

GARBOLI

Grinding & Polishing Machines

Smerigliatrici e Lucidatrici







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La Società GARBOLI, con esperienza ventennale, PROGETTA e PRODUCE macchine per la SMERIGLIATURA, SATINATURA, LUCIDATURA e FINITURA di ELEMENTI in METALLO con applicazione nei settori: arredobagno, automobilistico, aerospaziale, impiantistico industriale, carpenteria e molti altri.

Particolare attenzione è rivolta alle necessità dei clienti: possibilità di personalizzazione o realizzazione di macchine in funzione alle specifiche problematiche di lavorazione.

For more than 20 years the Company GARBOLI, has been DEVELOPING and PRODUCING machines for GRINDING, DEBURRING, BUFFING, POLISHING and FINISHING of METAL ITEMS, with applications in different branches as: bathrooms fittings, automotive, aerospace, plants engineering, metal constructions and many other.

Particular attention is given to customers needs: machines can be customized and manufactured in accordance to the specific requirements.



La nostra azienda è da sempre presente all'estero, con una capillare e radicata rete di rivenditori esclusivisti con esperienza pluridecennale ed attivi sui primari mercati mondiali. Questo ci consente di avere una quota export di circa l'85% sul nostro fatturato annuale e una presenza omogenea in tutti i continenti.

Negli oltre 20 anni di attività, la nostra azienda ha esportato oltre 4000 macchine nei vari modelli, consentendole di divenire market leader di settore, mentre la buona conoscenza dei mercati di sbocco, l'organizzazione interna con collaboratori commerciali e tecnici multilingue, oltre alla presenza di un apposito reparto dedicato alla fornitura di ricambi ed assistenza post-vendita, ci ha permesso di divenire partner privilegiati nonché fornitori ufficiali di aziende multinazionali di livello mondiale e con altissimi standard qualitativi e tecnologici.

Our company has always been export oriented and among the years has been supported by a strong and well established worldwide network of dealers with decades of experience and active on the main world markets.

Through this experience and thanks to reselling network our company is now exporting 85% of the annual turnover, with a strong presence in all continents.

Over 4000 units of our manufacturing portfolio have been produced and exported in more than 20 years of activity, enabling us to become market leader in our specific sector; moreover a deep markets knowledge, our internal sales and technicians with multilanguage skills and an appropriate department for after sales and customer care services are allowing us to become preferential partners and official suppliers of worldwide known multinational companies with high technological and quality standards.





LPC Series

Smerigliatrici a nastro abrasivo con sistema orbitale (dove i nastri ruotano intorno al pezzo in lavorazione) per la finitura e lucidatura di tubi tondi ovali ed ellittici sia dritti che curvati oppure conici o sagomati.

Abrasive belts grinding and polishing machines with orbital system (i.e. abrasive belts spinning around the workpiece that does not rotate during process) for buffing and finishing round, oval or elliptical shaped tubes, both straight, bent, taper and shaped.

LPC 90-135

Macchina per la smerigliatura in piccole serie di elementi con raggi di curvatura estremamente stretti e sagome complesse.

Polishing machine for low quantities of round tubes with small diameters and very tight bends or complex shapes.



D = 5-25/5-35 mm
(1" max)



R1 min. 46/68 mm
R2 = 1,5 x Ø mm



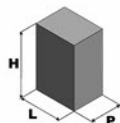
S = 262/290 mm
L = 14 mm



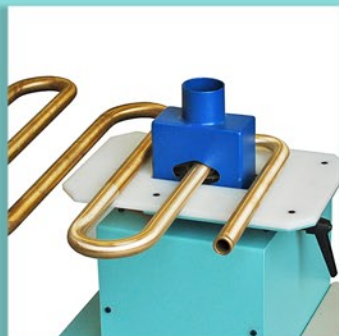
0,55 kw



66 kg



H = 120 cm
P = 50 cm
L = 60 cm



Sistema orbitale a nastri abrasivi con sistema di lavoro a secco, per elementi fino a diametro massimo 50 mm, in particolare con raggi di curvatura stretti oppure per diametri molto piccoli.

Dry operated orbital polishing machine, for items up to diameter 50 mm, particularly suitable for very bent and shaped tubes as well as for very small diameters.



$D = 5-50 \text{ mm}$
(2" max)



$R1 \text{ min. } 80 \text{ mm}$
 $R2 = 1,5 \times \varnothing \text{ mm}$



$S = 622 \text{ mm}$
 $L = 30 \text{ mm}$



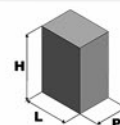
Disc = 1,1 kw
Belts = 2,2 kw



185 kg



$H = 125 \text{ cm}$
 $P = 90 \text{ cm}$
 $L = 100 \text{ cm}$



LPC 160 Wet

Versione ad umido con vasca esterna per la raccolta, filtraggio e ricircolo dell'emulsione di raffreddamento, sia con avvolgimento manuale che automatico (optional) della carta filtrante.

Wet operated version with external tank for collection, filtering and recirculation of the cooling mixture, with manual or automatic (optional) filtering paper roll up system.



D = 5-50 mm
(2" max)



R1 min. 80 mm
R2 = 1,5 x Ø mm



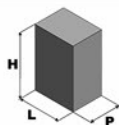
S = 622 mm
L = 30 mm



1,1 kw
2,2 kw 0,12 kw



210 kg



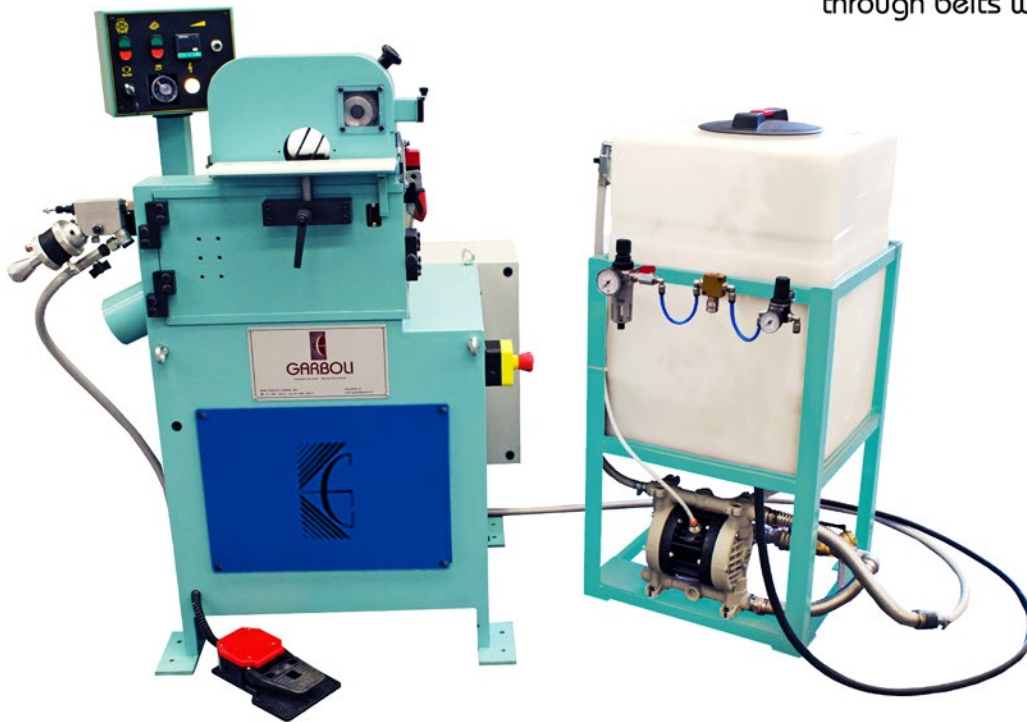
H = 116 cm
P = 100 cm
L = 85 cm



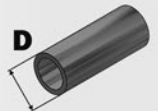
LPC 160 Mirror

Machina innovativa che consente la preparazione e successiva lucidatura a specchio di tubi molto curvi con nastri e pasta per lucidatura sia solida che liquida (optional).

Innovative machine which allows the preparation and the mirror polishing process on very bent tubes through belts with special belts and solid or liquid polishing paste (optional).



$D = 5-50 \text{ mm}$
(2" max)



$R1 \text{ min. } 80 \text{ mm}$
 $R2 = 1,5 \times \varnothing \text{ mm}$



$S = 622 \text{ mm}$
 $L = 30 \text{ mm}$



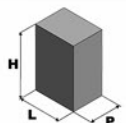
Disc = 1,5 hp
Belts = 3,0 hp



195 kg



$H = 116 \text{ cm}$
 $P = 100 \text{ cm}$
 $L = 85 \text{ cm}$



LPC 160 Vs

Versione speciale con basamento e pulegge modificati per consentire di lavorare elementi particolarmente sagomati e con raggi di curvatura anche inferiori a 90 gradi. Può essere realizzata anche in versione WET o Mirror.

Special version machine with modified structure and pulleys to better accommodate complex shaped tubes or with tight bending radius, even lower than 90 degrees. WET or Mirror versions are also available.



D = 5-50 mm
(2" max)



R = 1,2 x Ø mm



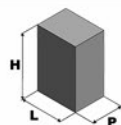
S = 622 mm
L = 15 mm



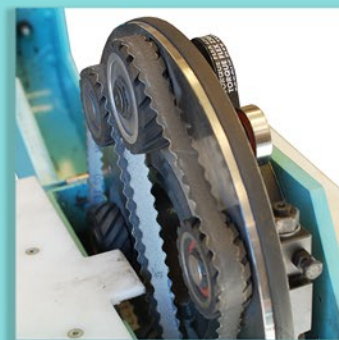
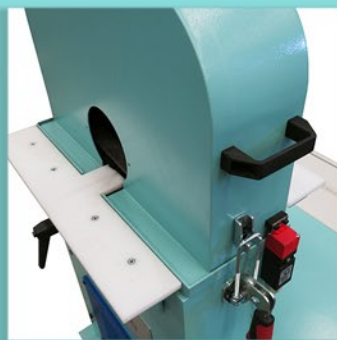
Disc = 1,1 kw
Belts = 2,2 kw



185 kg



H = 116 cm
P = 100 cm
L = 85 cm



Machina a due unità di levigatura, in un solo passaggio si possono ottenere differenti finiture. Particolarmente adatta per la pulitura di fili di piccolo diametro. Può essere realizzata anche in versione WET.

Tandem machine for grinding process with different grits in one pass; particularly suitable for short lengths and small diameter straight tubes. WET version also available.



D = 5-50 mm
(2" max)



S = 622 mm
L = 30 mm



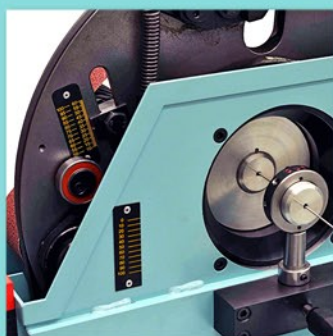
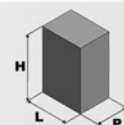
Disc = 2x 1,1 kw
Belts = 2x 2,2 kw



400 kg



H = 120 cm
P = 90 cm
L = 160 cm



LPC 300

Con sistema di lavoro a secco, per elementi tondi oppure ovali fino al diametro massimo 103 mm. Sia dritti che curvati.

Dry operated unit for straight or bent tubes up to 103 mm diameter. In both round or oval sections.



