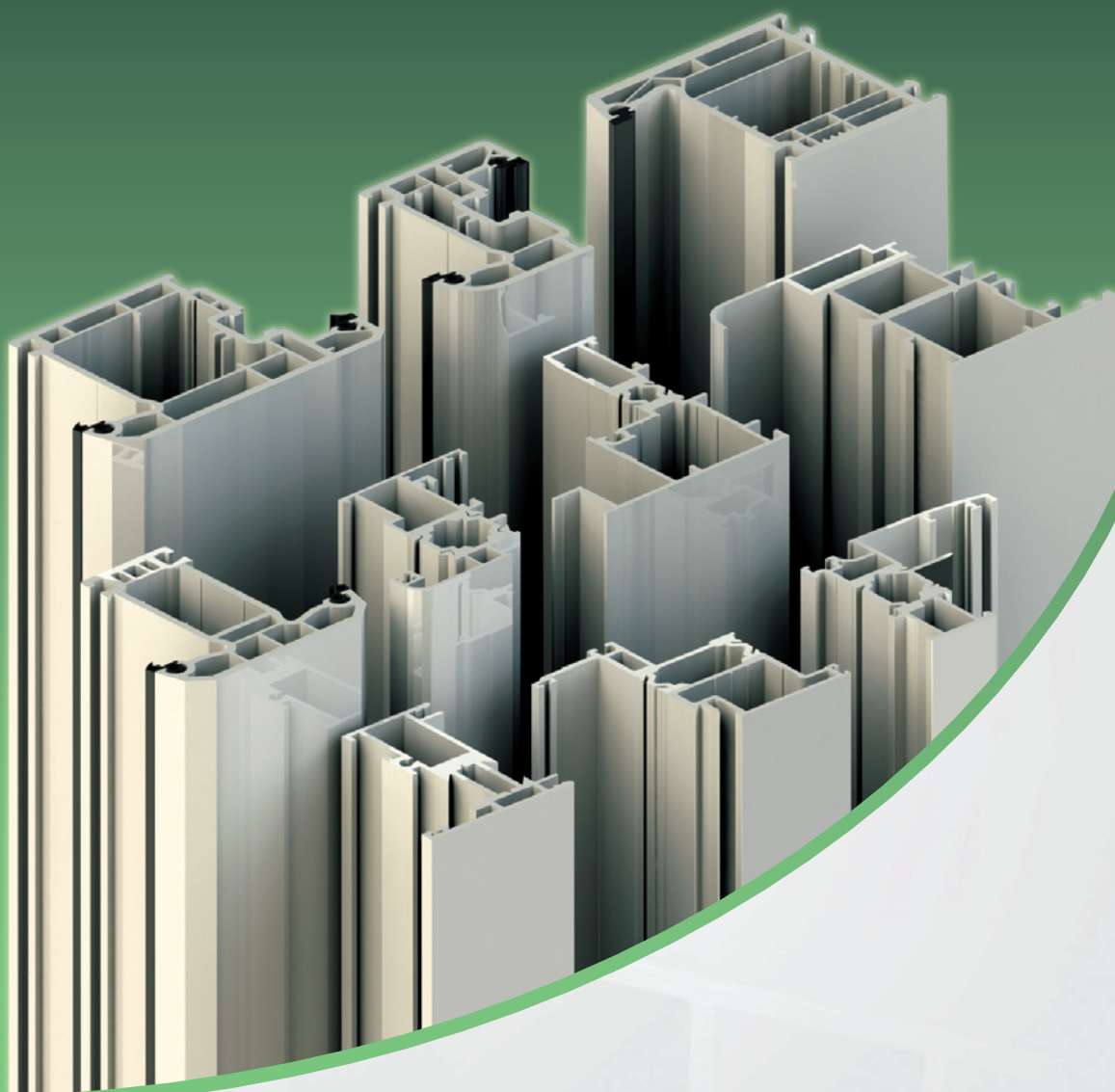


Double head cutting machines

Machines for processing aluminium and PVC profiles



Machines fully designed and manufactured in Italy

PERTICI
INDUSTRIES

THE COMPANY

Pertici Industries, was founded in 1965 by Leto Pertici as Costruzioni Meccaniche Pertici.

Originally, the Company started off with the production of traditional wood-working machines and subsequently developed the production of machinery for the aluminium and PVC door and window industry.

Pertici has always been a competent and reliable supplier of machinery for the production of windows and doors with a range of products constantly developed and improved.

The volume growth and the extension of the production site, accompanied by a production cycle completely controlled inside, allowed Pertici to offer solutions of the highest quality and reliability able to meet the needs of every type of customer.

Thanks to these characteristics, since the eighties, Pertici has been the protagonist of a strong international expansion that allowed the creation of a solid distribution network around the world. In nearly fifty years of work, Pertici has installed tens of thousands of plants in Europe, America, Africa, Asia and Australia.

Today Pertici Industries is a world leader in the design and construction of machines and systems for the processing of aluminium and PVC profiles. Pertici develops and implements cutting-edge technology guaranteeing a global customer service which includes servicing, maintenance, installation, support and timely educational training.

The expertise and experience embedded in all the staff together with the strong presence in the global market are essential elements of the company constant development strategy.



PERTICI WORLDWIDE





Double head cutting machines

The double head cutting machines are used for cutting aluminium, PVC and light alloy profiles, suitable for series processing and special applications guaranteeing an extremely reliability. These Series, provided with high stiffness, is equipped with two independent cutting heads, one fixed and the other one movable which operates in two different ways:

- automatically by AC motor with magnetic ruler length control system (*electronic machines*)
- manually with metric ruler length control system (*semiautomatic machines*).

All axis movements are performed on rails and slides (equipped with recirculating ball bearings only for series 550 - 600). These features enable executing centesimal precision cuts for all types of profiles, even the large ones thanks to a wide range of models equipped with 330 mm to 600 mm diameter saw blades.

Models

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Series 600	Electronic double head cutting machines 600 TSE	 	6
	Electronic double head cutting machines 600 TSP	 	7
Series 550	Electronic double head cutting machines 550 TSE	 	8
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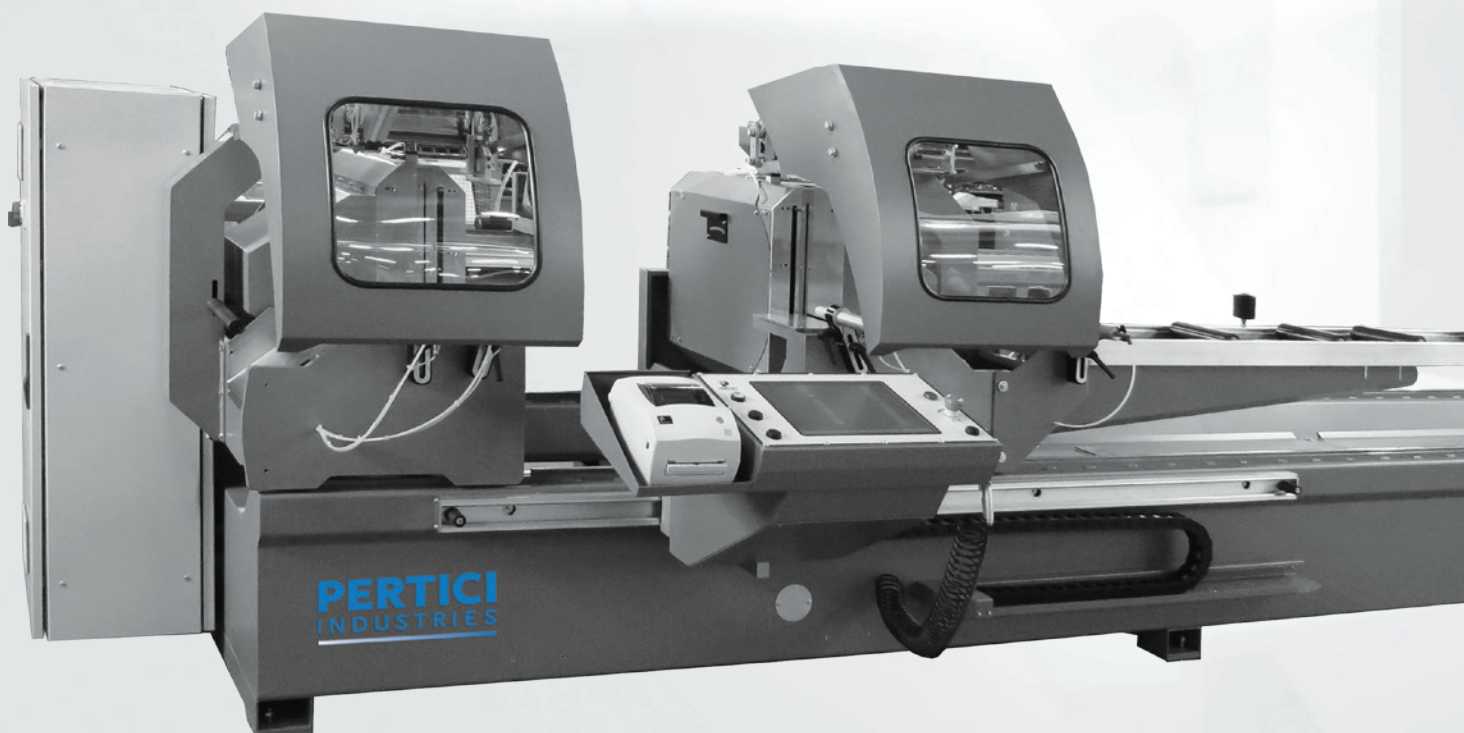
Electronic double head cutting machine 600 TSE

