AVOLA
seit 1836

Building site circular saws
Circular table saws
Stone-cutting machines
Carpentry machines
Special machines





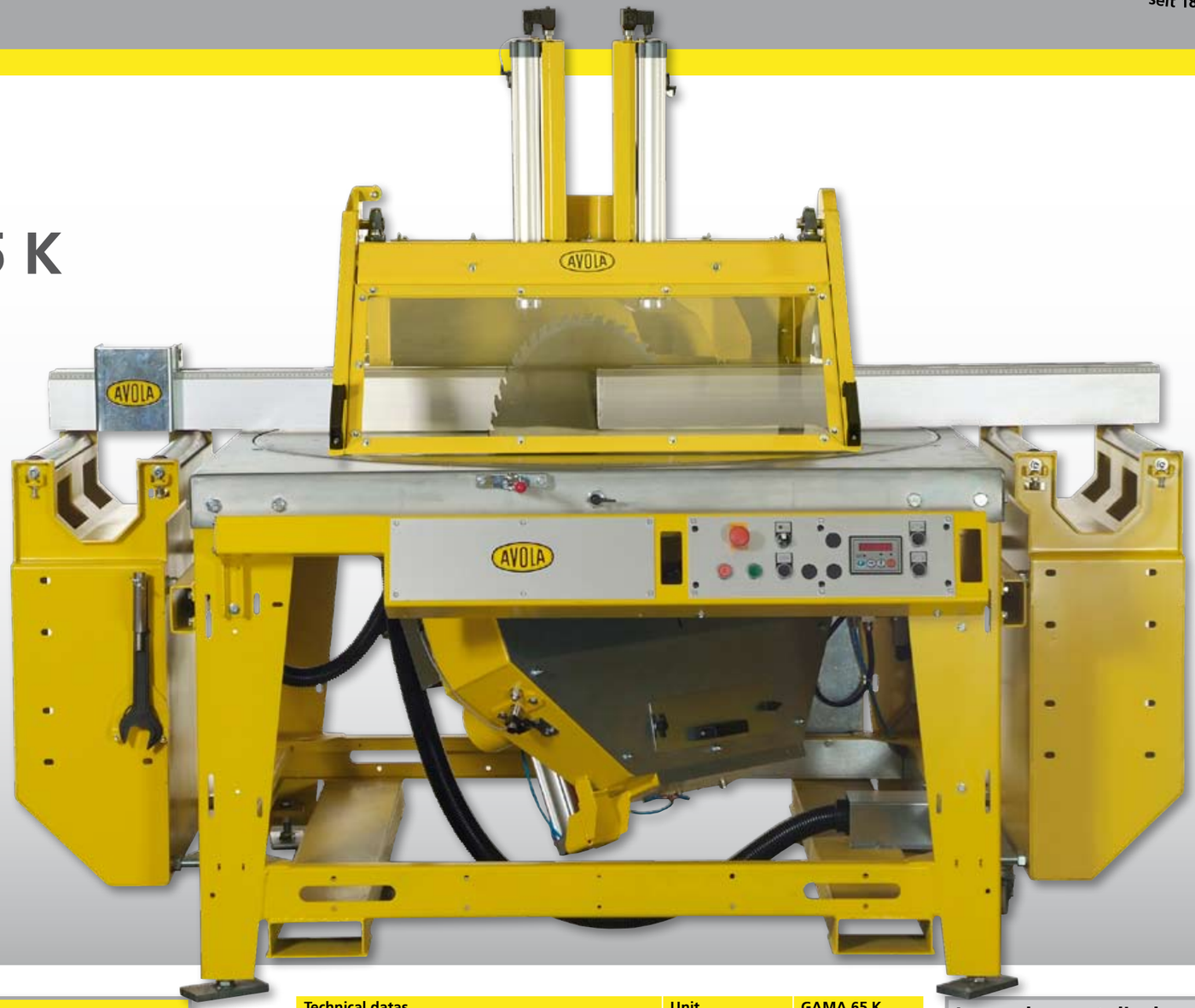


AVOLA

Cross cut table saw GAMA 65 K

The AVOLA 65 K is a Cross cut table saw with a **rotary disk** and a **tiltable saw blade.** Chop cuts with angles from 90° to 30° are just as possible as the cut to be made for the double mitre (compound mitre cut).

