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Tool Changing Stations for Xpert 3D Milling Machines



■ Milling spindle and tool station on the Xpert 3D

The machines of the new Xpert 3D Series can be optionally equipped with a Chopper Spindle from Jäger. One of the main objectives taken into account while developing the Chopper was to reduce production costs, in order to be able to create an attractive price for end customers. This spindle concept, with a speed range of 3000–30 000 rpm, can hold tools of up to 10 mm in the tool clamping system.

Spindle System 1500K

The Spindle System 1500K, with pneumatic taper change device, allows the whole unit (tool taper with clamped milling cutter) to be removed or fitted. As opposed to

a pneumatic collet chuck, this system allows tools with varying shaft diameter sizes to be clamped. The tool does not have to be measured every time a tool change is performed, because the length to be unclamped remains the same. The spindle is also equipped with an air purging connection, which prevents infiltration of dust and damp in the spindle. The tool tapers are placed in a specially developed tool station. During the milling process, the tools are well protected beneath a cover, which only opens during changing procedures, after the tool holding fixture is pneumatically raised. The safety cover is controlled via a cable con-

Information for
customers and
prospective
customers

(this time from the Step-Four team)

Editorial

Running on and on and on ...

This does not only apply to our systems, but also now to the team at Step-Four. Because we always endeavour to be fit for you and your concerns, we recently prescribed a rigorous fitness training programme for our director, in order set a good example.

The fact that he managed to complete a (half) marathon speaks in his favour. Now we employees will have to try even harder, in order to be able to keep up with his pace and his demands on quality. Due to the fact that this is in your interest, we will, of course, give our very best.

On this note, the Step-Four team would like to wish a great summer with lots of positive activity!



■ Ernst Ramberger taking part in the Salzburg AMREF Marathon

control and is closed with light pressure by means of a tension spring. This technology prevents accidents due to cover closing in the case of an unscheduled pressure drop during setting-up procedures that are performed on the station. A tool length test switch is integrated in the tool station, which measures the tools fully automatically. The offset values are thereby stored in the software.

Scope of delivery:

- 1.5 KW milling spindle with pneumatic taper change device incl. frequency converter
- Tool station with integrated tool length switch
- Pneumatic control via solenoid valves
- Software module Xpert [WZW] for XpertMILL

This is how the tool change works



1. Spindle travels to station



2. Cover opens automatically



3. Spindle lowers and ...



4. ... receives tool



5. Cover closes



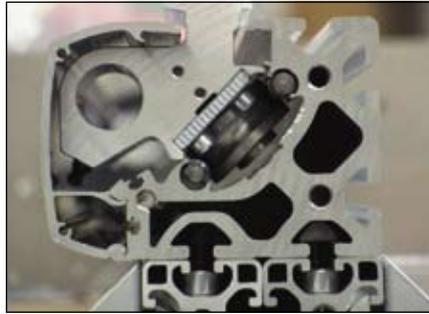
6. Tools are well protected

PC-CUT 5000 and 6000 with new Profile System



■ Even better, even stronger!

With immediate effect, the second generation of top models of the PCCUT series, the PC-CUT 5000 and 6000, is equipped with the new, renowned profile system from Xpert 3D milling machines. Thus, the systems, which



■ Cross-section of the profile

are, among other things, applied for original moulds of wind energy rotor blades, in mould design and construction for façade design or fibre-glass reinforced, concrete formwork, even faster, better and more reliable than ever.

Trade Fair Schedule

26th till the 28th of September 2008

**SALZBURGER SPIELMESSE
UND MODELLBAU**



30th Oct. till the 1st of Nov. 2008

VISCOM
Frankfurt



31st Oct. till the 2nd of Nov. 2008

**FASZINATION
MODELLBAU**
Friedrichshafen



16th till the 20th of November 2008

EUROMOLD
Frankfurt



Step-Four and Bavarian Education

Within the scope of its main educational focus, the Chamber of Crafts for Munich and Upper Bavaria presented a Basic 540 milling machine at the IHM (international trade fair for handicraft) in Munich and the Bildungsmesse (trade fair for education and training) in Burghausen. High-level politics were also represented in the person of the Bavarian minister of state for education and cultural affairs, Siegfried Schneider, who didn't want to miss this special highlight. The IHM is considered to be the leading trade fair for handicraft and medium sized businesses. Around 160 000 visitors came to this year's 60th international trade fair for handicraft. 1047 exhibitors from 30 countries were present at the trade fair.



