

K2i/K3i

Fully Automated Joinery Machine

The machine for every type of wood construction



Produce components without measurement, layout or setup time. Cross Sections from 20 x 50 mm to 300 x 450 mm an option to 625/900 mm is also available.



Fully Automated Joinery Machine for multiple or single piece production

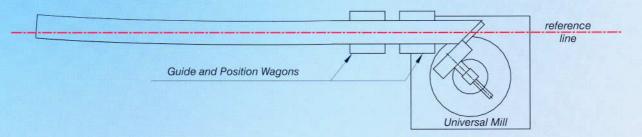
Revolutionary Handling System!





The new revolutionary transport and positioning system with two guide and positioning wagons guarantees accurate cuts even with bowed or twisted lumber.

The wood is held in position directly at the point of operation, so that a bow or twist does not affect the accuracy of the joinery (see illustration).



Guaranteed gentle timber handling and transportation





- loading with a flat chain
- rubber in-feed clamps
- highly accurate flat non-marring table
- 2 guide and positioning wagons
- non-marring out-feed table







Working with rounds, profiled logs, TJI's and stacked dimensional lumber requires no special set-up. They can be easily loaded, securely positioned and accurately cut.

Customized to fit your needs!



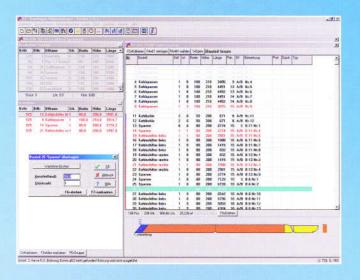




The versatile K2i is manufactured to meet the requirements of the diversified wood construction industry. It can be ordered as an automated component saw or as a fully automated joinery machine. Workstations or tooling can be added as needed.

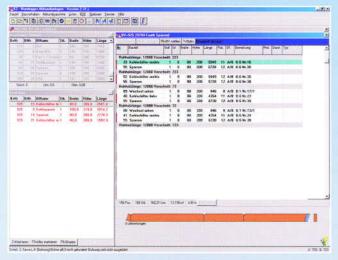


Hundegger - EKP Software

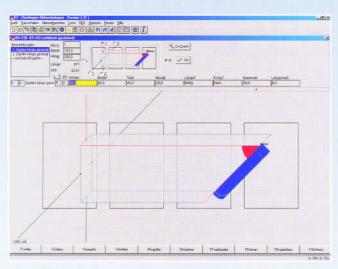


The sophisticated process control system creates an efficient work sequence without sorting lumber.

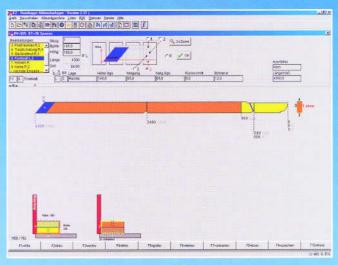
The cut list can be adjusted to match the order of material on the loading conveyor. Each piece is then loaded and cut automatically. After processing, the part is recorded on the computer as completed.



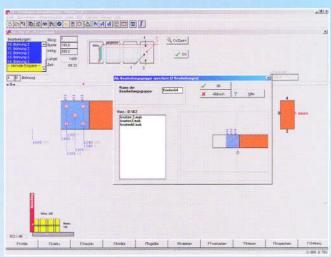
Material Optimization



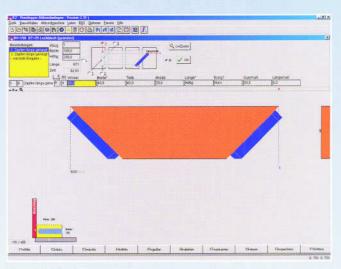
Input Prompts







Save Process Groups



Graphic Display

Example operations with the standard version



Various types of jack rafter cuts



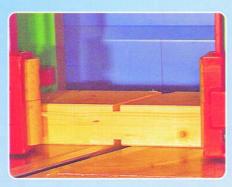
V-cuts of any angle and depth



Automatically process accurate valley and hip ridge cuts



Tapered saw cuts of any length and angle



Blocking grooves of any width or angle with no additional tooling



Parts as small as 35 cm can be automatically processed



Any type or size of tenon connection



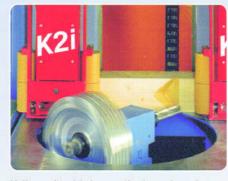
Mortises and tenons are milled round Advantage: fast and exact



