formula line









formula line







sanders / 10



router / 14



structuring/brushing machines / 20



cut-off saw / 24





vacuum dust extractors / 30



band saws / 16



radial saws / 18



clamp / 26



horizontal mortiser / 28



dust extractors with bag / 32







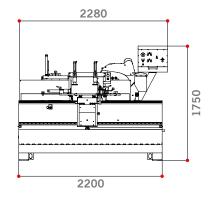
feeders / 33

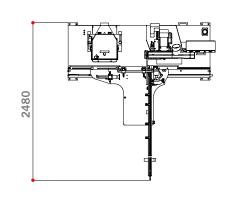


accessories / 34

tenoning machine

formula ten 400







formula		ten 400	ten 400e
Compressed air	bar	6	6
Voltage (3 ph @ 50 Hz)	V	380/400	380/400
Spindle moulder unit			
Max. tool diameter	mm	360	360
Tool rotating speed	rpm	3600 fixed	up to 3600
Stroke under the worktable	mm	90	90
Exhaust outlet diameter	mm	120	120
Outlet diameter for cooling	mm	-	100
Motor power	kW	7,5	7,5
Tool change system		manual ring	HSK 63B
Spindle diameter	mm	40 or 50	40 or 50
Supplied shafts, 100 mm length		-	4
Fixed spindle length	mm	180	-
Max. tool length above the worktable	mm	140	-
Circular saw unit			
Max. blade diameter	mm	400	400
Max. cutting height	mm	120	120
Blade rotating speed	rpm	2800	2800
Exhaust outlet diameter	mm	120	120
Saw blade horizontal stroke	mm	120	120
Number of stops on revolver		4	4
Selfbraking motor power	kW	3	3
Work-piece support table			
Worktable stroke towards the tool	mm	105	105
Worktable width	mm	400	400
Vertical pressers for pneumatic clamping	n.	2	2
Horizontal presser for pneumatic clamping	n.	1	1
Stops on revolver	n.	5	5
Tilting fence with stops on the table	degrees	± 45	± 45
Extensible stop up to	mm	2800	2800
Rotating chipbreaker for processing at 90°	profiles n.	5	5
Optional devices			
Machine version with 450 mm blade		0	0
N.1 additional tool-holder spindle - 40 mm diameter		-	0
N.1 additional tool-holder spindle - 50 mm diameter		-	0

tenoning machine machining units



High efficiency Carriage movement on ball bushing linear guides and positioning by means of 5-position revolver.



Simple adjustment Revolver with 5 mechanical stops for the tenon depth set-up on the circular saw unit.



Perfect tenoning operations Revolver with 4 mechanical stops for the work-piece positioning during tenoning machining, without needing cutting-off operation.



Easy set-up Spindle moulder unit with fixed spindle with height adjustment (up to 90 mm under the worktable).









Smart solutions

The tenoning unit is equipped with two vertical and one horizontal pressure cylinders for the work-pieces locking and the machining even of large elements.

Total safety
Chipbreaker with 5 stops to operate in safety.



sanders

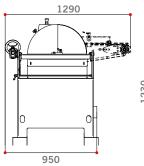
formula dg 60 modular disc sander formula unilev 150 universal sanding centre with oscillating vertical belt

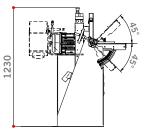


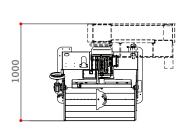


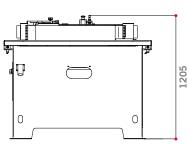
formula dg 60

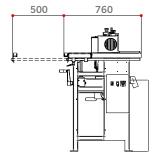
formula unilev 150

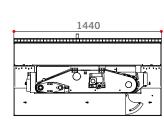












- Not Available Option

formula		dg 60	dg 60b	unilev 150
Worktable dimensions (* total width)	mm	700 x 350	700 x 350	1440 x 710*
Table and fence tilting	degrees	0 ÷ 45	0 ÷ 45	0 ÷ 45
Disc diameter	mm	600	600	-
Disc rotating speed	rpm	900	900	-
N.2 belt speeds	m/s	-	-	12/24
Motor power (* belt with S1 2-speed)	kW	2,2	2,2	2,2 / 3*
Voltage (3 ph @ 50 Hz)	V	380/400	380/400	380/400
Belt unit vertical tilting	degrees	-	0 ÷ 90	-
Abrasive belt length	mm	-	1860	2170
Abrasive belt height	mm	-	150	150
Oscillating unit vertical movement	mm	-	-	130
Vertical oscillation	mm	-	-	20
Exhaust outlet diameter	mm	-	-	120
Optional devices				
Retractable table extension with rollers		-	-	0
Supplementary table for processing with rollers equipped with suction connection		-	-	0
Accessories kit		-	-	0
Rubber roller, 8 mm diameter, fitted with pin and ER32 collet chuck		-	-	0
Pneumatic roller, 70 mm diameter, with ER32 collet chuck		-	-	0
Pneumatic roller, 70 mm diameter, with shaft		-	0	-