- Carbide saw blade 600 mm
- 3 controlled axis (linear positioning of moveable head and 2 electronic tilting heads)
- Electronic tilting heads from 45°int to 20° ext
- Integral pneumatic protection of cutting area
- Blades lubrication system
- Pair of horizontal pneumatic clamps with low pressure device
- Pair of vertical pneumatic clamps with low pressure device
- Side support with roller 3000 mm
- X axis standard positioning speed: 30 m/min
- Blade motor power: 3 kW
- Blades speed: 2800 rpm
- Maximum cutting length (according to the model):
 - 4100 mm
 - 5100 mm
 - 6100 mm
- Minimum cutting length at 90°: 330 mm
- Minimum cutting length at 45° ext: 430 mm
- Minimum cutting length at 45° int: 611 mm
- Power supply: 8 kW
- Air consumption: 70 NI'
- Dimensions with roller support (length x depth x height) / weight according to the model:
 - 8700 x 2000 x 2100 mm / 2000 kg (4 m model)
 - 9700 x 2000 x 2100 mm / 2200 kg (5 m model)
 - 10700 x 2000 x 2100 mm / 2400 kg (6 m model)



Control features

- Windows Embedded operating system
- Storing profile data (up to 1000)
- Optimization on cutting lists
- Complete diagnostic help on line
- Touch screen industrial PC panel TFT 15"
- USB port
- Ethernet port for LAN connection



Electronic double head cutting machine 600 TSP

- Carbide saw blade 600 mm
- 1 controlled axis (linear positioning of moveable head)
- Pneumatic tilting heads from 45°int to 20° ext
- Integral pneumatic protection of cutting area
- Blades lubrication system
- Pair of horizontal pneumatic clamps with low pressure device
- Pair of vertical pneumatic clamps with low pressure device
- Side support with roller 3000 mm
- X axis standard positioning speed: 30 m/min
- Blade motor power: 3 kW
- Blades speed: 2800 rpm
- Maximum cutting length (according to the model):
 - 4100 mm
 - 5100 mm
 - 6100 mm
- Minimum cutting length at 90°: 330 mm
- Minimum cutting length at 45° ext: 430 mm
- Minimum cutting length at 45° int: 611 mm
- Power supply: 8 kW
- Air consumption: 70 NI'
- Dimensions with roller support (length x depth x height) / weight according to the model:
 - 8700 x 2000 x 2100 mm / 2000 kg (4 m model)
 - 9700 x 2000 x 2100 mm / 2200 kg (5 m model)
 - 10700 x 2000 x 2100 mm / 2400 kg (6 m model)

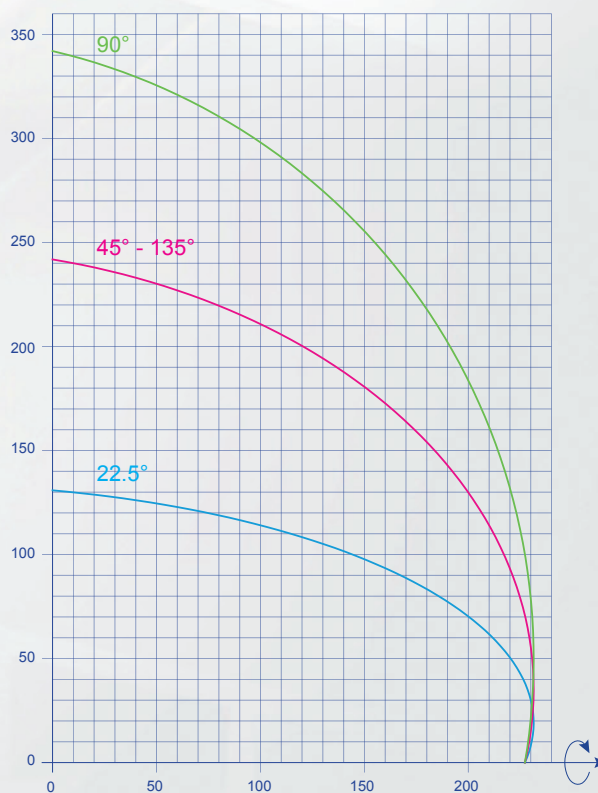


600 TSE - 600 TSP options

- Profile height electronic measuring device
- Automatic intermediate support
- Office software import driver
- Label printer kit
- Repetitive cut
- Bevel cut
- Wedge cut
- Reduced wedge cut
- Extra-length cut
- Reduced cut
- Industrial dust exhauster

Control features

- Windows Embedded operating system
- Storing profile data (up to 1000)
- Optimization on cutting lists
- Complete diagnostic help on line
- Touch screen industrial PC panel TFT 15"
- USB port
- Ethernet port for LAN connection



