 4.0 protocol and remote assistance module.

#### **Technical Data**

Seals dimensions (mm):	Ø1100 a Ø2200
Max. spindle rotation (rpm):	50
Spindle power (kW):	5.5
Motors position power (kW):	0.1
Indicative dimensions (mm):	2600x3000x1750(h)
Indicative weight (kg)	3000



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## *Festooner machine single-basket*



### Machine suitable for scalloping rubber strips.

- Machine composed of a supporting structure and two frames with orthogonal crossed movement, which move the guide cone of the strip, depositing it in a crossed manner in the box positioned under the cone itself,
- The strip is guided in the system by means of a motorized belt equipped with a roller conveyor with upper containment springs. It is equipped with an independent motorization regulated by a potentiometer,
- Plant controlled by suitable analogue equipment in the cabinet,
- Manual controls, human/machine interface panel, tape potentiometer and fast retrieval button,
- Machine protected on the working side by photoelectric barriers.



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## Vertical tumbling barrels for finishing mod. BTP



### Water tumbling barrels for finishing operations on rubber surfaces as gaskets or technical items.

- Highly abrasion-resistant rubber-lined steel barrel.
- Variable barrel capacity from 130 litres to 2400 litres.
- d.c. motor or a.c. motor with electronic inverter or a.c. two speeds motor.
- Timer for rotation time programming.
- Bored covers in varying sizes.
- Electrovalve for water (on request).

Technical data	BTP330	BTP400	BTP2400
Drum capacity (lt.):	330	400	2.385
Rotation speed (RPM):	40	37	30
Motor power rotation (Kw):	2,25	3,25	30
Motor power tilting (Kw)	0,55	0,75	3
Dimensions (mm):	2.080x1.130x1.650	2.180x1.200x1.700	4.200x2.100x2.700
Weight (Kg):	610	680	5.310



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## Horizontal tumbling barrels for finishing mod. BRT



### Water tumbling barrels for finishing operations on rubber surfaces as gaskets or technical items

- Structure of steel plate welded.
- Octagonal and round close steel drums.
- On request is possible to set in a row a maximum of six drums.
- Drum dimensions: from m/m 800 to m/m 1200.
- Octagonal and round steel drums with holes.
- Timer to program drum rotation for h. 24.

Technical data	One drum model	Two drum model
Drums dimensions (mm):	800x1.000	800x1.000
Drum speed (RPM):	32	32
Rotation motor (HP):	2 at 1.400 RPM	4
Dimensions (mm):	1.200x1.900x1.500 (H.)	1.200x3.100x1.500 (H.)
Net weight (Kg):	650	770



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## *Gauging machine CLB 1500*



### Gauging machine for gaskets and related products on the grounds of different thicknesses

- Structure of steel plate welded.
- Machine is made up of two grinded steel cylinders with safety device preventing casing.
- Cylinders rotation by geared motor.
- Product feeding by hopper and linear buzzer.
- Gaskets collection by boxes for different thicknesses.
- Regulation system of distance between cylinders by hand-wheels and read out of micrometrical comparators.

#### OPTIONALS:

- Gasket feeding by delivery chute hopper
- Variable cylinders speed by inverter
- Cylinder length on request

#### Technical data

Motor (Kw):	0,37
Cylinder turns (RPM):	80
Cylinder turns by inverter (RPM):	0-200
Cylinder dimensions (mm):	Diam. 125x1500
Thicknesses (mm):	da 0,1 a 12
Dimensions (mm):	1.950x600x1.700
Net weight (Kg):	230



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## Selecting machine CT2



Machine is suitable for the selection of gaskets and technical items in rubber

- Structure of steel plate welded.
- Product sliding on two belts for a better readout of both faces of the product
- Button upsetting system by intersecting of belts.
- Product feeding by hoppers and adjustable linear buzzer for the best distribution on the belts.
- Collection boxes for faulty products situated in both sides of machine.
- Adjustable speed belt by electronic inverter.
- Electric plant installed with push-button panel and potentiometer for vibration intensity.

### OPTIONALS:

- Gaskets feeding by delivery chute hopper
- Electrical plant with pedal operated switches
- Electrical plant with knee operated switches

#### **Technical data**

Belt speed (m/min.):	da 0 a 12
Motor (Kw):	0,37 at 1.400 RPM.
Feeding:	by buzzer
Dimensions (mm):	1.840x550x1.540
Net weight (Kg):	210



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## Shot-blasting machine "CRYO 150"



This machine is configured to deflash technical rubber, silicon, plastic and similar products using liquid nitrogen.

- The product to be worked on is loaded onto a stainless steel basket, whereas the unloading is carried out through the said basket inverted rotation.
- The structure is insulated with polyuretene foam and entirely made in stainless steel guaranteeing a low nitrogen consumption and the machine long duration.
- The polycarbonate media feeding is carried out through a closed ring air plant.
- Working cycles are controlled by a p.l.c.l with a t-line communicatione keyboard.
- There is the possibility of an external vibrating sieve (optional), to separate the media, the discarding residues and the deflashed pieces.

### Technical Data

Basket volume (dmc):	150
Basket rotation speed (rpm):	0-15
Turbine rotation speed (rpm):	0-6.000
Cryogenic element :	ln2
Minimum working temperature (°C):	-160
Power installed (Kw):	11
Electric feeding:	380Vac / 50Hz
Dimensions (mm):	1.520x1.505x2.230 (h)
Net weight (Kg):	1.020



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## *Shot- Blasting Machine " G30 "*



Machine suitable for finishing of rubber part by cryogenic system.

### **Technical datas**

Basket volume (dm <sup>3</sup> ):	30
Cycle time (min):	2 - 4
Cryogenic element :	LN2
Basket rotation speed (rpm):	10 - 60
Blast wheel rotation speed (rpm):	60 - 6000
Power installed	Kw. 4,25
LN2 consumption	Kg. 0,6 - 1,6
Air consumption	l./min 0,3
Dimensions	cm. 110 x 110 x 150
Weight	Kg. 360



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## *Washing Machines for rubber gaskets*



- Machine completely in stainless steel or with supporting frame in iron and barrel in stainless steel
- Round or octogonal barrels of various capacities
- Loading of the barrel from the front or from the side
- Complete water recovery system with filter
- Drying system of the product
- Dosage system of silicone or shampoo by pump



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## *Polycarbonate shot for cryogenic deburring*

Reinforced polycarbonate cylinders resistant to very low temperatures and highspeed of the deburring process.

<b>CODEX</b>	<b>INCHES ( diagonal )</b>
15	0.015 X 0.015 X 0.021
20	0.020 X 0.020 X 0.028
30	0.030 X 0.030 X 0.042
38	0.038 X 0.038 X 0.054
45	0.045 X 0.045 X 0.063
60	0.060 X 0.060 X 0.085

Packaging: kg. 25 cardboard box.



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