D = 5-103 mm
(4" max)



R1 min. 150 mm
R2 = 1,5 x Ø mm



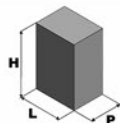
S = 940 mm
L = 60 mm



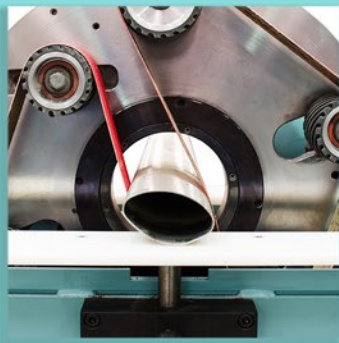
Disc = 1,5 kw
Belts = 3,0 kw



270 kg



H = 126 cm
P = 100 cm
L = 100 cm

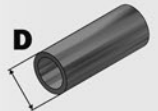


Smerigliatrice ad umido con vasca esterna per la raccolta, filtraggio e ricircolo dell'emulsione di raffreddamento, sia con avvolgimento manuale che automatico (optional) della carta filtrante.

Wet operated tube polishing machine with external tank for collection, filtering and recirculation of the cooling mixture, with manual or automatic (optional) filtering paper roll up system.



$D = 5-103 \text{ mm}$
(4" max)



$R1 \text{ min. } 150 \text{ mm}$
 $R2 = 1,5 \times \varnothing \text{ mm}$



$S = 940 \text{ mm}$
 $L = 60 \text{ mm}$



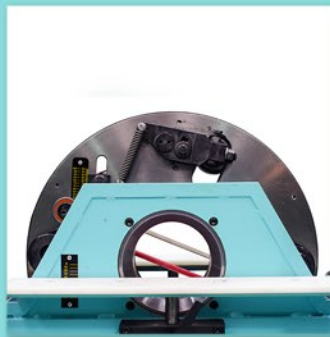
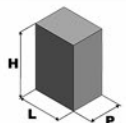
1,5 kw
0,12 kw 3,0 kw



310 kg



$H = 126 \text{ cm}$
 $P = 150 \text{ cm}$
 $L = 100 \text{ cm}$



LPC 300 Mirror

Macchina innovativa che consente la preparazione e successiva lucidatura a specchio di tubi molto curvi con nastri e pasta per lucidatura sia solida che liquida (optional).

Innovative machine which allows the preparation and then the mirror polishing process on very bent tubes through special belts operating with solid or liquid polishing paste (optional).



D = 5-103 mm
(4" max)



R1 min. 150 mm
R2 = 1,5 x Ø mm



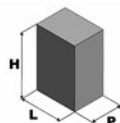
S = 940 mm
L = 60 mm



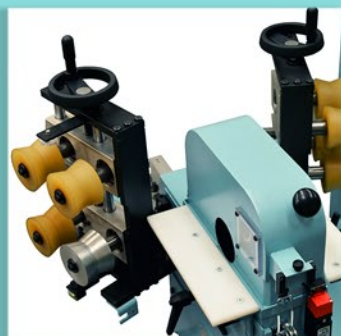
Disc = 1,5 kw
Belts = 7,5 kw



295 kg



H = 126 cm
P = 105 cm
L = 100 cm



Versione speciale con basamento e pulegge modificate per consentire di smerigliare elementi particolarmente sagomati e raggi di curvatura anche inferiori a 90 gradi.

Special version tube polishing machine with modified structure and pulleys to better accommodate complex shaped tubes or with tight bending radius, even lower than 90 degrees.



$D = 5-103 \text{ mm}$
(4" max)



$R = 1,2 \times \varnothing \text{ mm}$



$S = 940 \text{ mm}$
 $L = 30 \text{ mm}$



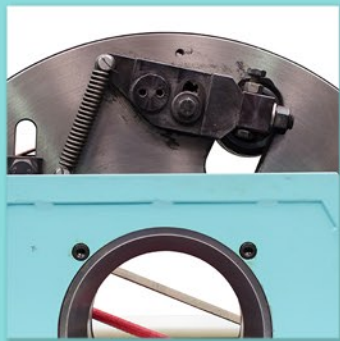
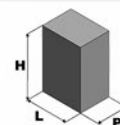
Disc = 1,5 kw
Belts = 3,0 kw



270 kg



$H = 126 \text{ cm}$
 $P = 100 \text{ cm}$
 $L = 100 \text{ cm}$



LPC 300 S

Macchina a due unità di media produttività per la smerigliatura con abrasivi di differente tipologia per ottenere in un unico passaggio un ottimo grado di finitura su elementi dritti anche di ridotte dimensioni. Può essere realizzata anche in versione WET.

Tandem machine for grinding processes with different grits in one pass, suitable for medium productivity requirements on straight tubes or for short lengths tubes. WET version also available.



D = 5-103 mm
(4" max)



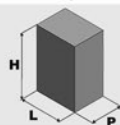
S = 940 mm
L = 60 mm



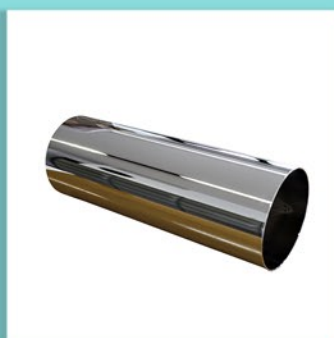
Disc = 2x 1,5 kw
Belts = 2x 3,0 kw



520 kg



H = 126 cm
P = 100 cm
L = 200 cm



Smerigliatrice orbitale con sistema di lavorazione a secco, per elementi fino al diametro massimo 200 mm, tubi dritti o leggermente curvati a sezione tonda ed ovale.

Dry operated belt polishing machine for items with max diameter 200 mm, suitable for straight and slightly bent tubes with round and oval shape.



D = 10-203 mm
(8" max)



R min. 225mm



S = 1500 mm
L = 90 mm



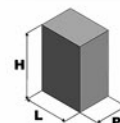
Disc = 2,2 kw
Belts = 7,5 kw



455 kg



H = 145 cm
P = 115 cm
L = 120 cm



LPC 500 Wet

Smerigliatrice ad umido con vasca esterna per la raccolta, filtraggio e ricircolo dell'emulsione di raffreddamento, sia con avvolgimento manuale che automatico (optional) della carta filtrante.

Wet operated tube polishing machine with external tank for collection, filtering and recirculation of the cooling mixture, with manual or automatic (optional) filtering paper roll up system.



D = 10-203 mm
(8" max)



R min. 225 mm



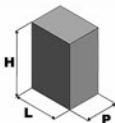
S = 1500 mm
L = 90 mm



2,2 kw
7,5 kw 0,12 kw



505 kg



H = 145 cm
P = 150 cm
L = 120 cm



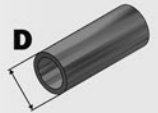
LPC 500 Mirror

Machina innovativa che oltre a smerigliare consente di pulire a specchio tubi dritti e curvati con nastri e pasta per lucidatura liquida.

Innovative machine for surface preparation and mirror polishing process on straight and bent tubes with special belts carrying liquid polishing paste.



D = 10-203 mm
(8" max)



R min. 225 mm



S = 1500 mm
L = 90 mm



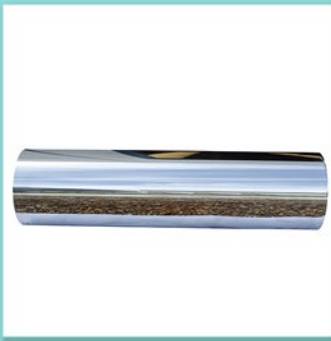
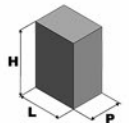
Disc = 2,2 kw
Belts = 11 kw



475 kg



H = 145 cm
P = 100 cm
L = 120 cm



LPC 500 V_S-T_E

Modello con basamento e pulegge modificati per consentire di smerigliare elementi particolarmente sagomati e con raggi di curvatura anche inferiori a 90 gradi.

Special version tube polishing machine with modified structure and pulley to better accomodate complex shaped tubes or with tight bending radius, even lower than 90 degrees.



D = 10-203 mm
(8" max)



R = 1,2 x Ø mm



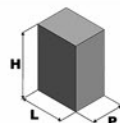
S = 1500 mm
L = 45 mm



Disc = 2,2 kw
Belts = 7,5/11 kw



455 kg



H = 145 cm
P = 115 cm
L = 120 cm



Macchina a due teste con differenti nastri abrasivi per ottenere in un solo passaggio differenti finiture su tubi dritti.
Può essere realizzata anche in versione WET.

Tandem machine for grinding process with different abrasive belts to obtain an excellent straight pipe finishing in one pass.
WET version also available.



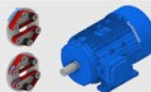
D = 10-203 mm
(8" max)



S = 1500 mm
L = 90 mm



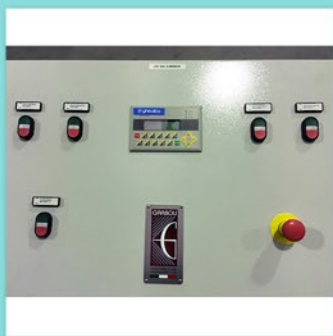
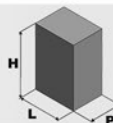
Disc = 2x 2,2 kw
Belts = 2x 7,5 kw



1010 kg



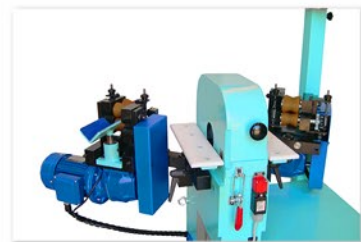
H = 145 cm
P = 115 cm
L = 190 cm



Accessori/Optionals LPC Series

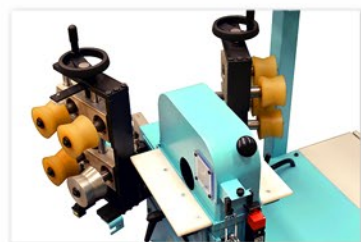
AV avanzamento AUTOCENTRANTE a velocità variabile con inverter per elementi dritti e CONICI con diametro massimo di 45 mm (possibilità di spostamento laterale per lavorazione "manuale")

AV SELF-CENTERING feed with adjustable speed through inverter device for straight and TAPER PARTS max diameter 45 mm (hinged for "manual" feedings)



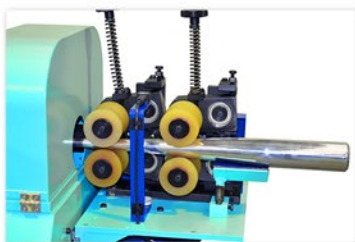
ADN avanzamento automatico per tubi dritti, con 4+4 rulli (NON per pezzi conici) a velocità variabile con inverter

ADN automatic self centering feed system for straight tubes with 4+4 rollers (NOT for taper parts) with



ALT avanzamento automatico AUTOCENTRANTE per elementi CONICI o cilindrici, a velocità variabile con inverter (possibilità di spostamento laterale per lavorazione "manuale")

ALT SELF-CENTERING automatic feed for straight and cylindrical TAPER PARTS and adjustable feed with inverter (hinged for "manual" feed processings)



AVU avanzamento UNIVERSALE per elementi curvati e dritti a velocità variabile con inverter

AVU "UNIVERSAL" feed for both straight and bent parts with adjustable speed through inverter



Vasca con avvolgimento automatico carta filtrante
Wet cooling system with automatic filtering paper roll-up





AN accessorio con comando a pedale per facilitare l'introduzione dell'elemento da lavorare fra i nastri

AN foot pedal equipment for an easier workpiece insert between the abrasive belts



AN/A accessorio per evitare la rottura dei nastri abrasivi, composto da fotocellula e timer in/out per determinare l'apertura e la chiusura dei nastri abrasivi (da abbinare agli avanzamenti AD-AV-AVU-ALT)

AN/A equipment that AVOIDS ABRASIVE BELTS BREAKING, complete with photocell and in/out timers to determinate abrasive belts opening and closing (to link with AV-AVU-ALT-ADN feed systems)



Velocità rotazione nastri abrasivi variabile (10-30 mt/sec) con inverter e display digitale per lettura reale in mt/sec

Abrasive belts speed adjustable (10-30 mt/sec) with inverter and digital display with mt/sec real values



Pannello di controllo con display digitale per regolare la velocità dei nastri abrasivi e dell'avanzamento

