



TECHNOLOGY FOR WINDOWMAKERS

Increased profitability

You buy your machines to produce your product, and to profit from your investment in these machines. These machines have to fit in with your production process. You require reliable machines for your company, which are built to the highest standards. For many years now, Vertongen have been building tenoners and profile moulders to the highest standards. You will see Vertongen machines in operation in small and large companies all over the world, still in use after many years and still producing joinery components of the highest quality. From manual operation to fully integrated machines with CNC on-line control systems. Vertongen use on their machines the latest technology and innovations in mechanical engineering and control systems. For your company Vertongen has the perfect machine ! In this brochure you will find an overview of the machines manufactured by Vertongen. The Vertongen machines are divided in to three ranges :

COMPACT

The Compact range consists of manually operated machines. All the spindles are horizontally and vertically adjustable at the front-side of the machine. You can adjust your machine without stopping the spindles! The machines are 0,1 mm precise and the spindle-position can be easily read by mechanical digital counters. Tools can be changed in no time because the spindles are very easy to reach. With this machine you can produce all your different windows and frames very quickly and efficiently.

STANDARD

The Standard range has long spindles which are vertical electronically controlled. The spindles are 545 mm long. 99 different spindle-positions can be pre-programmed per spindle. Now you can program your spindle-position for every machining operation. With only one button to push the machine is ready for the next machining operation, fully automatically. The profile moulder and the tenoner can be combined into one window line! With this machine you can produce window per window. Without idle-time or tool changes!

CONTROL

The Control range is fully C.N.C. controlled. Beside several long spindles of 545 mm the Control is equipped with separate top and bottom spindles. The C.N.C. control system combines the tools on several spindles to make one machining operation. The use of ball circulating screws guarantees an optimal positioning accuracy. The Control machines also can be combined to with Window lines. With this machine you can make all your different windows, doors and frames without changing tools or making manual adjustments.



VERTONGEN
TECHNOLOGY FOR WINDOWMAKERS

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PENTHO COMPACT

A flexible and easy to operate multi-machine

The Pentho Compact has a solid table on a stable vertical slide bar. The table is in total 120° turnable. The machine has a dust rejecting transparent safety-screen that moves together with the table. Available with several spindles, tenoning heads and standard a noise-reduced cut-off saw.



The machine has a solid table, which can be swivelled 60° in two directions. In this way the wood will always be optimally supported, also when you make angled pieces.

The tools are easy to change, and are horizontally and vertically adjustable with 0,1 mm accuracy. The read-out is mechanic digitally.



Round backing wood. 6 manual adjustable positions



Pneumatic clamp



Large back-stops to machine 2 pieces at once



Electronic digital read-out on length-fence



Electronic digital read-out on cut-off saw



Automatic table movement with pneumatic clamps

PROFIL COMPACT

C O M P A C T

The ideal replacement for the table spindle moulder

The Profil Compact is developed as a replacement for the table spindle moulder. On this machine you can also use tools for mechanical feeding. So you do not have to invest in new MAN tools. Because of the optimal adjustment features and the very stable feeding device, you can easily make every profile.



With an adjustable segment in the table and the adjustable fences the machine can be optimally adjusted for any tool. Therefore a moulding pattern of very high quality can be obtained.

The feeding device is mounted on two sides and can be adjusted horizontally and vertically. When tools have to be changed the feeding device can easily be turned aside.