sanders machining units



Maximum practicality

The worktable can be angled 45° guaranteeing an accurate sanding also of tilted profiles.





No limits to sanding

The formula dg 60b machine version is fitted with sanding belt unit and horizontal pneumatic roller with 70 mm diameter.







Flexibility and sturdiness

The machine is featured with a motor for the belt feeding with two speeds: 12 and 24 m/sec.

Oscillating belt movement through dedicated motor and gear motor. formula unilev 150



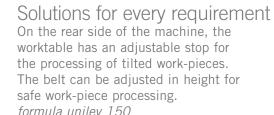
The mobile front extension makes easy the support of large dimensioned panels on the worktable. formula unilev 150





Perfect sanding on shaped work-pieces

A machine even more flexible, with the tiltable worktable and the supplementary table equipped with rubber rollers and integrated dust extraction, ideal for sanding shaped work-pieces (it can be quickly installed and removed). formula uniley 150

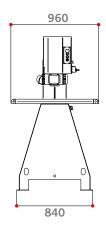


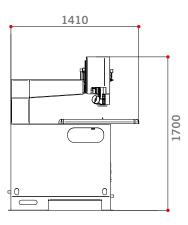


router

formula router 800







formula		router 800
Spindle head and frame distance	mm	800
Variable spindle speed with inverter	rpm	3.000 ÷ 18.000
Motor power	kW	2,2
Voltage (3 ph @ 50 Hz)	V	380/400
Pneumatic shaft vertical stroke	mm	80
Number of revolving turret with adjustable stops		5
Stroke for vertical adjustment of the routing head	mm	65
Max. work-piece height (jig included)	mm	150
Worktable dimensions	mm	960 x 880
Max. table height from floor	mm	1000
Copying pin diameter	mm	8 - 10
Max. tool shank diameter	mm	16
Spindle collet chuck		ER25
Supplied collet for clamping tools with shank from 9 to 10 mm	n.	1
Max. tool diameter	mm	50
Max. tool length	mm	70
Exhaust outlet diameter	mm	80
Air consumption	m³/h	362

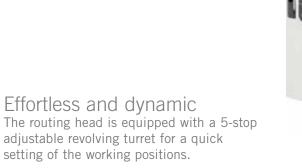
router machining units

Simple and effective Routing head with electrospindle and vertical adjustment by means of handwheel.





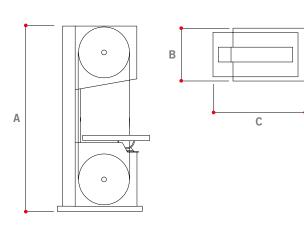
User friendly The adjustable stop prevents the tool from hitting the worktable.





band saws

formula s 440p formula s 540p formula s 640p formula s 740p formula s 840p formula s 940p





	s 440p	s 540p	s 640p	s 740p	s 840p	s 940p
A (mm)	1940	2100	2340	2395	2625	2860
B (mm)	420	520	600	710	800	800
C (mm)	805	940	1145	1265	1485	1590

formula		s 440p	s 540p	s 640p	s 740p	s 840p	s 940p
Worktable dimensions	mm	420x578	520x720	600x885	710x1000	800x1160	800x1250
Cast iron saw wheels diameter	mm	440	540	640	740	840	940
Saw wheels width	mm	33	38	38	40	45	54
Max. cutting height	mm	440 (18")	500 (20")	600 (24")	450 (18")	540 (21")	560 (22")
Max. cutting width	mm	425	520	620	720	820	910
Worktable tilting (CE)	degrees	0 ÷ 45 (20)	0 ÷ 45 (20)	0 ÷ 45 (20)	0 ÷ 45 (20)	0 ÷ 45 (20)	0 ÷ 45 (20)
Min./max. blade dimensions	mm	6/30	6/35	8/35	10/40	10/45	12/50
Standard S1 three-phase motor power 400 V 50 Hz	kW (Hp)	2,2 (3)	2,2 (3)	3 (4)	4 (5,5)	5,5 (7,5)	7,5 (10)
Standard S1 three-phase motor power 220 V 60 Hz	kW (Hp)	3,6 (4,8)	3,6 (4,8)	3,6 (4,8)	5 (6,6)	6,7 (9)	6,7 (9)
Standard S1 single-phase motor power 220 V 60 Hz	kW (Hp)	3,6 (4,8)	3,6 (4,8)	3,6 (4,8)	-	-	-
Exhaust outlets diameter	mm	2 x 120	2 x 120	2 x 120	2 x 120	2 x 140	2 x 140

band saws machining units



Safety first

with rackwork to the blade.