Controls panel with digital display for belts speed and feed system speed adjusting



Dispenser automatico per pasta abrasiva liquida (solo su Mirror)

Automatic dispenser for liquid abrasive paste (only for Mirror version)

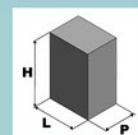
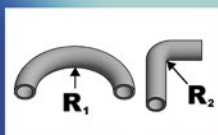


Touch-Screen per la programmazione dei cicli di lavoro, variazione velocità di avanzamento e ritorno pezzo automatico

Touch-Screen controls panel for working cycles programming, feed rate adjustment and automatic feed reverse

TABELLA COMPARATIVA MACCHINE

LPC



90-135

D = 5-25/5-35 mm
(1" max)

R1 min. 46 / 68 mm
R2 = 1,5 x Ø mm

S = 262/290 mm
L = 14 mm

66 kg

H = 110 cm
P = 55 cm
L = 42 cm

160

D = 5-50 mm
(2" max)

R1 min. 80 mm
R2 = 1,5 x Ø mm

S = 622 mm
L = 30 mm

185 kg

H = 116 cm
P = 100 cm
L = 85 cm

160 Wet

D = 5-50 mm
(2" max)

R1 min. 80 mm
R2 = 1,5 x Ø mm

S = 622 mm
L = 30 mm

210 kg

H = 116 cm
P = 100 cm
L = 85 cm

160 Mirror

D = 5-50 mm
(2" max)

R1 min. 80 mm
R2 = 1,5 x Ø mm

S = 622 mm
L = 30 mm

195 kg

H = 116 cm
P = 100 cm
L = 85 cm

160 Vs

D = 5-50 mm
(2" max)

R2 = 1,2 x Ø mm

S = 622 mm
L = 15 mm

185 kg

H = 116 cm
P = 100 cm
L = 85 cm

160 S

D = 5-50 mm
(2" max)

/

S = 622 mm
L = 30 mm

400 kg

H = 128 cm
P = 90 cm
L = 160 cm

300

D = 5-103 mm
(4" max)

R1 min. 150 mm
R2 = 1,5 x Ø mm

S = 940 mm
L = 60 mm

270 kg

H = 126 cm
P = 100 cm
L = 100 cm

300 Wet

D = 5-103 mm
(4" max)

R1 min. 150 mm
R2 = 1,5 x Ø mm

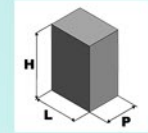
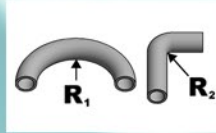
S = 940 mm
L = 60 mm

310 kg

H = 126 cm
P = 100 cm
L = 100 cm

MACHINES COMPARATIVE CHART

LPC



300 Mirror

D = 5-103 mm
(4" max)

R1 min. 150 mm
R2 = 1,5 x Ø mm

S = 940 mm
L = 60 mm

295 kg

H = 126 cm
P = 105 cm
L = 100 cm

300 Vs

D = 5-103 mm
(4" max)

R2 = 1,2 x Ø mm

S = 940 mm
L = 30 mm

270 kg

H = 126 cm
P = 100 cm
L = 100 cm

300 S

D = 5-103 mm
(4" max)

S = 940 mm
L = 60 mm

520 kg

H = 126 cm
P = 100 cm
L = 200 cm

500

D = 10-203 mm
(8" max)

R1 min. 225 mm

S = 1500 mm
L = 90 mm

455 kg

H = 145 cm
P = 100 cm
L = 120 cm

500 Wet

D = 10-203 mm
(8" max)

R1 min. 225 mm

S = 1500 mm
L = 90 mm

505 kg

H = 145 cm
P = 100 cm
L = 120 cm

500 Mirror

D = 10-203 mm
(8" max)

R1 min. 225 mm

S = 1500 mm
L = 90 mm

475 kg

H = 155 cm
P = 220 cm
L = 130 cm

500 Vs

D = 10-203 mm
(8" max)

R2 = 1,2 x Ø mm

S = 1500 mm
L = 45 mm

455 kg

H = 145 cm
P = 100 cm
L = 120 cm

500 S

D = 10-203 mm
(8" max)

S = 1500 mm
L = 90 mm

1010 kg

H = 155 cm
P = 220 cm
L = 130 cm

TABELLA COMPATIBILITA' ACCESSORI

LPC

90-135

160
160 Wet
160 Vs

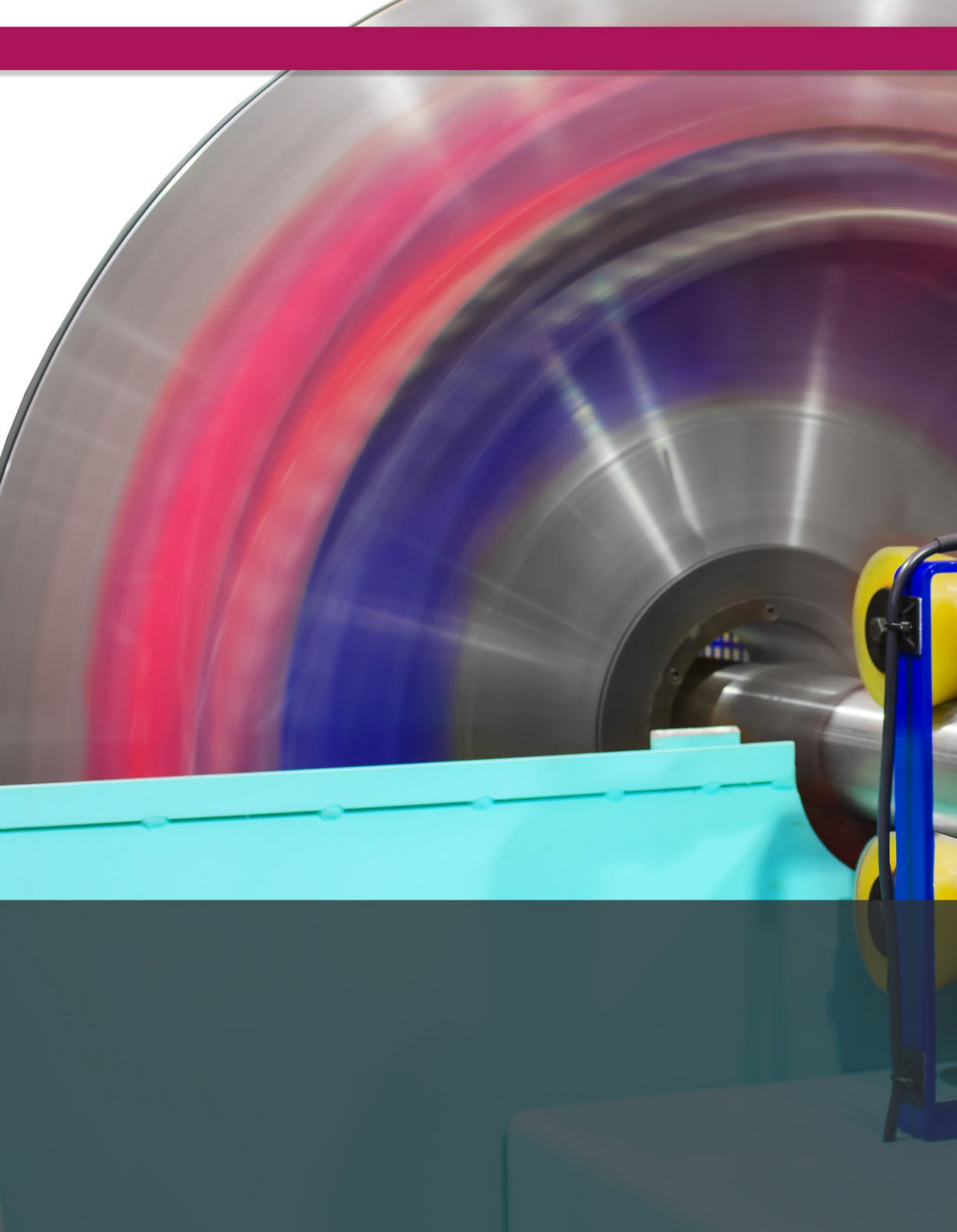
300
300 Wet
300 Vs

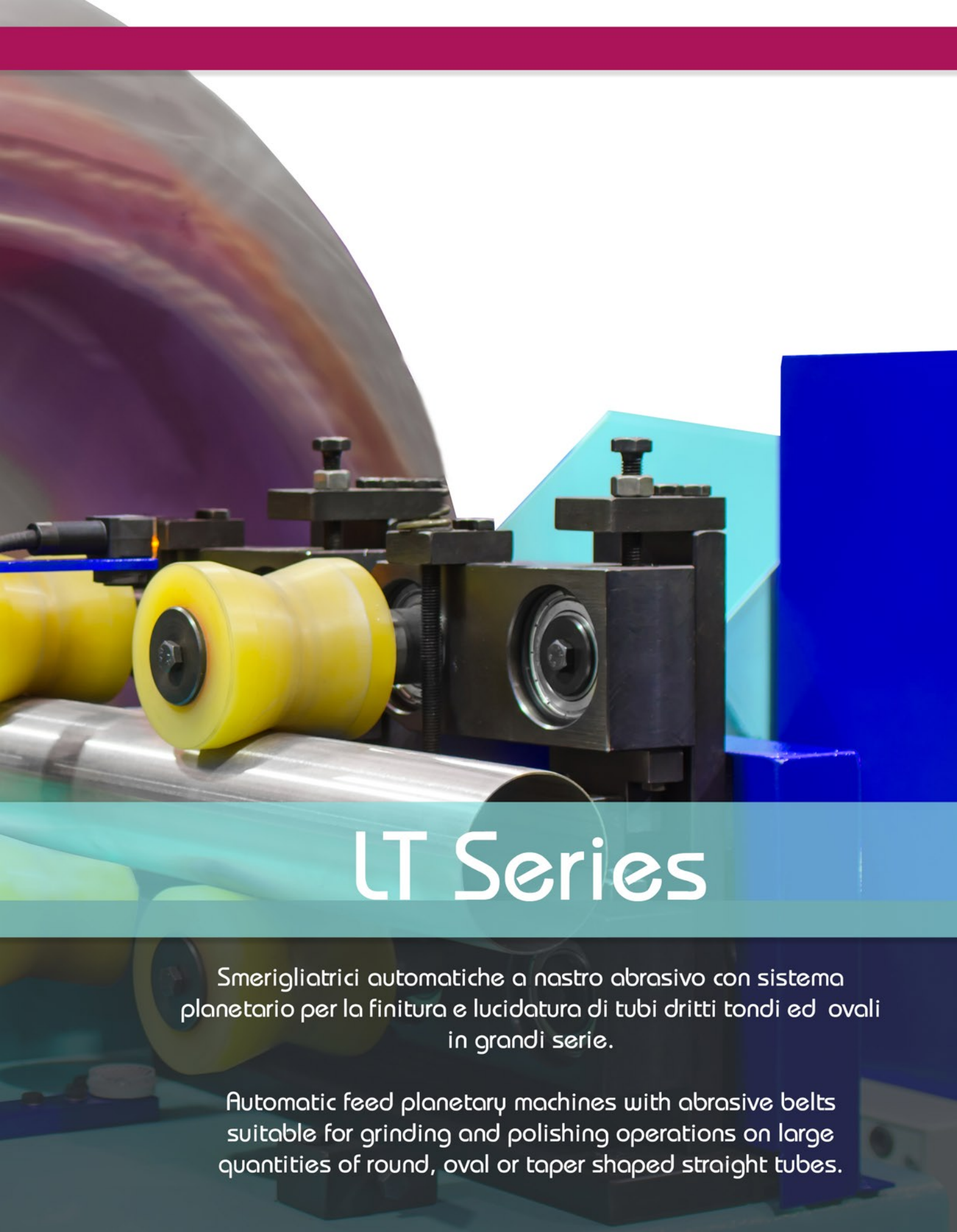
500
500 Wet
500 Vs



ACCESSORIES COMPATIBILITY CHART

160 Mirror	160 S	300 Mirror	300 S	500 Mirror	500 S	
•	•	•	•	•	•	AV
•	•	•	•	•	•	ADN
		•	•	•	•	ALT
•		•		•		AVU
						Automatic filtering system
•		•		•		AN
•		•		•		AN/A
	•		•		•	Belts Inverter
	•		•		•	Belts and Feed speed Inverter
•		•		•		Dispenser
•	•	•	•	•	•	Touchscreen





LT Series

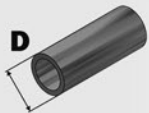
Smerigliatrici automatiche a nastro abrasivo con sistema planetario per la finitura e lucidatura di tubi dritti tondi ed ovali in grandi serie.