Mechanic digital counter on height adjustment feeding device



Motor and mechanic digital counter on height adjustment feeding device



Spindle 105 mm, 2,2 Kw



Airjets in the table



PLC with touchscreen for automated forwards/backwards spindle

PENTHO STANDARD

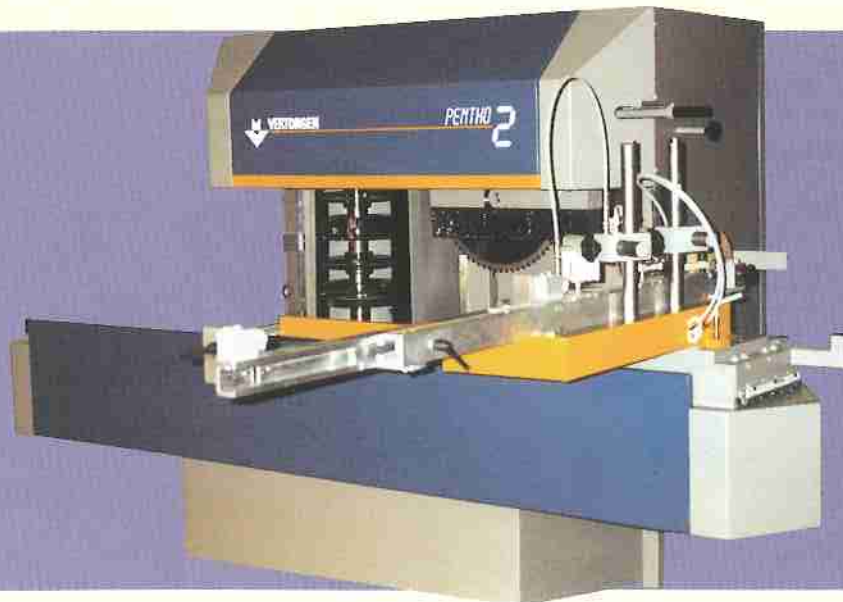
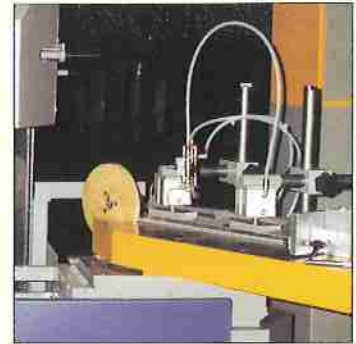
Up to 27 different tool-sets on one machine without changing or manually adjusting

The Pentho Standard has long spindles. These spindles can be continuously variable adjusted in height. Therefore you can optimally use the spindle length of 545 mm. Up to 9 tool-sets per spindle! The Pentho Standard is available up to 3 long spindles and a cut off saw. Also available with tenoning heads and a boring spindle or dowel unit.

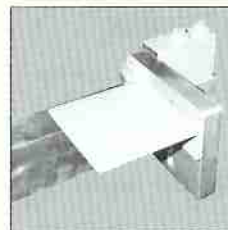


On the long spindles of 545 mm you can mount up to 9 tool-sets. The spindles are electronically continuously variable positioned with an accuracy of 0,1 mm.

The Standard machine has an easy exchangeable round backing wood with six positions. Optional the backingwood can be automatically adjustable or fast changeable.



Automatic table movement with pneumatic clamps



Large back-stops to machine 2 pieces at once



*Easy to change round backing wood. Pneumatic controlled**



Electronic digital counter on length-fence and/or cut-off saw

** Only together with touch screen or automatic table movement*

*** Only together with touch screen*



*Automatic length fence with large back stop.***

PROFIL STANDARD

Your moulding patterns and stormproofing without adjustment or idle time on one machine

The Profil Standard has also long 545 mm spindles. The feeding device with wear-resistant Vulkollan rolls used in combination with airjets in the table, assures optimal transportation of the wood. Also for stormproofing! The Profil Standard is available with a glass bead saw, hardware groove mill, slot cutter and left- and right turning spindle for stormproofing.



The position of the tools can be entered on a keyboard with 0,1 mm accuracy. Per spindle you can pre-program 99 positions.

In the table are little airjets mounted. These airjets make a thin air cushion underneath the wood. Because of this air cushion, the wood slides much better which improves the moulding quality.



