



Spindle technology
Machine spindles
Special spindles
Accessories
Service

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High speed spindles for automatic tool change Series: HC, HCS



Housing-Ø: 80 up to 380 mm
Speed: max. 90,000 rpm
Output (S1): max. 120 kW
Torque (S1): max. 450 Nm

Catalogue 2505

Motor: asynchronous or synchronous motor
Tool interface: HSK, SK, Capto
Lubrication: oil/air or permanent grease lubrication
APPLICATION: milling

High performance spindles - Special design Series: ASE, HPD, WSE, ...



Housing-Ø: according to customer's specifications
Output (S1): max. 350 kW
Torque (S1): max. 1,750 Nm

On request

Motor: asynchronous or synchronous motor
Tool interface: standardised or according to customer's specifications
Lubrication: oil/air or permanent grease lubrication
APPLICATION: workpiece spindles, test bench motor, high speed pump motor, generator for energy recovery, centrifuges

High speed spindles for manual tool change Series: UHS, HS, HV-X, HSX

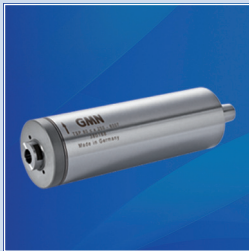


Housing-Ø: 80 up to 170 mm
Speed: max. 250,000 rpm
Output (S1): max. 33 kW
Torque (S1): max. 25.5 Nm

Catalogue 2508

Motor: asynchronous or synchronous motor
Tool interface: GMN grinding quill interface - internal taper with face contact or fitting hole with face contact
Lubrication: oil/air lubrication
APPLICATION: grinding, milling, drilling

Precision spindles for external drive Series: TSA, TSI, TSP



Housing-Ø: 20 up to 100 mm
Housing length: max. 355 mm
Speed: max. 80,000 rpm

Catalogue 2506

Tool interface: external taper, internal taper, GMN grinding quill interface - fitting hole with face contact
Bearing arrangement: spring preloaded bearing arrangement
Lubrication: permanent grease lubrication
APPLICATION: machining of small, medium and large borings

High speed spindles for manual tool change Series: HV-P, HSP, HSP.g



Housing-Ø: 100 up to 230 mm
Speed: max. 60,000 rpm
Output (S1): max. 45 kW
Torque (S1): max. 85.3 Nm

Catalogue 2508

Motor: asynchronous or synchronous motor
Tool interface: HSK-C
Lubrication: oil/air or permanent grease lubrication
APPLICATION: grinding, milling, drilling

Precision spindles for external drive Series: TSAV, TSEV

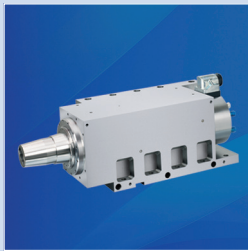


Housing-Ø: 40 up to 200 mm
Housing length: max. 1,000 mm
Speed: max. 32,000 rpm

Catalogue 2506

Tool interface: external taper
Bearing arrangement: solid bearing arrangement with rigid bearing preload
Lubrication: permanent grease lubrication
APPLICATION: machining of large, deep borings with high stiffness requirements

High performance spindles, Tool spindles Series: TSE



Housing-Ø: according to customer's specifications
Output (S1): max. 350 kW
Torque (S1): max. 1,750 Nm

On request

Motor: asynchronous or synchronous motor
Tool interface: standardised or according to customer's specifications
Tool change: manual or automatic
Lubrication: oil/air or permanent grease lubrication
APPLICATION: e. g. grinding spindles, dressing spindles, external rotor motor spindles

Accessories Service



Lubrication units PRELUB GP
Internal or external distributor for supply of maximum 4 spindles.

Cooling units
Available as desktop or stand-alone model.

GMN offers following services in spindle technology:

- Consultation
- Assembly
- Spindle analysis
- Maintenance
- Trainings