Automatic feed planetary machines with abrasive belts suitable for grinding and polishing operations on large quantities of round, oval or taper shaped straight tubes.

LT 130

Smerigliatrice planetaria a nastri in versione a secco, con avanzamento automatico per tubi dritti e conici. Macchina per medio-grandi produzioni, anche in linea.

Dry operated planetary belt polishing machine with automatic feed system for straight tubes and solid bars or wire processing, suitable for medium-high production requirements, even for in-line process.



D = 10-127 mm
(5" max)



S = 2000 mm
L = 120 mm



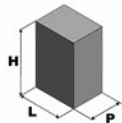
Disc = 2,2 kw
Belts = 5,5 kw
2 x 0,25 kw



1-20 m/min



710 kg

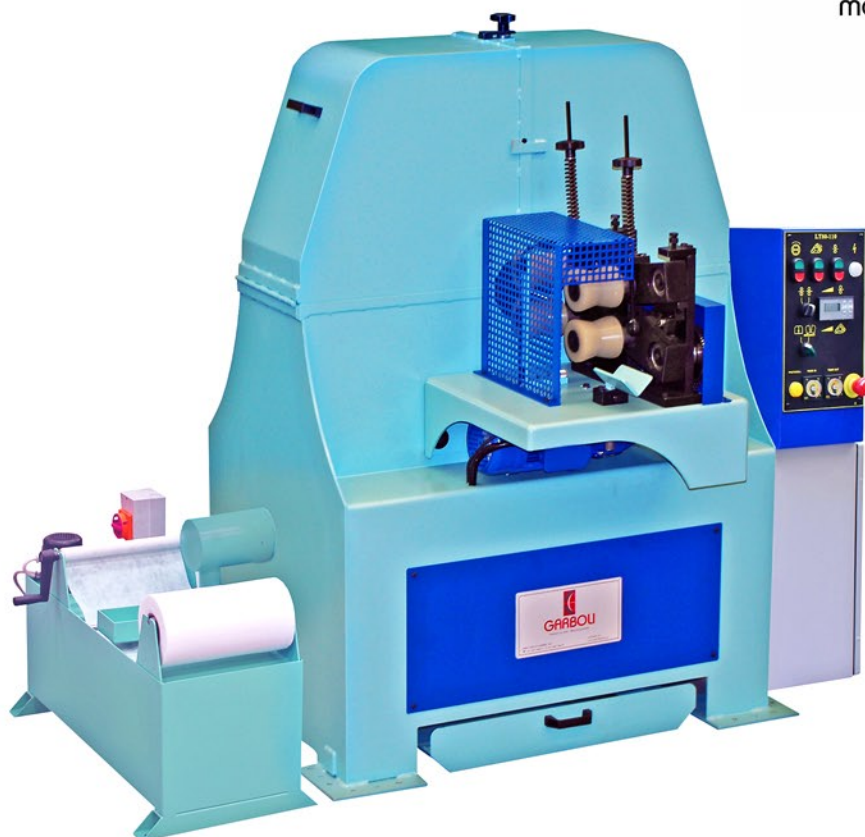


H = 150 cm
P = 136 cm
L = 110 cm

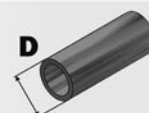


Versione ad umido con vasca esterna per la raccolta, filtraggio e ricircolo dell'emulsione di raffreddamento, sia con avvolgimento manuale che automatico (opzionale) della carta filtrante.

Wet operated version with external tank for collection, filtering and recirculation of the cooling mixture, with manual or automatic (as option) filtering paper roll up system.



D = 10-127 mm
(5" max)



S = 2000 mm
L = 120 mm



2,2 kw
0,12 kw 5,5 kw
2 x 0,25 kw



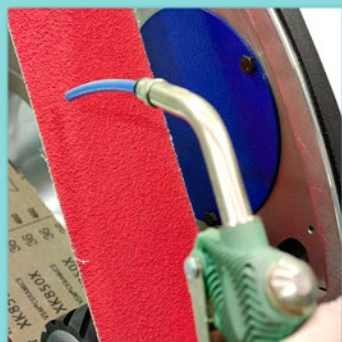
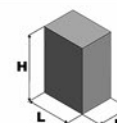
1-20 m/min



760 kg



H = 150 cm
P = 136 cm
L = 160 cm



LT 130 Mirror

Macchina orbitale che oltre a smerigliare consente di pulire a specchio tubi dritti con nastri e pasta liquida per lucidatura.

Belt planetary machine for surface preparation and mirror polishing process on straight tubes with special belts operating with liquid polishing paste.



D = 10-127 mm
(5" max)



S = 2000 mm
L = 120 mm



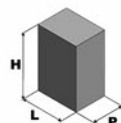
Disc = 2,2 kw
Belts = 11 kw
2 x 0,25 kw



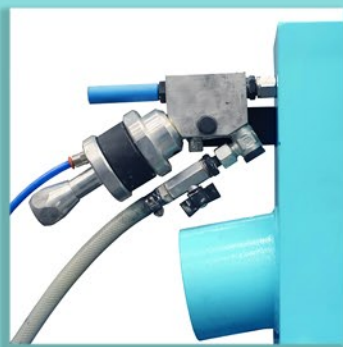
1-20 m/min



800 kg



H = 155 cm
P = 220 cm
L = 135 cm



Macchina a due o più unità per la smerigliatura di grande produzione su elementi dritti, con differenti nastri abrasivi si possono ottenere in un solo passaggio differenti finiture.

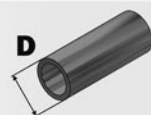
Unità con sistema di lavoro sia a secco che ad umido.

Dry operated multiheads machine for grinding process with different grits and in one pass, suitable for big output requirements on straight tubes and pipes.

WET version also available.



$D = 10-127 \text{ mm}$
(5" max)



$S = 2000 \text{ mm}$
 $L = 120 \text{ mm}$



Disc = 2 x 2,2 kw
Belts = 2 x 7,5 kw
3 x 0,25 kw



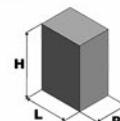
1-20 m/min



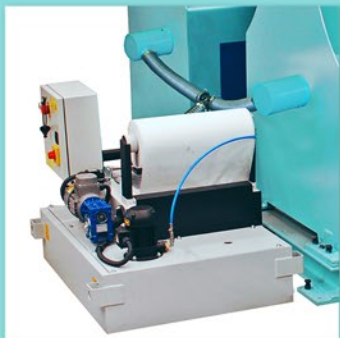
1500 kg



$H = 155 \text{ cm}$
 $P = 135 \text{ cm}$
 $L = 190 \text{ cm}$



(Data referenced to two heads)



LT 130 Wire

Versione speciale per la lavorazione del filo metallico fino al diametro minimo 5 mm in versione a secco o ad umido. Unità in grado di lavorare sia in-line che off-line.

Special version for wire polishing down to 5 mm minimum size, available in both dry and wet version. Unit suitable for both in-line and off-line processing.



D = 2-50 mm
(2" max)



S = 2000 mm
L = 120 mm



Disc = 2,2 kw
Belts = 5,5 kw
2 x 0,25 kw

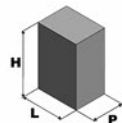


V
Feed

1-40 m/min



710 kg



H = 150 cm
P = 136 cm
L = 110 cm

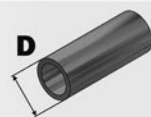


Smerigliatrice planetaria a nastri in versione a secco,
con avanzamento automatico per tubi dritti, barre
tonde fino al diametro massimo 200 mm.
Macchina per medio-grandi produzioni.

Dry operated planetary belt polishing machine with
automatic feed system for straight tubes and solid bars
up to 200 mm diameter.
Suitable for medium-high production requirements.



D = 10-203 mm
(8" max)



S = 1500 mm
L = 90 mm



Disc = 2,2 kw
Belts = 7,5 kw
2 x 0,25 kw



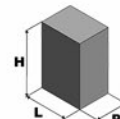
1-20 m/min



700 kg



H = 160 cm
P = 120 cm
L = 110 cm



LT 200 Wet

Smerigliatrice ad umido con vasca esterna per la raccolta, filtraggio e ricircolo dell'emulsione di raffreddamento, sia con avvolgimento manuale che automatico (opzionale) della carta filtrante.

Wet operated tube polishing machine with external tank for collection, filtering and recirculation of the cooling mixture, with manual or automatic (optional) filtering paper roll up system.



D = 10-203 mm
(8" max)



S = 1500 mm
L = 90 mm



2,2 kw
7,5 kw 0,12 kw
2 x 0,25 kw

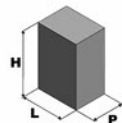


Feed

1-20 m/min



750 kg



H = 145 cm
P = 180 cm
L = 105 cm



LT 200 Mirror

Machina orbitale a nastro abrasivo che oltre a smerigliare consente di pulire a specchio tubi dritti con nastri e pasta liquida per lucidatura.

Belt planetary machine for surface preparation and mirror polishing process on straight tubes with special belts operating with liquid polishing paste.



D = 10-203 mm
(8" max)



S = 1500 mm
L = 90 mm



Disc = 2,2 kw

Belts = 11 kw

2 x 0,25 kw



1-20 m/min



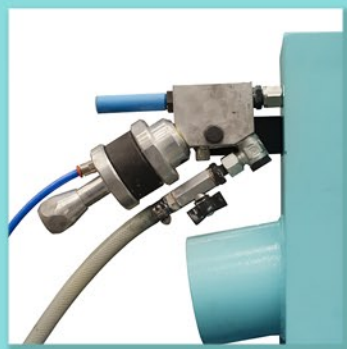
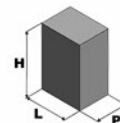
730 kg



