

- *Product-Configurator for back counterbores*
- *Autofacer with monitoring of cutter blade position*
- *Autofacer, actuated by centrifugal force*
- *Fine-boring tools for fittings IT4-6*
- *High-performance insert-coating h^x*
- *RBS++ - optimized insert position increases tool stiffness*
- *Powerbore: effectively double-edged and sintered indexable inserts type XBMX*
- *Flexispeed+ - optimized chip-flutes for higher performance*

short delivery times for special tools

Product-Configurator for back counterbores

Fast selection of suitable tool solutions

SELECTOR

Eingabe der Daten Übersicht Anfrage

Trägerwerkzeug:

1. gewünschter Senkdurchmesser (d):

20

andere

ohne Wendschneidplatte

6,5 (Grundkörper: VHM)

8,0 (Grundkörper: VHM)

10 (Grundkörper: VHM)

11 (Grundkörper: VHM)

15 (Grundkörper: VHM)

mit Wendschneidplatte

15

18

20

24

26

30

33

36

40

43

46

48

2. Mindest-Bohrdurchmesser (d1_{min}):

13 mm

Trifft dies zu?

Ja Nein

3. Maximale Bohrtiefe (l₃):

37 mm

Trifft dies zu?

Ja Nein

Wendschneidplatte:

Bestellnummer: **RBS183019025**

Senk-Durchmesser d: **30 mm**

Mindest-Bohrdurchmesser d1_{min}: **19 mm**

Maximale Bohrtiefe l₃: **59 mm**

Schaftdurchmesser d₂: **25 mm**

DIN18358

Wendschneidplatte:

Bestellnummer: **MCEX060204FRHPS**

Ihr Werkstoff: **Sphäroguss (Schneidstoff: HM-TiN beschichtet)**

Art der Wendschneidplatte: **Präzisionsgeschliffene Wendschneidplatte**

Plattengröße: **06**

MCEX-FRH MCEX-EN

descriptions.

These can simply be sent as request directly from the selector. If a special solution is needed, a questionnaire appears, which can be filled-in online and sent as request.

The new **PRODUCT-CONFIGURATOR** of HERMANN BILZ avoids the inconvenient search of suitable tools and components in catalogues. Simply open the selector of the appropriate product group of back counterbores on our homepage, fill in the requested data like diameter, depth and material, and you get immediately a **list of all order-numbers and**