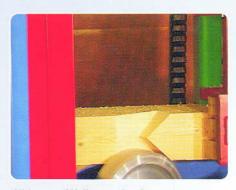
Custom connections can be saved as process groups



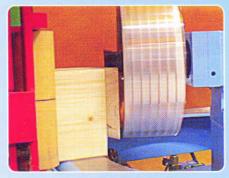
Automatic offset for rafter spike drillings depending on the birdmouth angle



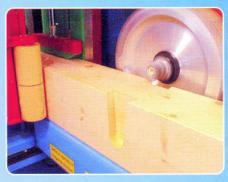
Valley rafter birds mouths in various forms



All types of Valley seat cuts



Dovetail tenons parallel or conical, with or without housing



Dovetail mortises are precisely milled using the same tool



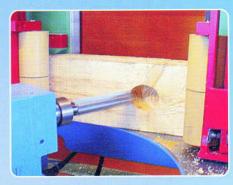
Blind drill holes can allso be made



Drill hole patterns



Beam end operations



Counter sinks for washers, nuts, split ring anchors etc.



Process groups for knife plate connectors



Blind slots can also be cut



Various log home connections



Profiled timbers can be transported and processed without damage



Various simple scarf joints can be cut quickly and accurately



Simple scarf joints, scarf joints, etc. can be saved as process groups

The K2i can be equipped with many different tools to process multiple types of joinery quickly and efficiently



Seat cuts at any angle on all four part sides



Timber is clamped directly next to the operation



Housed tenon connections



Newel Posts



Decorative posts



Drillings of various sizes including blind holes



Various Rafter profiles



Knee braces



Lenght rabbeting



Convex profile



Concave profile



Free-definable endmill



Stair stringers



Chamfer all four corners



NHT-connections without any extra tooling



Precise rotations are performed automatically



Round log processing without retro-fitting machine



Several different kinds of marking and inscription are available:



Rafter markings can be made on all 4 part sides



The "writer" pen will mark the part with straight or diagonal lines; also writes text.



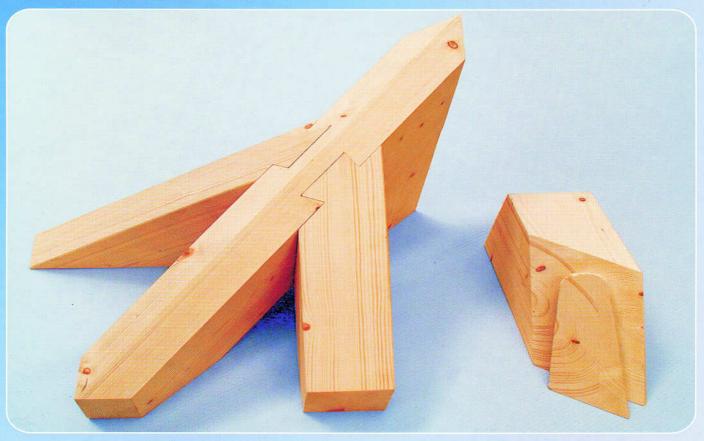


Text heights range from 12,7 to 50,8 mm on one or up to four lines.



On-the-fly inkjet marking system - marking and labeling possible on three part sides.

The flexibility of the K2i is further enhanced with the 5-axis mill unit!



The use of Dovetail connection significantly simplifies part assembly!



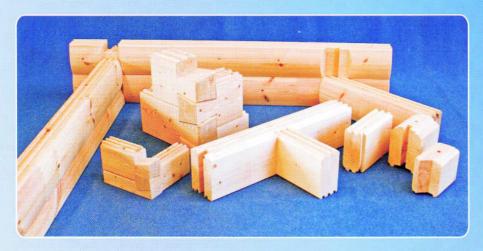
Dovetail connections on jack rafters can be accurately processed at any angle or bevel using the 5-axis mill.



