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## **New in the HAINBUCH product line:**

### **Clamping cylinders complete the system**

MARBACH. Team players are in demand, and not just in the German Soccer League, now the Marbach-based clamping device manufacturer also relies on a well-balanced team that gets the optimum out of machines. With energy-efficient clamping cylinders the company is now positioning itself as a complete provider that covers the entire »clamping device chain«. Normal-pressure, high-pressure, and bearingless high-pressure clamping cylinders are now in the product offering.

#### **The particularity: The rotary feed**

At HAINBUCH clever details with high utility are part of the package. For the clamping cylinders it is the efficient rotary feed with self-regulating flat-gap seal, that ensures approximately 50% less leakage as compared to conventional clamping cylinders. Due to the low leakage a small hydraulic aggregate suffices; less energy is wasted, and the entire unit is just as energy-efficient as it is ecologically practical.

With the high-pressure cylinders users profit from shorter cycle times, higher productivity, and lower energy costs. The reduced oil volume ensures fast clamping strokes, the reduced mass allows the spindles to accelerate and brake faster, and the machine drives have a longer life span. The standard cylinders with up to 80 bar are ideal for machines with a small overall size. They offer a greater clamping pressure regulating range and thus enable a more sensitive clamping. Differential pressure clamping is even available as an option.

#### **For maximum spindle concentricity**

Without a doubt the highlight in the HAINBUCH clamping cylinder product line is the slim-line, high-pressure clamping cylinder without ball bearings. Here there is no contact; nothing disrupts. Where there are no ball bearings there is no vibration and this means: Maximum spindle concentricity, higher machine accuracy, long life time, and higher RPM. For users these are good reasons to take a closer look at the new clamping cylinders from HAINBUCH. And first and foremost: You now get everything from a single source.

**Photos:**

01\_HAINBUCH\_Spannzylinder.jpg

With the high-pressure clamping cylinders from HAINBUCH expensive hydraulic units and extensive oil leakage are a thing of the past. Leakage is approximately 50% less than that of conventional clamping cylinders.

02\_HAINBUCH\_Spannzylinder.jpg

Slim-line design and without ball bearings, the bearingless HAINBUCH high-pressure clamping cylinders are ideal for maximum spindle precision.

03\_HAINBUCH\_Spannzylinder.jpg

A reason to be pleased: HAINBUCH now offers users a single source for the complete »clamping device chain«.

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