The safety concept consists of a „two-hand control“ in combination with a clear protective hood, which completely covers the sawing operation. Opening the protective hood causes the saw blade to move under the table and the slit to be automatically closed. The 650 mm saw blade runs down shielded under the table.



Equipment / scope of delivery

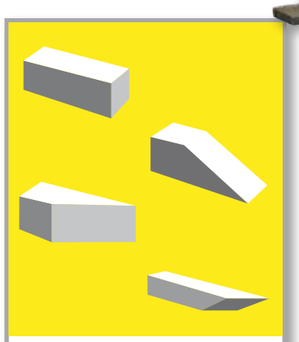
- Cutting heights 90° / 245 mm – 45° / 164 mm – 30° / 113 mm
- Motor 8.1 kW
- Pneumatic clamping cylinder, right/left
- Pneumatic chopping device via two-hand control
- Electrical saw blade inclination adjustment
- 90 – 30° – digital display
- Rotary disk 20-160°
- Laser chop cut display
- Carbide saw blade 650 mm
- Safety hood

Rotary disk / chop cut





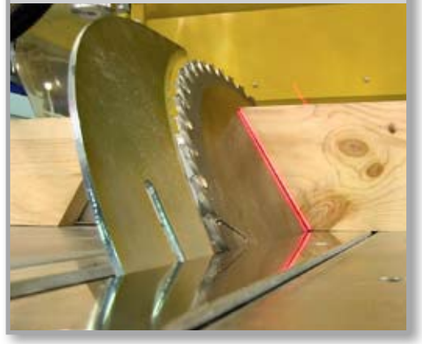




90° cut
Diagonal cuts 90°– 30°
Mitre cuts
Compound mitre cuts

Technical datas	Unit	GAMA 65 K
Motor power (S6 - 40%)	kW	8.1
Drive		direct
Motor speed	rpm	3000
Saw blade speed	rpm	3000
Cutting speed	m/s	102
Carbide saw blade	mm	650
Cutting height 90/45/30° approx.	mm	245/164/113
Table dimensions	m	1.5 x 1.5 x 0.9
Inclination adjustment	°	90-30
Rotatable part of the table	°	20-160
Ø of suction connection	mm	125/80
Underpressure at suction connection	pa	1750
Sound power level in acc. with DIN EN ISO 3746, idle mode / machining	dB (A)	108/110
Emission sound pressure in acc. withprEN ISO 11202 with supplement CEN TC 142Idle mode/ machining	dB (A)	93/96

Laser chop cut display



AVOLA

Cross cut table saw GAMA 65 V

The GAMA 65 V is a **laterally traversable longitudinal, chop and mitre saw.** With a cutting height of 245 mm and a tiltable saw blade at angles from 90° to 30°, the number of possible chop cuts is nearly unlimited.A rotary disk with settings from 0° to 270° extends the cut variants by the compound mitre cut in many versions. Pneumatic clamping cylinders, the laser cut display and a powerful motor are additional details of the standard equipment.



Equipment / scope of delivery

- Cutting heights 90° / 245 mm – 45° / 164 mm – 30° / 113 mm
- Machine table can be laterally by approx. 400 mm with a pneumatic braking mechanism
- Machine hood with lateral PVC protective curtains
- Pneumatic clamping cylinder, right/left
- Pneumatic chopping device via two-hand control
- Electrical saw blade angle adjustment 90 – 30°
- Rotary disk 0-270°
- Laser chop cut display
- Saw blade height adjustment via mechanical stop system, with measuring scale
- Carbide saw blade 650 mm, suction connection 160 / 125 mm
- Motor 12 kW – Direct drive
- Motor speed, rpm – 3000

Rotary disk / longitudinal cut



Hip rafters and valley rafters

A hip forms the outer corner of a roof. The counterpart, the inner corner, is the valley. These roof forms are created when two inclined roof surfaces intersect.
The hip rafters are more stressed than the other rafters, and is therefore more strongly built. The hip rafters should be dimensioned such that the bevels of the compound mitre cuts have full contact on the lateral surface of the hip rafter. Due to the special thickness of these beams, AVOLA GAMA 65 V is equipped with a powerful 12 kW motor.