H = 145 cm

P = 180 cm

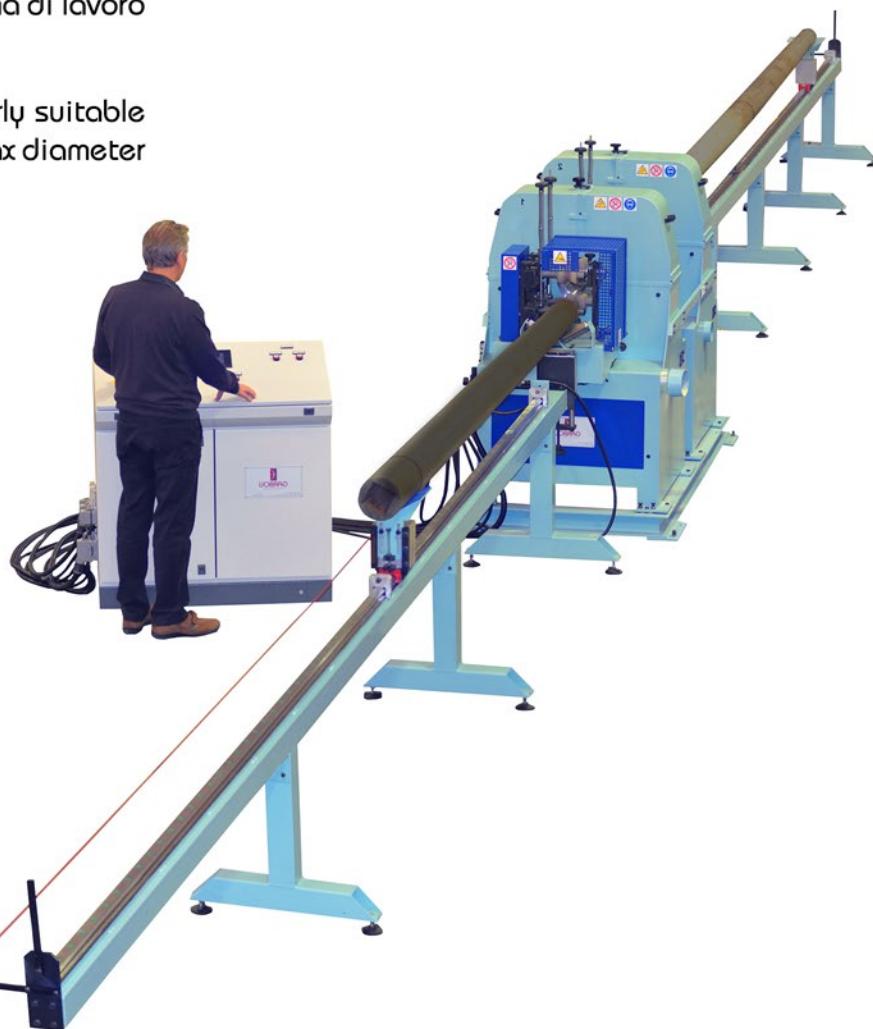
L = 105 cm



LT 200 S

Macchina smerigliatrice a due unità particolarmente adatta per tubi molto lunghi dritti o conici fino al diametro massimo 203 mm. Unità con sistema di lavoro sia a secco che umido.

Double headed polishing machine particularly suitable for very long straight or taper tubes up to max diameter 203 mm. WET version also available.



D = 10-203 mm
(8" max)



S = 1500 mm
L = 90 mm



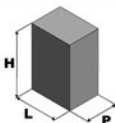
Disc = 2x 2,2 kw
Belts = 2x7,5 kw
3 x 0,25 kw



1-20 m/min



1400 kg

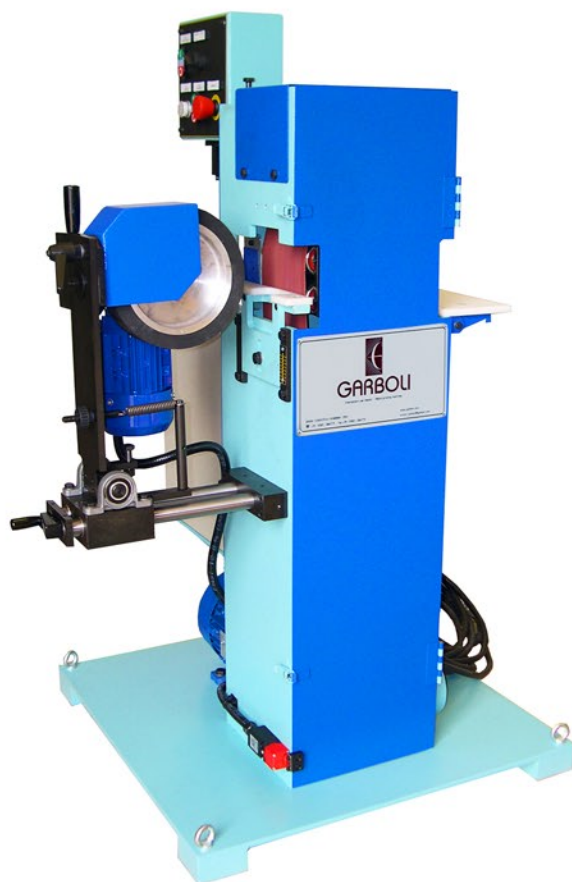


H = 145 cm
P = 110 cm
L = 200 cm

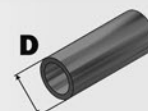


Macchina centerless per smerigliare tubi dritti ed in particolare elementi molto corti con lunghezza minima fino a 20 mm.

Centerless polishing machine for straight round tubes, particularly suitable for very short items down to 20 mm minimum length.



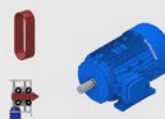
$D = 10-80 \text{ mm}$
(3" max)



$S = 2180 \text{ mm}$
 $L = 140 \text{ mm}$



Belt = 3,0 kw



Feed = 0,1 kw



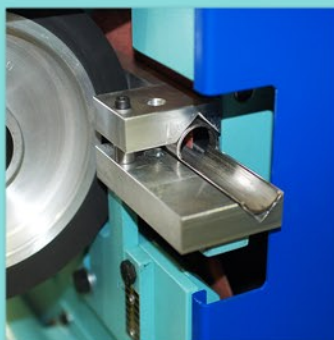
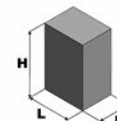
1-10 m/min



220 kg



$H = 130 \text{ cm}$
 $P = 70 \text{ cm}$
 $L = 100 \text{ cm}$



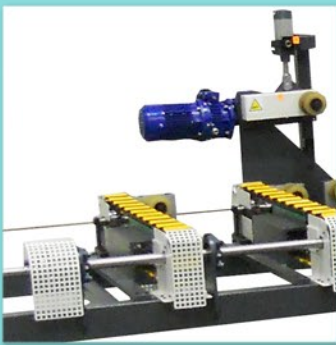
Linee Automatiche con Carico-Scarico

LT 130 S con Carico-Scarico.

LT 130 S with Loader-Unloader.

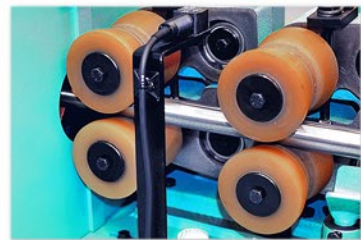


Automatic Lines with Loader-Unloader



AN/A accessorio per evitare la rottura dei nastri abrasivi, composto da fotocellula e spazio in/out per determinare l'apertura e la chiusura dei nastri abrasivi

AN/A equipment to avoid abrasive belt breaking, consisting of photoeye and space in/out to adjust abrasive belts opening/closing time



Gruppo avanzamento posteriore motorizzato

Powered for back feed rollers



Accessorio inverter per nastri abrasivi

Inverter device for abrasive belts speed adjustment



Fotocellula per rottura nastri

Photoeye for abrasive belts breaking detection



Vasca con avvolgimento automatico carta filtrante

Wet cooling system with automatic filtering paper roll-up





Rulliera ad altezza regolabile

Rollers table with adjustable height



Touch-Screen per la programmazione dei cicli di lavoro, variazione velocità di avanzamento e ritorno pezzo automatico

Touch-Screen controls panel for working cycles programming, feed rate adjustment and automatic feed reverse



Piattaforma di sollevamento

Hoisting platform for machine centerheight adjustment



Sistemi di carico/scarico automatico

Automatic loading/unloading systems



Caricatore passo-passo tubi tondi ed ovali

Step-by-step loader for round and oval tubes

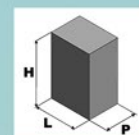


Caricatore tipo CM

Loader type CM

TABELLA COMPARATIVA MACCHINE

LT



130

D = 10-127 mm
(5" max)

S = 2000 mm
L = 120 mm

1-20 m/min

710 kg

H = 150 cm
P = 136 cm
L = 110 cm

130 Wet

D = 10-127 mm
(5" max)

S = 2000 mm
L = 120 mm

1-20 m/min

760 kg

H = 150 cm
P = 136 cm
L = 160 cm

130 Mirror

D = 10-127 mm
(5" max)

S = 2000 mm
L = 120 mm

1-20 m/min

800 kg

H = 150 cm
P = 136 cm
L = 120 cm

130 S

D = 10-127 mm
(5" max)

S = 2000 mm
L = 120 mm

1-20 m/min

1500 kg

H = 162 cm
P = 260 cm
L = 160 cm

130 Wire

D = 2-50 mm
(2" max)

S = 2000 mm
L = 120 mm

1-40 m/min

710 kg

H = 150 cm
P = 136 cm
L = 110 cm

200

D = 10-203 mm
(8" max)

S = 1500 mm
L = 90 mm

1-20 m/min

700 kg

H = 160 cm
P = 120 cm
L = 110 cm

200 Wet

D = 10-203 mm
(8" max)

S = 1500 mm
L = 90 mm

1-20 m/min

750 kg

H = 160 cm
P = 120 cm
L = 160 cm

200 Mirror

D = 10-203 mm
(8" max)

S = 1500 mm
L = 90 mm

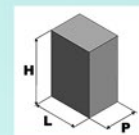
1-20 m/min

730 kg

H = 172 cm
P = 240 cm
L = 160 cm

MACHINES COMPARATIVE CHART

LT



200 S

D = 10-203 mm
(8" max)

