



WHAT'S NEW IN 2005

Issue December 2004



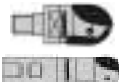


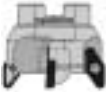
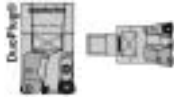


Content:

- ➔ End Mill- and Milling Cutter Bodies
- ➔ Indexable Inserts
- ➔ Arbors and Adaptors
- ➔ Ultrapperform Solid Carbide End Mills
- ➔ CD-ROM-Catalogue 2005











NEW ITEMS

End Mill- and Milling Cutter Bodies:		
	Shell Type Milling Cutter Bodies for Round Inserts r 5 neutral N 5 42 310	The all-rounder, tools are applicable for a wide range of milling problems. A large tooth-pitch leads to better chip removal in deep cavities. ⊕ Catalogue page 48
	Shell Type Milling Cutter Bodies for Round Inserts r 5 7°pos. 6 42 200/7	Supplemental item for our all-rounder type of Cutter Bodies. Easy cutting through positive cutter geometry, for use on lower efficiency machines. ⊕ Catalogue page 50
	Ball Nose End Mills WaveWorx r 8 up to r 16	WaveWorx-Ball Nose End Mill Bodies – for another kind of roughing open flank profiles and deep cavities. These Inserts with 2 cutting edges double your milling economy. Available with plain shanks and flats as well as threaded shanks. Indexable Inserts on page 156 ff ⊕ Catalogue page 70
	Square Shoulder Face Milling and Slotting End Mills NanoWorx® XOMX r 0.8	Tools specially capable for milling small geometries. Slot milling below 20 mm width now possible! Indexable Inserts on page 160 ⊕ Catalogue page 110
	Milling of Non-ferrous Materials VDGT r 1 3° axial clearance	Our new 3° axial clearance allows milling of 90° walls. These products are completed by our extremely rigid DuoPlug®-connection for several diameters, starting with 15 mm diam. The design of these milling cutters allows very high feed rates in milling aluminium, copper, plastics and graphite. Very easy cutting for higher speeds and feeds. Long cutting edge allows deeper cuts. ⊕ Catalogue page 120
	Milling of Non-ferrous Materials XDHT r 5 42 365	Supplemental item for Shell Type Milling Cutter Bodies 42 mm diam. The design of these milling cutters allows very high feed rates in milling aluminium, copper, plastics and graphite. Very easy cutting for higher speeds and feeds. Long cutting edge allows deeper cuts. ⊕ Catalogue page 126
	Trigaworx® for Trigacut®-Inserts Size S and M	The Trigaworx®-family has extended: our extremely rigid DuoPlug®-connection and threaded shank-connection with coarse and fine tooth-pitch, allows, depending on the design, a better chip removal and a higher chip volume. ⊕ Catalogue page 130




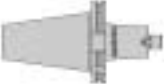





NEW ITEMS

Indexable Inserts:		
		<p>r 3.5 up to r 10</p> <p>Round Inserts from diam. 7 up to diam. 20 mm with new, gold-coloured CVD-coating with the code PVML specially capable for rough-machining of steel, also wet-machining is possible, dry machining required. Easy valuation of wear land through this TIN-surface layer.</p> <p>⊖ Catalogue page 140</p>
		<p>Ball Nose Indexable Inserts r 4 r 5 r 6 r 8 r 10 *836V</p> <p>Replaces our Ball Nose Indexable Inserts with the code-No. 835V. These new Inserts 836V have a new coating for better surfaces and tool life.</p> <p>⊖ Catalogue page 152</p>
		<p>Toric Indexable Inserts r 3 r 4 r 5 r 7</p> <p>These new Toric Indexable Inserts can be used in the same Milling Cutter Bodies than our Ball Nose Round Inserts. You can use it always, when the Round Inserts reach its performance limit. Through the toric design, these inserts are capable for milling on flat surfaces without an action angle of the spindle. There is a CBN-tipped insert for milling cast iron available.</p> <p>⊖ Catalogue page 154</p>
		<p>Indexable Polygon Inserts Trigacut®</p> <p>Our new micrograin-carbide for Trigacut®-Inserts size S: HSC-grade plus PVTi-coating for mean machining of steel resulting in long tool-life and moderate load of insert. For Trigaworx®-Milling Cutter Bodies size M we offer now a new insert in grade P25 with PVTi-coating for rough-milling of steel.</p> <p>⊖ Catalogue page 166</p>

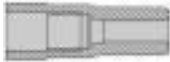
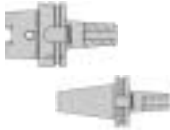
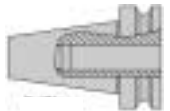