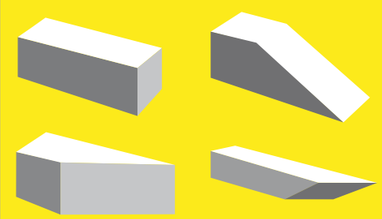
Hip rafters



Valley rafters
Concealed cut



Technical data	Unit	GAMA 65 V
Motor power (S6 - 40%)	kW	12
Drive		direct
Motor speed	rpm	3000
Saw blade speed	rpm	3000
Cutting speed	m/s	102
Carbide saw blade	mm	650
Cutting height 90/45/30° approx.	mm	245/164/113
Table dimensions	m	1.5 x 1.5 x 0.9
Inclination adjustment	°	90-30
Rotatable part of the table	°	0-270
Ø of suction connection	mm	160/125
Underpressure at suction connection	pa	1750
Sound power level in acc. with DIN EN ISO 3746, idle mode / machining	dB (A)	107.5/109.1
Emission sound pressure in acc. withprEN ISO 11202 with supplement CEN TC 142Idle mode/ machining	dB (A)	92.2/95.6



90° cut
Diagonal cuts 90°– 30°
Mitre cuts
Compound mitre cuts

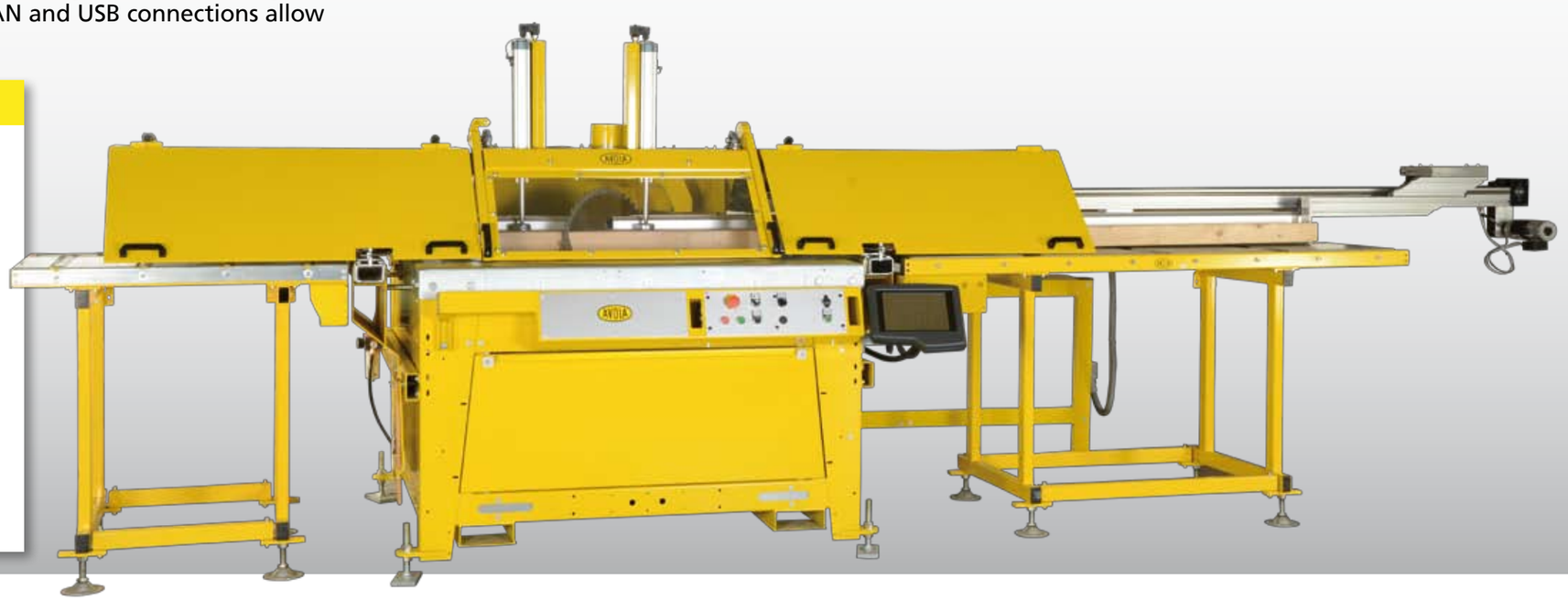
AVOLA

Cross cut table saw GAMA 65 K3

Fully automatic chop

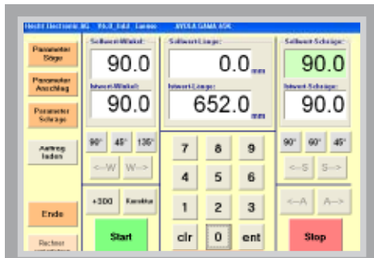
The GAMA 65 K3 is a **chop and mitre saw with a precise Exsenso Comfort Pusher.**

