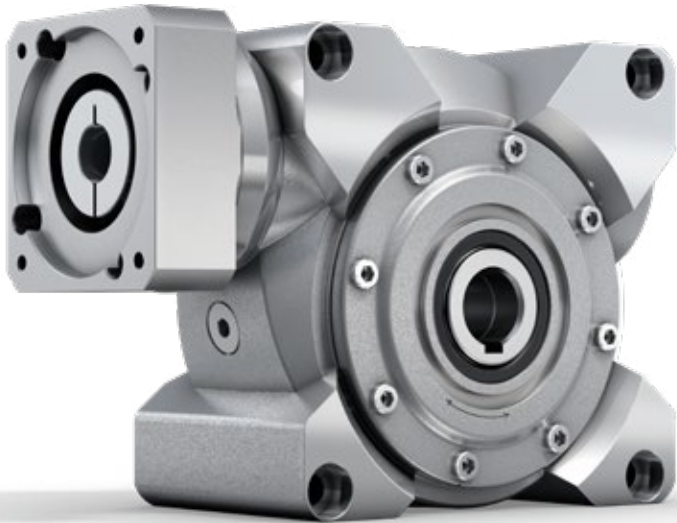


CVH / CVS – We drive the Performance

CVH



The V-Drive Basic is characterized by a specially developed toothing that minimizes operating noise during S1 operation and offers enormous power. And all with a top price/performance ratio.

PRODUCT HIGHLIGHTS



Optimized output bearings

The V-Drive Basic features an optimized output bearing tailored to the most diverse areas of application. For increased requirements for the absorption of external forces, the reinforced bearing option is used.



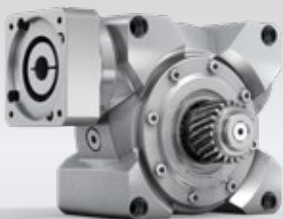
Specially developed toothing

The operating noise during S1 operation has been minimized by means of a specially developed toothing featuring high torques, good synchronization, and very low operating noise.

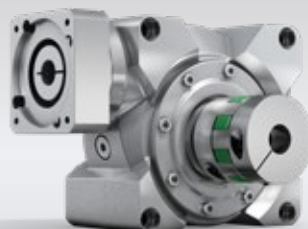


Top price/performance ratio

A top price/performance ratio is achieved with short delivery times and "made in Germany" quality.



CVS – worm gearbox with pinion



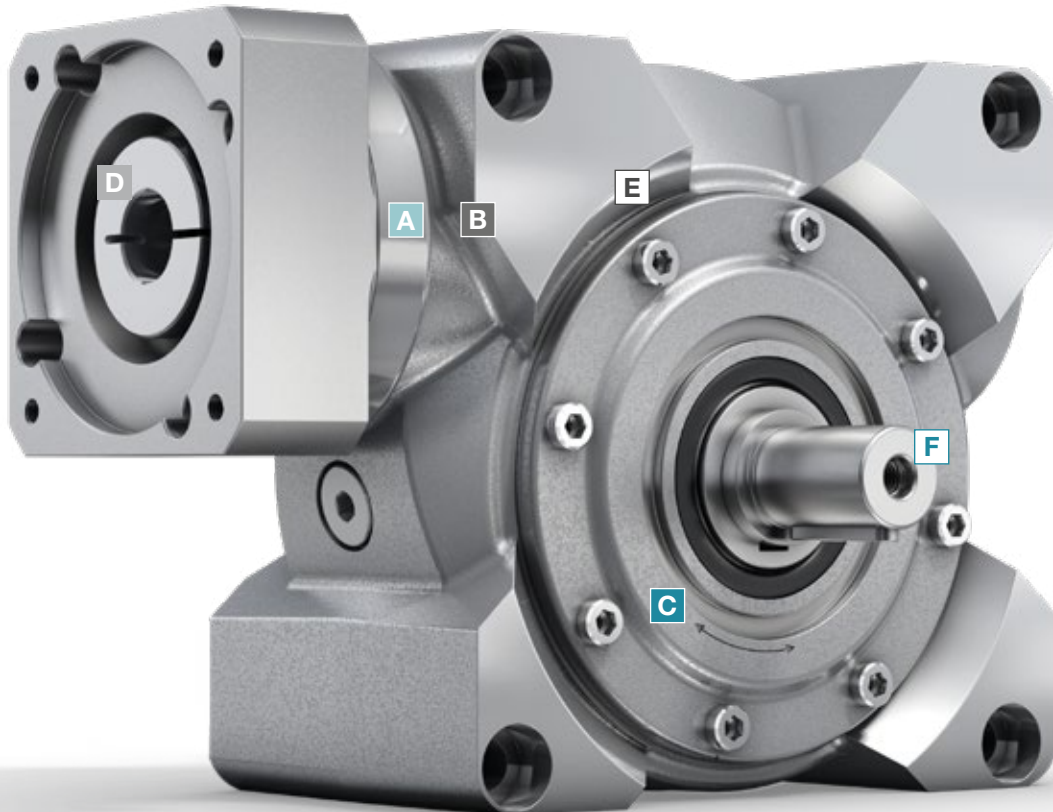
CVS – worm gearbox with elastomer coupling



cymex® select
BEST SOLUTION WITHIN SECONDS

Efficient gearbox sizing within seconds –
online without login
cymex-select.wittenstein-group.com

