

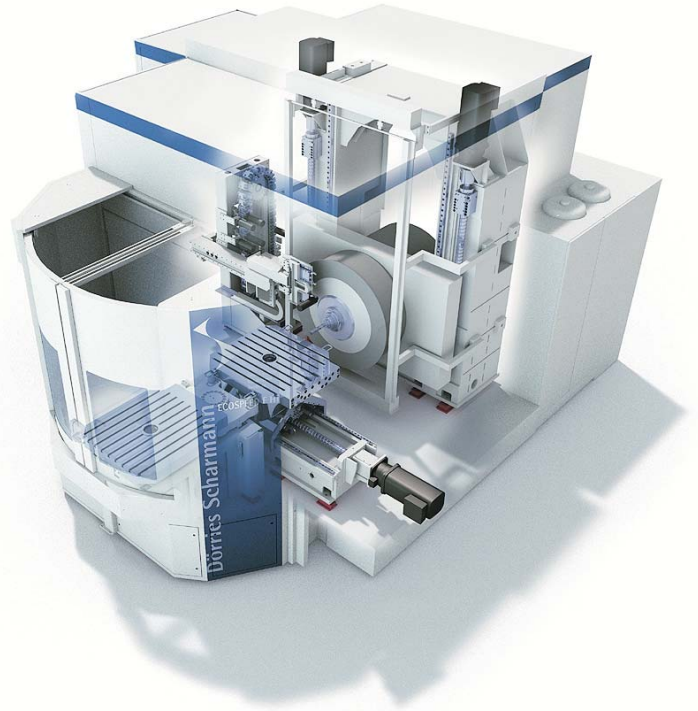
Innovative head

Highly dynamic simultaneous 5-axis machining

Mönchengladbach

The new ECOSPEED F HT offers solutions for highly demanding machining tasks of small or medium-sized components with highest productivity rates. The decisive innovation of the machining center by Dörries Scharmann Technologie GmbH (DST) is the machining head Sprint Z3. The technology of the parallel kinematic head Sprint Z3 has been proven in serial production of international aircraft manufacturers. Realized in ECOSPEED F HT, this technology now also offers highest dynamics in 5-axis machining for the automotive industry, general engineering and the tool-and-die industry. As machining precision and surface quality are at a very high level, cost-intensive manual work, which had to be done in conventional machining centers, is not necessary any more. This is just one advantage among others which all result in higher productivity and shorter return on investment (ROI) compared with other machines. ECOSPEED F, the "big sister" of the new machining center, has already proven a productivity double and even five times higher in machining structural parts for large passenger aircraft. The chipremoval volume of 8,000 cm³/min in high-tensile aluminium sets the unequalled benchmark.

Components at complex contours as structural parts, jet engine blades, motor cylinder blocks and other complex single unit or serial production parts belong to the range of machining tasks of ECOSPEED F HT. The table with the component moves horizontally in the x-axis while the head moves in the y-axis on a static column. Pallet sizes of 1,000 x 1,000 mm and a spindle power of up to 80 kW, fast tool changes from chain- or rack-type magazines complete the concept.



High Performance Machining
Center ECOSPEED F HT

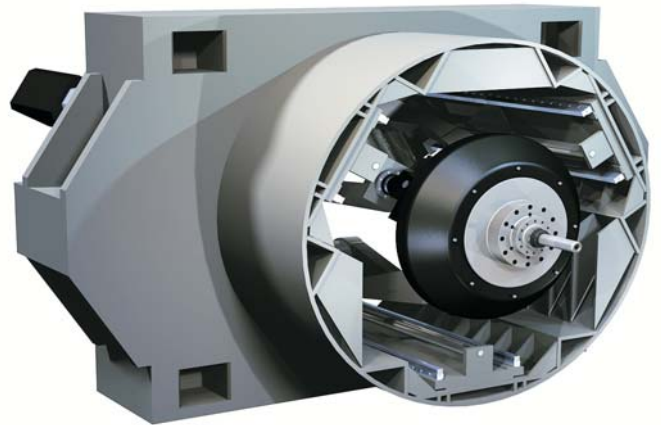
The machine as well as the machining head itself have an acceleration of 1 g. Sprint Z3 directly executes all movements of both rotating axes and the Z-axis. System programming is the same as in conventional machining centers. The precision is much higher due to the fact that tolerances of mechanical fork type heads do not occur. As practically all machining operations of one component are realized in one set-up, idle times are drastically reduced. The open-spindle-concept (cartridge spindle) is a good basis for future development, as the investor can incorporate new solutions as they may come. It is not only the outstanding price-performance-ratio that speaks in favour of the machining center, but also the very low life-cycle-costs convince the user.

Number of characters: ca. 2.650

Captions

1: The innovative machining head Sprint Z3 and a machine concept with horizontally moveable table group make the new ECOSPEED F HT suitable for 5-axis machining of small- and medium-size components at complex contours.

2: The parallel kinematic machining head Sprint Z3 is the core of the new machining center ECOSPEED F HT by DST. With an acceleration of up to 1 g, it guarantees high dynamics.



Innovative head:
Sprint Z 3

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