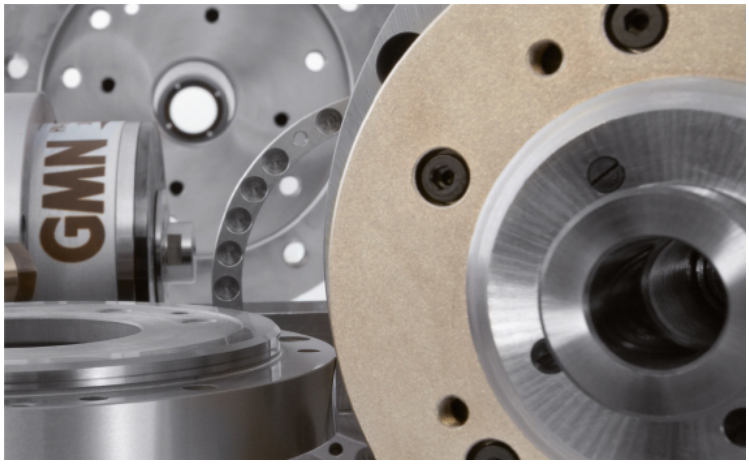
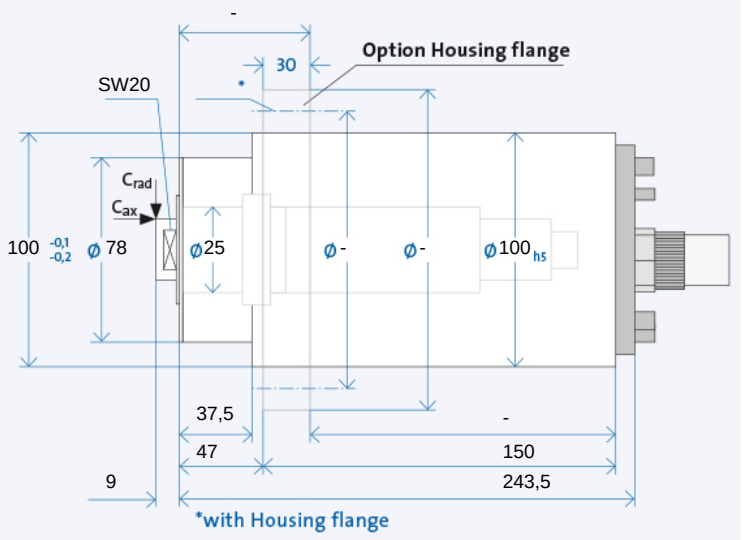
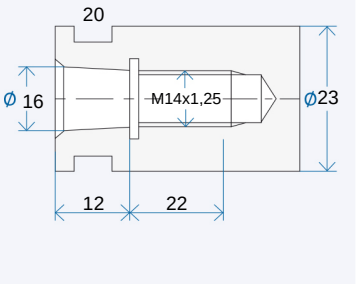
UHS 100 - 90000/5



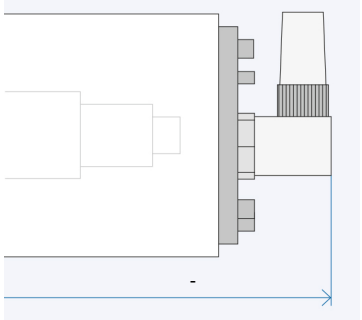
TECHNICAL DATA



INTERNAL TAPERS WITH A FLAT



ANGLED PLUG OPTION



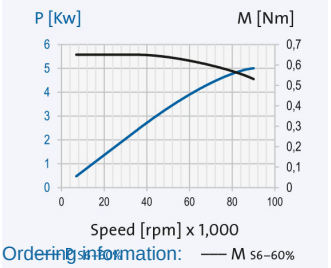
The data currently provided on the internet apply. Further and detailed information is provided in the GMN 2508 catalogue.

Technical data			UHS 100 - 90000/5		
Spindle housing-ø	A	[mm]	100		
Speed max.	n_{max}	[min^{-1}]	90000		
Bearing; front	W_1	[mm]	25		
Tool interface			U 16/23		
Flat layout-ø	W	[mm]	23		
Static rigidity					
axial	C_{ax}	[N/µm]	57		
radial	C_{rad}	[N/µm]	58		
Motor realization			200V	350V	-
Frequency max.	f_{max}	[Hz]	1500		
Converter voltage[1])		[V]	200V	350V	-
Power	P_{S1}	[kW]	4,4		
Torque	M_{S1}	[Nm]	0,467		
... at speed	n	[min^{-1}]	90000		
Current	I_{S1}	[A]	17	9,7	-
Power	$P_{S6-60\%}$	[kW]	5		
Torque	$M_{S6-60\%}$	[Nm]	0,531		
... at speed	n	[min^{-1}]	90000		
Current	$I_{S6-60\%}$	[A]	19	11	-

Electrical connection				
Plug type			B040	B040	-
Straight plug connection			+	+	-
Coil plug connector			o	o	-
Fixed cable XXm			o	o	-
Coolant feed through the shaft					
Low pressure (du)			o		
High-pressure (dh)			-		
Sensors					
Rotary encoder			-		
Speed sensor			+		
Housing					
Cylindrical housing			+		
Cylindrical housing with flange			o		
Block housing			x		
Air-tight seal			o		

[1]) Minimum required starting voltage for the frequency converter.

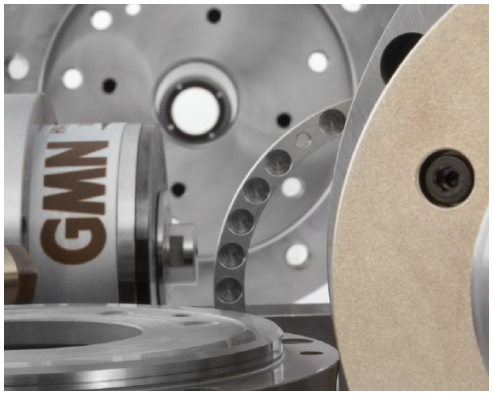
+ Standard
o Optional
x Upon request



Ordering information:
+ UHS 100 - 90000/5
R is for clockwise, L for counter-clockwise

UHS 100 - 90000/5

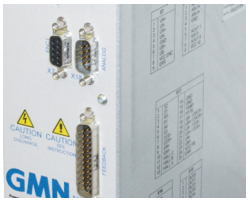
UHS 100 - 90000/5



Delivery contents

Spindles in the UHS series are basically available as a complete system. Items included in delivery are:

· Spindle
· Frequency converter (including motor throttle if needed)
· Lubrication system
· Cable (spindle - frequency converter), supply line
· Hose lines for oil-air lubrication



Frequency converter

Minimizes heating of high-rotational synchronous motors in the UHS series, which are only allowed for limited over-temperatures due to the low rotor volumes (also suitable for asynchronous motors). The required operating parameters are pre-programmed.

Lubrication system

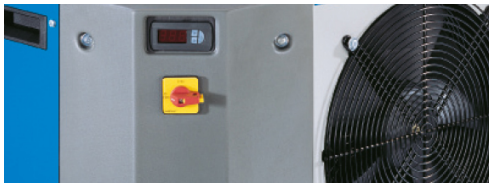
The electronically controlled PRELUB lubrication unit is optimally adapted to the oil-air lubricated GMN spindles and guarantees a long service life.

Cable and hose device

Each 5 meters long.

Also options with special lengths. Please request.

Accessories



Cooling system

GMN cooling units ensure precisely adjustable temperature and quantity delivery of the coolant and achieve consistently low operating temperatures.