CVS



- A Radial shaft seal**
- Very long service life
 - Optimized for continuous operation

- B Input bearing**
- Bearing package to absorb axial and radial forces
 - Very well suited to high input speeds

- C Output bearing**
- Tailored to the most diverse areas of application

- D Metal bellows coupling**
- Completely backlash free
 - Lifetime durable and maintenance free
 - Easy assembly
 - Protects the motor through thermal linear expansion compensation

- E Toothing**
- Specially developed toothing, for high torques, good synchronization, and low operating noise

- F Multiple output configurations for greater flexibility**
- Hollow shaft interface
 - Keyed hollow shaft
 - Output on both sides
 - Smooth shaft
 - Shaft with key

CVH 040 MF 1- stage

			1-stage					
Ratio	<i>i</i>		7	10	16	28	40	
Max. torque ^{a) b)} (at n ₁ = 500 rpm)	<i>T</i> _{2a}	Nm	68	76	78	82	76	
		in.lb	602	673	690	726	673	
Emergency stop torque ^{a) b)} (permitted 1000 times during the service life of the gearbox)	<i>T</i> _{2Not}	Nm	126	125	129	134	122	
		in.lb	1115	1106	1142	1186	1080	
Permitted average input speed ^{d)} (at 20 °C ambient temperature)	<i>n</i> _{1N}	rpm	4000					
Max. input speed	<i>n</i> _{1Max}	rpm	6000					
Mean no load running torque ^{b)} (at n ₁ = 3000 rpm and 20 °C gearbox temperature)	<i>T</i> ₀₁₂	Nm	0.7	0.6	0.5	0.4	0.4	
		in.lb	6.2	5.3	4.4	3.5	3.5	
Max. backlash	<i>j</i> _t	arcmin	≤ 15					
Torsional rigidity ^{b)}	<i>C</i> _{t21}	Nm/arcmin	3.5	3.5	3.5	3.5	3.5	
		in.lb/arcmin	31	31	31	31	31	
Max. axial force ^{c)} (Standard / HIGH FORCES)	<i>F</i> _{2AMax}	N	1200 / 3000					
		lb _f	270 / 675					
Max. lateral force ^{b)} (Standard / HIGH FORCES)	<i>F</i> _{2QMax}	N	1000 / 2400					
		lb _f	225 / 540					
Max. tilting moment (Standard / HIGH FORCES)	<i>M</i> _{2KMax}	Nm	97 / 205					
		in.lb	858 / 1814					
Efficiency at full load (at n ₁ = 500 rpm)	<i>η</i>	%	89	87	81	72	66	
Service life	<i>L</i> _h	h	> 15000					
Weight (incl. standard adapter plate)	<i>m</i>	kg	4.5					
		lb _m	10					
Operating noise (at reference ratio and reference speed – ratio-specific values available in cymex®)	<i>L</i> _{PA}	dB(A)	≤ 54					
Max. permitted housing temperature		°C	+90					
		°F	+194					
Ambient temperature		°C	–15 to +40					
		°F	+5 to +104					
Lubrication			Lubricated for life					
Direction of rotation			See drawing					
Protection class			IP 65					
Shrink disc (Standard Version)			SD 024x050 S2					
Max. torque (without axial force)	<i>T</i> _{max}	Nm	250					
		in.lb	2213					
Mass moment of inertia (relates to the drive) Clamping hub diameter [mm]	C 14	<i>J</i> _I	kgcm ²	0.42	0.39	0.37	0.36	0.35
			10 ⁻³ in.lb.s ²	0.37	0.35	0.33	0.32	0.31
	E 19	<i>J</i> _I	kgcm ²	0.74	0.70	0.68	0.68	0.67
			10 ⁻³ in.lb.s ²	0.65	0.62	0.6	0.6	0.59

Please use our sizing software cymex[®] for a detailed sizing – www.wittenstein-cymex.com

^{a)} At max. 10 % F_{2QMax}

^{b)} Valid for standard clamping hub diameter

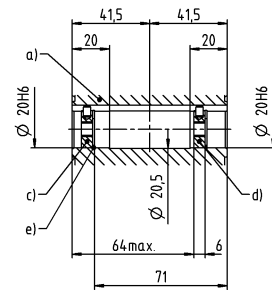
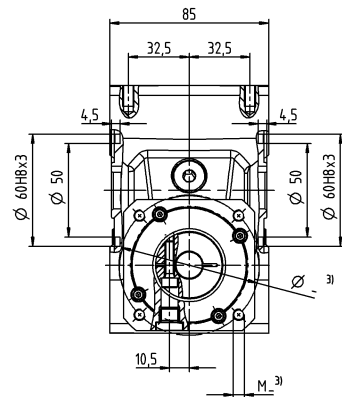
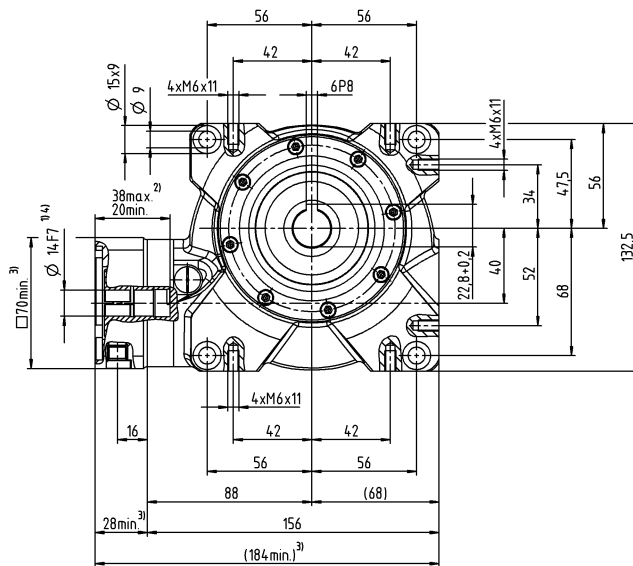
^{c)} Refers to center of the output shaft or flange

