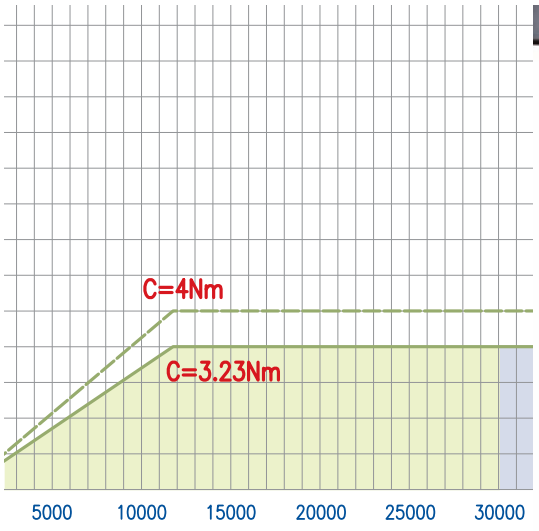
SPINDLE HSK32



Meccaniche Arrigo Pecchioli
Via di Scandicci 221 - 50143 Firenze (Italy) - Tel. (+39) 055 70 07 1 - Fax (+39) 055 700 623
e-mail: pear@pear.it - www.pear.it

www.pear.it

Construction criteria

The characteristics of power and torque are shown on page 4, but thanks to the protection of the spindle by thermal imaging, you can overload the power output of 100% for a limited time. Then the output power limit should not be interpreted as a limit, but as the average power output limit.

The bearings used are of hybrid type, namely steel rings and ceramic balls.

This electrospindle is made by us and this in order to have an average duration "on the field" of over 10,000 hours of use. When a repair will be necessary, we'll do it quickly and with particularly reduced costs.

30,000 RPM version

Given the relatively low value of ndm (*) equal to 1,275,000, grease lubrication of the spindle bearings was deemed adequate to guarantee a sufficient lifetime.

40,000 RPM version

In this case the higher value of ndm (*) equal to 1,700,000, has led us to use the minimal lubrication of the bearings.

Rigid tapping

On this spindle can be mounted threading tools directly on the collect of the toolholder. The CNC will in fact synchronize the movement of the descent of the Z axis, taking into account both the number of revolutions and the programmed pitch of the threading tools mounted, to perform the tapping requested.

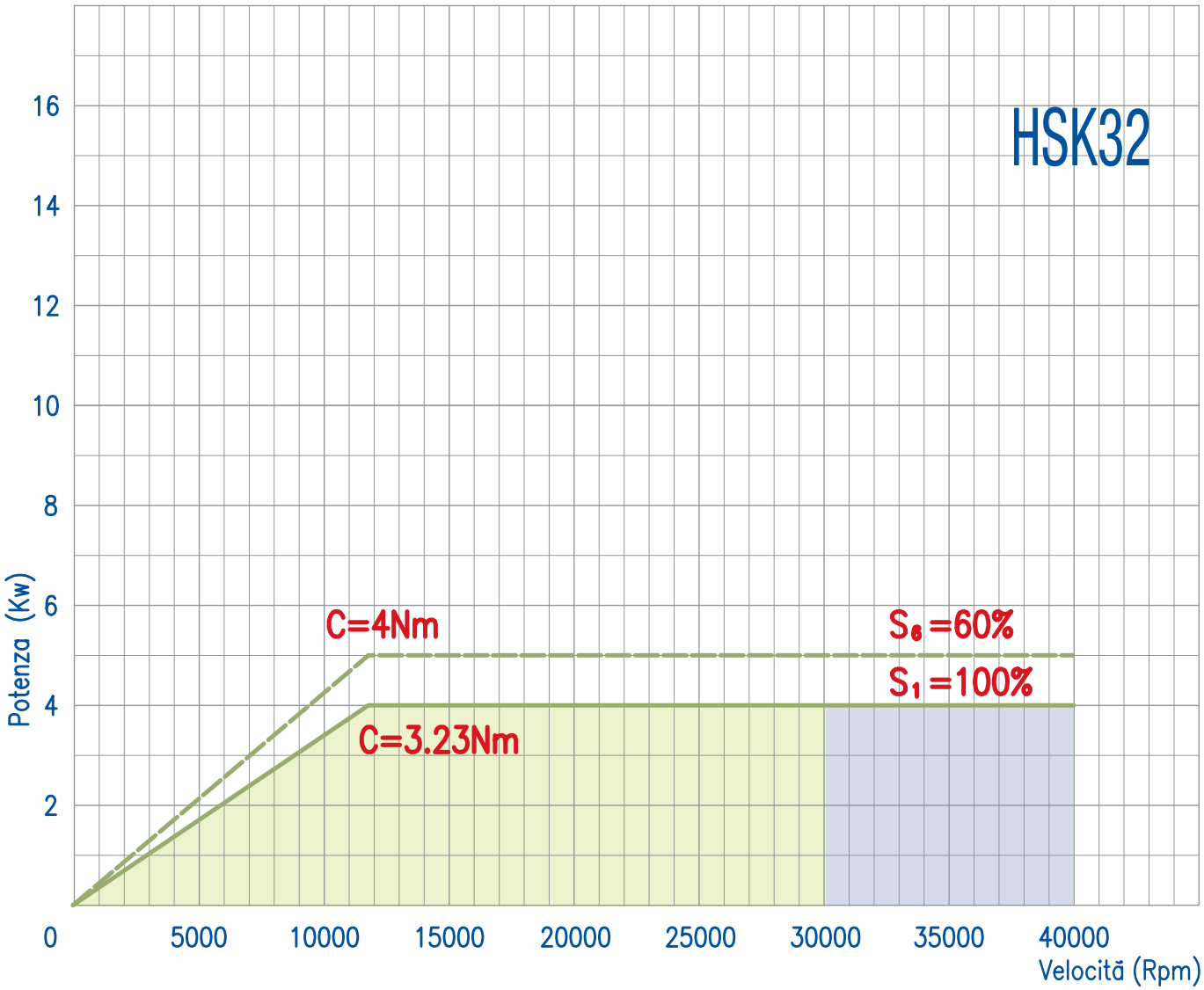
(*) ndm (speed factor) = speed of rotation in RPM x mean bearing diameter in mm

