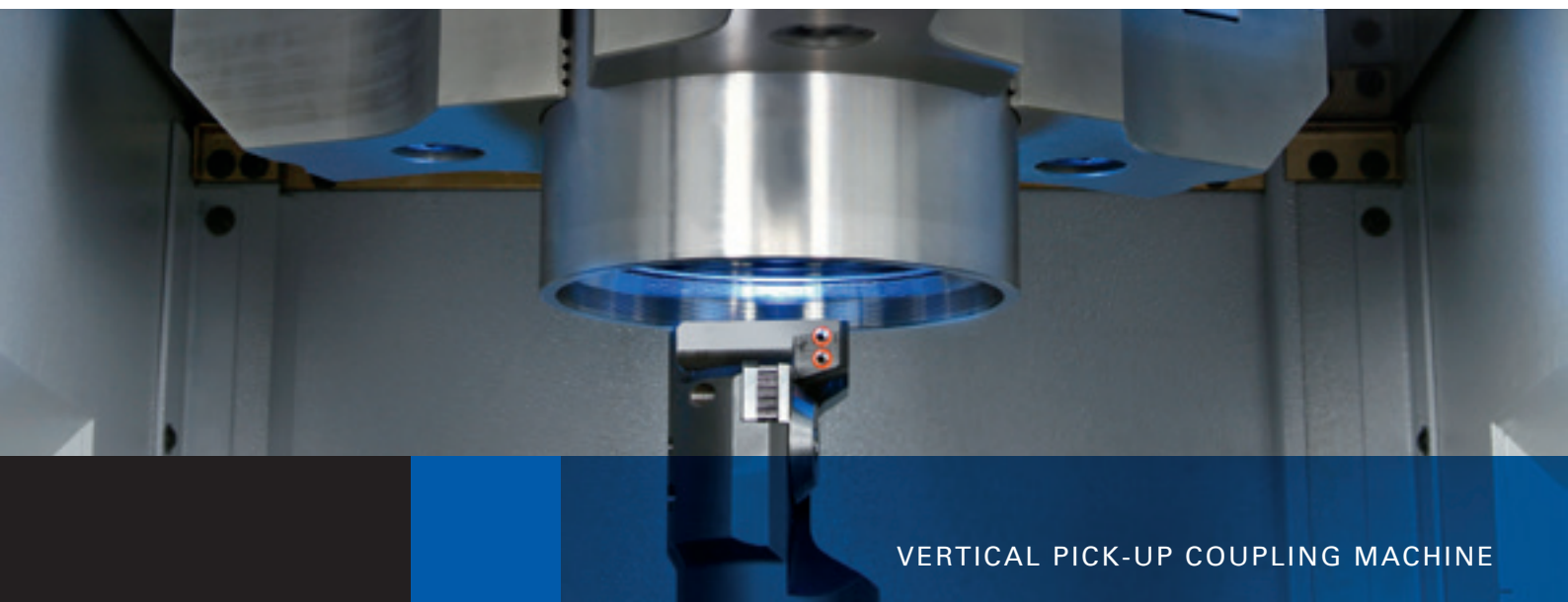


VLC 500 CM



VERTICAL PICK-UP COUPLING MACHINE

think

VERTICAL



- + Tool turret with eight tool positions (Capto C8 / VDI 60) for high speed machining processes
- + Can be used as a stand-alone machine or linked with other machines
- + Powerful working spindle with up to 99 kW
- + Optional indexing chuck
- + Highly productive machining of coupling sleeves between 2 3/8" – 9 5/8" diameter and up to 400 mm in length
- + Production of all standard and company-specific thread types is possible

Highly productive manufacturing of coupling sleeves on modular machines

The VLC 500 CM vertical pick-up coupling sleeve machine has been specifically developed for the demanding production conditions of the oil field industry. The machine is also capable of performing the special requirements necessary for the production of coupling sleeves from the premium segment.

The VLC 500 CM is based on EMAG's modular machine concept and can optimally be adapted to the required machining task. The proven vertical pick-up principle for the automatic loading and unloading of the machine as well as dynamic axes provide for minimum idle times. The VLC 500 CM is completely customizable based on the customer's requirements – either as a stand-alone machine or as part of a complete turnkey production line.