Finish quality

A perfect cut result is assured by the top and bottom high precision blade guides. Practical machines suitable also to perform straight and tilted cuts on wood, plastic and aluminum.

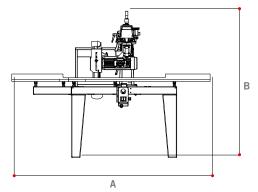


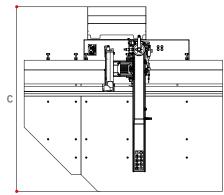
Solidity and sturdiness

The large dimensioned cast iron saw wheels, as well as the worktable, running on sealed for life ball bearings.

radial saws

formula sr 650 formula sr 750 formula sr 900







	sr 650	sr 750	sr 900
A (mm)	1548	1557	1557
B (mm)	1675	1845	2110
C (mm)	1615	1806 (2220 option)	1963

formula		sr 650	sr 750	sr 900
Blade diameter	mm	350 ÷ 400	350 ÷ 400	400
Blade tilting	degrees	-45 ÷ +45	-45 ÷ +45	-45 ÷ +45
Max. cutting depth with 90°/45° blade (* 400 mm blade diameter available as option)	mm	120/83*	120/83*	120/83
Max. cross-cut capacity	rpm	640 x 20	750 x 20	900 x 20
Three-phase motor power	kW (Hp)	3 (4)	3 (4)	4 (5,5)

radial saws machining units



Long-lasting functionality
The mechanisms of which the machine is equipped, as the protection cover on the arm column support, protect the mechanical parts from dust, guaranteeing the best operation over time.



Optimal smoothness
The 8 sliding bearings on the guides grant the best carriage smoothness and an optimal support for a perfect cutting result.



Absolute safety
The blade guard guarantees the absolute operator's safety.



Maximum cutting accuracy

The cast iron structure provides the arm the maximum solidity and rigidity for the maximum cutting accuracy. The interchangeable sliding guides allow the operator a simple and rapid replacing, in case of wear, without direct intervention on the arm.

structuring/ brushing machines

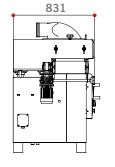
formula str 32 formula str 62

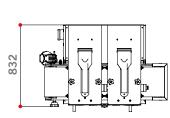




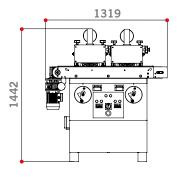
formula str 32

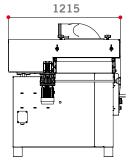
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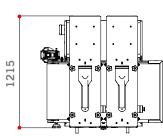




formula str 62







Not AvailableOption

formula		str 32r	str 32I	str 62r	str 62l
Number of machining units		2	2	2	2
Working width	mm	300	300	600	600
Max. working height	mm	300	300	300	300
Machining unit motor power @ 50 Hz	kW	3	3	4	4
Feed speed motor power @ 50 Hz	kW	0,22	0,22	0,37	0,37
Exhaust outlets diameter	mm	2 x 150	2 x 150	2 x 150	2 x 150
Brushes speed	rpm	1500	100 ÷ 1500	1500	100 ÷ 1500
Feed speed	m/min	3 ÷ 20	3 ÷ 20	3 ÷ 20	3 ÷ 20
Brushes diameter	mm	190 / 190	230 / 230	190 / 190	230 / 230
Net weight	kg	440	440	750	750
Dimensions (width x depth x height)	mm	1300x900x1300	1300x900x1300	1300x1200x1550	1300x1200x1550
Optional devices					
Powered machining units lifting with digital re	adouts	0	0	0	0
Nylon brush (in place of the sanding brush, 30	00 mm width)	-	0	-	0
"Jigsaw" cross machining unit creating saw bl (first machining unit) The unit includes:	ade effect	0	0	0	0
- 25 steel strips- 1,5 kW motor controlled by inverter					
Additional steel brush (0,2 mm wire)		-	0	-	0
Additional steel brush (0,3 mm wire)		0	0	0	0
Additional tynex brush (60 grit)		-	0	-	0
Additional tynex brush (80 grit)		0	0	0	0

structuring/ brushing machines machining units



Easy set-up Rapid pressure rollers adjustment through dedicated knobs.