View of the Spindle out of its Head

Of our construction guarantees a long life and a high thermal stability

Power and Torque Diagram

The structure of the machine is designed to allow full use of available power

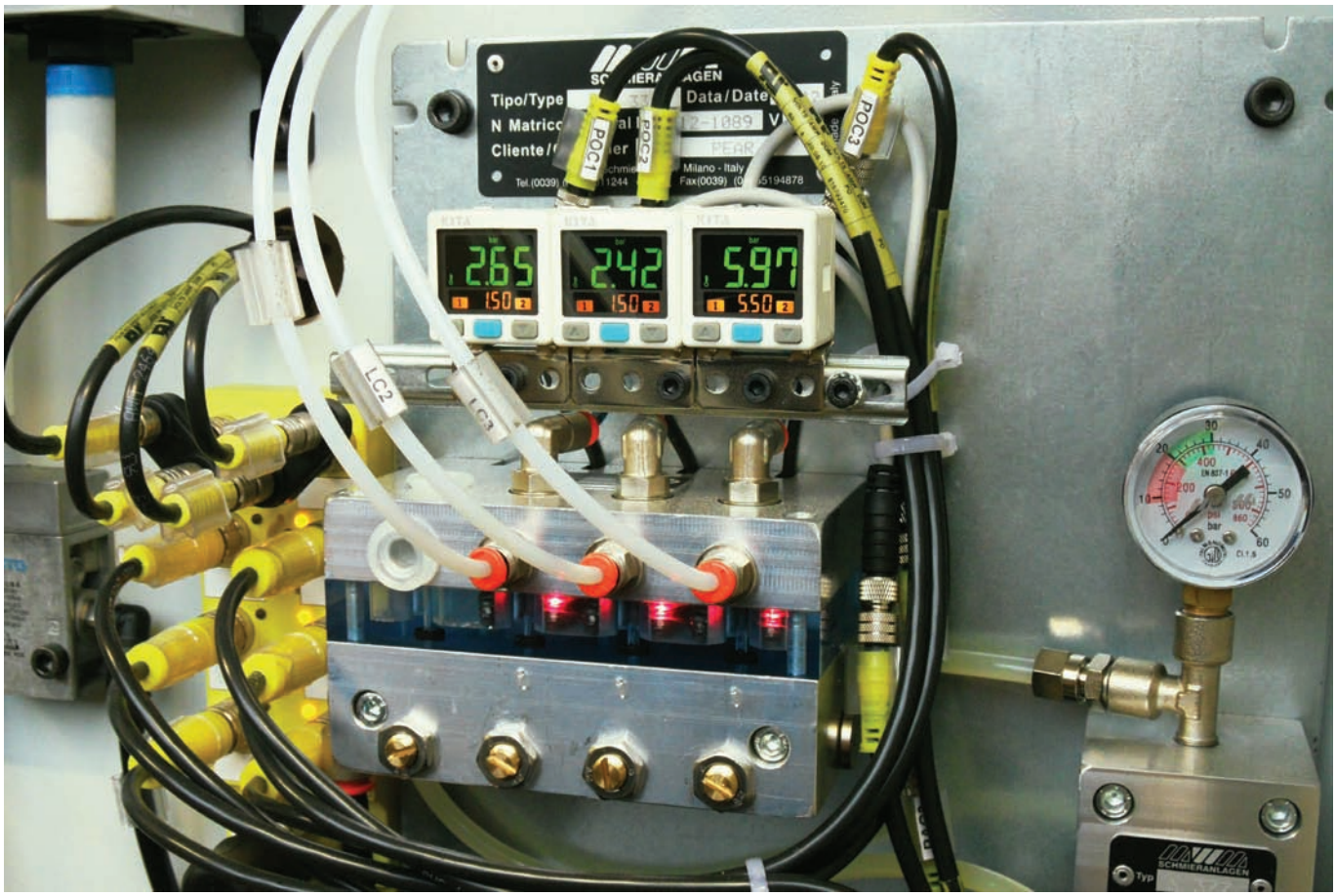


Minimal Lubrication System for Spindle Bearing

Only needed for the 40,000 RPM version

Minimal Lubrication System for Spindle Bearing

View of a detail



Rigid Tapping

Standard feature on all our machines

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