

# Product data sheet

**XP+**

Low backlash planetary gearbox



Gearbox data	
Designation:	XP040S-MF2-40-1G1-2S
Gearbox type	XP+
Gearbox size	040
Design keyword	Standard
Gearbox variation	Motor attachment gearbox
Gearbox stages	2
Gearbox ratio i	40
Output design	Key
Clamping hub diameter	24 mm
Gearbox backlash	Standard
Gearbox material number	20027007

Motor mounting parts (included in delivery)	
Incl. mounting parts for servo motor	TBD
Adapter plate	Configure with provided cymex® 5 file

Order designation
XP040S-MF2-40-1G1-2S / Specify your motor P/N here

Confirm motor compatibility with cymex® 5. Download your pre-configured file and base 3D model here!<sup>d)</sup>



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Technical specifications		
Max. output torque (Depending on the specific boundary conditions of the application)	T <sub>2α</sub>	1188 Nm
Max. acceleration torque (max. 1000 cycles per hour)	T <sub>2B</sub>	990 Nm
Nominal output torque (with n <sub>IN</sub> )	T <sub>2N</sub>	607 Nm
Emergency stop torque (permitted 1000 times during the service life of the gearbox)	T <sub>2Not</sub>	2063 Nm
Nominal input speed (with T <sub>2N</sub> and 20°C ambient temperature) <sup>a)</sup>	n <sub>1N</sub>	2900 min <sup>-1</sup>
Max. input speed	n <sub>1Max</sub>	6000 min <sup>-1</sup>
Mean no load running torque (with n <sub>1</sub> =3000 min <sup>-1</sup> and 20°C gearbox temp.) <sup>b)</sup>	T <sub>012</sub>	1.3 Nm
Max. torsional backlash	j <sub>t</sub>	≤ 4 arcmin
Torsional rigidity <sup>b)</sup>	C <sub>t21</sub>	95 Nm/arcmin
Tilting rigidity	C <sub>2K</sub>	900 Nm/arcmin
Max. axial force <sup>c)</sup>	F <sub>2AMax</sub>	9000 N
Max. radial force <sup>c)</sup>	F <sub>2RMax</sub>	11500 N
Max. tilting moment	M <sub>2KMax</sub>	1635 Nm
Efficiency at full load	η	94 %
Service life (for calculation, see the Chapter "Information" in our product catalogue)	L <sub>h</sub>	> 20000 h
Weight incl. standard adapter plate	m	16.5 kg
Operating noise (with n <sub>1</sub> =3000 min <sup>-1</sup> no load)	L <sub>PA</sub>	≤ 58 dB(A)
Max. permitted housing temperature		90 °C
Ambient temperature		-15 °C to 40 °C
Lubrication		lubricated for life
Paint		Innovation blue
Protection class		IP 65
Inertia (relates to the drive)	J <sub>1</sub>	2.11 kgcm <sup>2</sup>

a) For higher ambient temperatures, please reduce input speed

b) Depends on clamping hub diameter

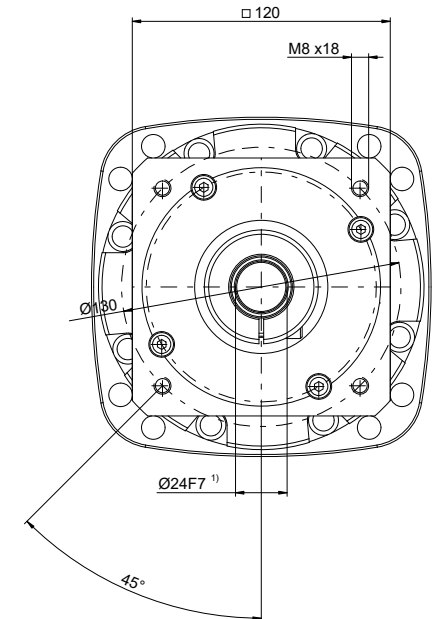
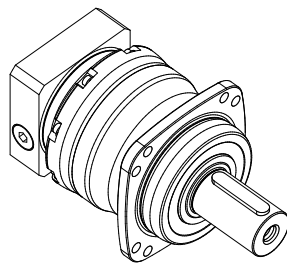
c) Refers to center of the output shaft or flange



d) Use cymex® 5 to confirm adapter plate dimensions and motor compatibility

New to cymex® 5? Learn how to check motor compatibility quickly with a simple tutorial.



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gez/draft		 Massstab Scale <b>auto</b>	 <b>WITTGENSTEIN</b>	<b>alpha</b>
Datum/date				
Eigentumsvorbehalt nach                      Observe copyright note DIN 34 beachten !                      according to DIN 34 !				
Benenn. <b>XP 040S-MF2- 40-1G1-2S</b> Descr.				
Kommentar <b>Motor specified by user - compatibility check required</b> Note				
MN	20027007	DIN A3	Urspr./Ref-Drwg:	CAD-Generator V2.0 Blatt/Sheet: 1

nicht vertraulich

Blatt/Sheet: 1