^{d)} Please reduce input speed at higher ambient temperatures

Motor shaft diameter [mm]

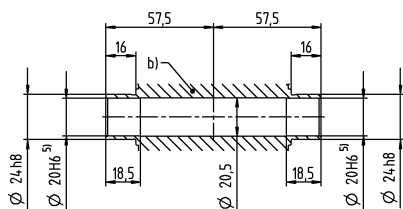
1-stage

up to 14/19 ⁴⁾ (C ⁶⁾/E)
clamping hub
diameter



Other output variants

Hollow shaft interfaces on both sides



- a) Hollow shaft, keyed on both sides
- b) Hollow shaft interfaces on both sides
- c) End disc for screw M6 (on request)
- d) End disc as forcing washer for screw M8 (on request)
- e) Locking ring – DIN 472 (on request)

See technical data sheet for available clamping hub diameters (mass moment of inertia). Dimensions available on request.

Non-tolerated dimensions are nominal dimensions

- 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 wall thickness of 1 mm
- ⁵⁾ Tolerance h6 for mounted shaft
- ⁶⁾ Standard clamping hub diameter

CVH 050 MF 1- stage

			1-stage					
Ratio	<i>i</i>		7	10	16	28	40	
Max. torque ^{a) b)} (at n ₁ = 500 rpm)	<i>T</i> _{2a}	Nm	125	127	131	140	116	
		in.lb	1106	1124	1159	1239	1027	
Emergency stop torque ^{a) b)} (permitted 1000 times during the service life of the gearbox)	<i>T</i> _{2Not}	Nm	242	242	250	262	236	
		in.lb	2142	2142	2213	2319	2089	
Permitted average input speed ^{d)} (at 20 °C ambient temperature)	<i>n</i> _{1N}	rpm	4000					
Max. input speed	<i>n</i> _{1Max}	rpm	6000					
Mean no load running torque ^{b)} (at n ₁ = 3000 rpm and 20 °C gearbox temperature)	<i>T</i> ₀₁₂	Nm	2.2	1.6	1.5	1.2	1.1	
		in.lb	19.5	14.2	13.3	10.6	9.7	
Max. backlash	<i>j</i> _t	arcmin	≤ 15					
Torsional rigidity ^{b)}	<i>C</i> _{t21}	Nm/arcmin	5.5	5.5	5.5	5.5	5.5	
		in.lb/arcmin	49	49	49	49	49	
Max. axial force ^{c)} (Standard / HIGH FORCES)	<i>F</i> _{2AMax}	N	1500 / 5000					
		lb _f	337.5 / 1125					
Max. lateral force ^{b)} (Standard / HIGH FORCES)	<i>F</i> _{2QMax}	N	1200 / 3800					
		lb _f	270 / 855					
Max. tilting moment (Standard / HIGH FORCES)	<i>M</i> _{2KMMax}	Nm	130 / 409					
		in.lb	1150 / 3620					
Efficiency at full load (at n ₁ = 500 rpm)	<i>η</i>	%	89	85	80	70	63	
Service life	<i>L</i> _h	h	> 15000					
Weight (incl. standard adapter plate)	<i>m</i>	kg	8					
		lb _m	18					
Operating noise (at reference ratio and reference speed – ratio-specific values available in cymex®)	<i>L</i> _{PA}	dB(A)	≤ 62					
Max. permitted housing temperature		°C	+90					
		°F	+194					
Ambient temperature		°C	–15 to +40					
		°F	+5 to +104					
Lubrication			Lubricated for life					
Direction of rotation			See drawing					
Protection class			IP 65					
Shrink disc (Standard Version)			SD 030x060 S2V					
Max. torque (without axial force)	<i>T</i> _{max}	Nm	550					
		in.lb	4868					
Mass moment of inertia (relates to the drive) Clamping hub diameter [mm]	E 19	<i>J</i> ₁	kgcm ²	1.2	1.1	1.0	0.97	1.0
			10 ⁻³ in.lb.s ²	1.1	0.97	0.89	0.86	0.89
	G 24	<i>J</i> ₁	kgcm ²	1.3	1.2	1.1	1.1	1.2
			10 ⁻³ in.lb.s ²	1.2	1.1	0.97	0.97	1.1

Please use our sizing software cymex[®] for a detailed sizing – www.wittenstein-cymex.com