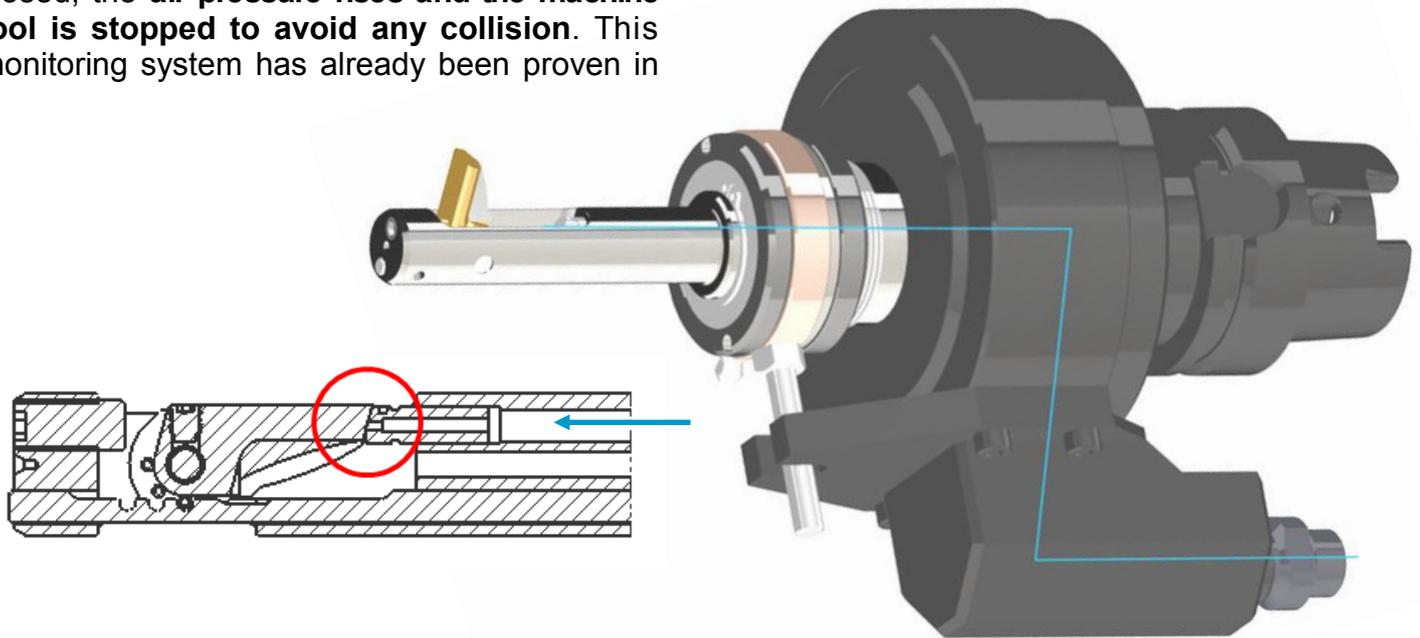
Zurück Drucken weiter zur Anfrage

Autofacer with sensory monitoring of cutter blade position

Pneumatic-sensor shuts down the machine in case of disorder

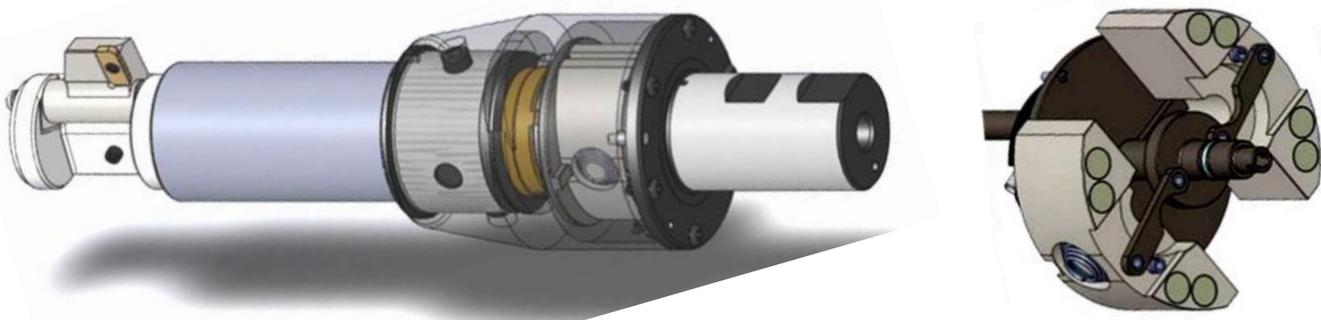
Save **monitoring of cutter-blade-position by air-pressure**. The cutter-blade closes the nozzle air-tight in the closed blade position. The increased air pressure is measured by an monitoring module adapted to the machine tool. In case of disorder, when the cutter blade is not closed, the **air pressure rises and the machine tool is stopped to avoid any collision**. This monitoring system has already been proven in

the mass-production for many years and avoided numerous damages and machine tool down times. **In combination with an adapter with a rotary feedthrough, now it is also usable on machine tools with automatic tool changer.**



Autofacer with centrifugal force actuation

Fly wheel masses will actuate the cutter blades without changing the sense of rotation



The new **centrifugal force actuated** Autofacers can be used for automatic backspot facing wherever flywheel or bump style actuation is not possible. The cutter blade will automatically open at a pre-determined rpm. The Autofacer consisting of actuation modul and countersink

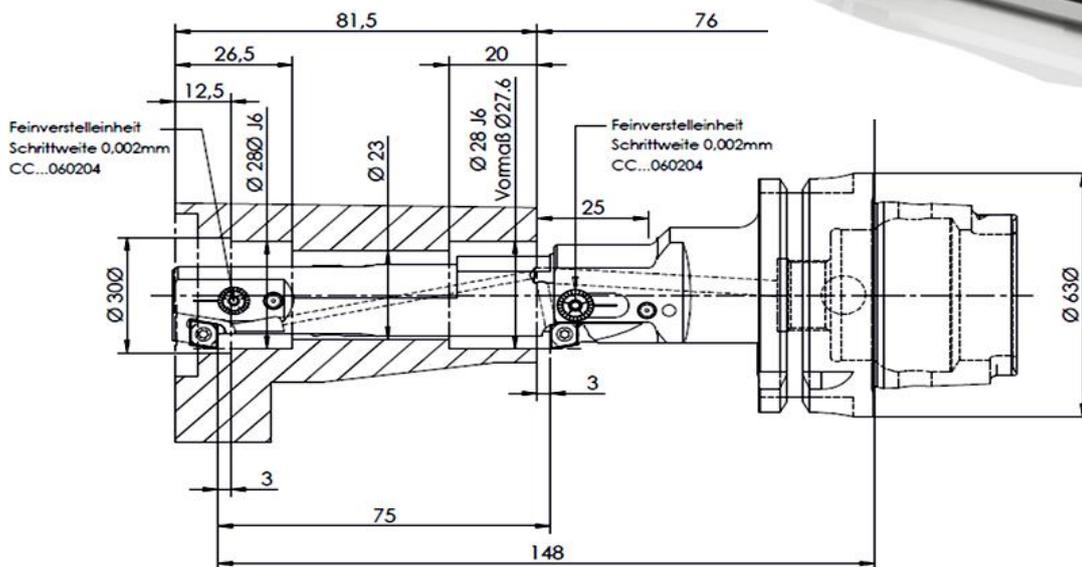
tool, can be used on all machine types. The actuation module can be combined with multiple countersink tools for different diameters. The rapid centrifugal force actuation minimizes down times and increases productivity.