Simple working Machining units lifting by means of handwheels and numerical readout.



Effective solutions
Feed speed variation with mechanical speed variator for a simple and reliable solution.



Perfect finishing

The double machining unit allows obtaining the request finishing in a single passage.



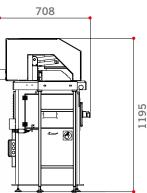
Best-in-class performance Superior adherence thanks to the rubber belt with vertical grooves.

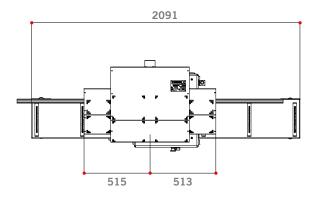


Optimal extraction system
The large diameter of the exhaust outlets grants an optimal dust extraction.

cut-off saw formula cut 350







formula		cut 350
Worktable height	mm	800
Blade diameter	mm	350
Max. cross-cut capacity	mm	210 x 30
Max. working pressure	bar	8
Air consumption	NI/cycle	6
Exhaust outlets diameter	mm	80
Three-phase motor power	kW (Hz)	3 (50) / 3 (60)

cut-off saw machining units



The best cleaning
The exhaust outlets positioned near the dust evacuation areas ensure a fully cleaning of the working environment.

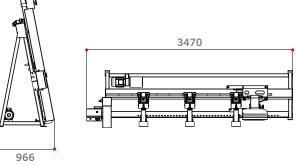


Total safety
The blade guard and the other operator's protection systems, as the bi-manual hand-safety control, enable operating with total safety.



Smart solutions
The machine is equipped with smart solutions as the optional stops and the pneumatic positioning.





formula		clamp 2500
Working dimensions	mm	2500 x 1800
Vertical hydraulic cylinders stroke	mm	150
Thrust of each vertical hydraulic cylinders	kg	1270
Horizontal hydraulic cylinders stroke	mm	120
Thrust of each horizontal hydraulic cylinder	kg	770

clamp machining units



Ease-of-use

The quick vertical beams positioning system allows a very simple hydraulic cylinders adjustment.



Solidity and sturdiness
Even more machine sturdiness with the lower

cast iron supports.



Maximum reliability

The hydraulic cylinders pressure is managed by practical levers and a control panel fitted with a valve with reading monometer and a locking cock for the cylinders pressure maintaining. The process is always under control.

horizontal mortiser formula as 16



formula		as 16
Worktable dimensions	mm	287 x 550
Longitudinal stroke	mm	200
Vertical stroke	mm	160
Transversal stroke	mm	125
Tool spindle diameter	mm	1 ÷ 16
Spindle rotating speed	rpm	3000
Three-phase motor power	kW (Hz)	1,5 (50) / 1,8 (60)

horizontal mortiser machining units



Solidity and manageability
The cast iron strong structure easily moves on cylindrical sliding bars.



User friendly Simple movement of the boring head due to the practical control by hand-wheel and levers.

vacuum dust extractors formula vfp 200 formula vfp 250 formula vfp 300 formula vfp 350 formula vfp 350x



formula		vfp 200	vfp 250	vfp 300	vfp 350	vfp 350x
Nominal air flow @ 20 m/s	m³/h	2262 (1331 CFM)	3534 (2080 CFM)	5089 (2995 CFM)	6927 (4077 CFM)	7127 (4195 CFM)
Static pressure	Pa	2563	2451	2587	2543	3347
Max. air flow @ 20 m/s	m³/h	3000 (1770 CFM)	4900 (2884 CFM)	6000 (3531 CFM)	8500 (5000 CFM)	10000 (5886 CFM)
Exhaust outlet diameter	mm	200	250	300	350	350
Filter type		sleeves	sleeves	sleeves	cartridge	cartridge
Filter surface area	m^2	13,8	22,4	30	73	73
Chip volume capacity	litres	2 x 165	2 x 165	3 x 165	3 x 165	3 x 165
Dimensions (width x depth x height)	mm	2296x830x2050	2351x1058x2361	3000x1058x2361	3129x1058x2361	3129x1058x2361
Three-phase motor power	kW (Hp)	3 (4)	7,5 (10)	7,5 (10)	11 (14,7)	15 (20)