The positioning technology of the K3, equipped with a length measuring stop, an automatic rotary disk and an electrical saw blade tilter from 90° to 30°, is perfectly suited for cutting large quantities or frequently changing dimensions. Standard LAN and USB connections allow data to be read in from CAD programs.



Equipment / scope of delivery

- Drive motor 8.1 kW – direct
- Motor speed, rpm – 3000
- Electrical saw blade inclination adjustment 90-30° via servo motor
- Laser chop cut display
- Cutting heights: 90°/245 mm – 45°/164 mm – 30°/113 mm
- Carbide saw blade 650 mm
- Suction nozzle 125/80 mm
- Rotary disk 20-160° via servo motor
- Horizontal material pinch rolls, right/left
- Pneumatic chopping device via two-hand control/fully automatic length measurement via material slide, drive via servo motor
- Delivery lengths, measuring system/roller tracks: 3 m–14 m
- Lower machine covering
- Pneumatic, adjustable clamping cylinders
- USB connection
- LAN connection





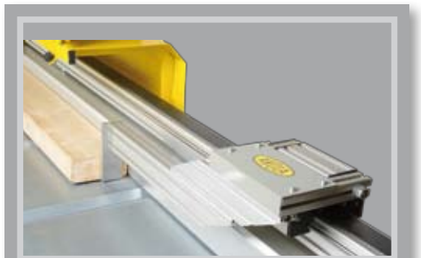
Touchscreen

Fast and easy input of dimensions via user-friendly touchscreen.
Operation is menu-guided. The Exenso Comfort is especially proven for high quantities or frequently changing dimensions.
Standard LAN and USB connections allow CAD data to be read in.

Suction nozzle



Technical data	Unit	GAMA 65 K3
Motor power (S6 - 40%)	kW	8.1
Drive		direct
Motor speed	rpm	3000
Saw blade speed	rpm	3000
Cutting speed	m/s	102
Carbide saw blade	mm	650
Cutting height 90/45/30° approx.	mm	245/164/113
Dimensions L x W x H	m	4.8 x 1.75 x 2
Inclination adjustment	°	90-30
Rotatable part of the table	°	20-160
Ø of suction connection	mm	125/80
Underpressure at suction connection	Pa	1750
Sound power level in acc. with DIN EN ISO 3746, idle mode / machining LWA	dB	108/109
Emission sound pressure in acc. withprEN ISO 11202 with supplement CEN TC 142, idle mode / machining LpA	dB	92/96



Exenso Comfort
Length measuring stop, pusher version.
For precise, accurate length measurement.
Positioning precision 0.1 mm.
Linear unit made of 80 x 80 mm aluminum profile, servo motor.

AVOLA

Cross cut table saw GAMA 65 V3

Fully automatic chop

Laterally traversable longitudinal cut, chopping and mitre saw with precise positioning via Exenso Comfort length measuring stop, pusher version



Equipment / scope of delivery

- Drive motor 12 kW – direct
- Motor speed, rpm – 3000
- Electrical saw blade inclination adjustment 90-30° via servo motor
- Laser chop cut display
- Cutting heights: 90°/245 mm – 45°/164 mm – 30°/113 mm
- Carbide saw blade 650 mm
- Suction nozzle 125/160 mm
- Rotary disk 0-270° via servo motor
- Horizontal material pinch rolls, right/left
- Pneumatic chopping device via two-hand control
- Length measurement via material slide, drive via servo motor
- Delivery lengths, measuring system/roller tracks: 3 m–14 m
- Machine hood with lateral PVC protective curtains
- Lower machine covering
- Pneumatic material clamping cylinder, right/left
- Machine table can be laterally by app. 400 mm with a pneumatic braking mechanism
- Saw blade height adjustment via mechanical stop system, with measuring scale