^{a)} At max. 10 % F_{2QMax}

^{b)} Valid for standard clamping hub diameter

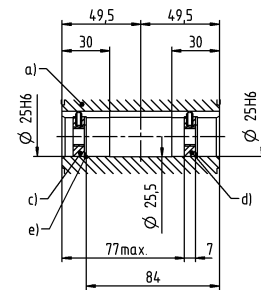
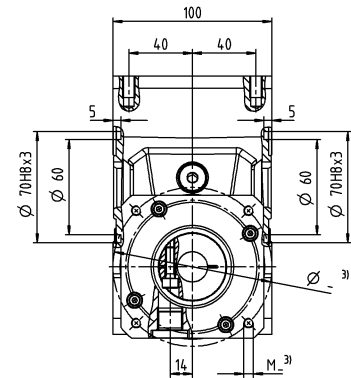
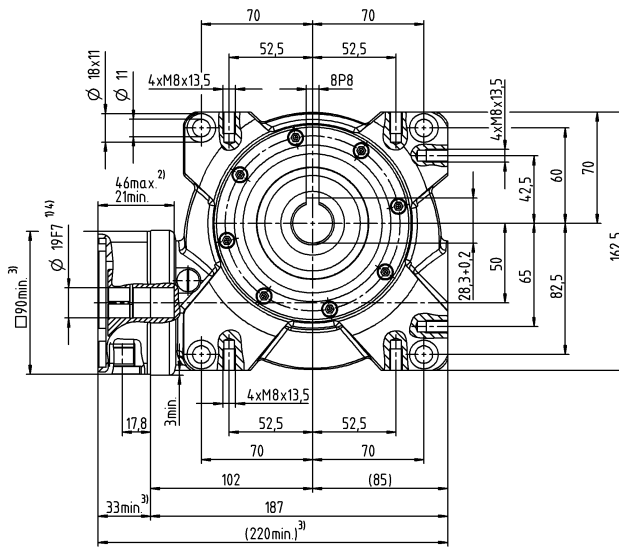
^{c)} Refers to center of the output shaft or flange

^{d)} Please reduce input speed at higher ambient temperatures

Motor shaft diameter [mm]

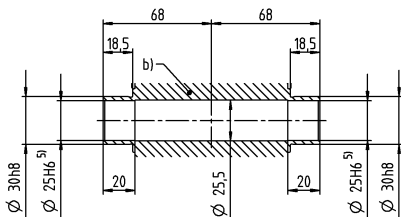
1-stage

up to 19/24⁴⁾ (E⁶⁾/G)
clamping hub
diameter



Other output variants

Hollow shaft interfaces on both sides



- a) Hollow shaft, keyed on both sides
- b) Hollow shaft interfaces on both sides
- c) End disc for screw M10 (on request)
- d) End disc as forcing washer for screw M12 (on request)
- e) Locking ring – DIN 472 (on request)

See technical data sheet for available clamping hub diameters (mass moment of inertia). Dimensions available on request.

Non-tolerated dimensions are nominal dimensions

- 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 wall thickness of 1 mm
- ⁵⁾ Tolerance h6 for mounted shaft
- ⁶⁾ Standard clamping hub diameter

CVH 063 MF 1- stage

			1-stage				
Ratio	<i>i</i>		7	10	16	28	40
Max. torque ^{a) b)} (at $n_1 = 500$ rpm)	T_{2a}	Nm	265	270	280	301	282
		in.lb	2345	2390	2478	2664	2496
Emergency stop torque ^{a) b)} (permitted 1000 times during the service life of the gearbox)	T_{2Not}	Nm	484	491	494	518	447
		in.lb	4283	4345	4372	4584	3956
Permitted average input speed ^{d)} (at 20 °C ambient temperature)	n_{1N}	rpm	4000				
Max. input speed	n_{1Max}	rpm	4500				
Mean no load running torque ^{b)} (at $n_1 = 3000$ rpm and 20 °C gearbox temperature)	T_{012}	Nm	3.1	3	2.4	2.3	2.2
		in.lb	27.4	26.6	21.2	20.4	19.5
Max. backlash	j_t	arcmin	≤ 15				
Torsional rigidity ^{b)}	C_{t21}	Nm/arcmin	23	23	23	23	23
		in.lb/arcmin	204	204	204	204	204
Max. axial force ^{c)} (Standard / HIGH FORCES)	F_{2AMax}	N	2000 / 8250				
		lb _f	450 / 1856				
Max. lateral force ^{b)} (Standard / HIGH FORCES)	F_{2QMax}	N	2000 / 6000				
		lb _f	450 / 1350				
Max. tilting moment (Standard / HIGH FORCES)	M_{2KMax}	Nm	281 / 843				
		in.lb	2487 / 7461				
Efficiency at full load (at $n_1 = 500$ rpm)	η	%	90	87	82	73	67
Service life	L_h	h	> 15000				
Weight (incl. standard adapter plate)	m	kg	13				
		lb _m	29				
Operating noise (at reference ratio and reference speed – ratio-specific values available in cymex [®])	L_{PA}	dB(A)	≤ 64				
Max. permitted housing temperature		°C	+90				
		°F	+194				
Ambient temperature		°C	-15 to +40				
		°F	+5 to +104				
Lubrication			Lubricated for life				
Direction of rotation			See drawing				
Protection class			IP 65				
Shrink disc (Standard Version)			SD 036x072 S2V				
Max. torque (without axial force)	T_{max}	Nm	640				
		in.lb	5664				
Mass moment of inertia (relates to the drive) Clamping hub diameter [mm]	H 28 J_1	kgcm ²	4.0	3.8	3.7	3.6	3.6
		10 ⁻³ in.lb.s ²	3.5	3.4	3.3	3.2	3.2