■ from l. to r.: Head of the metal department, Mr. Riedel, Bavarian minister of state for education and cultural affairs, Mr. Schneider, the president of the Chamber of Crafts for Munich and Upper Bavaria, Mr. Traublinger, member of the Bavarian parliament.

Demo Machines in Model Making

Now our partner, CNC-Modellbautechnik Bayer in Wettstetten, is equipped with both a Basic 540 and a Precise 760 milling machine for demonstration purposes. Thus, prospective customers around the Ingolstadt area now have a local contact partner. If you are interested in seeing a demonstration, please contact us under the following telephone number +49(0)841/99 33 97-20.



In-House Exhibition

10th – 11th October 2008

10.00 a.m. – 17.00 p.m.

Over 2 days for the first time!

Our popular in-house exhibition has been extended to two days. Now potential customers from trade and industry can also come and visit us.

- Friday, 10th of October 2008 and
- Saturday, 11th of October 2008
- Taking place each day from 10.00 till 17.00.

Make a note in your appointment calendar!
We look forward to seeing you!

Graupner – new at Step-Four

We have now included all of the Graupner company's model aircraft products in our programme, especially for our model making friends. Graupner has been an expert within the field of modelling, particularly with regard to model aircraft, for the past 75 years. Since the beginning of 2008, we have been selling model aircraft articles and accessories such as: Servos, receivers, remote controls, materials etc. You will find further information on the products under www.graupner.de. If you have any questions or you wish to place an order, please directly contact our model making specialist, Hannes Schmalzer under hannes.schmalzer@step-four.at.

Graupner

Porsche Alpine Cup 2008



■ Step-Four hits the gas!

The 4th run of the Porsche Alpine Cup 2008 takes place at the Hockenheim Ring in Germany on the 1st and 2nd of August (you will find information under www.alpenpokal.com). Our driver, Reinhard Brandstätter, will do his best, as always. Don't miss it!

Milling Workshop 2008

From the drawing to the finished work piece.

For interested model makers, who have not yet been able to gain experience with a PC controlled milling machine, but are contemplating using them to build their models, STEP-FOUR is offering a workshop for beginners. The objective of the workshop is to demonstrate the basics of milling technology.

Date:

Friday, 10th of October 2008 (registration closing date: 25th September)

Attendance fee: € 210.00

Max. 6 participants

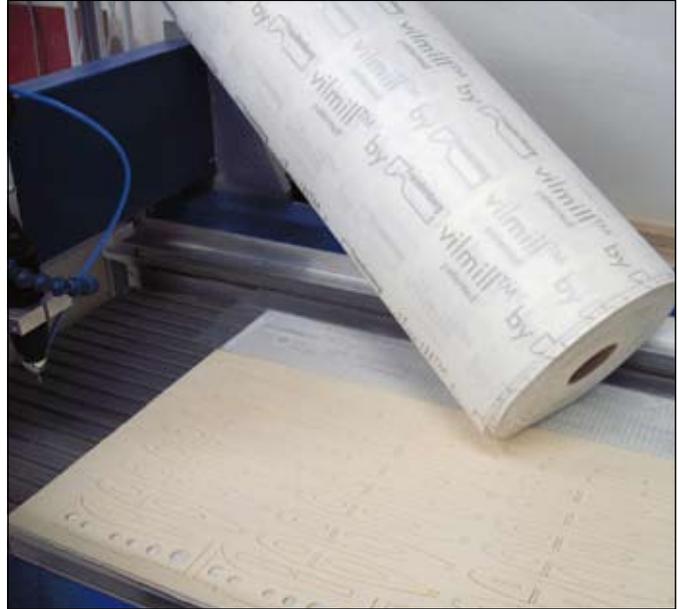
Detailed information and registration details can be gathered directly from Step-Four.