Exenso Comfort





Electrical saw blade inclination adjustment

The saw blade inclination adjustment from 90-30° is done electrically with the servo motor via the touchscreen

Technical data	Unit	GAMA 65 V3
Motor power (S6 - 40%)	kW	12
Drive		direct
Motor speed	rpm	3000
Saw blade speed	rpm	3000
Cutting speed	m/s	102
Carbide saw blade	mm	650
Cutting height 90/45/30° approx.	mm	245/164/113
Dimensions L x W x H	m	4.8 x 2.3 x 2.1
Inclination adjustment	°	90-30
Rotatable part of the table	°	0-270
Ø of suction connection	mm	160/125
Underpressure at suction connection	Pa	1750
Sound power level in acc. with DIN EN ISO 3746, idle mode / machining LWA	dB	108/109
Emission sound pressure in acc. withprEN ISO 11202 with supplement CEN TC 142, idle mode / machining LpA	dB	92/96

Material feed



AVOLA

Cross cut table saw GAMA 80 V

Laterally traversable rip saw, cross cut saw, chop saw and mitre saw

Equipment / scope of delivery

- DUO feed units for material transport / longitudinal cuts
- Lower protective box
- Cutting heights 90° / 310 mm – 45° / 217 mm – 30° / 149 mm
- Machine table can be laterally traversed by approx. 650 mm with a pneumatic braking mechanism
- Machine hood with lateral PVC protective curtains
- Heavy, short loading and removal tables
- DUO feed units with continuously variable speed adjustment
- Pneumatic clamping cylinder, right/left
- Pneumatic chopping device via two-hand control
- Electrical saw blade angle adjustment 90 – 30°
- Rotary disk 0-270°
- Laser chop cut display
- Saw blade height adjustment via mechanical stop system, with measuring scale
- Carbide saw blade 800 mm, suction connection 160 / 160 mm
- Drive motor, 22 kW gearbox
- Motor speed, rpm – 3000 / saw blade speed, rpm – 2200



Feed extension



Feed units



Technical data	Unit	GAMA 80 V
Motor power (S6 - 40%)	kW	22
Drive		Gearbox
Motor speed	rpm	3000
Saw blade speed	rpm	2200
Cutting speed	m/s	90
Carbide saw blade	mm	800/30 Z = 96
Cutting height 90/45/30° approx.	mm	310/217/149
Dimensions L x W x H	m	4.4x 2.2x 2.0
Inclination adjustment	°	90-30
Rotatable part of the table	°	0-270
Ø of suction connection	mm	160/160
Underpressure at suction connection	pa	1750
Sound power level in acc. with DIN EN ISO 3746, idle mode / machining	dB (A)	102.0/106.0
Emission sound pressure in acc. withprEN ISO 11202 with supplement CEN TC 142, idle mode / machining LpA	dB (A)	87.0/91.0

Electrical saw blade height adjustment (option)



AVOLA

Circular table saw VARIANT 450

AVOLA – Innovation and tradition in the best sense

Variant 450 is a lower table chop saw and rip saw, which is equipped with a rotary disk and tiltable saw blade.This combination saw has a parallel stop, which is used for longitudinal cuts. The setting range of 930 mm ensures high flexibility.

This way, one can also cut large-format plates with no problems. Thanks to the powerful motor (P1, 4 kW), which drives a noise-dampened carbide saw blade, even beams of 150 mm thickness can be cut.

The saw unit is fastened to a rotary disk. With the variant 450. this can be rotated easily and without a tool by 150° so that cross cuts are also possible. Special feature: The material always remains in one direction, regardless of whether one is sawing longitudinally or transversely. The space requirement for the work station is thus minimized. When crosscutting, the table chopping function is used, whereby the material is sawed from bottom to top.
The connection between the rotary disk and the tiltable saw blade makes even complex chop cuts possible with bevel and mitre (compound mitre cut).