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Glass bead saw



hardware groove mill



Motor and mechanic digital counter on height adjustment feeding device

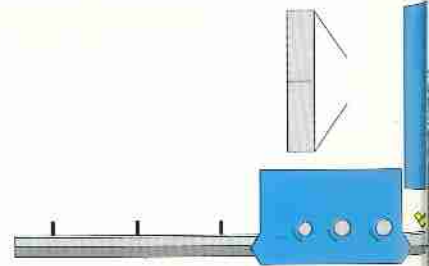
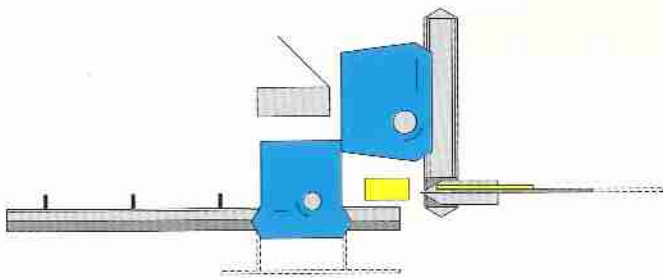
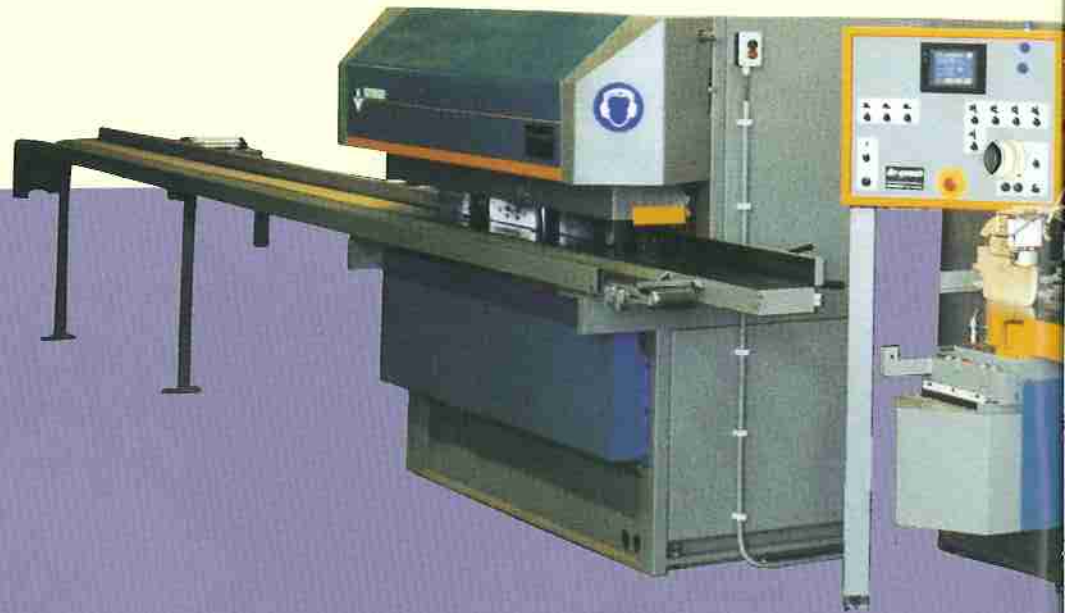


*slot cutter
(Only together with touch screen)*

P E N P R O

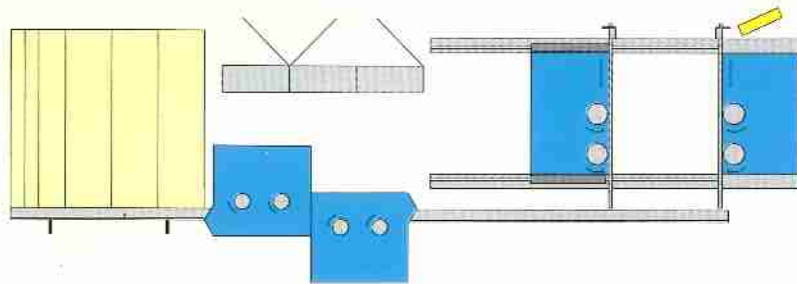
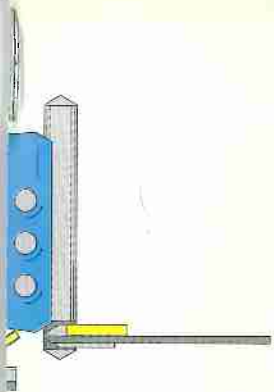
Several frame- and window types on one machine