More info
under
www.step-four.at

New Accessory for Vacuum Tables

vilmill is a substrate with a specially selected adhesive coating that serves as an underlay between the work piece and the milling table. The adhesive coating is activated during the milling process. The air permeability of vilmill simultaneously increases the efficiency of the vacuum suction table. Both effects lead to a fixation of the work piece during the milling process; far previous state-of-the-art technology. vilmill also serves ideally when it comes to removing milled parts from the processing table.

vilmill™



■ vilmill increases the fixation of the work piece.

Advantages of vilmill

vilmill enables higher feed rates during the milling process. Expensive materials are used more efficiently and tool costs are reduced. The improved fixation increases process stability and reduces subsequent treatment of small components and parts with filigree structures. vilmill can be used on a wide range of materials, such as aluminium, copper, plastic, wood and composites.

Technical details

- Surface structure: non-woven fabric
- Colour: white
- Composition: polyester/cellulose
- Weight: 115 g/m²
- Adhesive mass: EVA
- Thickness: 0.35 mm

We offer vilmill Black in the following sizes: (other sizes provided upon request)

vilmill™ Black			
Size	Article no.	Price	
600x300 mm	7V-VMBL60-30	€ 2.90	
600x400 mm	7V-VMBL60-40	€ 2.95	
600x750 mm	7V-VMBL60-75	€ 4.40	
600x1000 mm	7V-VMBL60100	€ 5.45	

Prices excl. VAT.

Masthead

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We recommend vilmill SC 1328 with a material thickness of 2.8 mm. for processing large-scale work pieces. We offer vilmill SC 1328 in the following sizes (other sizes provided upon request)

vilmill™ SC1328			
Size	Article no.	Price	
300x450 mm	7V-VMSC30-45	€ 10.50	
300x500 mm	7V-VMSC30-50	€ 11.50	
400x500 mm	7V-VMSC40-50	€ 15.00	
400x600 mm	7V-VMSC40-60	€ 17.70	
450x750 mm	7V-VMSC45-75	€ 24.50	

Prices excl. VAT.

The Finest Models

The renowned specialist for extraordinary architecture models, Pfeiffer & Voss from Duesseldorf (www.pfeiffer-voss.de), presents us three of their latest projects, which were created under the lead-management of Klaus Weber with the aid of a Step-Four Superior 1000. Pfeiffer & Voss is a well-established company that has gathered more than 30 years of experience. During this time, the team has developed its expertise within every area of model making. For the last 10 years, the company from Duesseldorf has applied CAD/CAM and CNC milling technology in their workshop. The advantages of this technology are, in particular, precision and detailedness, the speedy creation of patterns and variants, as well as the higher level of flexibility during model production.



■ Stadt-Galerie (Town Gallery) in Eschwege scaled at 1:160
 Constructor: Jantz Immobilien, Cologne
 Architect: Engels, Cologne
 Photographer: Max Hampel, Duesseldorf
 Materials: Plexiglas, polystyrene, wood (ground)



■ Kranhaus (Crane Building), Cologne scaled at 1:100; Architect: Bothe, Richter, Teherani, Hamburg; Materials: Plexiglas, polystyrene, wood (ground)



■ Holiday resort in Kisch (Iran) scaled at 1:1000
 Architects: Rhode, Kellermann, Wawrowski, Duesseldorf
 Photographer: Holger Knauf, Duesseldorf
 Materials: Solid wood, plywood, Plexiglas, polystyrene

