

Press release

August 31, 2017

Hainbuch Maxxos T211: the hexagonal, super-strong mandrel

A mandrel with hexagonal pyramid shape instead of a round taper, designed with stringent manufacturing requirements and process reliability in mind. Hainbuch has acted in response to demand from specific areas that has been growing year by year. Users are requesting mandrels that deliver higher performance as well as process reliability. The result is called Maxxos. It exceeds even the specified customer requirements and more than this, offers all the advantages of a hexagonal clamping mechanism. The segmented clamping bushing with hexagon inside shape fits perfectly onto the clamping pyramid and enables maximum cutting performance. The lubrication, combined with its tightness ensures a very constant production flow and as a result, achieves maximum reliability. Customers that value process reliability and maximum torque transmission will be delighted with the Maxxos T211.

The best for heavy I.D. clamping

Thanks to the hexagonal pyramid clamp, maximum torque transmission can be achieved. Up to 155 percent more transmissible torque and up to 57 percent higher bending stiffness compared to the classic Mando T211 mandrel. This makes it possible to achieve higher process parameters and consequently improve the yield of finished parts. Greater process reliability is facilitated by the spacious layout between the clamping bushing and the clamping pyramid. Even during the clamping process, this design prevents virtually any dirt getting onto the surfaces. This significantly cuts down the frequency of maintenance times for cleaning and lubrication. Overall, the mandrel has a clamping diameter range of 18 to 100 mm. The clamping areas of each size are designed to overlap. This has the advantage that users can choose from up to three mandrel sizes depending on the clamping diameter. The larger the mandrel is, the greater its stability and rigidity. Smaller mandrels may be able to handle more of the customers smaller workpieces. Users are free to choose the size they want, based on their own judgement and preferences. The aligned, segmented clamping bushings have a minimum concentricity of 0.01 mm and can even be supplied in a high precision version.

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Key advantages:

- I.D. clamping mandrel for clamping diameters of 18 to 100 mm
- Ideal for stringent manufacturing demands and process reliability
- Unique rigidity due to spacious layout of the clamping segments
- High transmissible torque and holding forces
- Contamination resistant due to hexagonal pyramid shape
- Concentricity < 0.01 mm also available in high precision version

HAINBUCH at the EMO 2017 in Hannover:

Hall 3 . Booth C72

Photo:

01_Hainbuch_mandrel_MAXXOS_T211.jpg

The mandrel with hexagonal geometry for added process reliability and maximum cutting performance.