La specifica richiesta di ogni cliente richiede un sistema affidabile e dinamico per cambiare le macchine in tempi rapidi e in completa sicurezza.

La manutenzione del mandrino è garantita dalla precisione dei cuscinetti impiegati, i quali sono in grado di assicurare un alto rendimento e una coppia specifica elevata.

La riconosciuta peculiarità della Omlat SpA, di realizzare completamente il ciclo produttivo, è condizione ritenuta qualificata per offrire soluzioni hi-tech.

La constante evoluzione tecnologica, in più di 60 anni, ha consentito alla Omlat SpA di diventare un leader mondiale nella progettazione e realizzazione di mandrini/elettrorotatori.

Il ciclo di produzione è il risultato di un processo di alta qualità, eseguito con attenzione e perfezione nelle più rigorose normative, garantendo la massima sicurezza e affidabilità.

La scelta di utilizzare motori sincroni o asincroni dipende dal tipo di forze che possono essere sostenute dai cuscinetti, in modo da garantire una durata massima dei medesimi.

La lubrificazione impiegata può essere:
- mediante lubrorefrigerante
- mediante aria trattata
- mediante miscela aira/olio
- mediante aria/olio quantità minimale

Il bloccaggio dei cuscinetti è assicurato dal sistema di raffreddamento che assicura una stabilità termica nelle condizioni di usura.

La lubrificazione degli spazi di passaggio del fluido in asse è essenziale per evitare la formazione di depositi e la riduzione delle prestazioni del sistema.
The choice of the proper bearings for each application is:

- the specific requirement of each customer
- the speed to reach
- the type of forces which the bearings may suffer in relations and high specific torque.

The rotor is realized in either aluminium or copper to use may depend on:

- low losses while winding
- greater resistance to the forces on the bearings supports.

Such motors are characterized by laminations with very high values of efficiency and high specific torque.

The proposed electro spindles can be equipped either with asynchronous or with synchronous motors.

The lubrication can be by mean of:

- air/oil (minimal quantity)
- treated air
- by mean of micro switches - adjusted from the outside of the machine NC.

The necessity to grant the best use of the tools is accompanied by the use of the tools.

The constant technological evolution, in more than 60 years of activity, has allowed the Omlat SpA to become leader in the world in the design and realization of spindles/machines for the tooling sector.

Omlat's well-known peculiarity of realizing completely the electro spindles for the tooling sector, as well as the constant technological evolution, has allowed Omlat to become leader in the world in the design and realization of spindles/machines for the tooling sector.
High speed milling

The choice of the proper bearings for each application is

• the specific requirement of each customer

• the speed to reach

• the type of forces which the bearings may suffer in rela-
tances and high specific torque.

Such motors are characterized by laminations with very

low losses and reduced thickness, allowing high perform-

ences.

The necessity to grant a thermal stabilization to the spin-
ding changes of the tool in relation to the flange for

to use may depend on :

• by treated air

• by cooling/lubricating liquid

The lubrication can be by mean of :

• Steel spheres and rings

• permanent grease

The content of this brochure is addressed to all the customers who

require a serious, reliable and dynamic partner to purchase an

encoder allowing to check the speed (rpm) of the rotating

spindles in the field of the machine tools.

**CONTROLLO CAMBIO UTENSILE**

This function is carried out by the use of an integrated

electronic control with a touch panel and a dedicated

software to achieve the best product performances.

**SCHEDA PRODUTTIVA**

The motor safety is granted by proper thermal sensors

which allow to monitor the bearing temperatures in

process. Afterwards, while the spindle is running,

Such thermal sensors are used to detect the temperatures

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CARMAGNOLA
CARIGNANO
POIRINO
CHIERI
CERESOLE
A6TO-SV
A21 TO-PC

ITALY
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