With the Penpro Standard all the different parts of a windowframe can be made without idle-time. You can also work very easily with two pieces at once. You can work frame per frame, which decreases your storage and increases your workflow. An ingenious conveyor belt on the moulder transports the wood back to the operator. Therefore one person can operate the complete machine. The central working position gives the operator optimum control over the machine.



S T A N D A R D

The Penpro is made out of a separate tenoner and a moulder. With this concept you have a window-making machine with as many options on your machine as with two stand alone machines. But you only need one operator! On the window-making machine you still are able to stormproof! You can make every frametype on these machines, also sliding French doors. Even bevelled or angled windows are no problem for this machine!



PENTHO CONTROL

Everything you want to make on one machine, without toolchanges or adjustment time

The Pentho Control is a fully C.N.C. controlled machine. Because of the unique combination technique of tool-spindles you can make every machine operation on this machine. Without tool changes or manual adjustment. Even the speed of the automatic table movement is C.N.C. controlled. This ensures an optimum processing time!



Because of the "Pendel principle" you do not have to lift your wood over the ledge. Also the wood passes the tools only once, which increases the tool life by 30-40%.

The Control machines have separate upper and lower spindles for edge braking. Therefore you can machine every desired wood height and width without changing your tools!



Large back-stops to machine 2 pieces at once



Electronic digital counter on length-fence



Easy to change round backing wood. Pneumatic controlled



Automatic length fence with large back stop



On line control. PC interface for machine control

PROFIL CONTROL

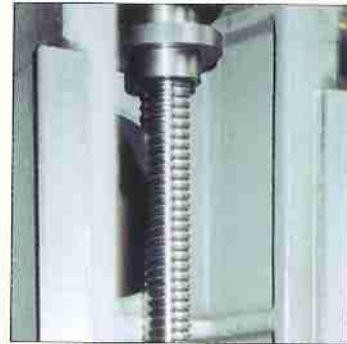
All your moulding patterns in every wood-height and width, without toolchanges or adjustments

Every spindle on this machine is C.N.C. controlled. Because of the unique combination technique of tool-spindles you can make every moulding pattern without tool changes. Also every Control machine has separate upper and lower spindles for edge braking so that you can machine every desired wood height and width.



The C.N.C. controller is operated with an easy to use touch screen. Each machine operation you simply give in a program number. The C.N.C. control automatically positions all the spindles.

The Control has ball-circulating screws on the positioning systems of all the spindles. This ensures the accuracy that is needed to combine the several tool spindles and a smooth and swift movement.



Glass bead saw



hardware groove mill



slot cutter



Motor and mechanic digital counter on height adjustment feeding device



Conveyorbelt on the table

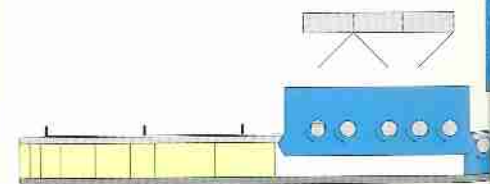
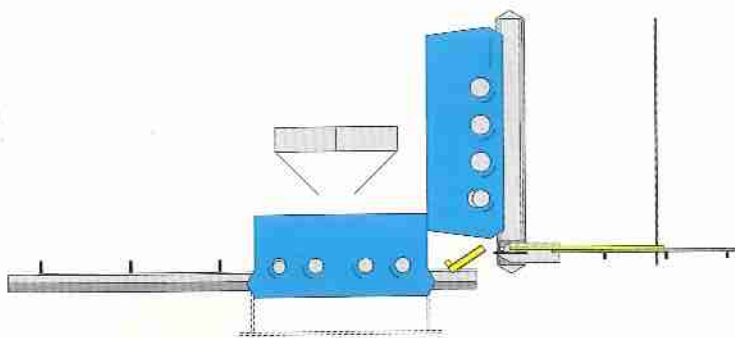


