

# Highest Precision for wind turbine gear parts

Nine flexible vertical turning lathes for outstanding achievements

Mönchengladbach, 1 July 2004  
The leading Belgian manufacturer of wind turbine transmissions, Hansen, places his bets on the trend: higher-performing and larger, lighter in weight and more precise.

That's why Hansen looked for new high-precision lathes to machine large components for their new premises in Flemish Lommel. Demanding requirements in precision and availability as well as reliability and service lead to the machine tool experts of Mönchengladbach-based DS Technologie. After one year of production, the Flemish manufacturer of gear parts is convinced of the flexibility as well as of the quality and future-compliance of the Dörries single-column turning lathes, of which he owns nine, now.

Hansen have produced the complete mechanical part of large wind turbines in the new plant in Lommel since December 2003, now. Components of up to 3 meters in diameter and 8 tons of weight in production lots counting by hundreds belong to what Hansen consider their core competences. This business involving capital intensive, large dimension and high-precision lathe work requires a special sensitivity.

The most critical manufacturing work as hardening, turning, drilling, milling and assembling is carried out in-house by Hansen's own expert staff. This guarantees flexibility and independence. Therefore, Hansen emphasized best quality and availability on the one hand and openness as well as variable applications on the other hand when selecting the machine tool manufacturer.

After thorough market research the gear specialists' decision was taken in favour of DS Technologie.

After receipt of the corresponding order the manufacturer from Mönchengladbach supplied five turning centers Dörries VCE 1600 Contumat for turning diameters of up to 1600 mm.

Previously, DS Technologie had already supplied Hansen with four VCE 2800 turning centers of the same brand, suitable for turning diameters of up to 2800 mm.



Turning lathes  
Dörries VCE 1600



Drilling operation on a  
VCE 1600

The four "large" machines as well as the five "small" machines carry the notion "MC" in their name, indicating that they are able to execute drilling operations as well

The advantage of the complete simultaneous machining in one setting reduces time for transport and set-up and increases productivity. "We are also very satisfied with the project processing and the service", says Marc Hellinx, head of production at Hansen.

He proudly adverts to one outstanding achievement: "We guarantee a tolerance of, for example, < 0.02 mm axial truth at a diameter of 2800 mm – and this even with an extremely small ring profile."

For further information:

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Vertical turning lathe  
Dörries CONTUMAT VC 2800



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Flexible application for  
turning centers Dörries VCE  
CONTUMAT 1600