Precision boring tools for fits IT4-6

Cartridges with back lash free micro-adjusting mechanism

The new MicroCut-precision boring cartridges with an **adjustment of 2µm per scale-line** are particularly suitable for the machining of high-precision bores. The simple and accurate adjusting mechanism allows a specified faultless setting directly on the machine. They are ideal for use in single- or multi-bladed special tools starting from diameter 28 mm. Smaller tools with an integrated adjusting mechanism are available from D=14 mm.

The drawing shows a special tool with two adjustable blades for forward and backward precision machining of two **aligned J6-bores**.



New high-performance-coating for inserts h^x

h^x is an aluminium-titanium-nitride hard-coating for cutting applications, which is made by PVD-sputtering. The h^x coating offers a high temperature resistance and material hardness beside the ideal protection against abrasion and adhesion, even for very hard and difficult materials to machine.

In many drilling- and boring applications in CrNi-steels, stainless steels and hard casting materials, h^x -coated inserts increased the **tool life by up to 200%** compared to com-

mon TiAlN-coatings. The higher temperature resistance allows furthermore **remarkable higher cutting data**.

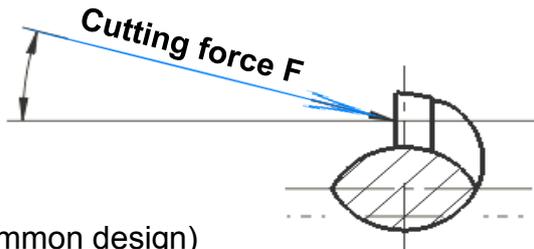
Accordingly coated inserts (designation HX) are available on request on short notice.



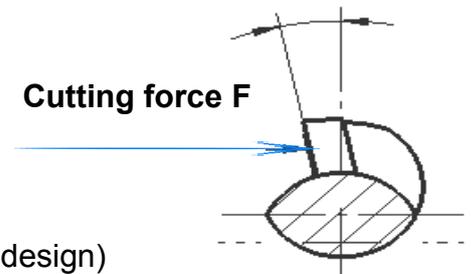
RBS++ - optimized insert position increases tool stability

The optimized position of the insert in the new developed **RBS++ increases the stability considerably**. The cutting-force is now directed into the direction of the widest cross-section of the tool body, so that the cutting edge is

drawn aside less. This leads to a higher bore accuracy. The minimized mass of the cutting head area **reduces the chatter-risk**. **RBS++** are available as special solution for critical applications on request.



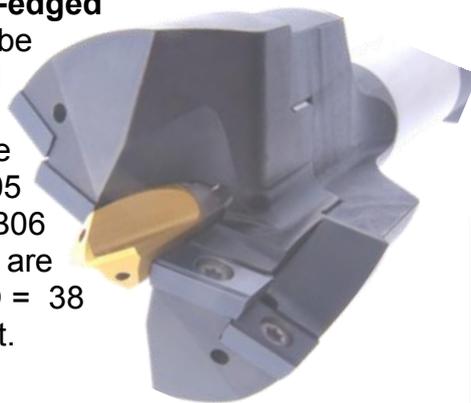
RBS+ (common design)



RBS++ (new design)

Powerbore: new drill heads KSB05/06 and sintered inserts type XBMX

Effectively double-edged cutting heads can be used at increased feed rates on powerful machines. The types **KSB05** (without) and **KSB06** (with guide pads) are now available for $D = 38$ -160 mm on request.



The **new low-cost sintered inserts type XBMX** for drill heads **KSB01** and **KSB03** can be used for high cutting speeds in steel. The sintered inserts are available for drills starting from $D = 58$ mm in 4 sizes; all inserts are ex stock.

XBMX090404FR7P9
XBMX100404FR7P9
XBMX120404FR7P9
XBMX150404FR7P9



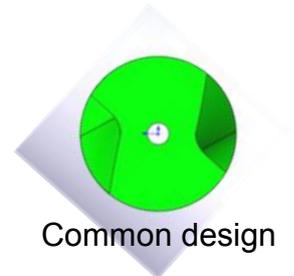
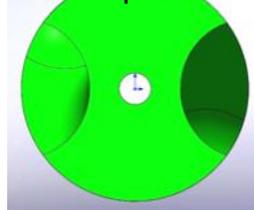
Flexispeed+ - optimized chip flutes for higher performance

The completely **new designed and polished chip-flutes** ensure not only a save chip flow, but also increase the tool stiffness. In combination with the optimized core-drills, the **perfor-**

mance and the **machining-safety** is considerably increased, when drilling up to 6xD deep and more. **Flexispeed+** and optimized core-drills will be available from 2019 .



New chip-flutes



Common design