On line control. PC interface for machine control

P E N P R O

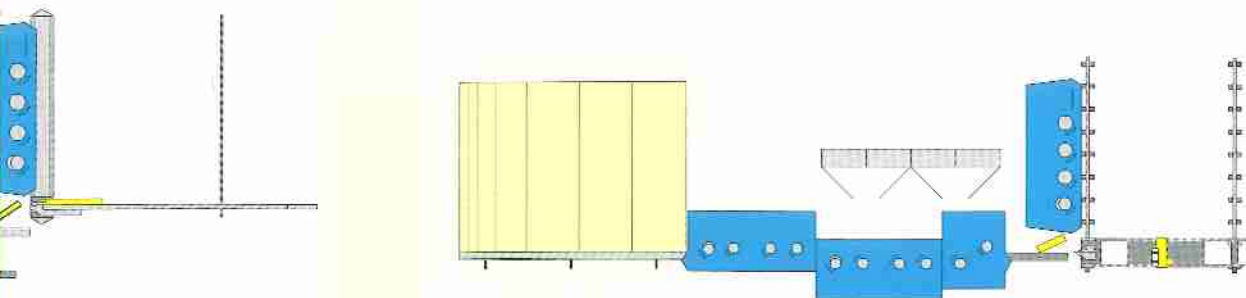
All your different frames and windows on one machine

With the Penpro Control you can make every windowframe in various sizes without adjustment time. Because of the unique combination technique of tool-spindles you can make every moulding pattern or tenon in every wood-height and width. Because of an ingenious conveyor belt on the moulder the total machine can be operated by one person. The central working position makes sure the operator has optimal control over the machine. You can also work very easily with two pieces at once. You can make every frametype on these machines, also sliding French doors. Even bevelled or angled windows are no problem for this machine!



C O N T R O L

The Penpro is made out of a separate tenoner and a moulder. With this concept you have a window-making machine with as many options on your machine as with two stand alone machines. But you only need one operator! To increase the capacity of the machine even further the Penpro Control can be extended as a double-end tenoner or with moulding spindles on the left side. With our Penpro software you can programme the machine on-line from the office. Total integration in production lines is also possible. With the Penpro Control the possibilities are unlimited!



Vertongen, quality from development and experience

Since the beginning of the last century, Vertongen has manufactured woodworking machines. After three generations under the Vertongen name, the company has since 1995, continued it's activities under the name of New Vertongen. Since then, New Vertongen has specialised in manufacturing tenoners and profile moulders for the world joinery markets. The philosophy of New Vertongen is to build machines of the highest quality, which are easy to operate and completely flexible in their operation.

Through an intensive co-operation with the University of Leuven, New Vertongen now have at their disposal the latest technology in mechanical engineering and control systems.

Because of this co-operation, and many years of experience, the Vertongen machines are now regarded as being amongst the best in the world woodworking machinery market.

UP TO DATE

New Vertongen is now leading the way in the production and development of flexible tenoners, profile moulders and window making machinery. New Vertongen applies this experience with machines that combine several spindles to make a one-machine operation.

With this technique, it is possible to make several different types of window frames without tool changes or manual adjustments to the machine.

