

GUIDE BUSH WITH 3 POSITIONS: GUIDE BUSHES ADAPTED TO BAR TOLERANCES

New from Habegger SA, a guide bush that will get people talking!

Following trial production runs with its Swiss customers and in particular at Tornos S.A. in Moutier, Habegger SA is pleased to present their new guide bush with three positions to the readers of decomagazine. It should be available from summer 2007.



Guide bush TP30 and TP40.

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A little technology

The principle is relatively straightforward. The traditional guiding elements remain unchanged and the internal components are identical to those found in the company's current guide bushes. All except the nut at the rear of the guide bush, which is used for manual adjustment. This is replaced by a pneumatic jack that allows the guide bush to be adjusted at any moment.

User benefits

This new guide bush offers the following advantages:

- Before machining each workpiece, the guide bush

adapts itself to the tolerance of each bar, at the point where the workpiece is machined.

- During micro-milling or any other radial machining operation, the guide bush's chuck can be tightened to secure the bar rigidly and prevent any tools from being worn down prematurely – an effect often caused by the bar vibrating in a conventional guide bush.
- The same chucking function can be employed for feeding a long workpiece that requires a collet opening, this replaces the traditional «cable tie».
- Alternatively, the open position of the guide bush enables the headstock to advance rapidly, avoiding any marks on the raw material caused by the guide bush.
- During bar changeovers, this open position makes it easier to remove the off-cut and facilitates the installation of the new bar.
- The adjustment levels of the guide bush ensure the bars are guided perfectly up to h11 tolerance.

Technical



Pneumatic box FESTO.



Tornos DECO 20a (back view).

This new function from Habegger is installed on machines using guide bush holders for standard guide bushes. Interviewed on this subject, Ms Freudiger – head of marketing and communication at Habegger – is unequivocal: «We don't want to pass on additional costs to our customers who already own all or part of our equipment»

Lubrication is still carried out by the guide bush holder, the same as for CNC or EN type guide bushes. The pneumatic unit consists of a unit designed by FESTO which allows the operator to control two pressure levels. The first, at around 3bar is used for the bar guiding position, while the second at around 5bar, is used for the closed position. Inverted pressure controls the forced opening of the guide bush.

Express interview with Ms Anne Freudiger – Habegger SA

decomagazine: Why this new product now?

AF: The range of parts machined on sliding head machines is expanding year on year and the success of Habegger guide bushes in particular in the field of medical implants, has been the motivation for the company to develop this new concept, which offers definite advantages.

dm: You mentioned years, how long have you been manufacturing guide bushes?

AF: Harold Habegger SA has been making guide bushes since 1968. They are equipped with hard metal rollers that are particularly effective when machining under very tough conditions or with very tough materials.

dm: You have announced that these guide bushes will be available before the summer; will they come in all diameters?

AF: Yes. The same as all the other guide bushes in our current product range.

The pneumatic connection is done directly on the machine, with lubricated air at a pressure of 5 to 6bar. Two programmable 24VDC connections are required to control these functions.

For all information on this new product, contact Mr Bueche or Mr Känzig at the address below:

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