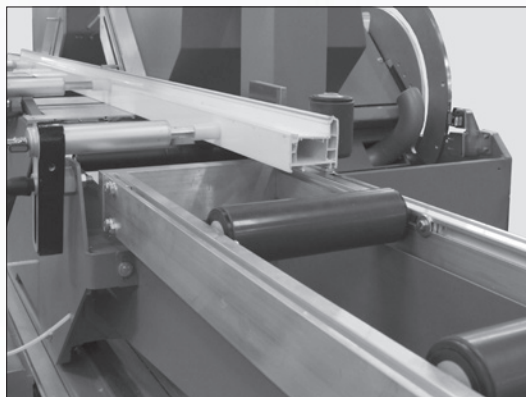
600 TSE-600 TSP cutting diagram



600 TSE

Electronic double head cutting machine 550 TSE

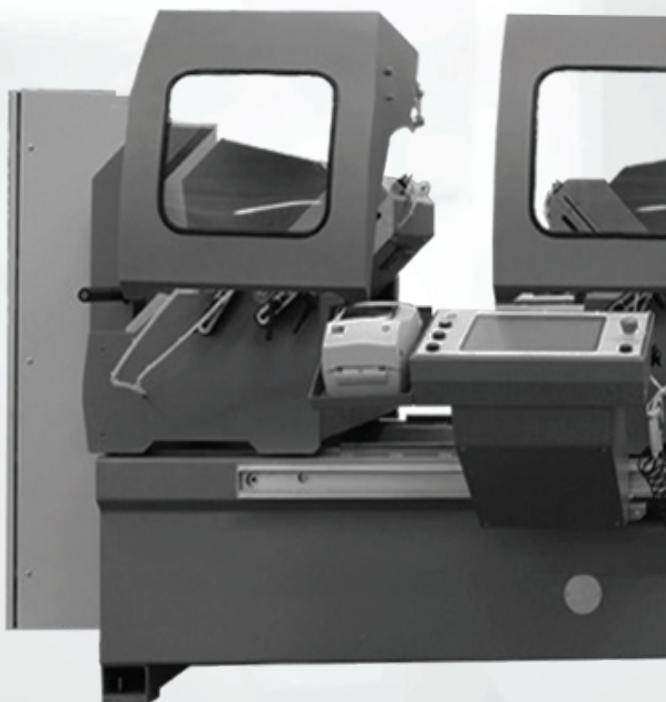
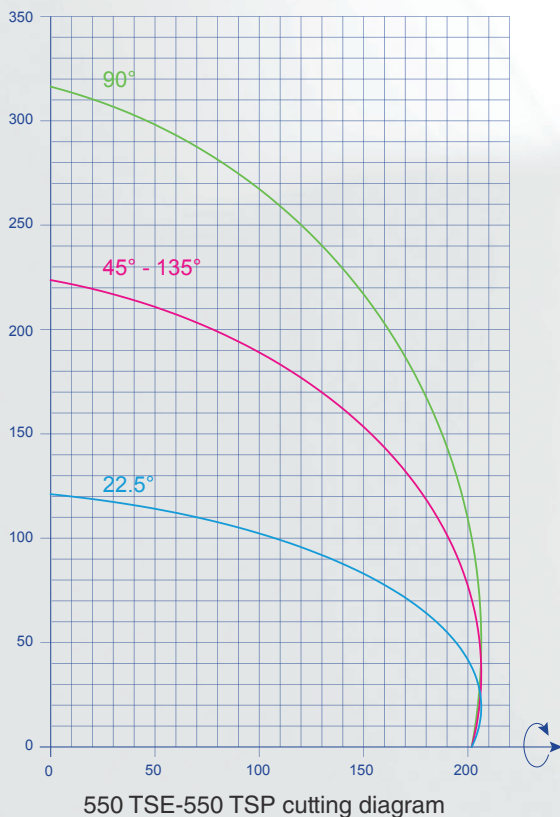
- Carbide saw blade 550 mm
- 3 controlled axis (linear positioning of moveable head and 2 electronic tilting heads)
- Electronic tilting heads from 45°int to 20° ext
- Integral pneumatic protection of cutting area
- Blades lubrication system
- Pair of horizontal pneumatic clamps with low pressure device
- Pair of vertical pneumatic clamps with low pressure device
- Side support with roller 3000 mm
- X axis standard positioning speed: 30 m/min
- Blade motor power: 3 kW
- Blades speed: 2800 rpm
- Maximum cutting length (according to the model):
 - 4100 mm
 - 5100 mm
 - 6100 mm
- Minimum cutting length at 90°: 330 mm
- Minimum cutting length at 45° ext: 430 mm
- Minimum cutting length at 45° int: 611 mm
- Power supply: 8 kW
- Air consumption: 70 NI'



- Dimensions with roller support (length x depth x height) / weight according to the model:
 - 8700 x 2000 x 2100 mm / 2000 kg (4 m model)
 - 9700 x 2000 x 2100 mm / 2200 kg (5 m model)
 - 10700 x 2000 x 2100 mm / 2400 kg (6 m model)

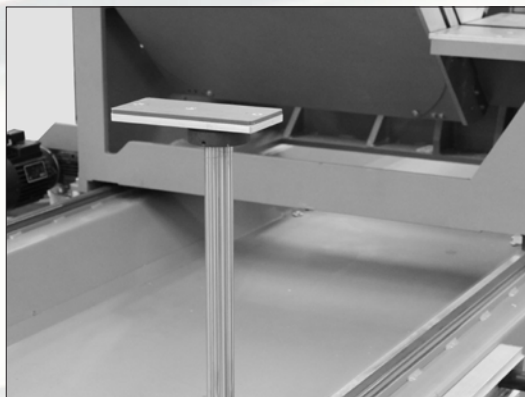
Control features

- Windows Embedded operating system
- Storing profile data (up to 1000)
- Optimization on cutting lists
- Complete diagnostic help on line
- Touch screen industrial PC panel TFT 15"
- USB port
- Ethernet port for LAN connection



Electronic double head cutting machine 550 TSP

- Carbide saw blade 550 mm
- 1 controlled axis (linear positioning of moveable head)
- Pneumatic tilting heads from 45° int to 20° ext
- Integral pneumatic protection of cutting area
- Blades lubrication system
- Pair of horizontal pneumatic clamps with low pressure device
- Pair of vertical pneumatic clamps with low pressure device
- Side support with roller 3000 mm
- X axis standard positioning speed: 30 m/min
- Blade motor power: 3 kW
- Blades speed: 2800 rpm
- Maximum cutting length (according to the model):
 - 4100 mm
 - 5100 mm
 - 6100 mm
- Minimum cutting length at 90°: 330 mm
- Minimum cutting length at 45° ext: 430 mm
- Minimum cutting length at 45° int: 611 mm
- Power supply: 8 kW
- Air consumption: 70 NI'
- Dimensions with roller support (length x depth x height) / weight according to the model:
 - 8700 x 2000 x 2100 mm / 2000 kg (4 m model)
 - 9700 x 2000 x 2100 mm / 2200 kg (5 m model)
 - 10700 x 2000 x 2100 mm / 2400 kg (6 m model)



Control features

- Windows Embedded operating system
- Storing profile data (up to 1000)
- Optimization on cutting lists
- Complete diagnostic help on line
- Touch screen industrial PC panel TFT 15"
- USB port
- Ethernet port for LAN connection

550 TSE - 550 TSP options

- Profile height electronic measuring device
- Automatic intermediate support
- Office software import driver
- Label printer kit
- Repetitive cut
- Bevel cut
- Wedge cut
- Reduced wedge cut
- Extra-length cut
- Reduced cut
- Industrial dust exhauster



550 TSE

Electronic double head cutting machine 500 TS - 500 TS/22

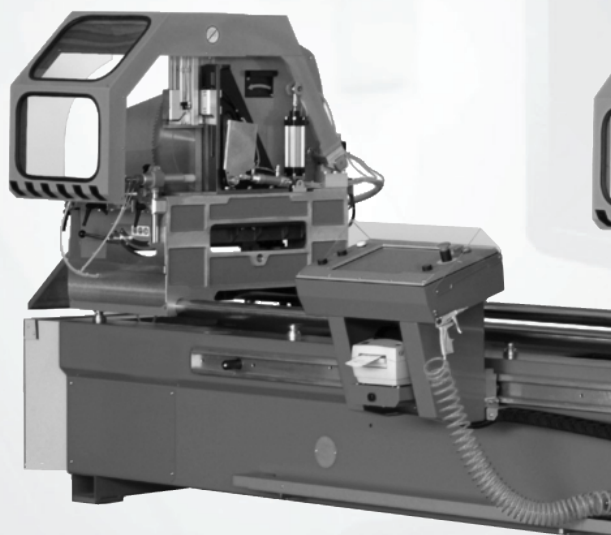
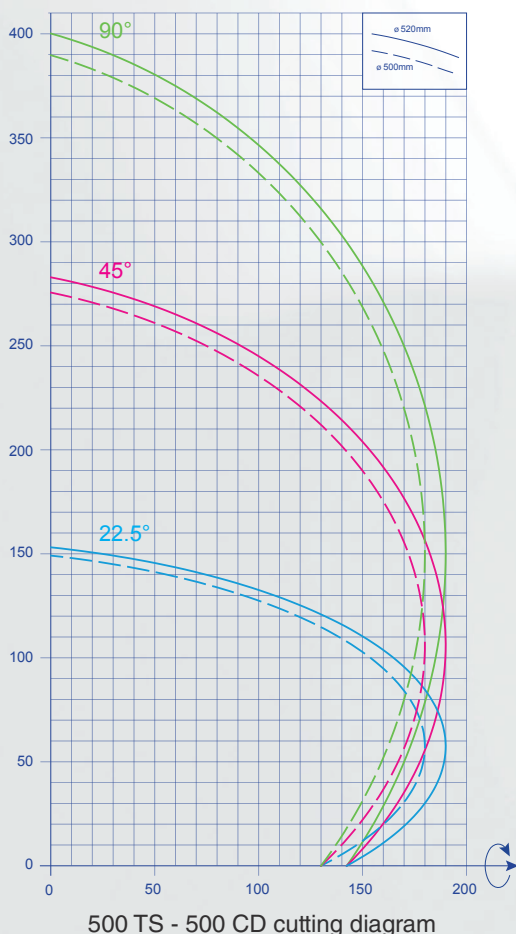
- Carbide saw blade 500/520 mm
- 1 controlled axis (linear positioning of moveable head)
- Pneumatic tilting heads from 45° ext to 90° (22,5° ext to 90° only for 500 TS/22 model)
- Integral pneumatic protection of cutting area
- Blades lubrication system
- Pair of horizontal pneumatic clamps with low pressure device
- Pair of vertical pneumatic clamps with low pressure device
- Side support with roller 3000 mm
- X axis standard positioning speed: 20 m/min
- Blade motor power: 2,2 kW
- Blades speed: 2800 rpm
- Maximum cutting length (according to the model):
 - 4100 mm
 - 5100 mm
 - 6100 mm
- Minimum cutting length from 45° ext to 90°: 222 mm (only for 500 TS model)
- Minimum cutting length from 22,5° ext to 90°: 310 mm (only for 500 TS/22 model)