S = 1500 mm
L = 90 mm

1-20 m/min

1400 kg

H = 172 cm
P = 240 cm
L = 160 cm

TRIS

D = 10-80 mm
(5" max)
L = 20-3000 mm

S = 2180 mm
L = 140 mm

1-10 m/min

220 kg

H = 155 cm
P = 123 cm
L = 136 cm



TABELLA COMPATIBILITA' ACCESSORI

LT

130
130 Wet

130 Mirror

130 S

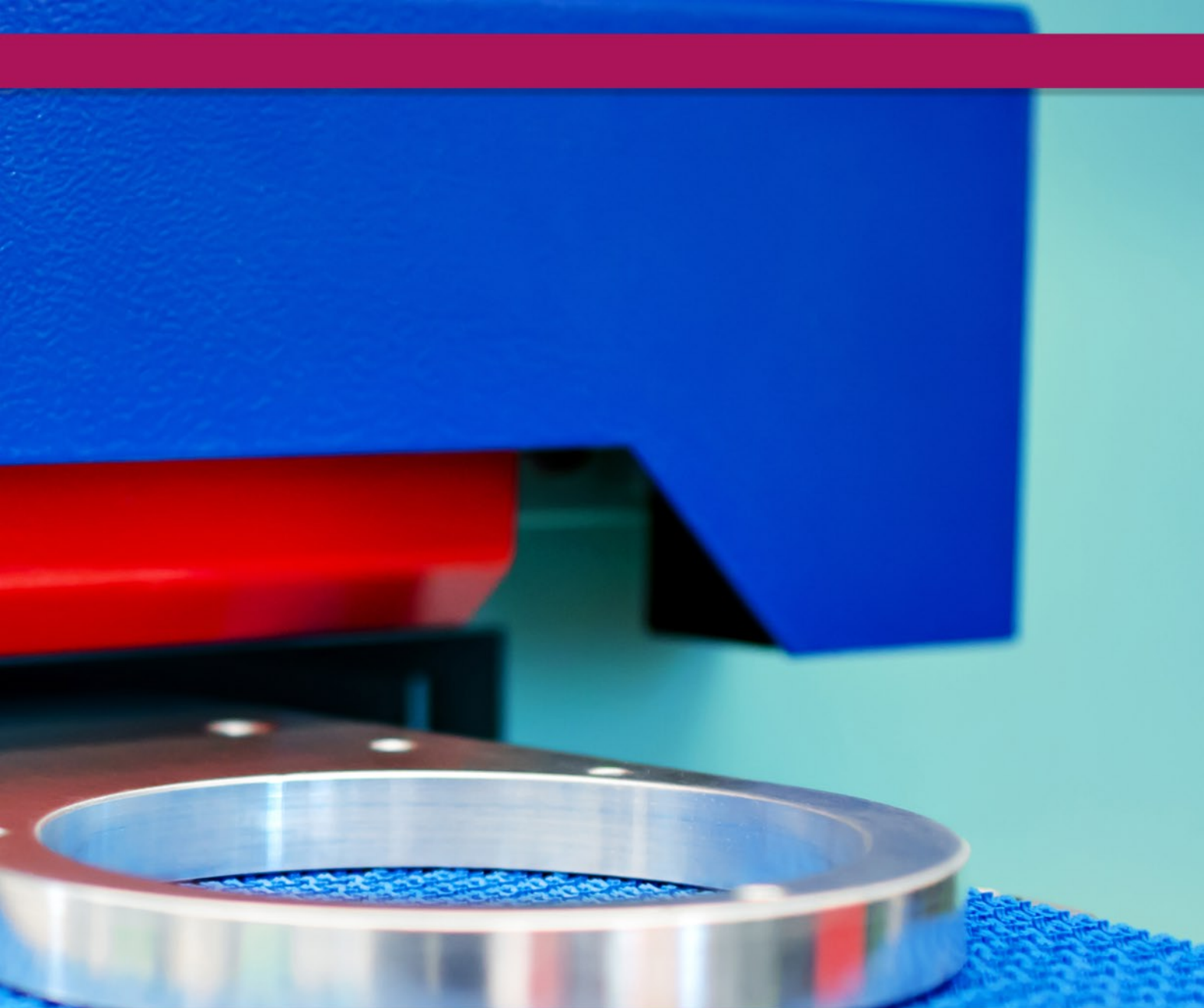
130 Wire



ACCESSORIES COMPATIBILITY CHART

200 200 Wet	200 Mirror	200 S	TRIS	
•	•	•		AN/A Photoeye
•	•	•		Powered Back Feed
•	•	•		Belts Inverter
		•		Photocell
•				Automatic filtering system
•	•	•		Rollers Table
•	•	•		Touch-Screen
•	•			Platform
•	•	•		Loader Unloader
•	•	•		Step by Step Loader
•	•	•		CM Loader





GPS Series

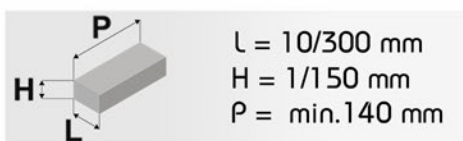
Smerigliatrici per superfici piane a nastro abrasivo o spazzole per satinare, spazzolare o sbavare lamiere, piattine o scatolati.

Flat bed grinding and polishing machines with abrasive belts or brushes for sheet metal, plates, square and rectangular profiles.

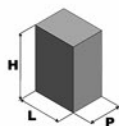
GPS Modulo

Smerigliatrice ad umido per superfici piane a due o tre teste modulari e sostituibili, possibilità di lavoro con nastri abrasivi, spazzole tangenziali oppure orbitali in funzione al tipo di lavoro da eseguire.

Wet operated polishing machine for flat parts processing with 2 or 3 stations that are modular and interchangeable among heads with abrasive belt, brush or orbital deburring brushes in accordance to the different finishing requirements.



1900 kg



$H = 202 \text{ cm}$
 $P = 120 \text{ cm}$
 $L = 200 \text{ cm}$



0,37 kw



0,12 kw

Modulo A



$S = 2000 \text{ mm}$
 $L = 300 \text{ mm}$



10-20 m/s



4,5 Kw

Modulo B



$D = 250 \text{ mm}$



1400 Rpm
 (With Inverter
 720-1500 Rpm)



4,5 Kw

Modulo C



$D = 350 \text{ mm}$



800 Rpm



1,5 Kw

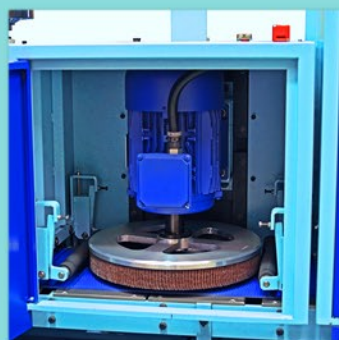
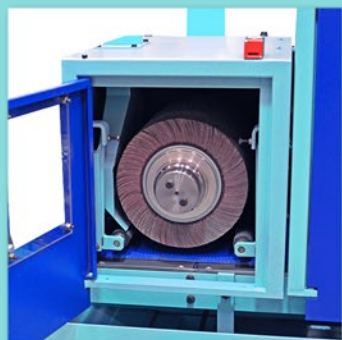




B

C

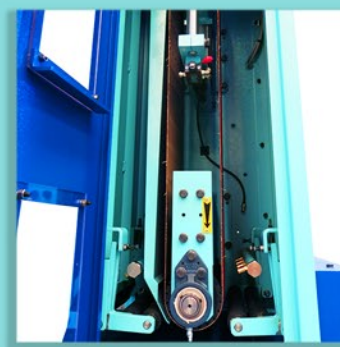
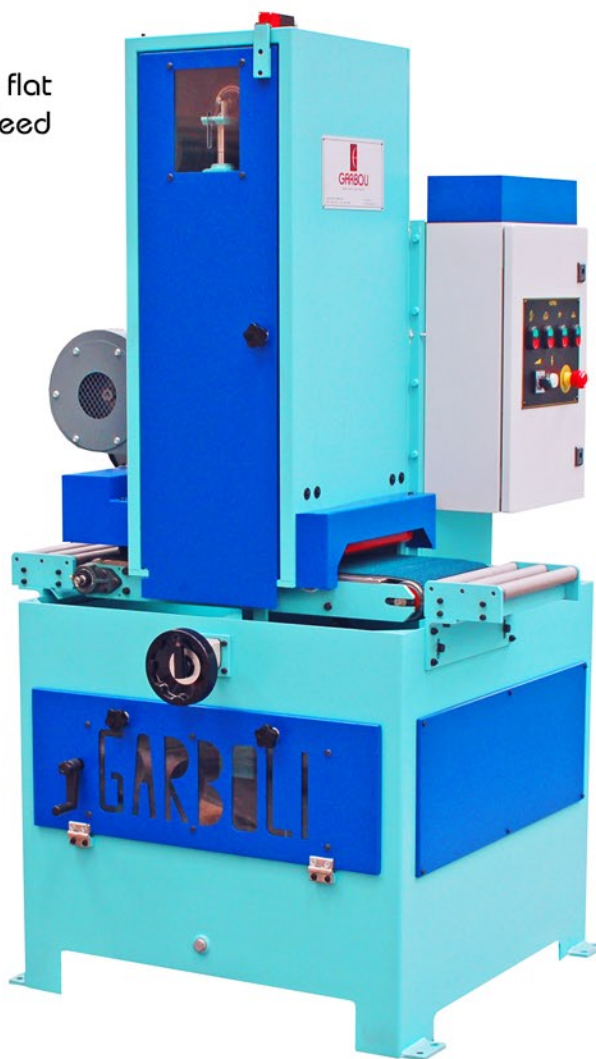
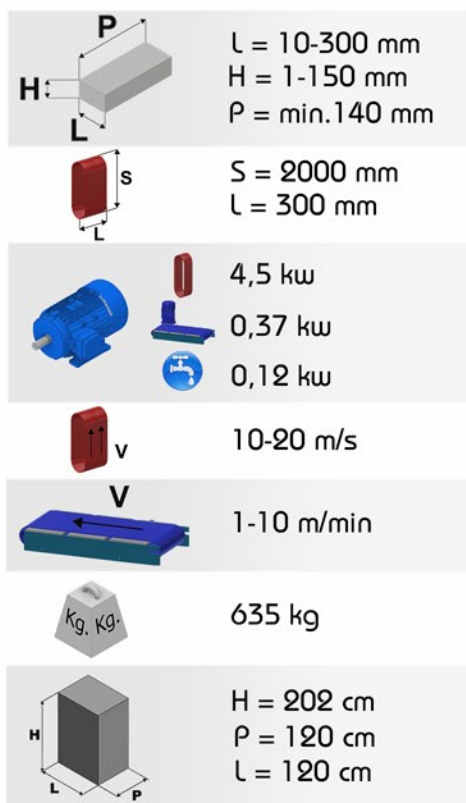
A



GPS Belt

Unità di smerigliatura a nastro abrasivo per superfici piane con sistema di lavorazione ad umido o a secco e velocità avanzamento regolabile.

Belt drum finishing machine with abrasive belt for flat surfaces, wet or dry operated and with adjustable feed rate.

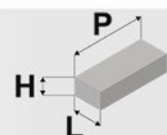


Unità di finitura a spazzola per superfici piane con possibilità di lavorazione a secco ed umido e sistema di compensazione usura della spazzola.

Machine for hairline finish through brush with dry or wet working system and brush wear compensation device.



L = 10-300 mm
H = 1-150 mm
P = 140-6000 mm



D = 250 mm



4,5 kw

0,37 kw

0,12 kw



1400 Rpm
(With inverter 720-1500)



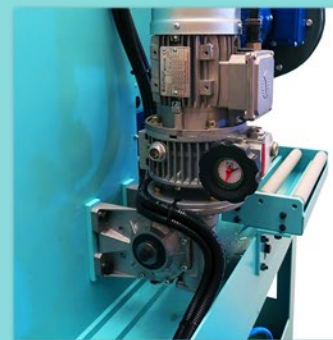
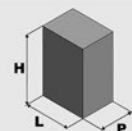
1-10 m/min



600 kg



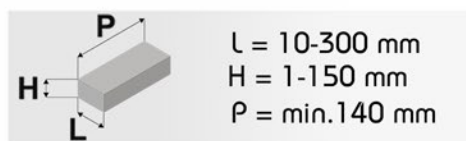
H = 158 cm
P = 120 cm
L = 120 cm



GPS Orbital

Unità di sbavatura con spazzole orbitali per superfici piane sottoposte a punzonatura, taglio laser o plasma con possibilità di lavorazione a secco ed umido e sistema di compensazione di usura della spazzola.

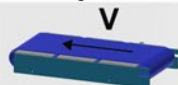
Deburring machine with orbital brushes for metal sheet subject to punching, laser or plasma cut, suitable for wet or dry processing and complete with brush wear compensation device.



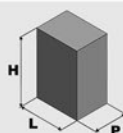
1,5 kw

0,37 kw

0,12 kw



600 kg





Soffiatore per asciugatura elementi
Air blower for workpieces drying



Doppia velocità del nastro abrasivo (10-20 mt./sec.)
Abrasive belt double speed (10-20 mt./sec.)



Velocità variabile con inverter per la spazzola (per modulo "B")
Brush head adjustable speed with inverter equipment (for Module "B")

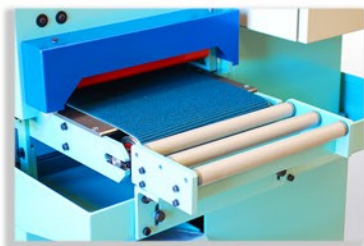


Cappa d'aspirazione per lavorazione "a secco" (per modulo "A")
Dust collection cap for "dry" processing (for Module "A")



Cappa d'aspirazione per lavorazione "a secco" (per modulo "B" e "C")
Dust collection cap for "dry" processing (for Module "B" and "C")





Supporto anteriore e posteriore a 3 rulli
Front and rear holder (with n 3 rollers)



Rulliera di supporto (modulo lunghezza 3 mt.)
Table rollers (3 mt. length module)



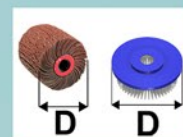
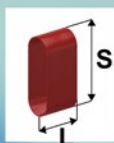
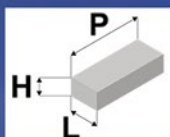
Sistemi di carico/scarico automatico
Automatic loading/unloading systems



Vasca con avvolgimento automatico carta filtrante.
Filtering system with automatic paper roll-up.

