

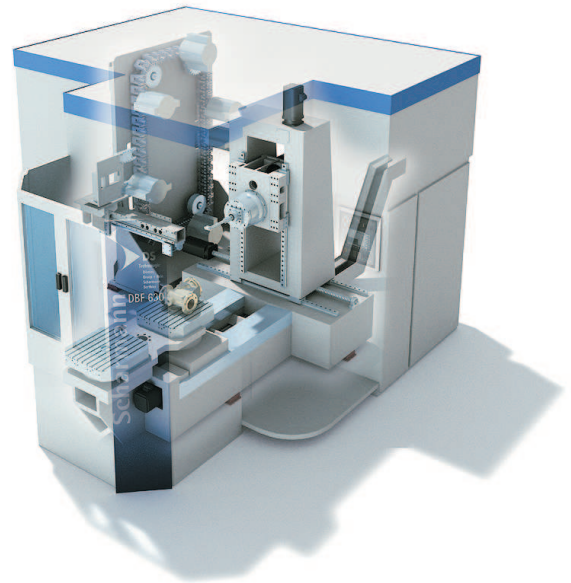
## Complete machining on one machine, in one set-up

Milling, boring and turning complex, asymmetrical workpieces economically and with precision.

Mönchengladbach

Wherever workpieces require a combination of turning, milling and drilling operations, the new DBF 630 machining center offers potential solutions. Wherever there is a requirement for higher precision, this new machining center from Dörries Scharmann Technologie GmbH (DST) will prove to be unbeatable. Turning, boring and milling on different faces and positional attitudes in one set-up, flexibility with different workpieces and machining operations, high productivity and a rapid return on investment (ROI), are amongst the many attributes of this multi-talented machine.

Complete machining with roundness and linear accuracy of 5 to 6  $\mu\text{m}$  for pump and valve housings, fittings, sealing flanges, steering knuckles and rock bits are amongst the typical applications for the new machining center. The secret of its success lies in the turning, boring and milling head, known as DBF for short. All the machining operations are performed by a single operating spindle. For milling and drilling the spindle rotates centrally as with a conventional machining center. For turning the spindle can be displaced  $\pm 35$  mm from the center of rotation thus providing the capability to turn a variety of differing diameters and contours.



Brand new Scharmann Machining Center DBF 630

## Press Release 1 / IMTS 2006

The single machine strategy offers a host of advantages. Turning, boring and milling can be performed using a single setting, with no time lost to change-overs or moving workpieces between different machines. Clamping and machining in a single set-up increases precision. Automatic pallet changing reduces part exchange times to a matter of seconds. As the tool rotates and not the part, problems of imbalance from asymmetrical workpieces are illuminated. This multiple process feature renders any additional machinery, investment, staff or space requirements unnecessary. These advantages are reinforced by improved machine capacity utilisation, easier tool management, fewer NC programmes and reduced work preparation.

The balancing weights integrated into the head automatically compensate for imbalances which would otherwise occur during turning. In this way, turning speeds of up to 1200 rpm are possible. For boring and milling, a 35 kW spindle speeds up to 3,500 rpm. The compact machining center can be fitted with 630 x 630 mm palettes with a load capacity of up to 600 kg and different tool magazines of up to 330 pockets.

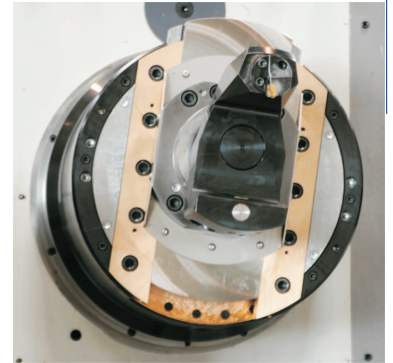
Three sold machines prove the successful concept. Avail yourself to the benefits and convince yourself of the potential of the brand new DBF 630 on IMTS - in South Hall, booth A-8020.

No. of captures: ca. 2.550

Images:

1: The numerous advantages of the single machine strategy with the new DBF 630 machining center, in the economical production of complex workpieces, will be seen from production batch

2. The new machining centre from DST can produced 2: 5 to 6 µm journal concentricity on a workpiece with dimensions of 630 x 630.



The turning- drilling-  
milling head

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