- Power supply: 5,5 kW
- Air consumption: 63 NI/'
- Dimensions with roller support (length x depth x height) / weight according to the model:
 - 8460 x 1730 x 1900 mm / 1090 kg (4 m model)
 - 9460 x 1730 x 1900 mm / 1220 kg (5 m model)
 - 10460 x 1730 x 1900 mm / 1350 kg (6 m model)

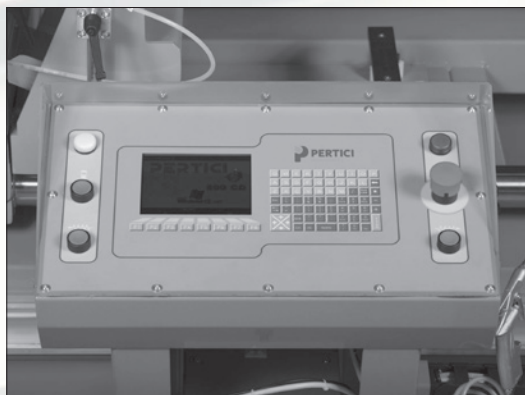
Control features

- Windows Embedded operating system
- Storing profile data (up to 1000)
- Optimization on cutting lists
- Complete diagnostic help on line
- Touch screen industrial PC panel TFT 15"
- USB port
- Ethernet port for LAN connection



Electronic double head cutting machine 500 CD - 500 CD/22

- Carbide saw blade 500/520 mm
- 1 controlled axis (linear positioning of moveable head)
- Pneumatic tilting heads from 45° ext to 90° (22,5° ext to 90° only for 500 CD/22 model)
- Integral pneumatic protection of cutting area
- Blades lubrication system
- Pair of horizontal pneumatic clamps with low pressure device
- Pair of vertical pneumatic clamps with low pressure device
- Side support with roller 3000 mm
- X axis standard positioning speed: 20 m/min
- Blade motor power: 2,2 kW
- Blades speed: 2800 rpm
- Maximum cutting length (according to the model):
 - 4100 mm
 - 5100 mm
 - 6100 mm
- Minimum cutting length from 45° ext to 90°: 222 mm (only for 500CD model)
- Minimum cutting length from 22,5° ext to 90°: 310 mm (only for 500CD/22 model)
- Power supply: 5,5 kW
- Air consumption: 63 NI'
- Dimensions with roller support (length x depth x height) / weight according to the model:
 - 8460 x 1730 x 1900 mm / 1090 kg (4 m model)
 - 9460 x 1730 x 1900 mm / 1220 kg (5 m model)
 - 10460 x 1730 x 1900 mm / 1350 kg (6 m model)



Control features

- Windows Embedded operating system
- Storing profile data (up to 1000)
- Optimization on cutting lists
- Complete diagnostic help on line
- Industrial PC panel TFT 6,5" with keyboard
- USB port
- Ethernet port for LAN connection

500 TS - 500 TS/22 - 500 CD - 500 CD/22 options

- Profile height electronic measuring device
- Automatic intermediate support
- Office software import driver
- Label printer kit
- Chip tray
- Repetitive cut
- Bevel cut
- Wedge cut
- Extra-length cut
- Reduced cut
- Industrial dust exhauster
- Blade motor power: 3 kW



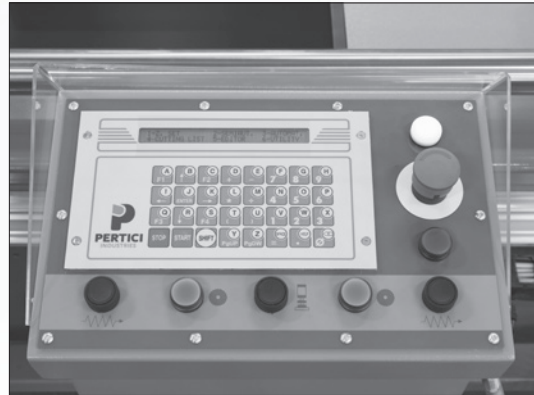
500 TS

Electronic double head cutting machine 500 D2K - 500 D2K/22

- Carbide saw blade 500/520 mm
- 1 controlled axis (linear positioning of moveable head)
- Pneumatic tilting heads from 45° ext to 90° (22,5° ext to 90° only for 500 D2K/22 model)
- Integral pneumatic protection of cutting area
- Blades lubrication system
- Pair of horizontal pneumatic clamps with low pressure device
- Pair of vertical pneumatic clamps with low pressure device
- Side support with roller 3000 mm
- X axis standard positioning speed: 20 m/min
- Blade motor power: 2,2 kW
- Blades speed: 2800 rpm
- Maximum cutting length (according to the model):
 - 4100 mm
 - 5100 mm
 - 6100 mm
- Minimum cutting length from 45° ext to 90°: 222 mm (only for 500 D2K model)
- Minimum cutting length from 22,5° ext to 90°: 310 mm (only for 500 D2K/22 model)
- Power supply: 5,5 kW
- Air consumption: 63 NI'
- Dimensions with roller support (length x depth x height) / weight according to the model:
 - 8460 x 1730 x 1900 mm / 1090 kg (4 m model)
 - 9460 x 1730 x 1900 mm / 1220 kg (5 m model)
 - 10460 x 1730 x 1900 mm / 1350 kg (6 m model)

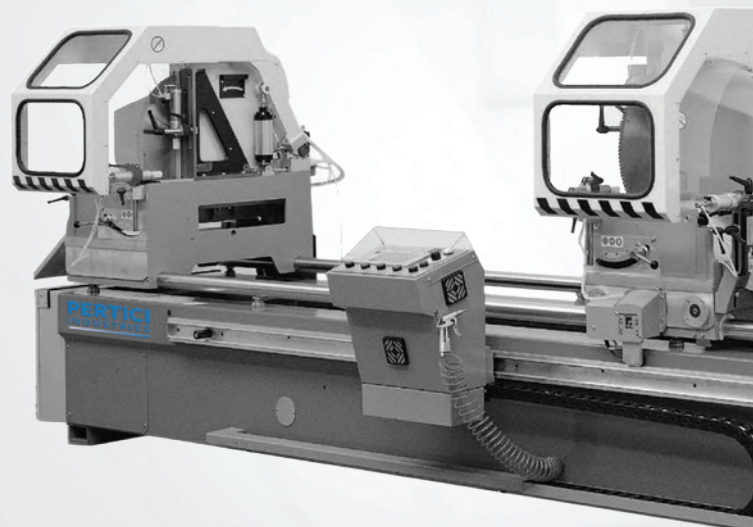
Control features

- Storing profile data (up to 200)
- Industrial control unit with black-lighted 80 characters LCD and protected touch-sensitive keyboard
- USB port
- Serial line RS 232 C