Please use our sizing software cymex[®] for a detailed sizing – www.wittenstein-cymex.com

^{a)} At max. 10 % F_{2QMax}

^{b)} Valid for standard clamping hub diameter

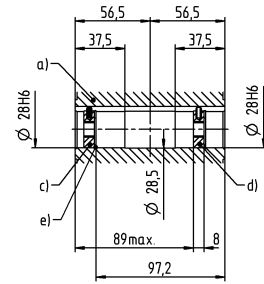
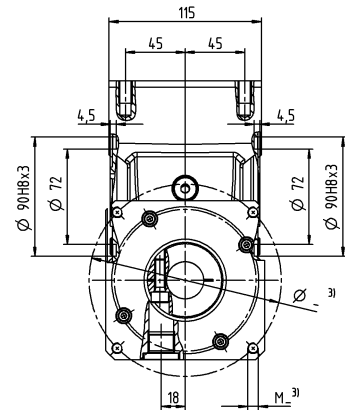
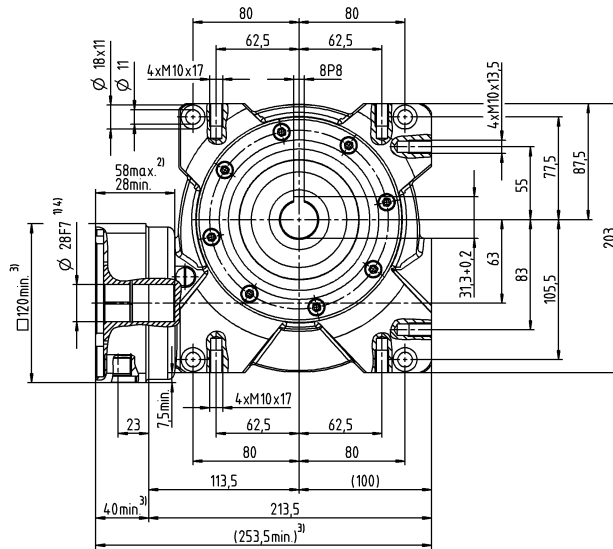
^{c)} Refers to center of the output shaft or flange

^{d)} Please reduce input speed at higher ambient temperatures

Motor shaft diameter [mm]

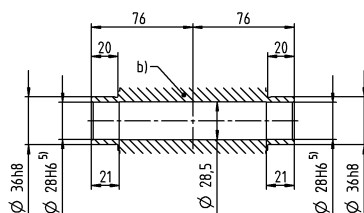
1-stage

up to 28 ⁴⁾ (H) ⁶⁾
clamping hub
diameter



Other output variants

Hollow shaft interfaces on both sides



- a) Hollow shaft, keyed on both sides
- b) Hollow shaft interfaces on both sides
- c) End disc for screw M10 (on request)
- d) End disc as forcing washer for screw M12 (on request)
- e) Locking ring – DIN 472 (on request)

See technical data sheet for available clamping hub diameters (mass moment of inertia). Dimensions available on request.

Non-tolerated dimensions are nominal dimensions

- 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 wall thickness of 1 mm
- ⁵⁾ Tolerance h6 for mounted shaft
- ⁶⁾ Standard clamping hub diameter

CVS 040 MF 1-stage

				1-stage				
Ratio	<i>i</i>			7	10	16	28	40
Max. torque ^{a) b) e)} (at $n_1 = 500$ rpm)	T_{2a}	Nm		68	76	78	82	76
		in.lb		602	673	690	726	673
Emergency stop torque ^{a) b) e)} (permitted 1000 times during the service life of the gearbox)	T_{2Not}	Nm		126	125	129	134	122
		in.lb		1115	1106	1142	1186	1080
Permitted average input speed ^{d)} (at 20 °C ambient temperature)	n_{1N}	rpm		4000				
Max. input speed	n_{1Max}	rpm		6000				
Mean no load running torque ^{b)} (at $n_1 = 3000$ rpm and 20 °C gearbox temperature)	T_{012}	Nm		0.7	0.6	0.5	0.4	0.4
		in.lb		6.2	5.3	4.4	3.5	3.5
Max. backlash	j_t	arcmin		≤ 15				
Torsional rigidity ^{b)}	C_{t21}	Nm/arcmin		3.5	3.5	3.5	3.5	3.5
		in.lb/arcmin		31	31	31	31	31
Max. axial force ^{c)} (Standard / HIGH FORCES)	F_{2AMax}	N		1200 / 3000				
		lb _f		270 / 675				
Max. lateral force ^{b)} (Standard / HIGH FORCES)	F_{2QMax}	N		1000 / 2400				
		lb _f		225 / 540				
Max. tilting moment (Standard / HIGH FORCES)	M_{2KMax}	Nm		97 / 205				
		in.lb		858 / 1814				
Efficiency at full load (at $n_1 = 500$ rpm)	η	%		89	87	81	72	66
Service life	L_h	h		> 15000				
Weight (incl. standard adapter plate)	m	kg		4.5				
		lb _m		10				
Operating noise (at reference ratio and reference speed – ratio-specific values available in cymex®)	L_{PA}	dB(A)		≤ 54				
Max. permitted housing temperature		°C		+90				
		°F		+194				
Ambient temperature		°C		-15 to +40				
		°F		+5 to +104				
Lubrication				Lubricated for life				
Direction of rotation				See drawing				
Protection class				IP 65				
Elastomer coupling (recommended product type – validate sizing with cymex®)				ELC - 00060B - 016.000 - X				
Bore diameter of coupling on the application side		mm		X = 016.000 - 032.000				
Mass moment of inertia (relates to the drive) Clamping hub diameter [mm]	C 14	J_1	kgcm ²	0.42	0.39	0.37	0.36	0.35
			10 ⁻³ in.lb.s ²	0.37	0.35	0.33	0.32	0.31
	E 19	J_1	kgcm ²	0.74	0.70	0.68	0.68	0.67
			10 ⁻³ in.lb.s ²	0.65	0.62	0.60	0.6	0.59