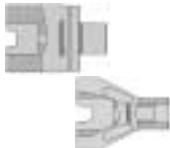


NEW ITEMS

Arbors and Adaptors:		
	for Threaded Shank End Mill Bodies M 8 150 08 601	Supplemental item of our Dense Antivibration Adaptors with M 8 thread connection. This maximum reach of 150 mm is available from stock now! For applications where long overhang and small tools are required. ⊕ Catalogue page 280
	for Threaded Shank End Mill Bodies M 10 80 680 MK2	Supplemental item of our Morsetaper-Adaptors for Threaded Shank End Mill Bodies for 80 mm reach with MTS 2-connection. ⊕ Catalogue page 284
	Reduction Sleeves to MTS 2 and 4 250 2 710 250 4 710	Reduction sleeves with SK 50 DIN 69871 machine site and MTS 2 respectively MTS 4 tool site with 250 mm reach. In combination with our Morsetaper-Adaptors you can mill in deep cavities with small Milling Cutters. ⊕ Catalogue page 300
	SK 50 Arbor DIN 69871A for Shell Type Milling Cutter Bodies 200 32 710	Rigid SK50 Arbor for Shell Type Milling Cutters with 32 mm bore – for heavy load machining on large components, where highest possible permanency is required. ⊕ Catalogue page 314
	Shrinking Arbors for 3 mm shanks	An additional line for small Solid Carbide End Mills with 3 mm shank diameter. With a variety of machine-site-styles for shrink-grip of smallest tooling with best concentricity. ⊕ Catalogue pages 317
	Plain Shank Shrinking Extensions ... 604 S	Plain Shank Shrinking Extensions for shank diam. of 3, 4, 6, 8 and 10 mm. Its modularity and its combination possibilities with Collet Chuck Systems is extraordinary. ⊕ Catalogue pages 316, 320, 324, 340, 352
	Shrinking Arbors for 4 mm shanks ... E40 S	HSK 40E-Arbors complete our High Speed Milling range up to 40.000 min ⁻¹ . ⊕ Catalogue page 321











NEW ITEMS

Arbors and Adaptors:		
	DuoPlug®-Shrinking-Adaptors for Sol.Carb.End Mills 3-10 mm shank diam.	Completely new philosophy: Shrinking Adaptors for shrink-grip of Solid carbide End Mills with DuoPlug®-connection is a supplementary module of our wide range of this system. ☎ Catalogue pages 323, 329, 334, 340
	Heavy Duty: Shrinking Arbors for extreme load factors	SK 40 and HSK 63A Shrinking Arbors in standard dimensions now in heavy duty design for maximum machining requirements, using End Mills with 6 and 10 mm shank diam. Take advantage of these new reinforced Shrinking Arbors for increased process safety. Please take notice of the letters SB following our catalogue No. ☎ Catalogue pages 324, 327, 330, 333, 336, 339
	Zero Reach Arbors for Machines with MAS-BT Connection for 16 + 20 mm shank diam.	You are now able to use the advantages of our Zero-Reach Arbor connections also on your MAS-BT 40 machines! By direct shrink-grip of a Solid Carbide- or Dense Antivibration Adaptor, your Milling Cutter can be used close to the collar of the Arbor. Furthermore, spindle and tools are treated with much more care by reduced vibrations. ☎ Catalogue pages 346 + 350
	Shrinking Arbor for MAS-BT40 Connection for 20 mm shank diam.	Pokolm supplies now this additional diam. of 20 mm for MAS-BT. This allows shrink-grip of larger tools for highest milling performance. ☎ Catalogue page 350
	SK 40 Shrinking Arbor for 25 mm shank diam.	Supplement to our range for smaller machines: if you want to machine with larger tools on smaller machines, this new Arbors assists you. It is pre-balanced to G6.3/18.000 min ⁻¹ and has an internal coolant supply. ☎ Catalogue page 354, 355, 356
	Extra rigid Shrinking Arbor for 36 mm shank diam.	This Arbor meets highest possible stress requirements in Mould- and Tool-Making. It has a SK 50 taper, designed for 36 mm slim shank – diameter, reaching maximum chip-volume and highest rigidity. It is pre-balanced and has internal coolant supply, for various applications. ☎ Catalogue page 358
	Last, but not least: our Bag of Tricks ... 782 ... 783	It might be possible, that despite of our enormous variety of available arbor-combinations, an application occurs, where you cannot find the length of combination you might need. Special manufacture takes too long. In this case, only a grip into our Bag of Tricks might help. We offer a range of Adaptors, Extensions or Reductions. We are going to help also on Modifications. ☎ Catalogue page 270 ff