Options

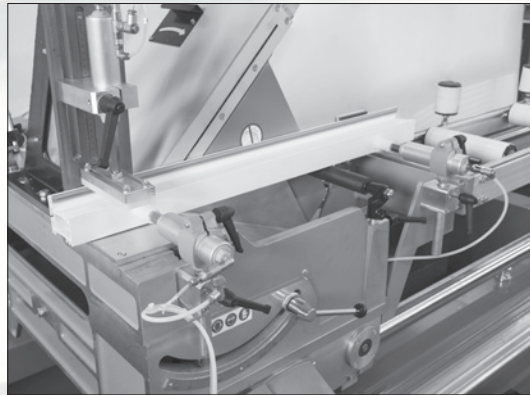
- Profile height electronic measuring device
- Automatic intermediate support
- Office software import driver
- Label printer kit
- Chip tray
- Repetitive cut
- Bevel cut
- Wedge cut
- Extra-length cut
- Reduced cut (111 mm for 500 D2K model, 155 mm for 500 D2K/22 model)
- Industrial dust exhauster
- Blade motor power: 3 kW



500 D2K

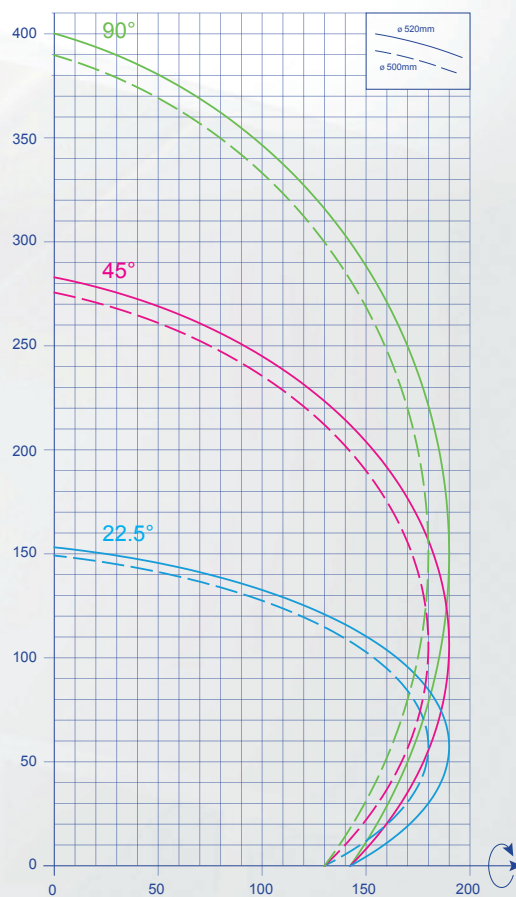
Semiautomatic double head cutting machine 500 - 500/22

- Carbide saw blade 500/520 mm
- Manual positioning of movable head
- Length control system by metric ruler and digital readout
- Pneumatic tilting heads from 45° ext to 90° (22,5° ext to 90° only for 500/22 model)
- Integral pneumatic protection of cutting area
- Blades lubrication system
- Pair of horizontal pneumatic clamps with low pressure device
- Pair of vertical pneumatic clamps with low pressure device
- Side support with roller 3000 mm
- Blade motor power: 2,2 kW
- Blades speed: 2800 rpm
- Maximum cutting length (according to the model):
 - 4100 mm
 - 5100 mm
 - 6100 mm
- Minimum cutting length from 45° ext to 90°: 222 mm (only for 500 model)
- Minimum cutting length from 22,5° ext to 90°: 310 mm (only for 500/22 model)
- Power supply: 5 kW
- Air consumption: 63 NI'
- Dimensions with roller support (length x depth x height) / weight according to the model:
 - 8460 x 1730 x 1900 mm / 1090 kg (4 m model)
 - 9460 x 1730 x 1900 mm / 1220 kg (5 m model)
 - 10460 x 1730 x 1900 mm / 1350 kg (6 m model)



Options

- Wedge cut (mechanical)
- Industrial dust exhauster
- Chip tray
- Blade motor power: 3 kW



500 D2K - 500 cutting diagram

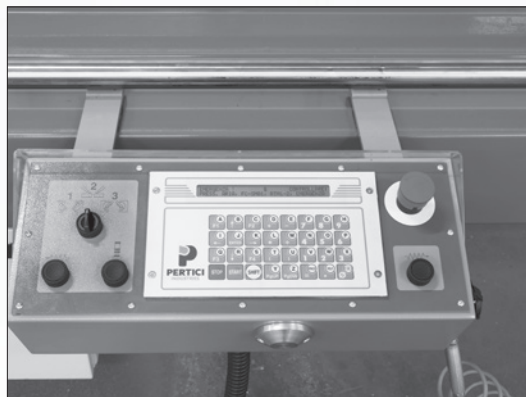


Electronic double head cutting machine 403 IP

- Carbide saw blade 400 mm
- 1 controlled axis (linear positioning of moveable head)
- Part of cutting table removable
- Manual rotation heads from -45° to $+45^{\circ}$ (Ω)
- Manual tilting heads from 45° ext to 90° (μ)
- Mechanically controlled protection of cutting area
- Blades lubrication system
- Pair of horizontal pneumatic clamps with low pressure device
- Pair of vertical pneumatic clamps with low pressure device
- X axis standard positioning speed: 20 m/min
- Blade motor power: 2,2 kW
- Blades speed: 3200 rpm
- Maximum cutting length (according to the model):
 - 3500 mm
 - 5080 mm
 - 6080 mm
- Power supply: 5,5 kW
- Air consumption: 45 NI/'
- Dimensions (length x depth x height) / weight according to the model:
 - 4530 x 1200 x 1550 mm / 500 kg (3,5 m model)
 - 6030 x 1200 x 1550 mm / 600 kg (5 m model)
 - 7030 x 1200 x 1550 mm / 700 kg (6 m model)

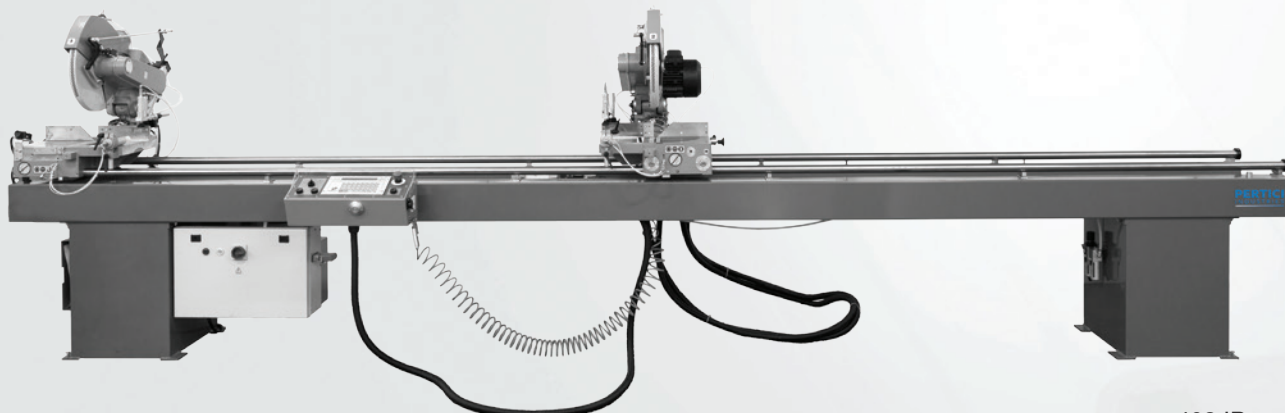
Control features

- Storing profile data (up to 200)
- Industrial control unit with black-lighted 80 characters LCD and protected touch-sensitive keyboard
- USB port
- Serial line RS 232 C

