

CP – Economical entry-level model

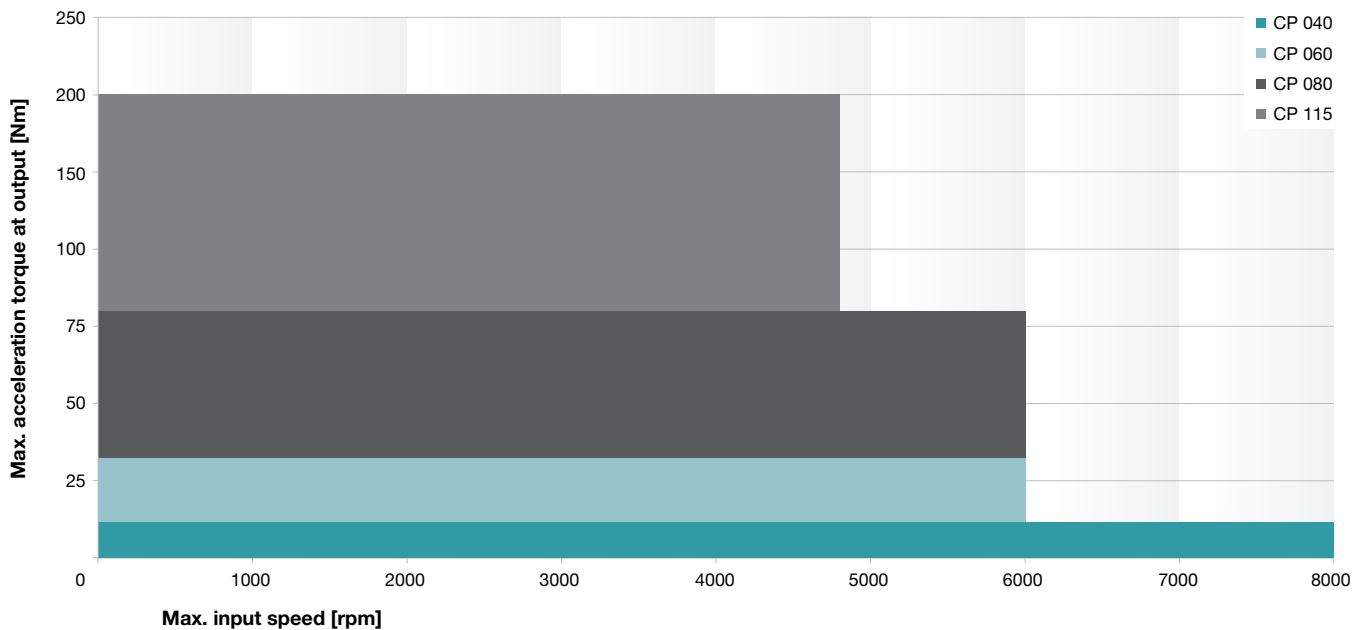


The low backlash planetary gearhead with output shaft. This economical entry level model is suitable for simple applications. The CP impresses through its quality, availability, and reliability.

Quick size selection

CP (example for $i = 5$)

For applications in cyclic operation ($DC \leq 60\%$) or continuous operation ($DC \geq 60\%$)



