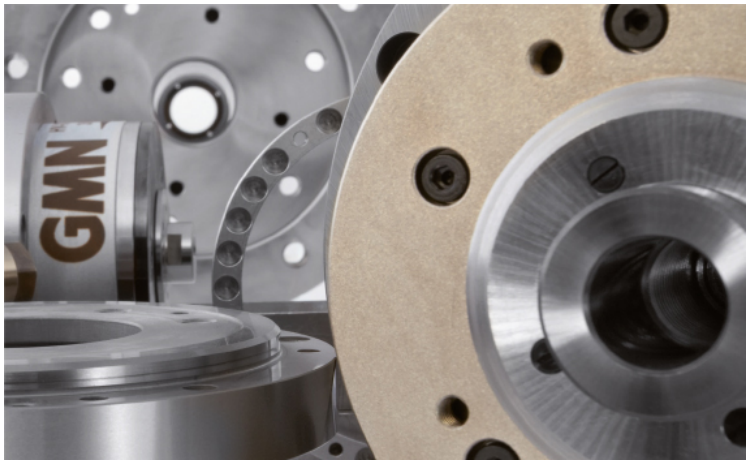
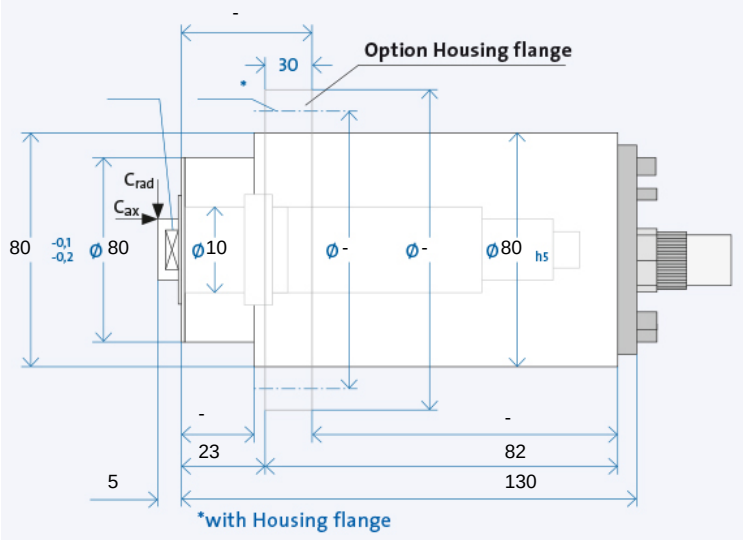
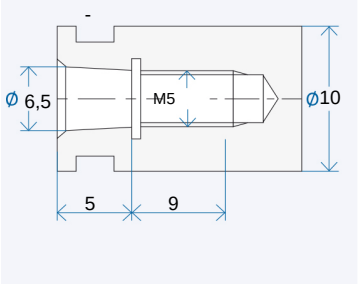
UHS 80 - 250000/0.5



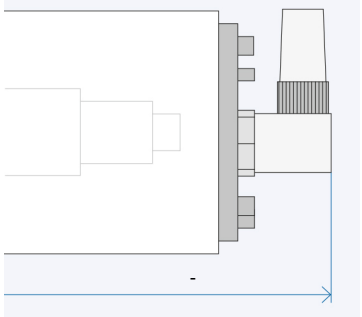
TECHNICAL DATA



INTERNAL TAPERS WITH A FLAT



ANGLED PLUG OPTION



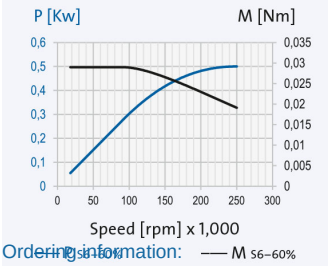
The data currently provided on the internet apply. Further and detailed information is provided in the GMN 2508 catalogue.

Technical data			UHS 80 - 250000/0.5		
Spindle housing-ø	A	[mm]	80		
Speed max.	n_{max}	[min^{-1}]	250000		
Bearing; front	W_1	[mm]	10		
Tool interface			U 6,5/10		
Flat layout-ø	W	[mm]	10		
Static rigidity					
axial	C_{ax}	[N/µm]	7		
radial	C_{rad}	[N/µm]	12		
Motor realization			200V	-	-
Frequency max.	f_{max}	[Hz]	4167		
Converter voltage[1])		[V]	200V	-	-
Power	P_{S1}	[kW]	0,45		
Torque	M_{S1}	[Nm]	0,0172		
... at speed	n	[min^{-1}]	250000		
Current	I_{S1}	[A]	2,9	-	-
Power	$P_{S6-60\%}$	[kW]	0,5		
Torque	$M_{S6-60\%}$	[Nm]	0,0191		
... at speed	n	[min^{-1}]	250000		
Current	$I_{S6-60\%}$	[A]	3,2	-	-

Electrical connection				
Plug type	B025	-	-	
Straight plug connection	+	-	-	
Coil plug connector	x	-	-	
Fixed cable XXm	x	-	-	
Coolant feed through the shaft				
Low pressure (du)	-			
High-pressure (dh)	-			
Sensors				
Rotary encoder	-			
Speed sensor	-			
Housing				
Cylindrical housing	+			
Cylindrical housing with flange	x			
Block housing	x			
Air-tight seal	+			

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

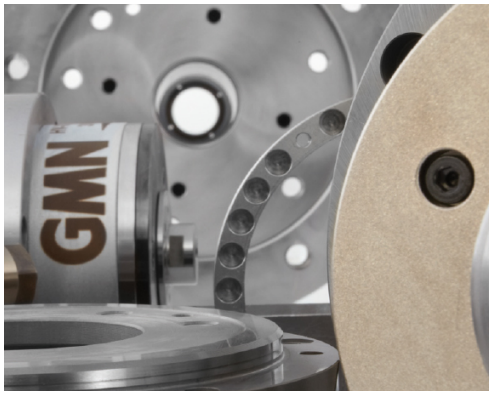
+ Standard
o Optional
x Upon request



Ordering information:
+ UHS 80 - 250000/0.5
R is for clockwise, L for counter-clockwise

UHS 80 - 250000/0.5

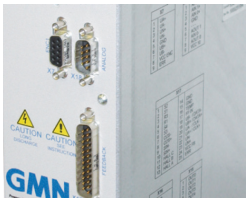
UHS 80 - 250000/0.5



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

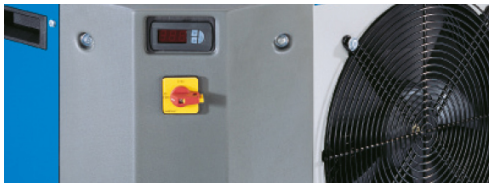
The electronically controlled PRELUB lubrication unit is optimally adapted to the oil-air lubricated GMN spindles and guarantees a long service life.

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.