Height-adjustable saw blade



Tiltable saw blade 90°-30°



Sawing large plates



Type	Unit	Variant 450
Motor power P2	kW	3.2
Three-phase current	V	400
Speed	rpm	2710
Ø of saw blade	mm	450
Cutting height 90°/45°/30°	mm	150/106/75
Rotary disk	°	0-150
Inclination adjustment	°	90-30
Cutting width	mm	930
Table size L x W	mm	1150 x 750
Table height	mm	850

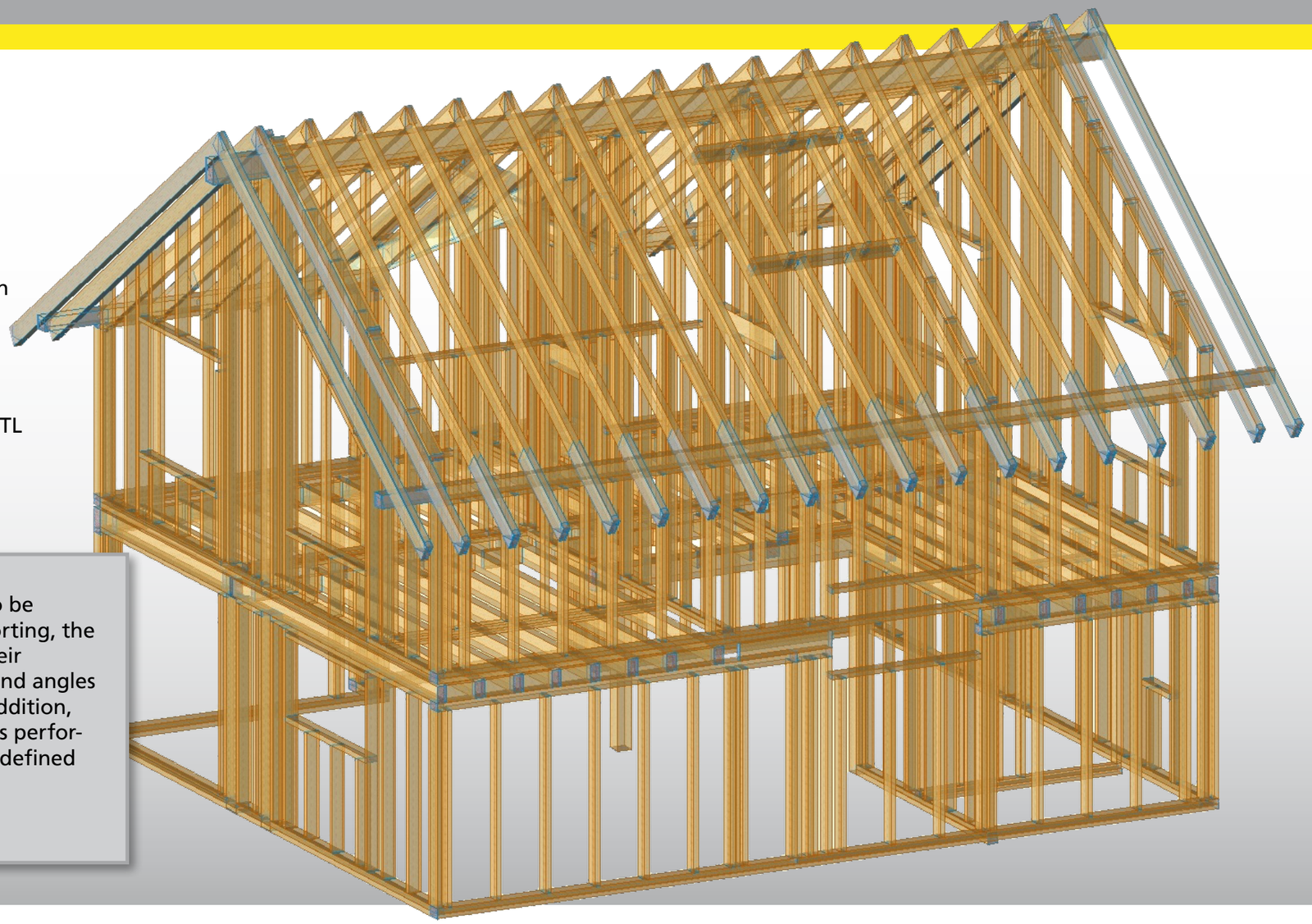
AVOLA SOFTWARE

Compass BTL

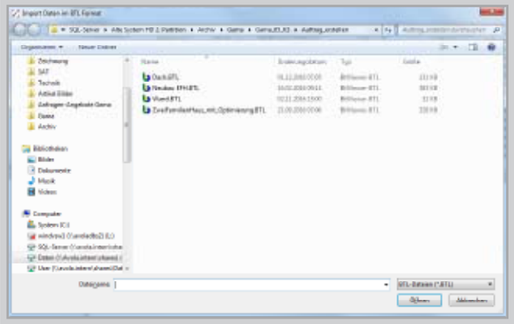
When making the decision for which machine is the right one, the software is becoming more and more important.The system, from the CAD to the machine, must be consistent. Values and designation should only be defined once.
Simple operation is more important than ever with the abundance of software one has to operate nowadays.

Compass BTL connects the CAD system with your machine via the BTL file in only two steps.

The BTL file is a standardized data format which most CAD systems support.

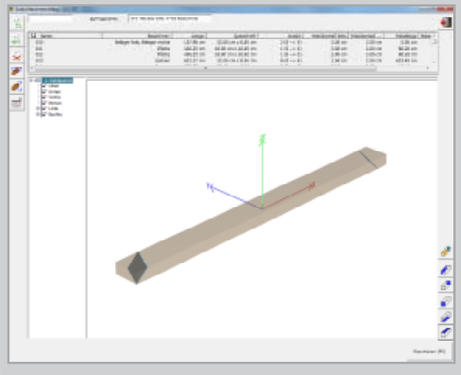


Importing data



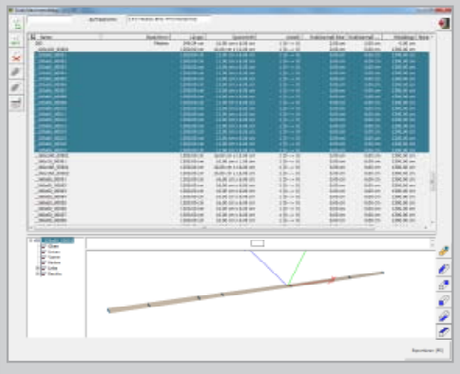
Simply select the file to be imported. During importing, the individual rods with their designations, lengths and angles are imported and, in addition, a length optimization is performed on the previously defined raw part length.

Editing data, if necessary



After importing, you can look at the individual rods and rotate or turn the rod over on the machine.

Exporting file



Select the rods which are to be grouped to form a job and press the „Export“ key. The exported file can be read directly by the machine.

AVOLA

Circular saw blade HM / A / PH

Sawing of polystyrene and wood with only one saw blade

The fast-paced building site of today is increasingly characterized by deadline pressure. So it comes as no surprise that sometimes the saw blade is not changed when necessary and the material is sawed with an unsuitable saw blade.

