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HBE Dynamic Series on route for success

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The new HBE Dynamic series launched in 2013 has been a resounding success. The series is now being lifted into a whole new league in terms of performance level with an array of features provided as standard. The existing models have now been joined by a bigger model, **the HBE663A**.

“The HBE Dynamic series addresses increasingly stringent market demands for ever more efficient, more economical and more precise sawing machines. Increased performance coupled with reduced energy consumption, lower space requirement without compromising occupational safety or handling simplicity: These were just some of the stipulations followed by the development process”, recalls CEO Christian Behringer. The new HBE Dynamic series is available in five model types 261A, 321A, 411A, 511A and 663A with corresponding cutting ranges, covering an extensive field of applications in the steel trade, machine and tool building and in high-end metalworking businesses.

Smart features for the flexible all-rounder – as standard

In a new departure, Behringer GmbH will be providing the HBE series complete with features designed to significantly enhance sawing process reliability as standard. The AFC (Auto-Feed-Control) is just one example: A computer-controlled high-performance cutting pressure control system supplies the data for cutting speed and servo-regulated downfeed. This provides an effective protection for tools against overloading, by tracing the back of the sawblade in real time while sawing is in process. “With this facility, we are offering our customers premium technology otherwise only available in high-performance sawing machines”, says Christian Behringer.

Impressive economy and quiet running

With a superb service life of well in excess of 400 sawing cuts in 42CrMo4 200 mm dia. material, for instance, the HBE321A Dynamic has significantly more to offer than comparable sawing machines, meeting even the most challenging of assignments without hesitation. A sturdy saw frame made of vibration-damping grey cast iron and double band wheel bearings work together to ensure quiet running and cutting precision. Trials confirmed a 30 per cent longer service life of bandsaw blades alongside



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visibly better cut surface quality. The slight inclination of the band wheels helps prolong the life of bandsaw blades by reducing fatigue due to cyclical bending.

Minimum rest piece length with optimum fixing

Given the rising price of materials, achieving smallest possible rest piece lengths can also be a major benefit. Because achieving this key benefit should not be allowed to compromise clamping safety, the HBE Dynamic series from BEHRINGER comes with a double vice as standard. The less movement occurs during machining, the better the alignment and angular accuracy. More even clamping also means a more precise cut. Material bundles and packages in particular, but also thin-walled pipes, are ideally fixed while an mechanical stop enables rest pieces to be almost completely sawn, so saving costly material.

No-compromise energy efficiency

Resource-saving production, sustainability and energy efficiency are currently on everyone's lips. The rising cost of energy is driving manufacturers to rethink their existing processes and make use of technological innovations to develop new solutions which will enable higher output to be coupled with lower energy input. "With the new HBE Dynamic series, we have proven that energy efficiency and high-powered hydraulics are not a contradiction in terms", explains Christian Behringer. The use of modern frequency-controlled drive systems from renowned manufacturers and gearing ratios specifically configured for purpose mean that simply specifying the kW output of a motor is far from being a guarantee of high cutting output nowadays. In the HBE261A Dynamic, for instance, a sawing drive of 2.6 kW enables a high machine throughput while requiring minimal energy input – which adds up to efficient production.

The HBE Dynamic's feed gripper is designed in a rugged gantry version and mounted in floating bearings. It moves along a closed roller conveyor – a key benefit when machining shorter cuts. As re-gripping is only necessary in this machine after a 600 millimetre cutting length, this saves valuable non-productive time.

Proven process reliability

Lowering the saw frame prior to the cut is performed in the HBE Dynamic using a proven technology which ensures the utmost process reliability. Instead of an electronic sensor or manual entry of the height information, the height is detected by a mechanical T-bar which brings the rapid lowering movement to a stop as soon as it senses the upper edge of the material. The engineers gave process reliability clear priority over the use of susceptible electronic systems, as these machines

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are frequently automated and need to guarantee trouble-free operation when operating unattended.

No-risk chip disposal

Because a carefully considered chip disposal system is vital following on from sawing cuts, this aspect was taken into consideration right from the design phase of the HBE Dynamic series. The funnel-shaped machine base enables good access for cleaning and maintenance. The chip conveyor itself can be supplied as a paddle style conveyor or worm and can be simply pulled out. To guarantee the most effective possible cleaning of the saw blade, the HBE Dynamic features electrically driven double chip brushes which clean the bandsaw blade of adhering chips synchronously while sawing operation is in progress. A quick-change device permits the brushes to be exchanged without excessive loss of time.

Functionality and design

Because the machine is fully enclosed, it not only complies with current CE directives but also addresses growing demands for user-friendly design, occupational safety and environmental protection. The benefits are evident: No contamination of the work environment, reduced noise coupled with an optimum view into the machine through the generously dimensioned viewing window. The easy-maintenance concept enables simple saw blade changeover and good access for repair or cleaning work.

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