Please use our sizing software cymex® for a detailed sizing – www.wittenstein-cymex.com

^{a)} At max. 10 % F_{2QMax}

^{b)} Valid for standard clamping hub diameter

^{c)} Refers to center of the output shaft or flange

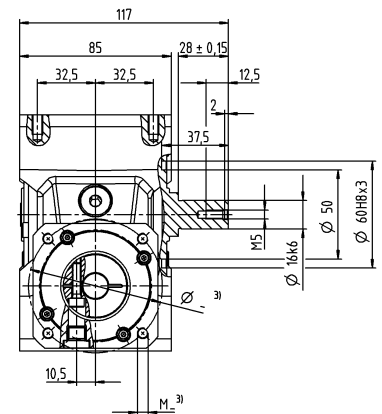
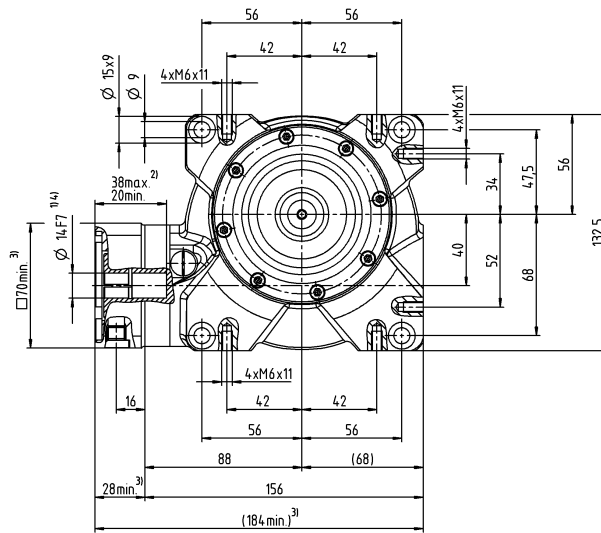
^{d)} Please reduce input speed at higher ambient temperatures

^{e)} Valid for: Smooth shaft

Motor shaft diameter [mm]

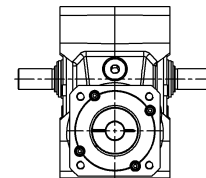
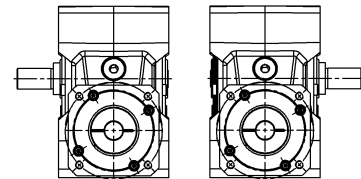
1-stage

up to 14/19 ⁴⁾ (C ⁶⁾/E)
clamping hub
diameter



A ⁵⁾

B ⁵⁾

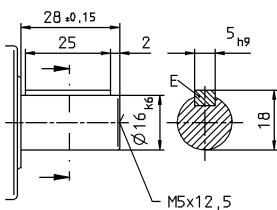


Worm Gearboxes
Basic Line

Optional dual-shaft output. Drawings available on request.
Involute gearing is not possible.

Other output variants

Shaft with key



See technical data sheet for available clamping hub diameters
(mass moment of inertia). Dimensions available on request.