This poses a high risk to the user of a building site circular saw.

Conventional saw blades are approved for wood **or** insulation materials (polystyrene). The AVOLA circular saw blade HM / A / PH, on the other hand, has approval for wood and polystyrene.



Special benefits of our patented development:

- One saw blade for two materials
- For polystyrene (Styrodur and styrofoam) and wood
- No jamming and sticking, because the newly developed openings in the master blade ensure sufficient air cooling
- More safety and occupational protection even without a blade change
- Faster, more effective and environmentally friendly operation

Type	CV/A	HM/A SG	HM/A PH	HM/A LWZ	HM/A UW
Type of steel, tooth shape	Chrome-vanadium steel, wolf tooth	Carbide flat tooth chamfered **with noise dampening**	Carbide, flat tooth chamfered	Carbide, alternate tooth with chip deflector	Carbide, universal alternate tooth
Used for	**Timber,** universally for longitudinal cuts and cross cuts	For special use at building sites with noise **dampening for occupational and environmental protection.** For nail-proof cutting of **solid timber and construction wood,** very good cutting capacity and high service life, therefore low resharpening costs.	For **polystyrene** (Styrodur and styrofoam) and **wood,** no jamming and sticking, because the newly developed openings in the master blade ensure sufficient air cooling.	Longitudinal and cross cuts in all natural woods, wood materials, plate materials, veneered on one side or covered with plastic, fast, fine cuts	For plate materials, with veneer or covered with plastic on one side, coated or surface-plated **plate materials,** mineral plates, laminated fabric and laminated paper, veneer package-wise, longitudinal