TABELLA COMPARATIVA MACCHINE

GPS



Modulo

L = 10/300 mm
H = 1/150 mm
P = 140/6000 mm

S = 2000 mm
L = 300 mm

10-20 m/s

D = 250 mm (B)
D = 6x 115 mm (C)

Belt

L = 10/300 mm
H = 1/150 mm
P = 140/6000 mm

S = 2000 mm
L = 300 mm

10-20 m/s

/

Brush

L = 10/300 mm
H = 1/150 mm
P = 140/6000 mm

/

/

D = 250 mm

Orbital

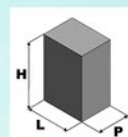
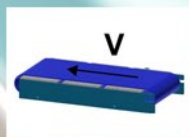
L = 10/300 mm
H = 1/150 mm
P = 140/6000 mm

/

/

D = 6x 115 mm

MACHINES COMPARATIVE CHART



GPS

1400 Rpm (B)
(With inverter
720-1500 Rpm)

1-10 m/min

1900 kg

H = 202 cm
P = 120 cm
L = 200 cm

Modulo

700 Rpm (C)

/

1-10 m/min

635 kg

H = 202 cm
P = 120 cm
L = 120 cm

Belt

1400 Rpm
(With inverter
720-1500 Rpm)

1-10 m/min

600 kg

H = 158 cm
P = 120 cm
L = 120 cm

Brush

700 Rpm

1-10 m/min

600 kg

H = 158 cm
P = 120 cm
L = 120 cm

Orbital

TABELLA COMPATIBILITA' ACCESSORI

GPS

Modulo

Belt



•

•



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ACCESSORIES COMPATIBILITY CHART

Brush

Orbital

Blower

Belt
Double
Speed

Brush
Inverter

Dust Cap
Module A

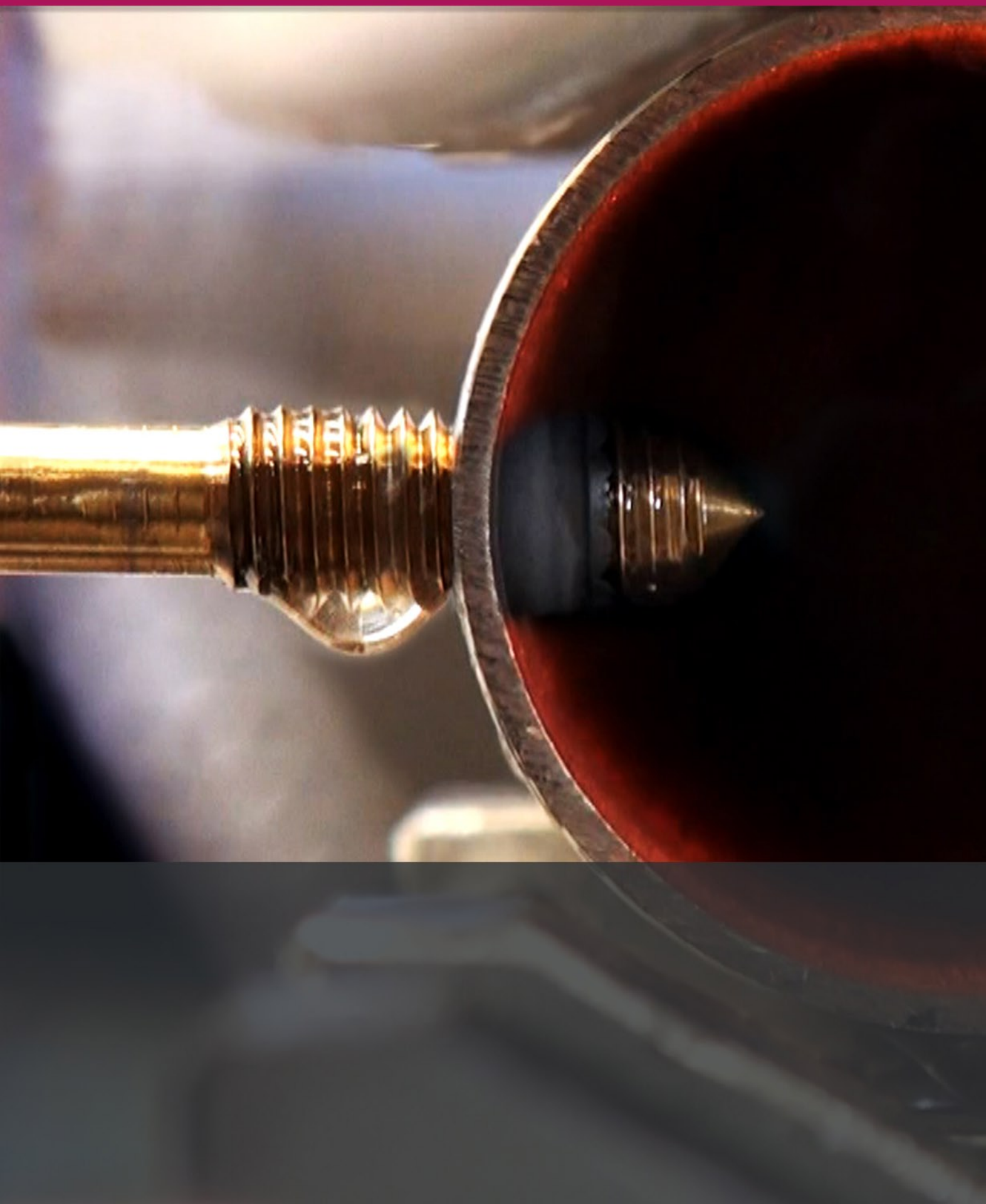
Dust Cap
Module B

Holder with
Rollers

Rollers Table
3m

Automatic
loading/unloading

Automatic
filtering system





Multitasking

Macchine speciali con possibilità di svolgere più lavorazioni oppure per applicazioni speciali su tubi o tubolari (in particolare smerigliare, sbavare, forare e sgolare).

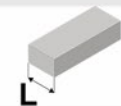
Special machines with multiple processing capabilities or for special applications on tubes and profiles (like grinding, deburring, drilling and notching operations).

Foratrice automatica per eseguire fori perpendicolari ed inclinati oppure operazioni di flowdrill e filettatura su tubi dritti tondi e quadri oppure su piatti in acciaio ed inox.

Automatic machine for perpendicular and angle drilling or flowdrill and tapping operations on round and square straight tubes as well as on steel and stainless steel flat bars.



$D = 10-114 \text{ mm}$
(4" max)



$L = 80 \times 80 \text{ mm}$



$D = 5-50 \text{ mm}$



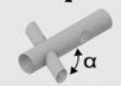
300-1500 giri/min



$M1 = 2,2 \text{ kw}$



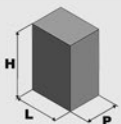
$M2 = 2,2 \text{ Nm}$



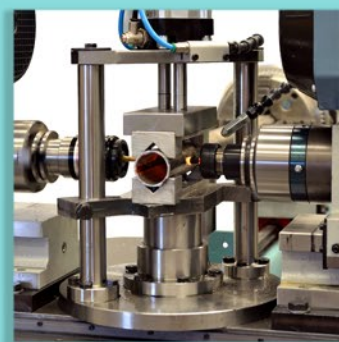
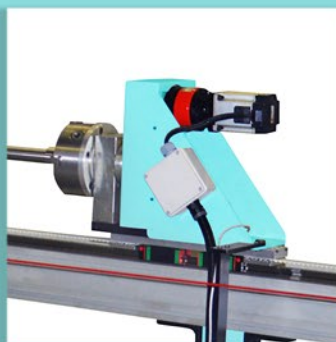
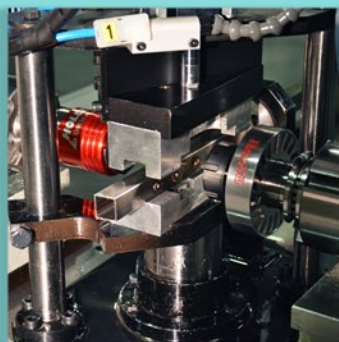
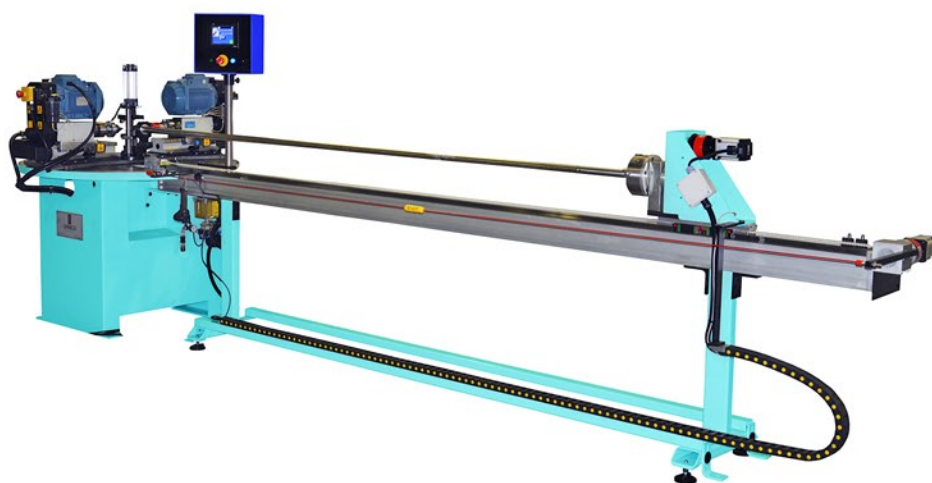
40-90 degrees



390 kg



$H = 170 \text{ cm}$
 $P = 370 \text{ cm}$
 $L = 130 \text{ cm}$



Foratrice in versione elettro-meccanica con una sola unità per eseguire forature perpendicolari ed inclinate ma anche operazioni di flowdrill su tubi tondi e quadri.

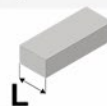
Machine in electromechanic version with one drilling unit for perpendicular and angular drilling as well as flowdrill processing on round and square tubes.



D = 10-114 mm
(4" max)



L = 80x80 mm



D = 5-50 mm



300-1500 giri/min



M1 = 2,2 kw



M2 = 0,18 kw



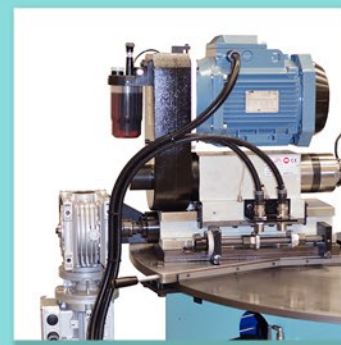
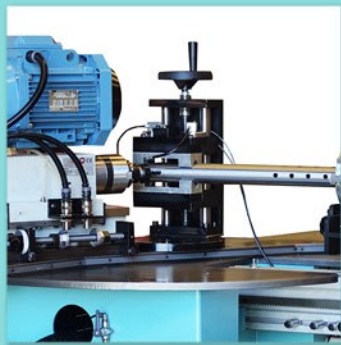
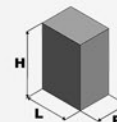
40-90 degrees



390 kg

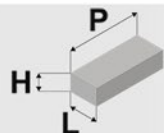


H = 170 cm
P = 370 cm
L = 130 cm



Smerigliatrice combinata per la finitura di superfici piane ma anche tubi tondi dritti sia ad umido che a secco.

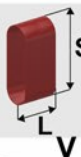
Multitask finishing machine for both flat surfaces and round straight tubes working dry and wet operated.