Non-tolerated dimensions are nominal dimensions

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 wall thickness of 1 mm

⁵⁾ Output side

⁶⁾ Standard clamping hub diameter

CVS 050 MF 1-stage

				1-stage				
Ratio	i			7	10	16	28	40
Max. torque ^{a) b) e)} (at $n_1 = 500$ rpm)	T_{2a}	Nm		125	127	131	140	116
		in.lb		1106	1124	1159	1239	1027
Emergency stop torque ^{a) b) e)} (permitted 1000 times during the service life of the gearbox)	T_{2Not}	Nm		242	242	250	262	236
		in.lb		2142	2142	2213	2319	2089
Permitted average input speed ^{d)} (at 20 °C ambient temperature)	n_{1N}	rpm		4000				
Max. input speed	n_{1Max}	rpm		6000				
Mean no load running torque ^{b)} (at $n_1 = 3000$ rpm and 20 °C gearbox temperature)	T_{012}	Nm		2.2	1.6	1.5	1.2	1.1
		in.lb		19.5	14.2	13.3	10.6	9.7
Max. backlash	j_t	arcmin		≤ 15				
Torsional rigidity ^{b)}	C_{t21}	Nm/arcmin		5.5	5.5	5.5	5.5	5.5
		in.lb/arcmin		49	49	49	49	49
Max. axial force ^{c)} (Standard / HIGH FORCES)	F_{2AMax}	N		1500 / 5000				
		lb _f		337.5 / 1125				
Max. lateral force ^{b)} (Standard / HIGH FORCES)	F_{2QMax}	N		1200 / 3800				
		lb _f		270 / 855				
Max. tilting moment (Standard / HIGH FORCES)	M_{2KMax}	Nm		130 / 409				
		in.lb		1150 / 3620				
Efficiency at full load (at $n_1 = 500$ rpm)	η	%		89	85	80	70	63
Service life	L_h	h		> 15000				
Weight (incl. standard adapter plate)	m	kg		8				
		lb _m		18				
Operating noise (at reference ratio and reference speed – ratio-specific values available in cymex®)	L_{PA}	dB(A)		≤ 62				
Max. permitted housing temperature		°C		+90				
		°F		+194				
Ambient temperature		°C		-15 to +40				
		°F		+5 to +104				
Lubrication				Lubricated for life				
Direction of rotation				See drawing				
Protection class				IP 65				
Elastomer coupling (recommended product type – validate sizing with cymex®)				ELC - 00150B - 022.000 - X				
Bore diameter of coupling on the application side		mm		X = 022.000 - 036.000				
Mass moment of inertia (relates to the drive) Clamping hub diameter [mm]	E 19	J_1	kgcm ²	1.2	1.1	1.0	0.97	1.0
			10 ⁻³ in.lb.s ²	1.1	0.97	0.89	0.86	0.89
	G 24	J_1	kgcm ²	1.3	1.2	1.1	1.1	1.2
			10 ⁻³ in.lb.s ²	1.2	1.1	0.97	0.97	1.1

Please use our sizing software cymex® for a detailed sizing – www.wittenstein-cymex.com

^{a)} At max. 10 % F_{2QMax}

^{b)} Valid for standard clamping hub diameter

^{c)} Refers to center of the output shaft or flange

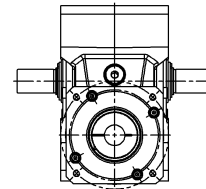
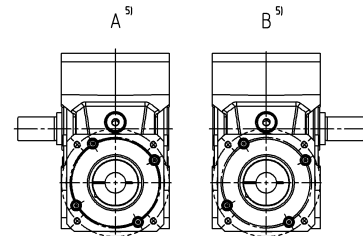
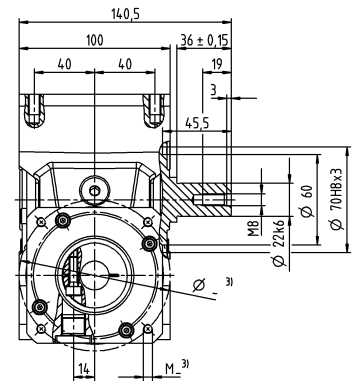
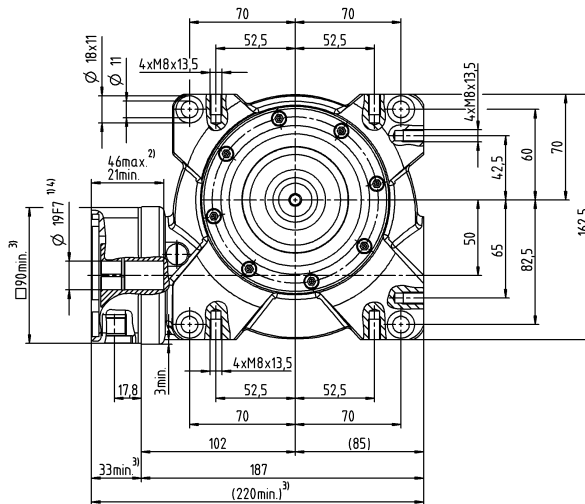
^{d)} Please reduce input speed at higher ambient temperatures

^{e)} Valid for: Smooth shaft

Motor shaft diameter [mm]

1-stage

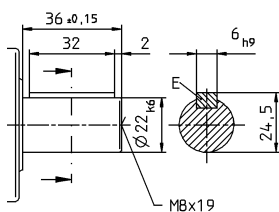
up to 19/24⁴⁾ (E⁶⁾/G)
clamping hub
diameter



Optional dual-shaft output. Drawings available on request.
Involute gearing is not possible.

Other output variants

Shaft with key



See technical data sheet for available clamping hub diameters
(mass moment of inertia). Dimensions available on request.