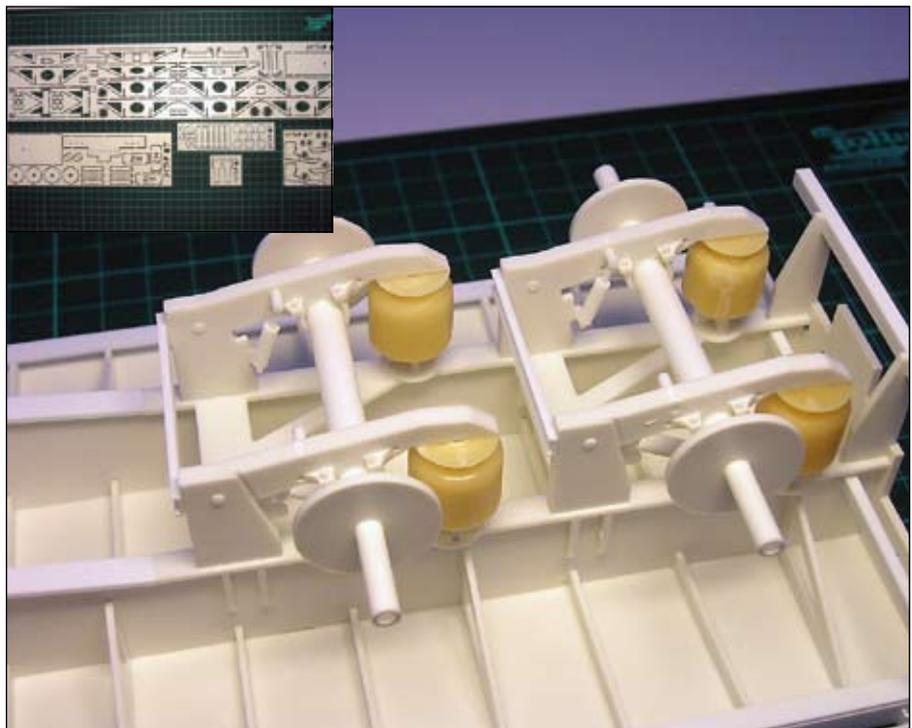
European Football Giants



“Impossible Huddle”, the 18m high, European football team from Adidas, which decorated the main railway station in Zurich during the European Championship, was made by the B&T company based in Raubling in Bavaria (www.cnc-3d.com) with the aid of a Step-Four PC-CUT 5000. You can't get much bigger than this.

Model Trucks in Top Quality

Gerhard Mueller and Heinz Schwarz now present their first model truck made with Step-Four, an American 53' flat bed trailer, complete kit scaled at 1:24. You can find out more details under <http://modelltrucksandparts.at>. Incidentally, they are both looking for a polystyrene part manufacturer. If you are interested, please contact Gerhard Mueller under ing.gerhard.mueller@aon.at.



Trailer chassis

Hot Summer Prices for the



Basic 540

Our price for the Basic 540 is as hot as summer can get.

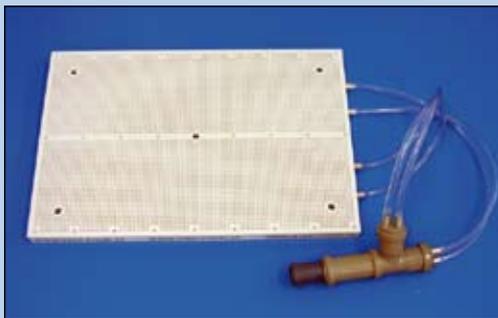
Offer from now till the 31st of August on all Basic 540 Packages: Minus 15 %.

Order now!

Phone: : + 43(0)662 45 93 78-0 or e-mail: office@step-four.at

Offer only applies in Germany and Austria until the 31st of August 2008.

Great Vacuum Table Offer



Vacuum clamping technology is the best and most economically priced method of clamping thin and elastic materials. This is why we are now offering our tried and tested vacuum tables at particularly low prices.

Modell 4530: 450 x 300 x 35 mm
Instead of € 230.00

Now only € 169.00

Modell 6040: 600 x 400 x 33 mm
Instead of € 276.00

Now only € 210.00

Incl. VAT.

Order now!

Phone: + 43(0)662 45 93 78-0 or e-mail: office@step-four.at

Offer lasts until the 31st of August 2008. If you need further technical information on the vacuum tables, please take visit our website www.step-four.at.