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DH14/021641T/tnt

FORMAT-4 KAPPA 590 e-motion

The premium panel saw with double tilting aggregate

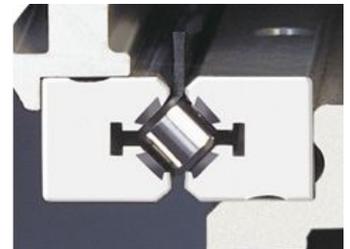
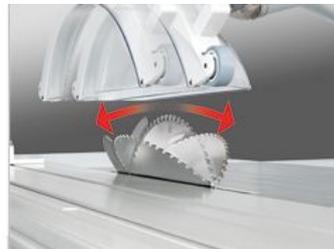
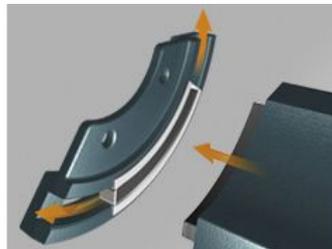


Image may be pictured with additional options.

A premium panel saw from FORMAT-4, ensuring the success of your company!

Product highlights of the Format-4 kappa 590

- Use of solid cast iron components for an optimal cutting finish quality
- All aluminium machine components are anodised
- Tool-free saw blade change (optional) makes changing saw blades quick and easy
- Precision height adjustment: maintenance free
- "Easy Glide" tilting segment guide for maximum durability - with 6 year guarantee
- 3-axis scoring unit control (optional) with park position of the saw blade without having to remove the scoring blade
- Position control of the saw blade height and blade angle max. +/-46°.
- Automatic cutting depth compensation when tilted
- "X-Roll" format sliding table with linear guides for maximum precision and durability - with 10 year guarantee
- 3 outrigger table options guarantee precision and maximum user-friendliness
- Ergonomic control from the operating panel "E-Motion"
- Saw speed display
- 50 memory positions in the tooling database (only with the automatic rip fence)
- All functions are also possible in touch control mode

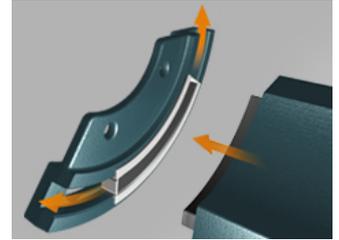
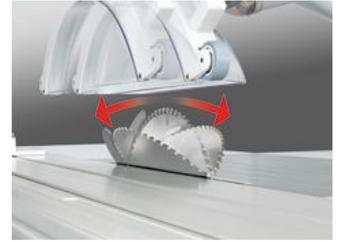


Saw aggregate 590 e-motion:

The saw shaft enclosed in a solid cast iron housing guarantees vibration free operation. The ultra efficient poly-V-belt drive technology as well as the continuously adjustable speed control (2000 - 5000rpm) with the highly efficient synchronous motor ensure maximum and optimal power transmission and speed.

The saw blade has a tilting range of 92° (+/-46°). The maintenance-free "Easy Glide" tilt segment features a precise, double guide support with the highest durability.

The cutting height is 202 mm at 90° when using the maximum saw blade Ø of 550 mm. At +45° the cutting height is 140 mm, at -45° 120 mm. Saw blades with a Ø of 300-550 mm can be used. The precise and durable precision height adjustment is achieved through the use of maintenance-free recirculating ball bushings. The below table extraction and the overhead saw guard ensure maximum extraction performance.



kappa 590 e-motion control:

Operation of the machine is carried out using a 15" colour touch screen. The control panel is mounted at eye level.

All axes can be controlled using the control panel. The intuitive operation and the graphical display facilitate the operation of the machine. The control unit is also equipped with a USB interface and preparation for a network connection.

**Program storage:**

- > Tool database (incl. scoring unit position)
- > Cutting programs (general)
- > Programs for each function
- > Storage of the last values entered
- > Import and export of the tooling database, program storage
- > Remote maintenance via Teamviewer

Functions:

- > Park position (rip fence, scoring unit)
- > Manual movement of the axes
- > Incremental movement of the axes
- > Calculator
- > Total process time recording/users
- > Administrator function

Cutting programs / functions:

- > Wrong mitre
- > Rebates
- > Grooves
- > Row of grooves
- > Diagonal cut
- > Mitre cut
- > Compound mitre cut
- > Compound mitre cut plus
- > Hip rafters
- > Valley rafters
- > Diagonal cut plus
- > Covered V cuts

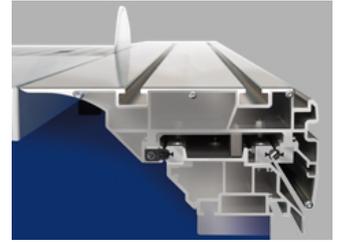
Overhead saw guard:

The handling of the overhead saw guard is simple and comfortable. The moveable extraction hood can be adapted for the tilt in both directions, without the hood having to be swapped over. In one movement, the overhead saw guard can be unlocked and swung completely out of the machine table area. The extraction hood adjusts itself automatically to the workpiece height. The extraction connection is D=100 mm.