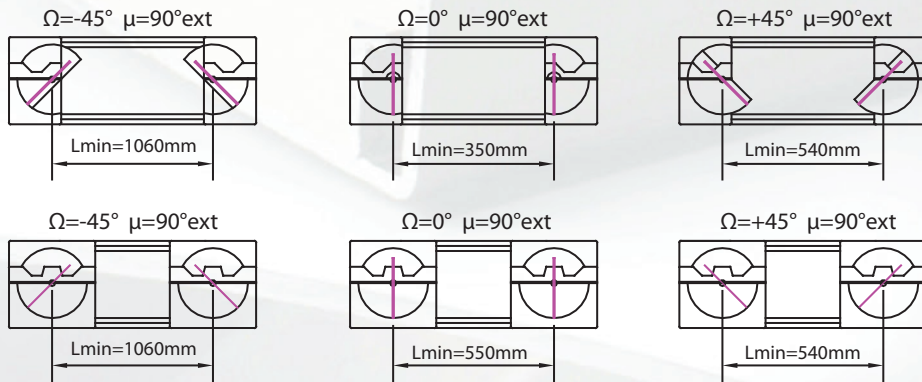
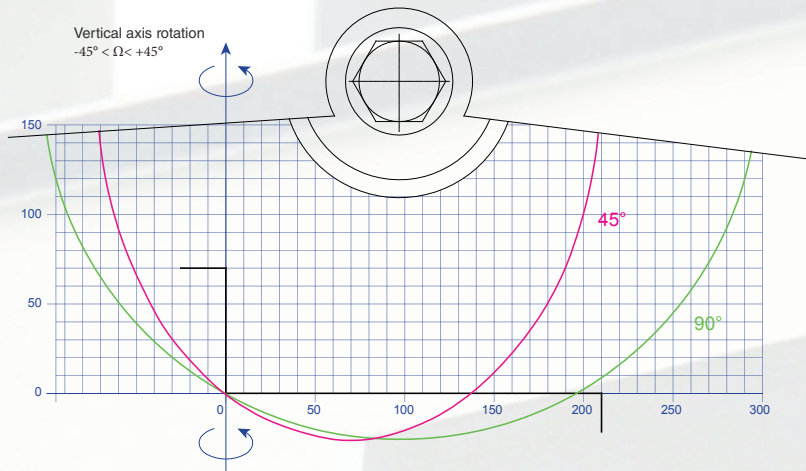


Options

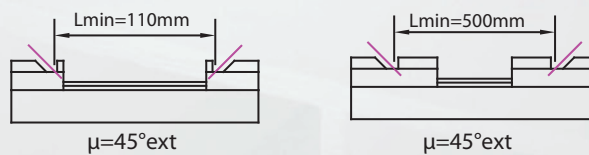
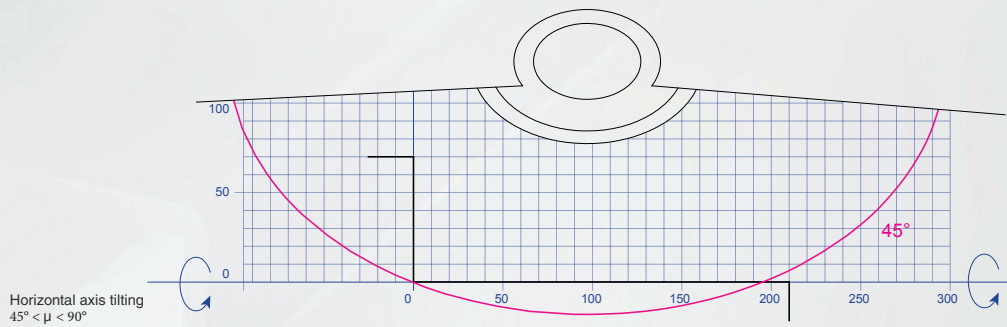
- Automatic intermediate support
- Office software import driver
- Repetitive cut
- Bevel cut
- Wedge cut (mechanical)
- Reduced cut
- Industrial dust exhauster
- Blade motor power: 3 kW
- Side support with roller 3000 mm
- Lower connection kit for dust exhaust unit



403 IP



403 IP cutting diagram on vertical axis rotation



403 IP cutting diagram on horizontal axis tilting

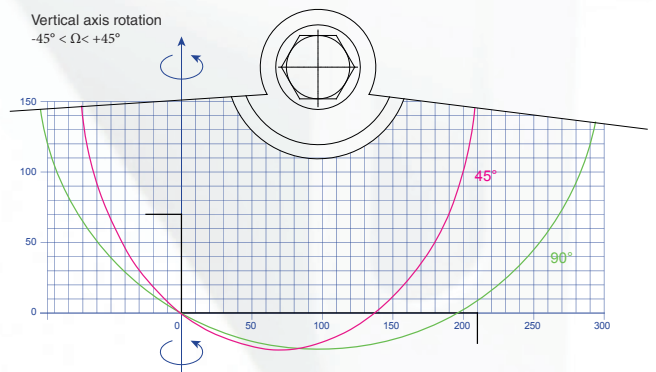
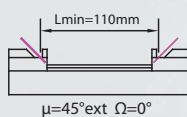
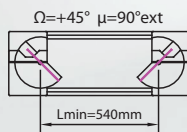
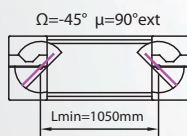
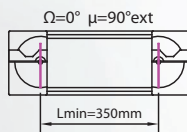
Semiautomatic double head cutting machine 402 IP

- Carbide saw blade 400 mm
- Length control system by metric ruler
- Reduced cutting table
- Manual rotation heads from -45° to $+45^\circ$ (Ω)
- Manual tilting heads from 45° ext to 90° (μ)
- Mechanically controlled protection of cutting area
- Blades lubrication system
- Pair of horizontal pneumatic clamps with low pressure device
- Pair of vertical pneumatic clamps with low pressure device
- Blade motor power: 2,2 kW
- Blades speed: 3200 rpm
- Maximum cutting length (according to the model):
 - 3500 mm
 - 5080 mm
 - 6080 mm
- Minimum cutting length: see the target below
- Power supply: 5 kW

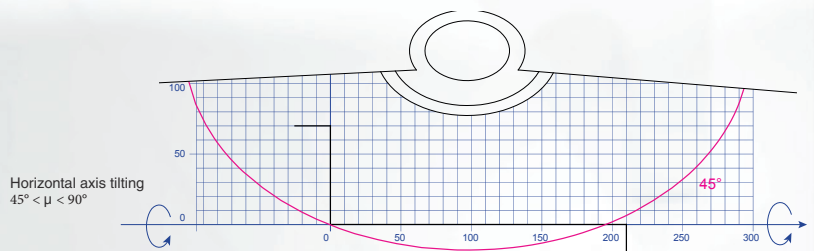
- Air consumption: 45 NI/'
- Dimensions (length x depth x height) / weight according to the model:
 - 4530 x 1200 x 1550 mm / 500 kg (3,5 m model)
 - 6030 x 1200 x 1550 mm / 550 kg (5 m model)
 - 7030 x 1200 x 1550 mm / 600 kg (6 m model)

Options

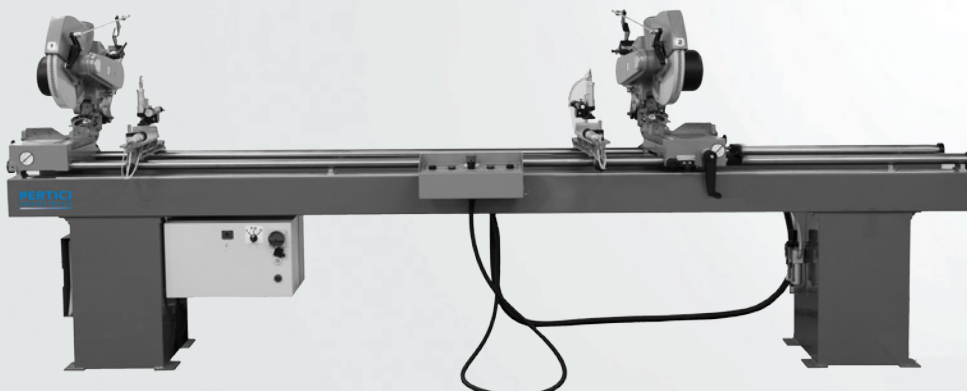
- Wedge cut (mechanical)
- Digital read out for length
- Industrial dust exhauster
- Blade motor power: 3 kW
- Extension working plate
- Lower connection kit for dust exhaust unit