HI-TECH

By using the latest technology in mechanical engineering and control systems, New Vertongen produces machines of the highest quality, which are adapted to any individual company needs. Because of the unique modular system of building machines, New Vertongen can implement new developments directly into the machines. New Vertongen offers and builds a range of tenoners and profile moulders for every size of joinery manufacturer. They are offered with manual adjustments to fully integrated CNC controlled on line systems. New Vertongen also combines their experience and technology with the manufacture and integration of New Vertongen machines in total production lines.

WORLDWIDE

As you can see New Vertongen builds machines for every type of joinery works and companies. Just for you ! This folder has been developed to give you a brief overview of the range of possibilities offered by New Vertongen. Are you looking for a machine that fits perfectly in to your production process ? A machine that will maximise your profit with low production costs ?

If so, then contact your local New Vertongen dealer now, in the country of your residence, or call direct to New Vertongen. Because, just for you, New Vertongen has the ideal machine combining flexibility, capacity and a quick return on your investment.



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COMPACT



Pentho Compact 2

- ▼ Zaag + as 160 mm
- ◆ Saw + milling spindle 160 mm
- Scie + arbre de tenonnage 160 mm utile
- ▲ Abkürzsäge + Profilierspindel 160 mm



Pentho Compact 3

- ▼ Zaag + 2 penkoppen + as 160 mm
- ◆ Saw + 2 tenoning heads + milling spindle 160 mm
- Scie + 2 dérouleurs + arbre de tenonnage 160 mm utile
- ▲ Abkürzsäge + 2 Hobelköpfe + Profilierspindel 160 mm



Pentho Compact 4

- ▼ Zaag + 2 penkoppen + 2 assen 160 mm
- ◆ Saw + 2 tenoning heads + 2 milling spindles 160 mm
- Scie + 2 dérouleurs + 2 arbres de tenonnage 160 mm
- ▲ Abkürzsäge + 2 Hobelköpfe + 2 Profilierspindeln 160 mm



STANDARD



Pentho Standard 2

- ▼ Zaag + as 545 mm
- ◆ Saw + milling spindle 545 mm
- Scie + arbre de tenonnage 545 mm utile
- ▲ Abkürzsäge + Profilierspindel 545 mm



Profil Standard 2

- ▼ As 545 mm + glaslattenzaag
- ◆ Milling spindle 545 mm + glass bead saw
- Arbre de profilage 545 mm utile + scie de pare-close
- ▲ Profilierspindel 545 mm + Glasleistentrennsäge



PenPro Standard 4

- ▼ Zaag + as 545 mm + as 545 mm + glaslattenzaag
- ◆ Saw + milling spindle 545 mm + milling spindle 545 mm + glass bead saw
- Scie + arbre de tenonnage 545 mm utile + arbre de profilage 545 mm utile + scie de pare-close
- ▲ Abkürzsäge + Profilierspindel 545 mm + Profilierspindel 545 mm + Glasleistentrennsäge



SPECIAL



Pentho Special 3

- ▼ Zaag + 2 assen 545 mm
- ◆ Saw + 2 milling spindles 545 mm
- Scie + 2 arbres de tenonnage 545 mm utile
- ▲ Abkürzsäge + 2 Profilierspindeln 545 mm



Pentho Special 4

- ▼ Zaag + 2 assen 545 mm + assen boven en onder 160 mm
- ◆ Saw + 2 milling spindles 545 mm + spindles upper and lower 160 mm
- Scie + 2 arbres de tenonnage 545 mm utile + arbres supérieur et inférieur 160 mm utile
- ▲ Abkürzsäge + 2 Profilierspindeln 545 mm + Spindeln oben und unten 160 mm



Profil Special 3

- ▼ 2 Assen 545 mm + glaslattenzaag
- ◆ 2 Milling spindles 545 mm + glass bead saw
- 2 Arbres de profilage 545 mm utile + scie de pare-close
- ▲ 2 Profilierspindeln 545 mm + Glasleistentrennsäge



sterke punten – strong points points forts – starke Punkte