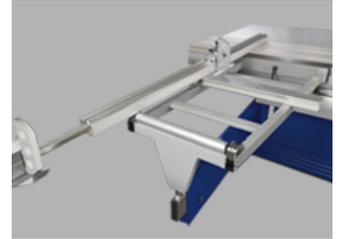


Format sliding table:

The anodised sliding table has a cutting length of 2800 mm, with an edging shoe as standard. The X shape ("X-Roll") design of the roller guides distributes the load optimally on all sides. The linear surface support of the steel rollers running on the hardened and ground guiding surface guarantees unbeatable precision and smoothness. Due to the solid profile construction the sliding table is completely torsion resistant. It has a "dust resistant" design which ensures dust free and clean guides. We provide a 10-year guarantee on the reliability and precision of the "X-Roll" sliding table guiding system!

**Outrigger table:**

The solid outrigger table has a supporting surface of 1250 x 650 mm. The workpiece roller at the end of the outrigger makes it easy to feed in workpieces.

**Crosscut fence:**

The telescopic crosscut fence makes it possible to perform cross cuts up to 3200 mm. The ergonomic scale and readout on the stops guarantee precise setup. The crosscut fence can be moved from 90° to 45° and has 2 fence stops as standard. A fixed reference position is provided for 90°.

**Length compensation:**

The length compensation of the crosscut fence on the outrigger can be calculated using the controls.

Circular saw table extension:

The 1200 mm, steel-powder laminated saw table extension provides a perfectly smooth supporting surface behind the saw axis.

Cutting width:

The table extension, with a cutting width of 1250 mm, ensures that there is more than sufficient support surface for rip cuts.

Rip fence:

The rip fence is positioned electronically using a dust protected ball spindle integrated into the saw table. The 1/10 mm positioning accuracy, the high positioning speed, as well as the simultaneous positioning of the rip fence, saw blade height and saw blade angle, ensure precision and save valuable working time. The digital display is situated on the control panel at eye level. Cutting width 1250 mm.



Chosen specification

Number @453 - 1 Piece

3x 400V 50Hz 10 kW S6, with variable adjustable speed 2000-5000 rpm
For a maximum saw blade Ø of 550 mm, the cutting height is 202 mm at 90°. At +45° the cutting height is 140 mm, at -45° 118 mm. Saw blades with a Ø of 300-550 mm can be used. If the machine is equipped with a residual current circuit-breaker (RCCB), then it must be a Type B, sensitive to universal current RCCB, suitable for frequency inverter operation with a release current of 300mA.

Number 902 - 1 Piece

User manual English

Number 26 - 1 Piece

Plug connection for quick dismantling of the saw guard and overhead control panel

Number 100 - 1 Piece

Software package e-motion plus
for the calculation and processing of the following:-> Knee wall-> Parallelogram-> Trapezoid-> Polygon-> Stairs-> Pyramid-> Cuboid-> Slots/tenons-> Corner bench backrest

**Number 76** - 1 Piece

"Control" scoring unit with 3 axis control (height, width, lateral positioning) and park position. 1.1 kW motor, scoring blade Ø 150 mm which can be used in combination with a max saw blade Ø 400 mm (max saw blade Ø is 550 mm, with the scorer in the park position). Scoring blade width is adjustable between 3.0 and 3.8 mm and is included with the unit. The park position puts the scoring saw blade outside the area of operation of the main saw blade; this prevents blockage when working with solid wood. The "Control" scoring unit automatically adjusts to match the respective stored tool data and thus to every saw blade tooth width.



Number 79 - 1 Piece

Scoring unit status light

**Number 71** - 1 Piece

Tool compartment with LED machine lighting

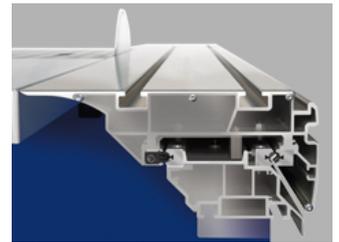
**Number 78** - 1 Piece

"Easy-Lock" - Tool-free quick change system of the main saw blade and riving knife, can be retro-fitted on all kappa 550's

**Number 133** - 1 Piece

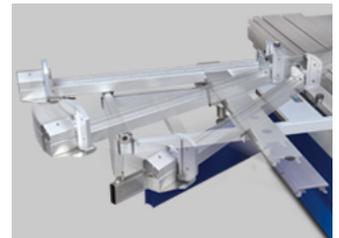
3700 mm "X-Roll" sliding table with edging shoe.

The anodised sliding table has a cutting length of 3700 mm, with an edging shoe as standard. The "X-Roll" sliding table guarantees highest precision. Long lasting table guides with the linear guiding system, ensure absolute smoothness due to the roller bearings. Due to the solid profile construction the sliding table is completely torsion resistant. It has a "dust resistant" design which ensures dust free and clean guides. 10 Year Guarantee.

**Number 161** - 1 Piece

1250 x 650 mm (49" x 25") "X-Roll" outrigger table with adjustable support and digital angle display

The digital display shows the set angle with 0.01° accuracy. Precise 90° fence, simple adjustment of the mitre angle, large supporting surface and maximum stability thanks to the strength-welded frame construction.

**Number 175** - 1 Piece

Crosscut fence with 2 digital stops, including calculation of the length compensation when the fence is at an angle (#161/162) Digi compensation plus

Digi-compensation, 3200 mm crosscut fence with 2 digital crosscut stops with fully automatic calculation of the length compensation on the display depending on the angle of the fence, fully automatic compensation of the fence width when the crosscut stop is flipped back when working at an angle.

**Number 221** - 1 Piece

Container transport preparation