402 IP cutting diagram on vertical axis



402 IP cutting diagram on horizontal axis



402 IP

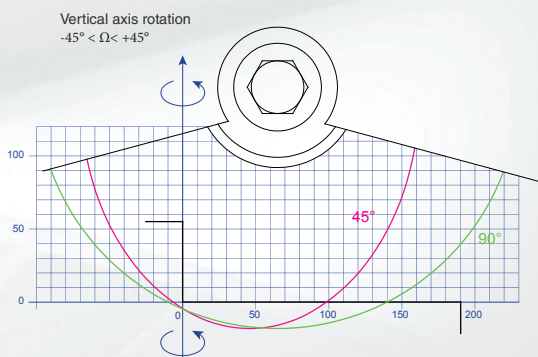
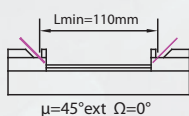
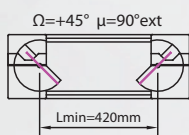
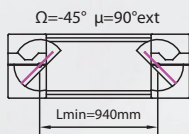
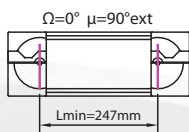
Semiautomatic double head cutting machine 330 IP

- Carbide saw blade 330 mm
- Length control system by metric ruler
- Reduced cutting table
- Manual rotation heads from -45° to $+45^\circ$ (Ω)
- Manual tilting heads from 45° ext to 90° (μ)
- Mechanically controlled protection of cutting area
- Pair of horizontal pneumatic clamps with low pressure device
- Pair of vertical pneumatic clamps with low pressure device
- Blade motor power: 2,2 kW
- Blades speed: 3200 rpm
- Maximum cutting length (according to the model):
 - 3335 mm
 - 4580 mm
 - 6080 mm
- Minimum cutting length: see the target below

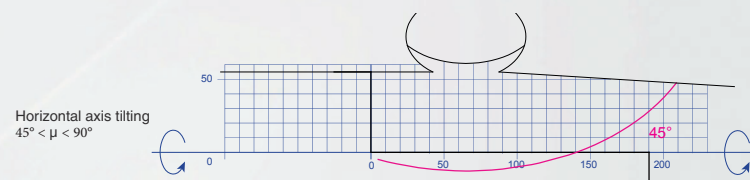
- Power supply: 5 kW
- Air consumption: 45 NI/'
- Dimensions (length x depth x height) / weight according to the model:
 - 4200 x 1150 x 1450 mm / 350 kg (3,3 m model)
 - 6030 x 1150 x 1450 mm / 400 kg (4,5 m model)
 - 7030 x 1150 x 1450 mm / 450 kg (6 m model)

Options

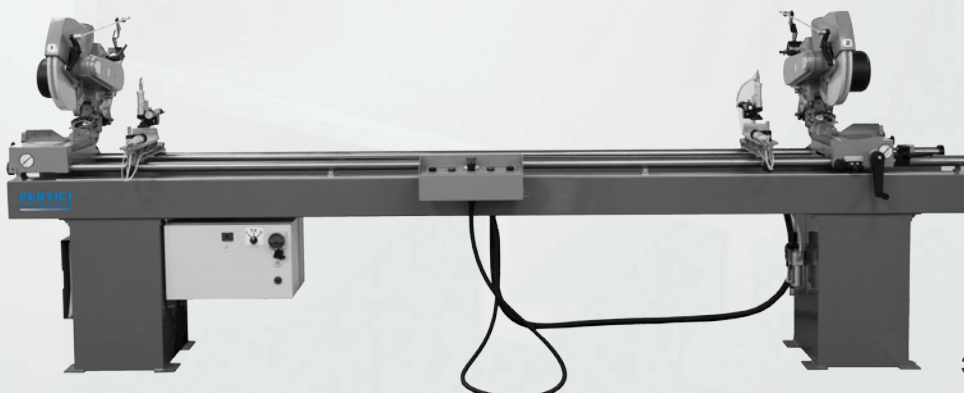
- Wedge cut (mechanical)
- Blades lubrication system
- Industrial dust exhauster
- Lower connection kit for dust exhaust unit



330 IP cutting diagram on vertical axis



330 IP cutting diagram on horizontal axis



330 IP

COMPLETE TECHNICAL SPECIFICATION

MACHINES FEATURES	SERIES 600 <small>ALU PVC</small>		SERIES 550 <small>ALU PVC</small>		500 TS	500 TS/22
	600 TSE	600 TSP	550 TSE	550 TSP		
Carbide saw blade [mm]	600		550			
Maximum cutting length (according to the model) [mm]			4100 5100 6100			
Minimum cutting length at 90° [mm] *	330				222	310
Positioning of moveable head	Automatic					
X axis positioning speed [m/min]	30					
Tilting head system	Electronic	Pneumatic	Electronic	Pneumatic		
Tilting head angle	45°int ÷ 20° ext				45° ext ÷ 90°	22,5° ext ÷ 90°
Rotation head system			X			
Rotation head angle			X			
Blades lubrication system						
Protection of cutting area	Pneumatic					
2 horizontal and 2 vertical pneumatic clamps with low pressure device						
Side support with roller 3000 mm			✓			
Blade motor power [kW]	3					
Blade speed [rpm]	2800					
Power supply [kW]	8					
Air consumption [NI/']	70					
Dimensions with roller support (length x depth x height) according to the model [m] **			8,7x2,0x2,1 9,7x2,0x2,1 10,7x2,0x2,1			
Weight according to the model [kg]			2000 2200 2400			

CONTROL FEATURES

Control interface	Touch screen industrial PC panel TFT 15"
Control features	Windows Embedded operating system Storing profile data (up to 1000) Optimization on cutting lists Complete diagnostic help on line USB port - Ethernet port for LAN connection

ADDITIONAL FEATURES***

Profile height electronic measuring device	✓
Automatic intermediate support	✓
Office software import driver	✓
Label printer kit	✓
Repetitive cut	✓
Bevel cut	✓
Wedge cut	✓
Reduced wedge cut	✓
Extra-length cut	✓
Reduced cut	✓
Industrial dust exhauster	✓

* For different angles see the dedicated machine datasheet

** Roller support is not foreseen for series 400/330

*** For further options see the dedicated machine datasheet

✓ Included ✓• Optional ✗ Not available

SERIES 500 ALU PVC						SERIES 400/330 WOOD ALU PVC		
500 CD	500 CD/22	500 D2K	500 D2K/22	500	500/22	403IP	402IP	330IP
500/520						400		330
4100 5100 6100						3500 5080 6080		3335 4580 6080
222	310	222	310	222	310	350		247
Manual						Automatic	Manual	
20						✗	20	✗
Pneumatic						Manual		
45° ext ÷ 90°	22,5° ext ÷ 90°	45° ext ÷ 90°	22,5° ext ÷ 90°	45° ext ÷ 90°	22,5° ext ÷ 90°	45° ext ÷ 90°		
✗						Manual		
✗						-45° ÷ +45°		
✓						✓•		
Electrically controlled						Mechanically controlled		
✓								
✓						✓•	✗	
2,2 (3 kW as option)								
2800						3200		
5,5				5		5,5	5	5
63						45	45	45
8,46x1,73x1,90 9,46x1,73x1,90 10,46x1,73x1,90						4,53x1,20x1,55 6,03x1,20x1,55 7,03x1,20x1,55	4,53x1,20x1,55 6,03x1,20x1,55 7,03x1,20x1,55	4,20x1,15x1,45 6,03x1,15x1,45 7,03x1,15x1,45
1090 1220 1350						500 600 700	500 550 600	350 400 450