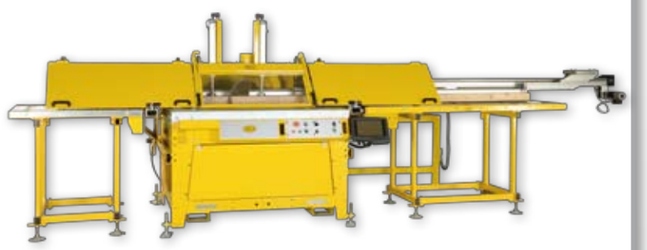
Cutting Styrodur



Diameter Ø in mm	Cutting width in mm	Z = teeth	Art. no.
400	3.8 / 2.5 x 30	28	05270
450	4.0 / 2.8 x 30	32	05271
500	4.0 / 3.0 x 30	36	05272

CARPENTRY MACHINES

Fully automatic chop



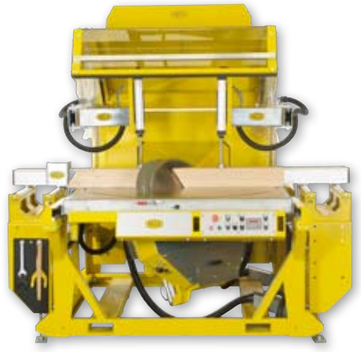
GAMA 65 K3

Chop saw



GAMA 65 K

Chop and rip saw



GAMA 65 V

Chop and rip saw



GAMA 80 V

CIRCULAR SAWS

Building site circular saw



ZBV mit Fahrvorrichtung

The entire AVOLA product range

AVOLA building site circular saws, special machines and filtering devices

AVOLA circular table saws

AVOLA kindling saws

AVOLA circular saw blades

AVOLA stone-cutting machines, special machines and filtering devices

AVOLA SIC cutting disks

AVOLA diamond cutting disks and drills

CARPENTRY MACHINES

Heading



GAMA 65 V3

Circular table saw

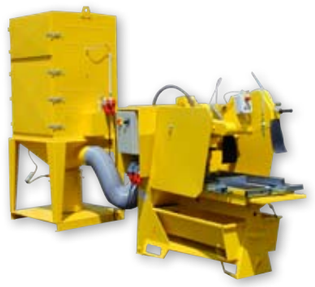


VARIANT 450

Technical data	Unit	GAMA 65 K	GAMA 65 V	GAMA 80 V
Motor power (S6 - 40%)	kW	8.1	12	22
Drive		direct	direct	Gearbox
Motor speed	rpm	3000	3000	3000
Saw blade speed	rpm	3000	3000	2200
Cutting speed	m/s	102	102	90
Carbide saw blade	mm	650	650	800
Cutting height 90/45/30° approx.	mm	245/164/113	245/164/113	310/217/149
Table dimensions	m	1.5 x 1.5 x 0.9	1.5 x 1.5 x 0.9	4.4 x 2.2 x 2.0
Inclination adjustment	°	90-30	90-30	90-30
Rotatable part of the table	°	20-160	0-270	0-270
Ø of suction connection	mm	125/80	160/125	4 x160
Underpressure at suction connection	pa	1750	1750	1750
Sound power level in acc. with DIN EN ISO 3746, idle mode / machining	dB (A)	108/109	108/109	102/106
Emission sound pressure in acc. withprEN ISO 11202 with supplement CEN TC 142Idle mode / machining	dB (A)	93/96	93/96	87/91

STONE CUTTING MACHINES

Wet and dry cutting



STS/N+T 55

Special machine for furnace construction

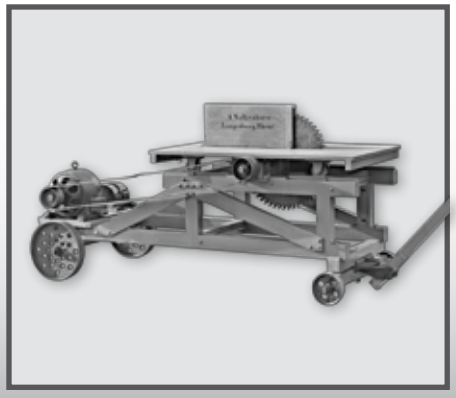


Bridge saw

Stone saw



STS/N 55





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