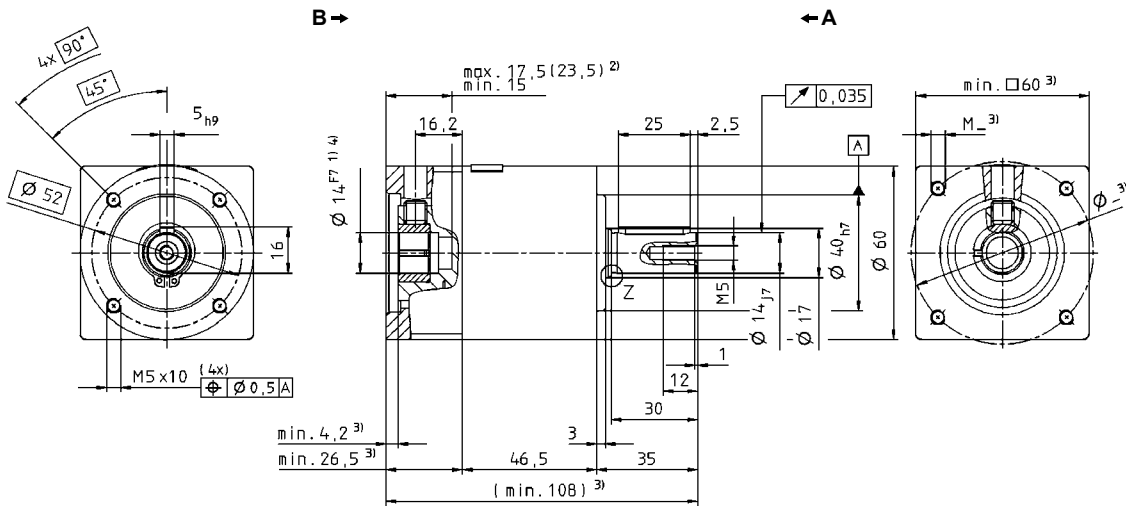
CP 060 1/2-stage

		1-stage					2-stage									
Ratio	<i>i</i>	4	5	7	8	10	16	20	25	35	50	64	70	100		
Max. acceleration torque (max. 1000 cycles per hour)	T_{2B}	Nm	32	32	32	29	29	32	32	32	32	29	32	29		
		in.lb	283	283	283	257	257	283	283	283	283	283	257	283		
Nominal output torque (with n_m)	T_{2N}	Nm	16	16	16	15	15	16	16	16	16	16	15	16		
		in.lb	142	142	142	133	133	142	142	142	142	142	133	142		
Emergency stop torque (permitted 1000 times during the service life of the gearhead)	T_{2Not}	Nm	75	75	75	75	75	75	75	75	75	75	75	75		
		in.lb	664	664	664	664	664	664	664	664	664	664	664	664		
Nominal input speed (with T_{2N} and 20°C ambient temperature) ^{a)}	n_{1N}	rpm	3700	3700	3700	3700	3700	3700	3700	3700	3700	3700	3700	3700		
Max. input speed	n_{1Max}	rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000		
Mean no load running torque (with $n_1=3000$ rpm and 20°C gearhead temperature)	T_{012}	Nm	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11		
		in.lb	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97		
Max. torsional backlash	j_t	arcmin	≤ 20					≤ 25								
Torsional rigidity	C_{t21}	Nm/ arcmin	2.1	2.1	2.1	1.9	1.9	2.1	2.1	2.1	2.1	2.1	1.9	2.1		
		in.lb/ arcmin	19	19	19	17	17	19	19	19	19	19	17	19		
Max. axial force ^{b)}	F_{2AMax}	N	750					750								
		lb _f	169					169								
Max. radial force ^{b)}	F_{2RMax}	N	650					650								
		lb _f	146					146								
Efficiency at full load	η	%	97					95								
Service life (For calculation, see the Chapter "Information")	L_n	h	> 20000					> 20000								
Weight incl. standard adapter plate	<i>m</i>	kg	0.88					1.1								
		lb _m	1.9					2.4								
Operating noise (with $n_1=3000$ rpm no load)	L_{PA}	dB(A)	≤ 68													
Max. permitted housing temperature	°C		+90													
	F		194													
Ambient temperature	°C		-15 to +40													
	F		5 to 104													
Lubrication	Lubricated for life															
Paint	Aluminum															
Direction of rotation	Motor and gearhead same direction															
Protection class	IP 64															
Moment of inertia (relates to the drive)	J_i	kgcm ²	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17		
		10 ⁻³ in.lb.s ²	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		

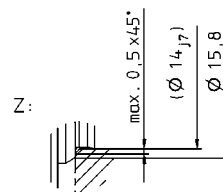
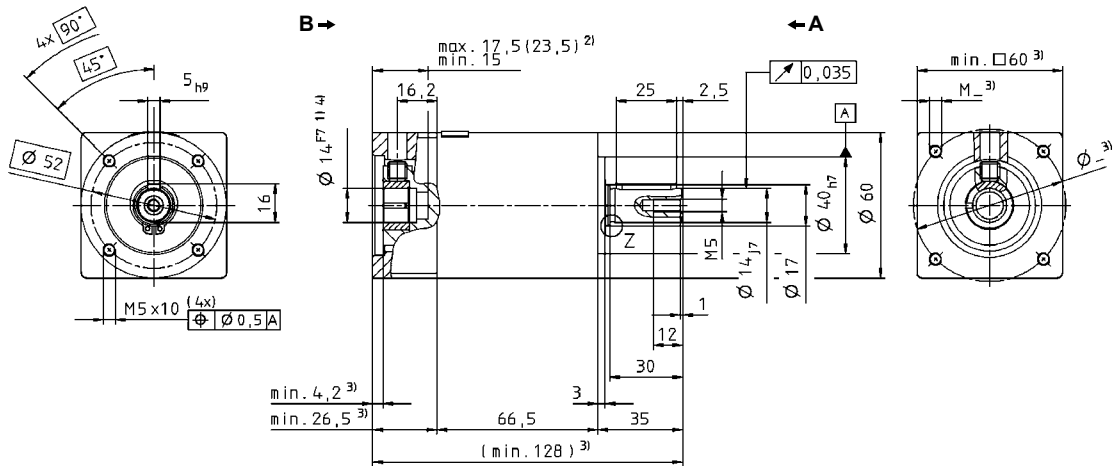
^{a)} For higher ambient temperatures, please reduce input speed

^{b)} Relates to center of the output shaft or flange, at 100 rpm

1-stage:



2-stage:



Non-tolerated dimensions ±1mm

- 1) Check motor shaft fit.
- 2) Min./Max. permissible motor shaft length. Longer motor shafts are adaptable, please contact us.
- 3) The dimensions depend on the motor.
- 4) Smaller motor shaft diameter is compensated by a bushing.

CAD data is available under www.wittenstein-alpha.com

Motor mounting according to operating manual