Other advantages offered by the 5-axis mill include rest-timber free hip/ridge cuts, millings at any angle or bevel and compound drillings. Valley and hip ridge cuts no longer require extra material length (rest timber) for processing.









Revolving Mill - Horizontal. Capable of using up to 4 different tools, like drills, end mills, rolling cutters or dove tail cutters.



Log Home Mill - Vertical.



Log Home Mill - Horizontal.



Revolving Mill - Vertical.



Splinter-free drilling and milling is made possible with the double support feature. Processing both sides simultaneously, without having to rotate the timber, greatly reduces cycle time.



The end mill from above can also be fitted with a dove tail processing unit.



With the development of the new Dado Head Unit (0° - 180°), eave blocking grooves can be produced even quicker.



Angled horizontal drill unit.



Drill unit - 360° angled.



Blind and angled slots can be easily produced with new beam end slot cutter - 360° angled.



Gang-Drill - Vertical Equipped with up to 6 drills that can be operated simultaneously. The max. vertical drill depth is 300 mm. Drill diameters from 6 -60 mm are possible.



Gang-Drill - Horizontal The horizontal gang-drill can be equipped with up to 24 drills. As many as 12 holes can be drilled simultaneously. The max. horizontal drill depth is 370 mm; Drill diameters can range from 6 - 60 mm.



Splinter-free backing plate - Horizontal



Splinter-free backing plate - Vertical



Dados up to 300 mm deep can be quickly and cleanly produced with the horizontal saw.





The guided slot cutter can accurately make through-slots of any lenght on parts up to 625 mm wide as well as blind slots from he fence side.



Slot cutter - Verical



Console printer creates labels with part name, part number, etc.



Separate Monitor to show the produced pieces



Hydraulic lift table with automatic de-stacking unit



Dimensional measuring for auto recognition and correction of rough timber dimensions

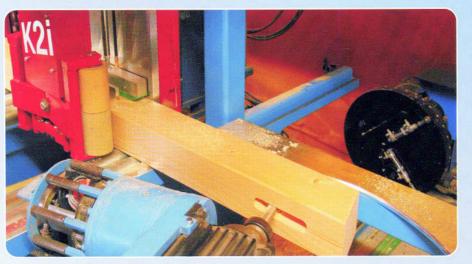
Tool changer with magazine

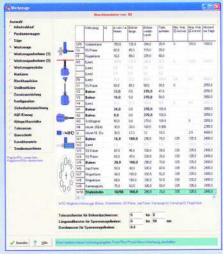
Tool-magazine for up to 10 different tools of 203 mm length and a diameter of Max. 160 mm.

Depending on the requirements of the piece to be processed, the appropriate tool will automatically be installed from the magazine. A tool change from the home position takes approx.

9 seconds.









The tool management is taken care of in the SPCP-program.

Information is stored for the individual tools in the SPCP which allows the program to automatically select the optimal tool speed.

The K3i is the high-performance variant of joinery machine K2i



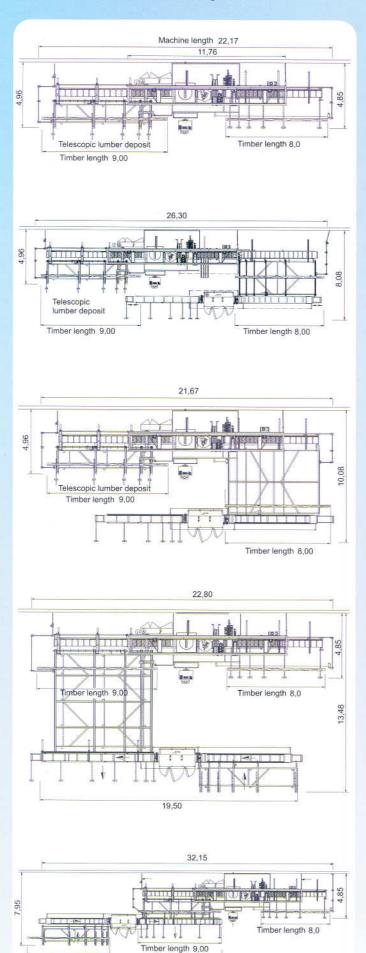
In order to enhance the speed of joinery machine K2i still further, the high-speed version K3i was developed specifically for industrial production (prefab industry, contract joinery etc.).