vacuum dust extractors formula vfk 125 formula vfk 140 formula vfk 160 formula vfk 200









	vfk 125	vfk 140	vfk 160	vfk 200
m³/h	884 (520 CFM)	1108 (652 CFM)	1448 (852 CFM)	2262 (1331 CFM)
Pa	2210	2615	2247	2482
mm	125	140	160	200
	cartridge	cartridge	cartridge	cartridge
m^2	5,3	8,5	9,2	22
litres	165	165	2 x 165	2 x 165
mm	1045x830x1750	1045x830x1750	1559x830x1800	1662x830x1800
kW (Hp)	2,2 (3)	2,2 (3)	2,2 (3)	3 (4)
	Pa mm m^2 litres mm	m³/h 884 (520 CFM) Pa 2210 mm 125 cartridge m^2 5,3 litres 165 mm 1045x830x1750	m³/h 884 (520 CFM) 1108 (652 CFM) Pa 2210 2615 mm 125 140 cartridge cartridge m^2 5,3 8,5 litres 165 165 mm 1045x830x1750 1045x830x1750	m³/h 884 (520 CFM) 1108 (652 CFM) 1448 (852 CFM) Pa 2210 2615 2247 mm 125 140 160 cartridge cartridge cartridge m^2 5,3 8,5 9,2 litres 165 165 2 x 165 mm 1045x830x1750 1045x830x1750 1559x830x1800

dust extractors
with bag
formula eco 300sk
formula eco 300s
formula eco 300d
formula eco 350t
formula eco 350q



formula		eco 300sk	eco 300s	eco 300d	eco 350t	eco 350q
Number of bags		1	1	2	3	4
Max. fan air flow capacity	m³/h	2550	2550	3900	4560	4560
Fan diameter	mm	300	300	305	356	356
Number of exhaust outlet attachments		2	2	3	4	4
Exhaust outlet diameter	mm	100	100	100	100	100
Bags diameter	mm	900	900	1300	1850	1850
Bags capacity	m³	0,15	0,15	0,43	0,59	0,79
Motor power	kW (Hz)	1,5 (50)	1,5 (50)	2,2 (50)	3,7 (50)	5 (50)

feeders

formula feed 38 formula feed 48 feeder with 4 rollers fitted with stand formula feed 4i feeder with 4 rollers with inverter fitted with stand

feeder with 3 rollers fitted with stand







formula		feed 38	feed 48	feed 4i
Number of rollers		3	4	4
Feed speed	m/min	2/4/5,5/7/11/13/16,5/33	2/4/5,5/7/11/13/16,5/33	2 ÷ 22
Rollers diameter	mm	120	120	120
Rollers width	mm	60	60	60
Rollers excursion	mm	18	18	18
Three-phase motor power	kW (Hz)	0,75 (50)	0,75 (50)	0,50 (50)

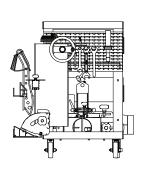
"minimax ease" mobile trolley for accessories

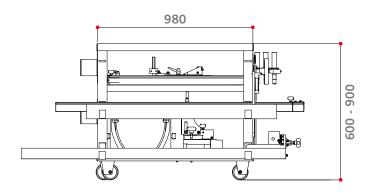


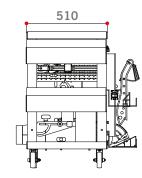
Designed to store various accessories such as: surfacing fence, squaring fence, spindle moulder fence, spindle shafts, etc.

It consists of:

- upper table with bakelite surface that can be used also with piece support during processing
- two shelves with rubber surface
- rotating wheels with locking device







accessories

thicknessing table extension to be used in infeed or outfeed



It can be installed on the worktable end side.

Dimensions:

- 520 x 500 mm
- 630 x 500 mm

tablet holder on the sliding carriage



Compatible with tablets from 8" to 11".



CONTACT

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- Smartech assistance with augmented reality
- My Scm portal opening of service ticket and single point of access to the apps and Services tools



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70 years history
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90% export

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⊘ scm	HITECO Ces Cesteelmec Cescmfonderie				
WOODWORKING TECHNOLOGIES TECHNOLOGIES FOR PROCESSING COMPOSITE MATERIALS, ALUMINIUM, PLASTIC, GLASS, STONE, METAL	SPINDLES AND ELECTRIC PANELS METALWORK CAST IRON TECHNOLOGICAL COMPONENTS				







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