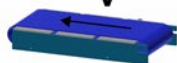
L = 10-150 mm
H = 1-100 mm
P = min.160 mm



D = 10-80 mm
(3" max)
L = 20-3000 mm



S = 2000 mm
L = 150 mm



1-10 m/min



4 kw



0,1 kw



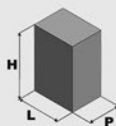
0,22 kw



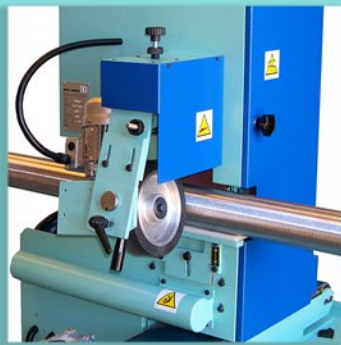
0,12 kw



485 kg



H = 190 cm
P = 100 cm
L = 100 cm

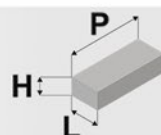


Smerigliatrice a nastro oscillante verticale per la finitura di superfici piane ed in particolare pezzi di piccole dimensioni.

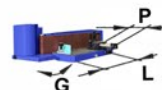
Grinding machine with vertical oscillating abrasive belt suitable for flat surfaces and in particular for small size items.



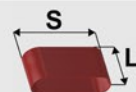
$L = 10-150 \text{ mm}$
 $H = 10-100 \text{ mm}$
 $P = 10-800 \text{ mm}$



$P = 260 \text{ mm}$
 $L = 940 \text{ mm}$
 $G = 0-45 \text{ degrees}$



$S = 2580 \text{ mm}$
 $L = 150 \text{ mm}$



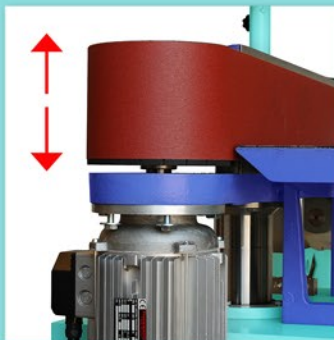
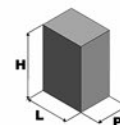
3 kw
 0,4 kw



270 kg



$H = 155 \text{ cm}$
 $P = 75 \text{ cm}$
 $L = 157 \text{ cm}$

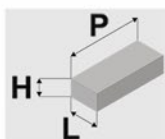


Smerigliatrice a nastro lungo con struttura in ghisa per lavorazione a tampone o a rullo di contatto per superfici piane o strutture metalliche.

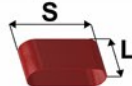
Disponibile anche con struttura in acciaio elettrosaldato oppure in versioni speciali per lunghezze o altezze di lavoro differenti.

Long belt grinding machine with cast iron frame for flat surfaces finishing through pad or contact roller.

Available also with electrowelded frame or in special versions for different lengths or taller working height.



L = 2500 mm
H = 1000 mm
P = 680 mm



S = 7500 mm
L = 150 mm



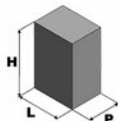
3,3 kw
0,37 kw
0,75 kw



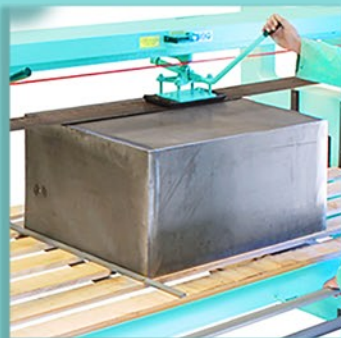
18 m/s



600 kg



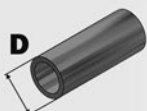
H = 158 cm
P = 150 cm
L = 415 cm





Smerigliatrice a nastro abrasivo per estremità sagomate o semisferiche con morsa pneumatica per il bloccaggio dei pezzi e possibilità di avanzamento automatico.

Finishing machine working with orbital abrasive belt for halfround shaped ends with workpiece clamping device and automatic feed system as options.



D = 10-50 mm
(2" max)



S = 1200 mm
L = 80 mm



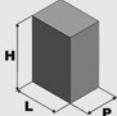
Belt = 2,2 kw



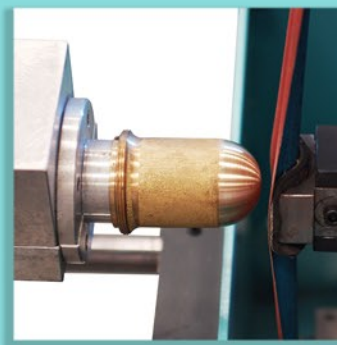
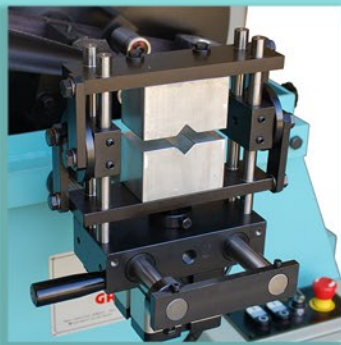
Disc = 1,5 kw



350 kg

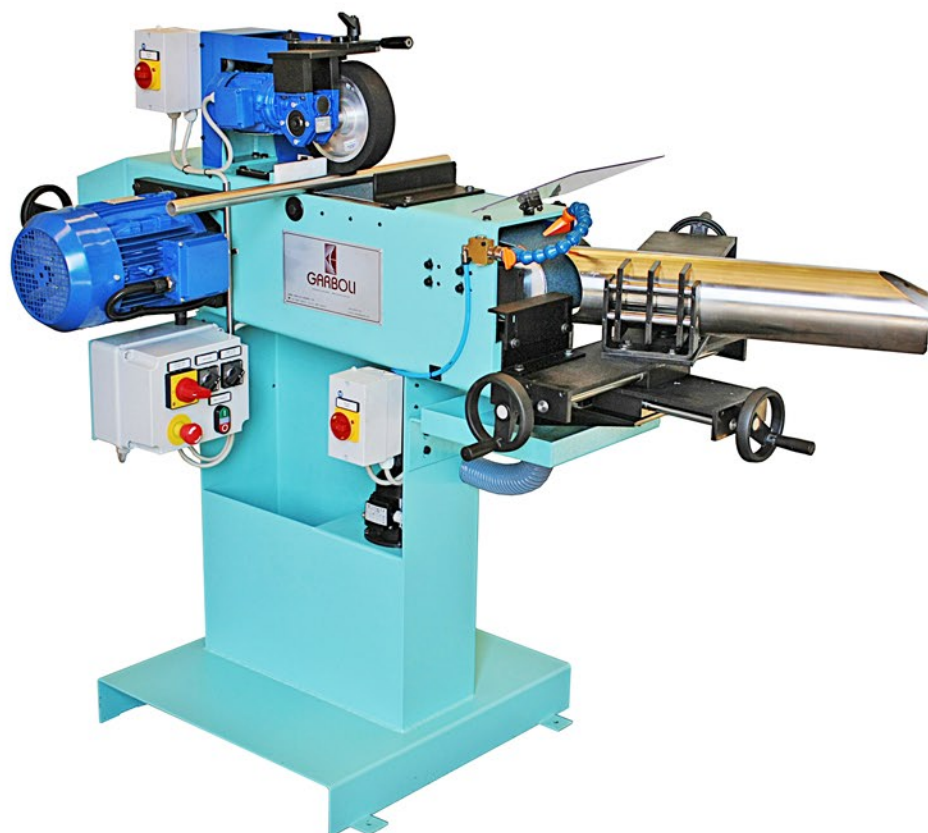


H = 130 cm
P = 110 cm
L = 95 cm

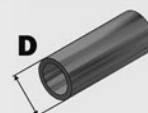


Sgolatubi per grandi dimensioni con possibilità di lavorazione ad umido e di finitura di tubi dritti con dispositivo centreless opzionale.

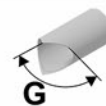
Notching machine for big size tubes, with dry or wet processing and centerless feed device for straight tubes finishing as options.



$D = 20-150 \text{ mm}$
(6" max)



$G = 15-60 \text{ degrees}$



$S = 2000 \text{ mm}$
 $L = 150 \text{ mm}$



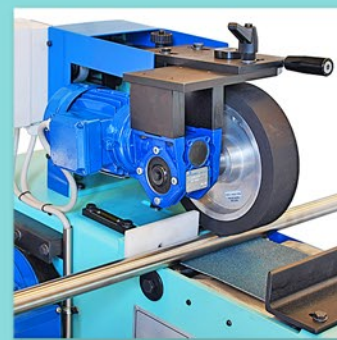
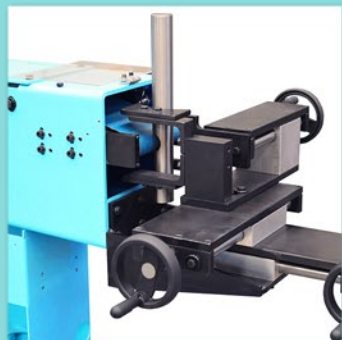
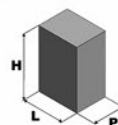
3 kw



270 kg

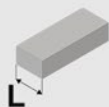


$H = 110 \text{ cm}$
 $P = 90 \text{ cm}$
 $L = 165 \text{ cm}$



Sbavatrice a spazzola orbitale per la rimozione di bave da taglio sia esterne che interne sulle estremità di tubi tondi o tubolari a sezione quadrata o irregolare.

Brush deburring machine with orbital working system suitable for inside and outside burrs removal from round, square or irregular shape tube ends.



$L = 10-90 \text{ mm}$



$D = 10-120 \text{ mm}$
(5" max)



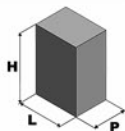
$D = 250 \text{ mm}$



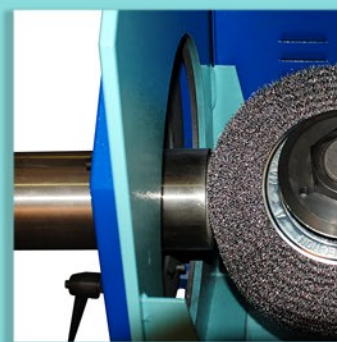
3 kw
0,55 kw



410 kg



$H = 130 \text{ cm}$
 $P = 70 \text{ cm}$
 $L = 110 \text{ cm}$



Smerigliatrice portatile a nastro abrasivo per la
finitura di tubi tondi sia dritti che curvati.
Fornita con valigetta contenente kit per smerigliatura.

Portable grinding machine with abrasive belts for
straight and bent tubes finishing.
Supplied into a metal case with polishing belts kit.



$S = 675 \text{ mm}$
 $L = 40 \text{ mm}$



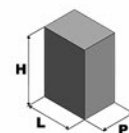
4-12 m/sec



4,5 kg



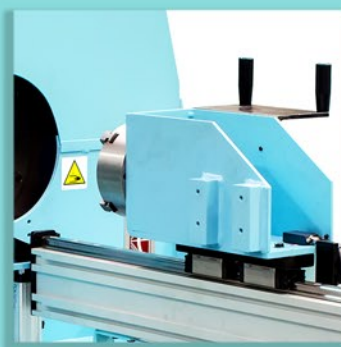
$H = 18 \text{ cm}$
 $P = 32 \text{ cm}$
 $L = 64 \text{ cm}$



APM LOADER

Carrello anteriore con avanzamento manuale per elementi torniti o con sagome speciali.

Front manual feed system for turned parts or special shaped components.



APN LOADER NEW

Carrello APN anteriore e posteriore con avanzamento automatico.

Front and rear APN automatic feed.



Akrapovic	Marathon Heater
Alessi	Moen
Areva	Parker
Benteler	Ponte Giulio
Bossini	Remington
Dropsa	Remus Innovation
Endress+Hauser	Renishaw
Evobus	Royal Enfield
Franke	Salzgitter Mannesmann
Gamo	Sandvik/Outokumpu
GE (General Electric)	Sapa Aluminium
Gessi	Savage
Grohe	Schuler
Harley Davidson	SWK/Stanley
Irca/Zoppas Industries	Synthes (Medical)
Kholer	Technogym
Kohler Faucet	Tommaselli
KTM	Triumph
La Murrina	Volvo Powertrain
Leroy Somer	Wuppermann
Liebherr	
Manfrotto	





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