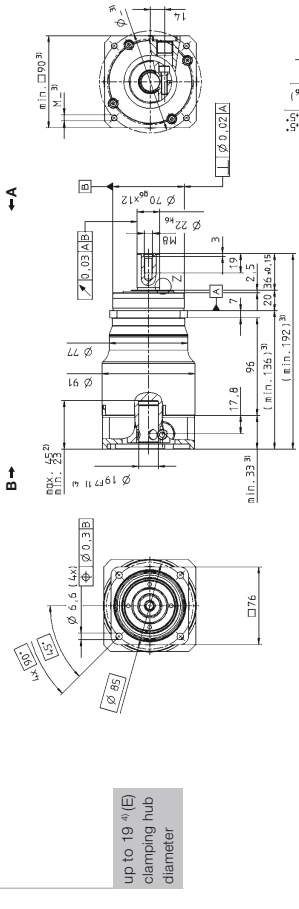
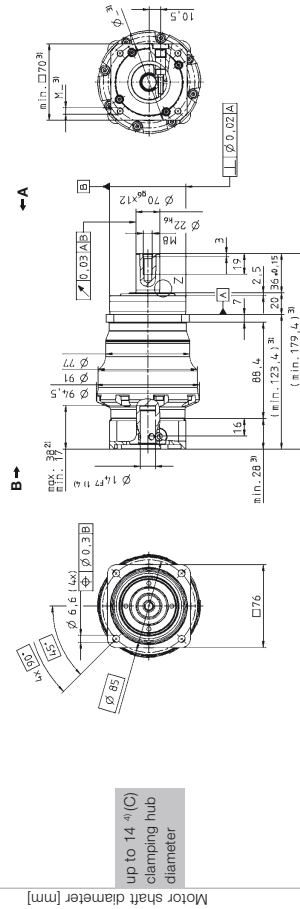
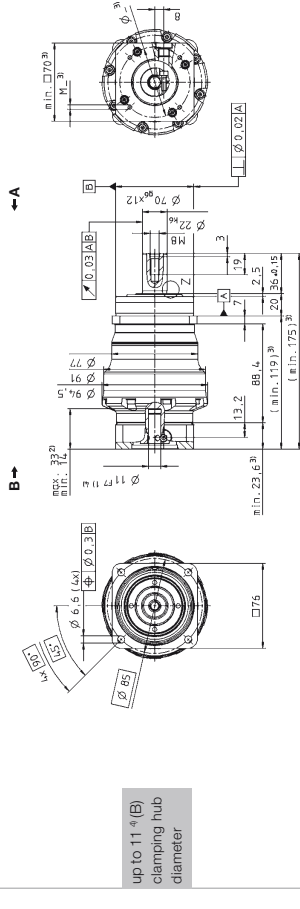


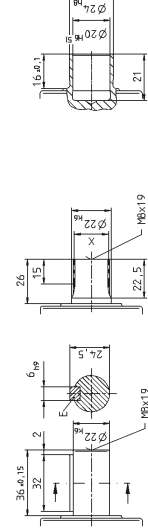
		2-stage									
Ratio ^{a)}	i	16	20	25	28	35	40	50	70	100	
Cymex [®] -optimized acceleration torque (please contact us regarding this design)	T _{dyn} Nm in lb	142 1254	142 1254	160 1416	142 1254	160 1416	135 1195	160 1416	142 1254	100 883	
Max. acceleration torque (max. 1000 cycles per hour)	T _{acc} Nm in lb	110 974	110 974	110 974	110 974	110 974	110 974	110 974	110 974	90 797	
Nominal output torque (with n ₀)	T _N Nm in lb	75 664	75 664	75 664	75 664	75 664	75 664	75 664	75 664	52 450	
Emergency stop torque (permitted 1000 times during the service life of the gearbox)	T _{stop} Nm in lb	250 2213	250 2213	250 2213	250 2213	250 2213	250 2213	250 2213	250 2213	200 1770	
Nominal input speed (with T _N and 20°C ambient temperature) ^{b)}	n _N rpm	3500	3500	3500	3500	3500	3500	3500	3500	4500	
Max. input speed	n _{max} rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000	
Mean no load running torque (with n ₀ = 3000 rpm and 20°C gearbox temperature) ^{c)}	T _{0r2} Nm in lb	0.8 4.4	0.6 3.5	0.6 3.5	0.5 2.7	0.4 2.7	0.4 1.8	0.3 1.8	0.3 1.8	0.3 1.8	
Max. torsional backlash	j _t	Standard ≤ 6 / Reduced ≤ 4									
Torsional rigidity	C _{dr}	New series 89									
Max. axial force ^{d)}	F _{ax}	3350									
Max. radial force ^{d)}	F _{rad}	754									
Max. tilting moment	M _{tilt}	236									
Efficiency at full load	η	2089									
Service life (For calculation, see the Chapter "Information")	L _n	h									
Weight incl. standard adapter plate	m	kg lb									
Operating noise (with n = 100 and n ₀ = 3000 rpm no load)	L _{wa}	dB(A)									
Max. permitted housing temperature		°C									
Ambient temperature		°C									
Lubrication		F									
Paint		Blue RAL 5002									
Direction of rotation		Motor and gearhead same direction									
Protection class		IP 65									
Moment of inertia (please to the drive) Clamping hub diameter [mm]	B	J _B	0.16	0.13	0.10	0.091	0.081	0.080	0.079	0.088	
	C	J _C	0.14	0.11	0.092	0.080	0.081	0.080	0.079	0.079	
	E	J _E	0.23	0.20	0.20	0.18	0.17	0.16	0.16	0.16	
	F	J _F	0.20	0.18	0.18	0.16	0.15	0.15	0.14	0.14	
Reduced mass moments of inertia available on request.	E	J _E	0.55	0.53	0.52	0.50	0.49	0.49	0.49	0.49	
	F	J _F	0.49	0.47	0.46	0.44	0.43	0.43	0.43	0.43	

^{a)} Other ratios available on request
^{b)} For higher ambient temperatures, please reduce input speed
^{c)} Valid for clamping hub diameter of 14 mm
^{d)} Refers to centre of the output shaft or flange



Alternatives: Output shaft variants

Involute gearing DIN 5480 in mm
X = W 22 A 1.25 x 3.5 x 15 5mm, DIN 5480
Shaft mounted
Mounted via ISO shrink disc



- 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 with a minimum thickness of 1 mm.
- 5) Tolerance h6 for mounted shaft.

Motor mounting according to operating manual