Non-tolerated dimensions are nominal dimensions

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 wall thickness of 1 mm

⁵⁾ Output side

⁶⁾ Standard clamping hub diameter

CVS 063 MF 1-stage

				1-stage				
Ratio	i		7	10	16	28	40	
Max. torque ^{a) b) e)} (at n_1 = 500 rpm)	T_{2a}	Nm	265	270	280	301	282	
		in.lb	2345	2390	2478	2664	2496	
Emergency stop torque ^{a) b) e)} (permitted 1000 times during the service life of the gearbox)	T_{2Not}	Nm	484	491	494	518	447	
		in.lb	4283	4345	4372	4584	3956	
Permitted average input speed ^{d)} (at 20 °C ambient temperature)	n_{1N}	rpm	4000					
Max. input speed	n_{1Max}	rpm	4500					
Mean no load running torque ^{b)} (at n_1 = 3000 rpm and 20 °C gearbox temperature)	T_{012}	Nm	3.1	3	2.4	2.3	2.2	
		in.lb	27.4	26.6	21.2	20.4	19.5	
Max. backlash	j_t	arcmin	≤ 15					
Torsional rigidity ^{b)}	C_{t21}	Nm/arcmin	23	23	23	23	23	
		in.lb/arcmin	204	204	204	204	204	
Max. axial force ^{c)} (Standard / HIGH FORCES)	F_{2AMax}	N	2000 / 8250					
		lb _f	450 / 1856					
Max. lateral force ^{b)} (Standard / HIGH FORCES)	F_{2QMax}	N	2000 / 6000					
		lb _f	450 / 1350					
Max. tilting moment (Standard / HIGH FORCES)	M_{2KMMax}	Nm	281 / 843					
		in.lb	2487 / 7461					
Efficiency at full load (at n_1 = 500 rpm)	η	%	90	87	82	73	67	
Service life	L_h	h	> 15000					
Weight (incl. standard adapter plate)	m	kg	13					
		lb _m	29					
Operating noise (at reference ratio and reference speed – ratio-specific values available in cymex®)	L_{PA}	dB(A)	≤ 64					
Max. permitted housing temperature		°C	+90					
		°F	+194					
Ambient temperature		°C	–15 to +40					
		°F	+5 to +104					
Lubrication			Lubricated for life					
Direction of rotation			See drawing					
Protection class			IP 65					
Elastomer coupling (recommended product type – validate sizing with cymex®)			ELC - 00150B - 032.000 - X					
Bore diameter of coupling on the application side		mm	X = 032.000 - 036.000					
Mass moment of inertia (relates to the drive) Clamping hub diameter [mm]	H 28	J_i	kgcm ²	4.0	3.8	3.7	3.6	3.6
			10 ⁻³ in.lb.s ²	3.5	3.4	3.3	3.2	3.2

Please use our sizing software cymex® for a detailed sizing – www.wittenstein-cymex.com

^{a)} At max. 10 % F_{2QMax}

^{b)} Valid for standard clamping hub diameter

^{c)} Refers to center of the output shaft or flange

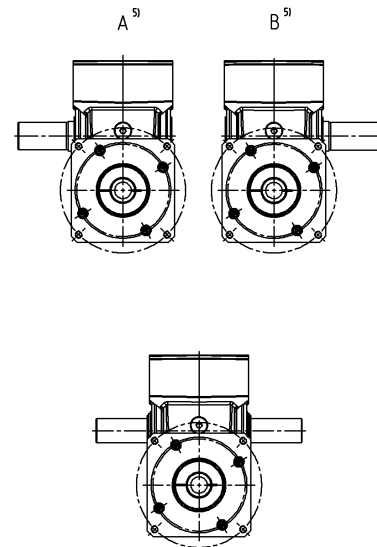
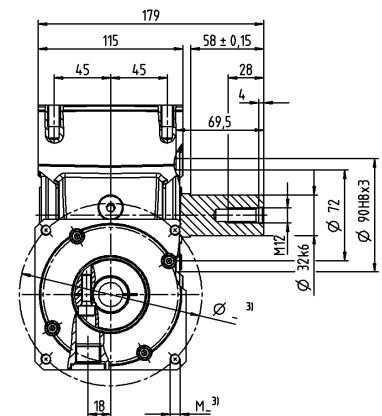
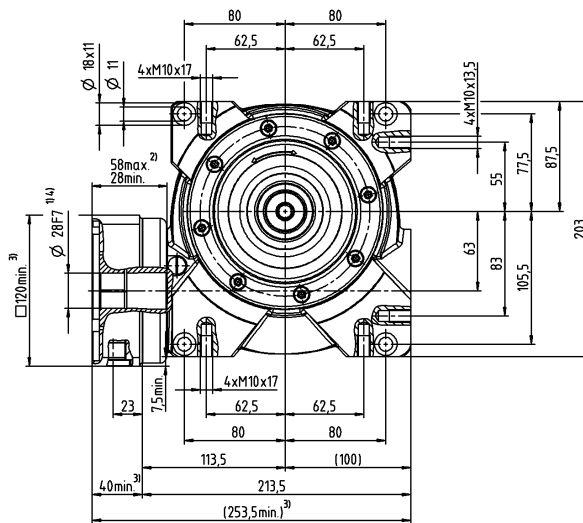
^{d)} Please reduce input speed at higher ambient temperatures

^{e)} Valid for: Smooth shaft

Motor shaft diameter [mm]

1-stage

up to 28 ⁴⁾ (H) ⁶⁾
clamping hub
diameter

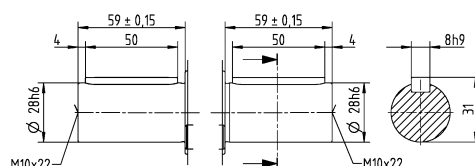
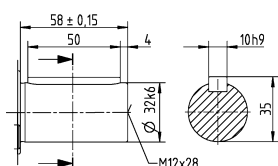


Optional dual-shaft output. Drawings available on request.
Involute gearing is not possible.

Other output variants

Shaft with key

Shaft with parallel key on both sides



See technical data sheet for available clamping hub diameters
(mass moment of inertia). Dimensions available on request.

Non-tolerated dimensions are nominal dimensions

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 wall thickness of 1 mm

⁵⁾ Output side

⁶⁾ Standard clamping hub diameter