

Production Modules FM3+X SRR

ELHA MASCHINENBAU Liemke KG presents the evolution of the 20 years proven Production Module concept at the EMO 2017 with the FM3+X SRR module with drum type turret technology.

By utilization of the drum type turret (SRR) ELHA succeeds the balancing act between high productivity and contemporary flexibility.

The drum type turret technology emphasizes several advantages by utilization in the production module: In order to match the requirements for flexibility due to smaller lot sizes and reduction of downtime for retooling the tools could be exchanged easily and convenient from outside, like for the magazine in a machining center. There is a space for up to max. four SRR-units in the production module, each in 2-,3- or even 4-spindle machining configuration. The octagonal shape provides eight positions for different cutting tools in HSK-A63 format (HSK-A 100 as an option) on each turret which allows a total number of 32 different tools as a maximum per machine. Independently from number and type of turret, each tool is driven by a separate, watercooled direct drive with powerful 29kW and max. 16.000 rpm.

Another highlight is the possibility of quick change of the work fixture by the customer due to utilization of a quick change system which lifts the FM3+X SRR production module to a completely new and higher level of flexibility which so far is unknown for this kind of machine concept.

Therefore it is a real better alternative for the well known multispindle machining centers even for new applications while all other advantages such as high productivity, accuracy, process reliability and capability of machining even tough materials will remain.

Finally the drum type turret technology could be utilized and combined in the FM3+X SRR together with fixed multispindle units e.g. for using special large diameter tools which allows a completely individual, customized configuration to customers' needs.

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