VLC 500 CM –
VERTICAL PICK-UP
COUPLING MACHINE

**MAXIMUM
FLEXIBILITY THANKS
TO OPTIONAL
TOOL CHANGING
SYSTEM**

FLEXIBLE



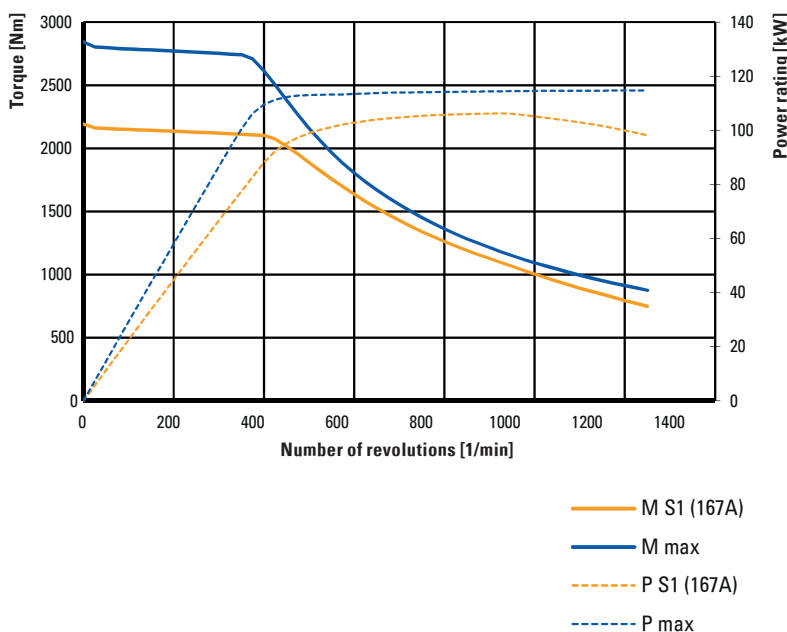


THE BENEFITS

- » Small footprint (Chaku chaku or close linear arrangement) offering a reduction in floor space costs and increased possibilities for machine arrangement
- » Possibility for the simple linking of machines via central feeding and discharge conveyor belts and pick-and-place units / changers – Flexible for future developments due to lower automation costs and shorter tooling times
- » Integrated automation = No additional costs (interfaces, etc.)
- » Short transport distances = Optimization of idle times
- » Lower maintenance costs due to standard spare parts warehousing
- » Ease of operation (easily accessible machining area) = Quicker machine tooling
- » Increased energy efficiency = Reduced energy costs

The characteristic curve

The characteristic curves and operating points show the torque, including the reluctance moment, that can be achieved.



TECHNICAL DATA

Chuck diameter (tool indexing radius)	550 (650) mm 21.5 (25.5) inch
Weight, max.	120 kg 265 lb
Turning diameter, max.	60.5 – 244.5 mm 2.5 – 9.5 inch
X-axis / Z-axis travel	1,155 / 590 mm 45.5 / 23 inch
Main spindle	
» Spindle flange to ISO 702-1: 2009	Size A11
» Spindle bearing	190 mm 7.5 inch
Main drive	
» Power rating, max. 100 % ED	99 / 86 kW 133 / 115 hp
» Torque, max. 100 % ED	2,700 / 2,000 Nm 1,991 / 1,475 ft-lb
» Full power at speed of	400 1/min 400 rpm
» Number of revolutions, max.	1,250 1/min 1,250 rpm
Feed drive	
» Rapid-traverse rate X / Z	60 / 30 m/min 2,363 / 1,181 ipm
» Feed pressure in X / Y (optional) / Z	12 / 12 / 20 kN 2,698 / 2,698 / 4,496 lbf
» Ball screw dia. in X / Z	50 / 50 mm 2 / 2 inch
Disc-type turret	
» Tool receptor	C8 / VDI 60
» Turret tool positions	8
» Width across flats	440 mm 17.5 inch
» Tool indexing radius	1,000 mm 39.5 inch



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