The K3i has three positionig wagons



With the new machine variant, while one component is being processed in the machine zone, a third gripper wagon is already positioning the next component on the saw, and the front sawing cuts are performed.

Schematics with or without the planer



19,55



Offers many advantages:

- Quality and performance from the industry leader
- ◆ Great price to performance ratio
- One machine for every application
- Processing of extremly short parts-approx. 35 cm
- Optimizes cutting of several pieces from a single timber
- Minimizes waste optimizes work sequence
- ◆ Accessories:
 - Material measuring,
 - Ink-jet-printing,
 - Marking (layout lines),
 - Labeling,
 - 4 Head H cutter for log homes
 - Automatic unit unstacking, etc.
- Supports Job development and efficiency by:
 - Creating and storing Job and company data and reports
 - Estimating time and recording actual time
 - Creating order lists
 - Optimizing lumber units and parts
- Individualized Machine setup and configuration
- ◆ Free Software updates



Hans Hundegger GmbH

Hans Hundegger began developing the first fully automated joinery machine in the world in 1981. In just a few years, the success of the company and its products established Hundegger as the industry leader in Europe and throughout the world.

More than 3000 joinery and related machines are in operation.

Customer feedback, experience and know-how allow Hundegger to stay in the forefront

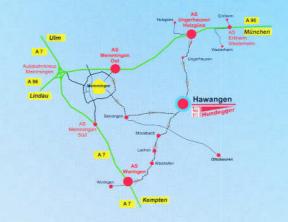
of automated technology.

Currently Hundegger produces and ships over 130 joinery machines a year.

The company also produces numerous other machines like planers, panel cutting machines and Bamtec rebar matt fabricating machines. There are currently 280 production and management people working with Hundegger.

The name Hundegger stands for quality and performance.

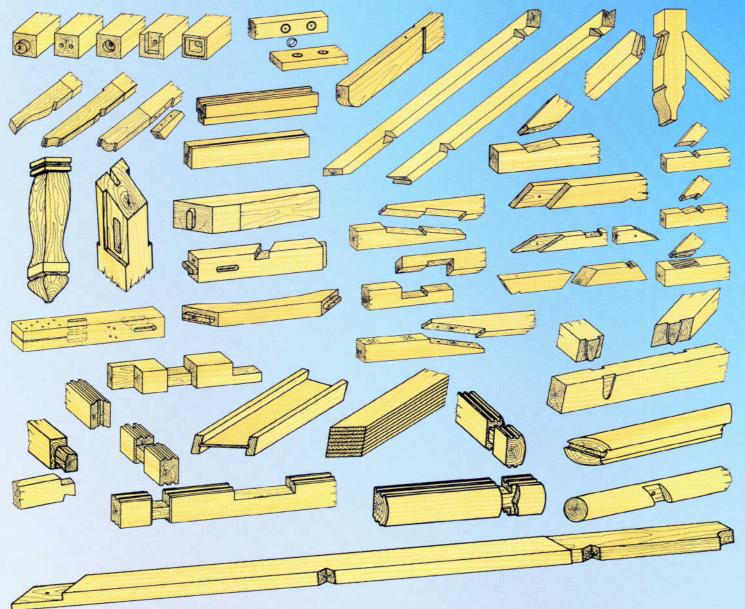
Our machinery is known for ist economical, durable and easy use.



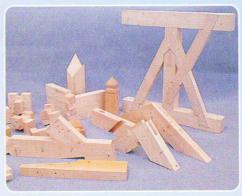




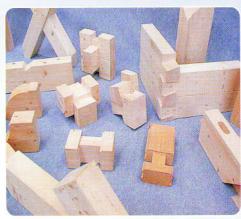
On average less than 10 seconds per milling operation













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