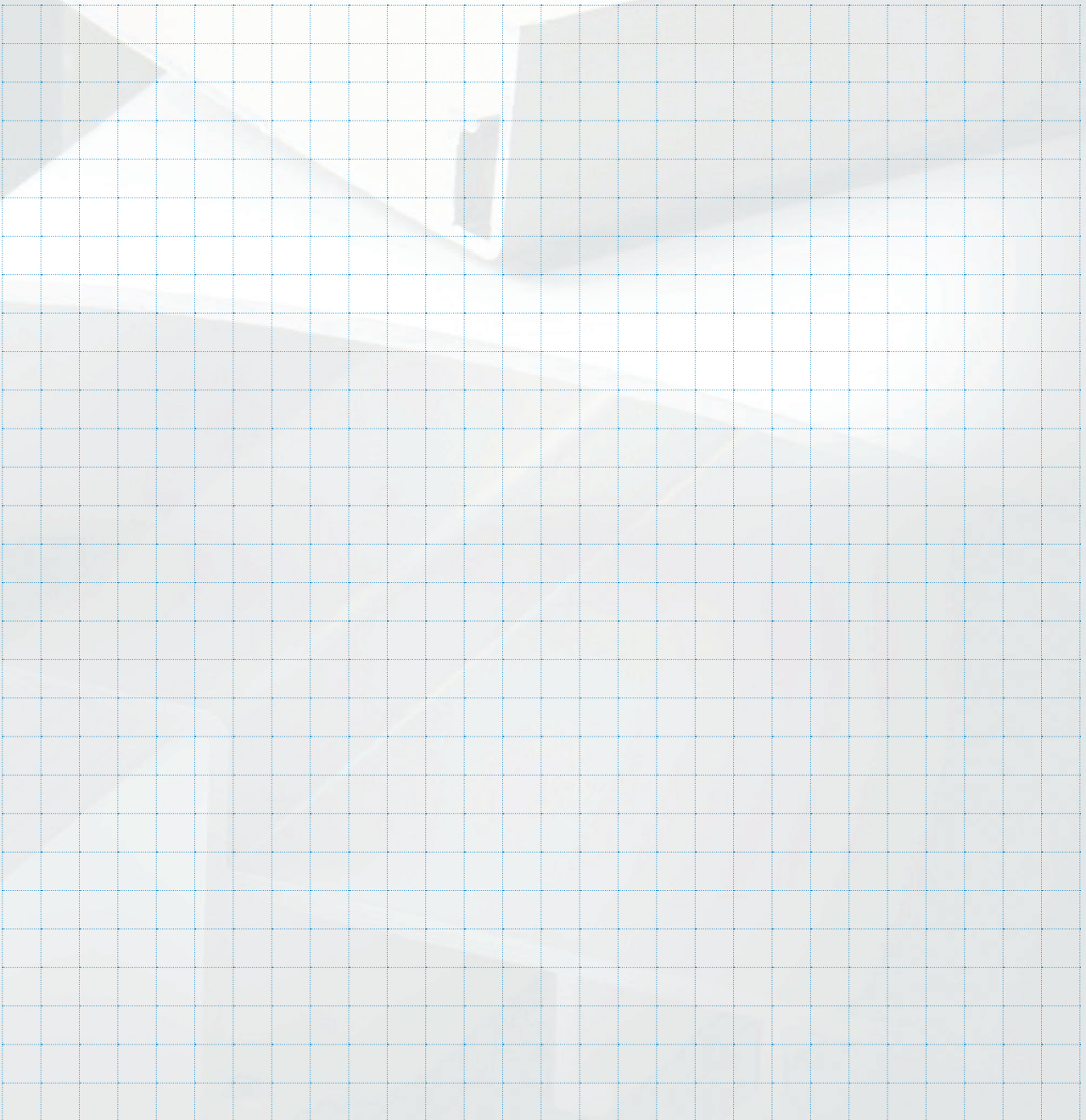
Industrial PC panel TFT 6,5"	Industrial control unit with black-lighted 80 characters LCD							
	Storing profile data (up to 200) USB port Serial line RS 232 C	✗		see 500 D2K model				✗

						✗		
		✗				✓•		✗
		✗				✓•		✗
						✗		
		✗				✓•		✗
		✗				✓•		✗
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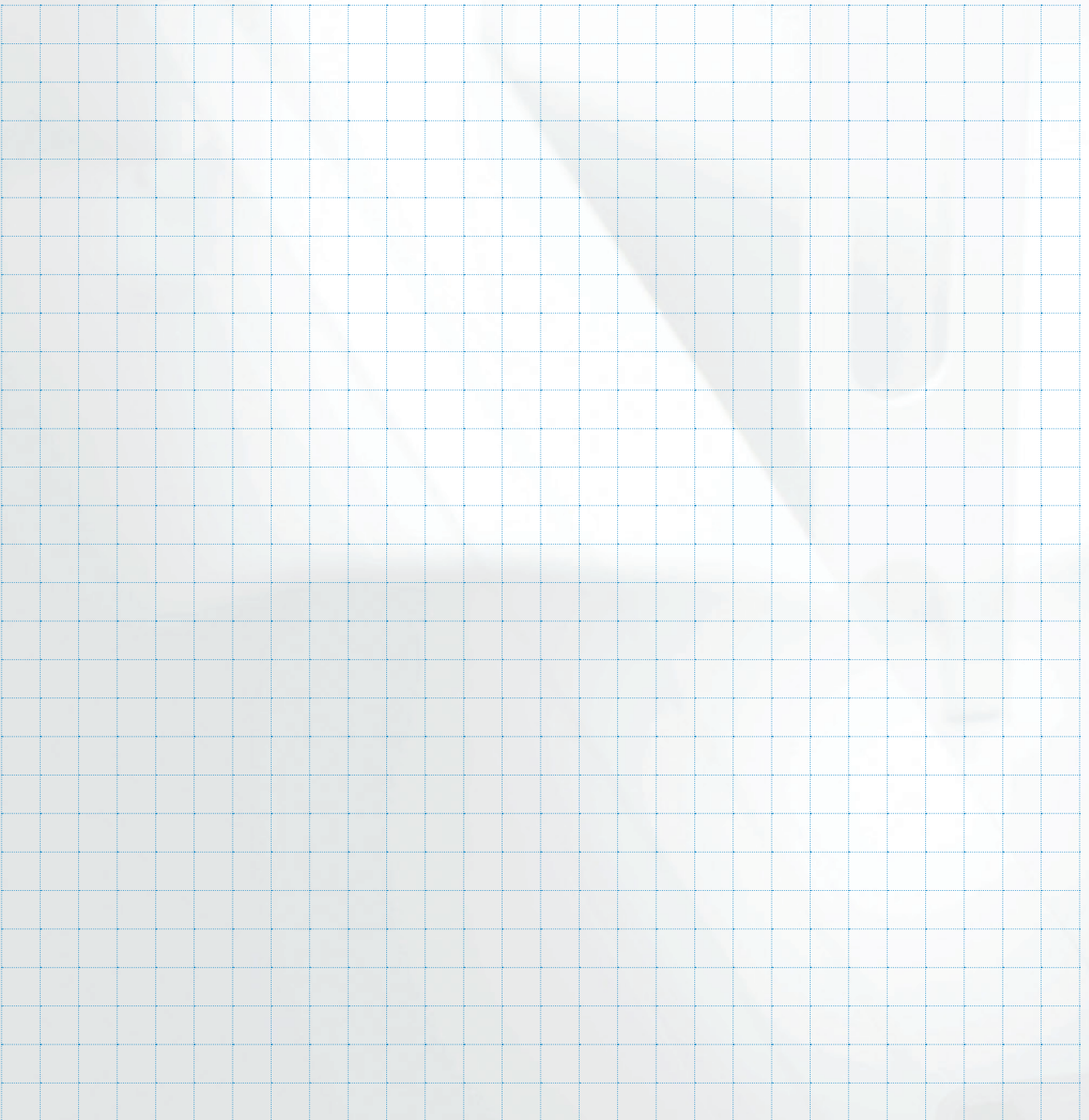
NOTE



NOTE



NOTE





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