NEW ITEMS

UltraPerform®-Solid Carbide End Mills:		
	Ball Nose End Mills 2 teeth for Hardened Steel 1312 59 + 1313 59	For 3-D-milling of hardened steel, with extreme rigid core-diameter in connection with optimized geometries and a sufficient coating, these End Mills achieve outstanding results and tool life, PVAT-coated. ☎ Catalogue page 186
	Toric End Mills 5 teeth for Hardened Steel 0275 59	For 2-D- and 3-D-machining of hardened steel, with extreme rigid core-diameter in connection with optimized geometries and a sufficient coating, these End Mills achieve outstanding results and tool life in roughing operations, PVAT-coated. ☎ Catalogue page 242
	Trigaworx® End Mills, 4 teeth for extreme milling of Steel 0374 55 + 0474 55	For all roughing operations with phenomenal metal removal rates. Latest geometries and coatings allow feed rates up to 20 m/min. The most economic End Mill of this time!! Also capable for roughing in deep slots or cavities, PVALsa-coated ☎ Catalogue page 264
	Toric End Mills 2 teeth for Steel with lubricant layer 0172 56 + 0182 56	For 3-D-machining of tool-steel, capable for milling open flank-profiles and also plain surfaces. By avoiding the zero-speed-situation in the End Mill-Centre, you achieve long tool life, perfect surfaces and considerable reduction of machining-time! PVCC-coated ☎ Catalogue page 232
	Corner Radius and Toric End Mills 2 teeth for Non-ferrous Materials and Copper Electrodes 0442 43 + 0462 43	A multi-purpose-design of End Mills: capable for milling non-ferrous materials as well as copper and high-temperature alloys for 2-D and 3-D-milling and also for roughing applications. By avoiding the zero-speed-situation in the End-Mill-Centre, you achieve long tool-life, perfect surfaces and considerable reduction of machining-time, PVCN-coated. ☎ Catalogue page 222
	Toric End Mills 3 teeth for Cast Iron, Steel and Non-ferrous Materials 0163 57 + 0183 57	For 3-D-machining of steel, cast iron and non-ferrous materials, capable for milling flank-profiles and also plain surfaces by avoiding the zero-speed-situation in the End Mill-Centre. Achieve long tool life, perfect surfaces and considerable reduction of machining time, PVCC-coated. ☎ Catalogue page 236
	Toric End Mills 2 teeth for Non-ferrous Materials 0482 40	For 3-D-machining of non-ferrous materials and graphite, capable for milling open flank profiles and also plain surfaces by avoiding the zero-speed- situation in the End Mill-Centre. You achieve long tool-life, perfect surfaces and considerable reduction of machining-time! PVTi-coated. ☎ Catalogue page 236
	Corner Radius and Ball Nose End Mills 2 and 3 teeth, for machining Graphite 0452 48, 0453 48, 1452 48 + 1453 48	For 3-D-machining of graphite of all kinds, from 0.4 mm diam. up to 20 mm diam. with various working depths, PVDiaF and PVDiaN coated a new complete range of End Mills for modern machining centres! ☎ Catalogue pages 196 up to 201 and 226 up to 231



NEW ITEMS

We like to simplify everything for you: our new CD-ROM-catalogue 2005!

Already with the first edition of our CD-ROM-catalogue, we have had in view to simplify everything as much as possible for our customers.

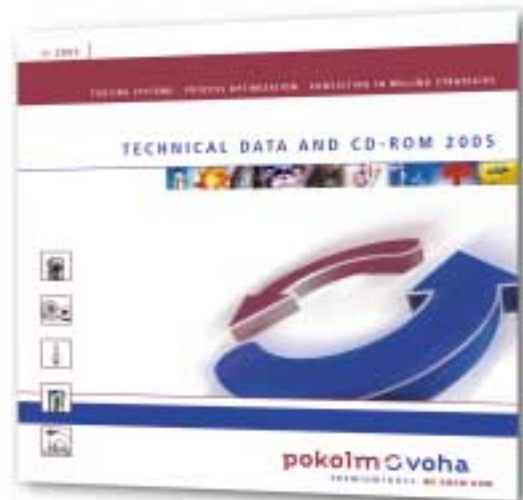
Our motto is: don't search, find!

This new edition 2005 offers more comfort and more functions. Find your information required, products and solutions concerning milling easier and faster!

Clear structure, detailed product information, comfortable search possibilities and available linkages, help to find necessary details at all times, easy and fast!

But, we would not be Pokolm-Voha if we would not be able to do more for you:

- ⊖ dataexport to CAD-CAM system Tebis V3.3
- ⊖ material-related operation data for every tool
- ⊖ automatic product configuration related to working depth
- ⊖ considering input angles
- ⊖ tool-availabilities online
- ⊖ revised text search
- ⊖ machining examples on video
- ⊖ input of customers code-nos. via import-module





NEW ITEMS

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