

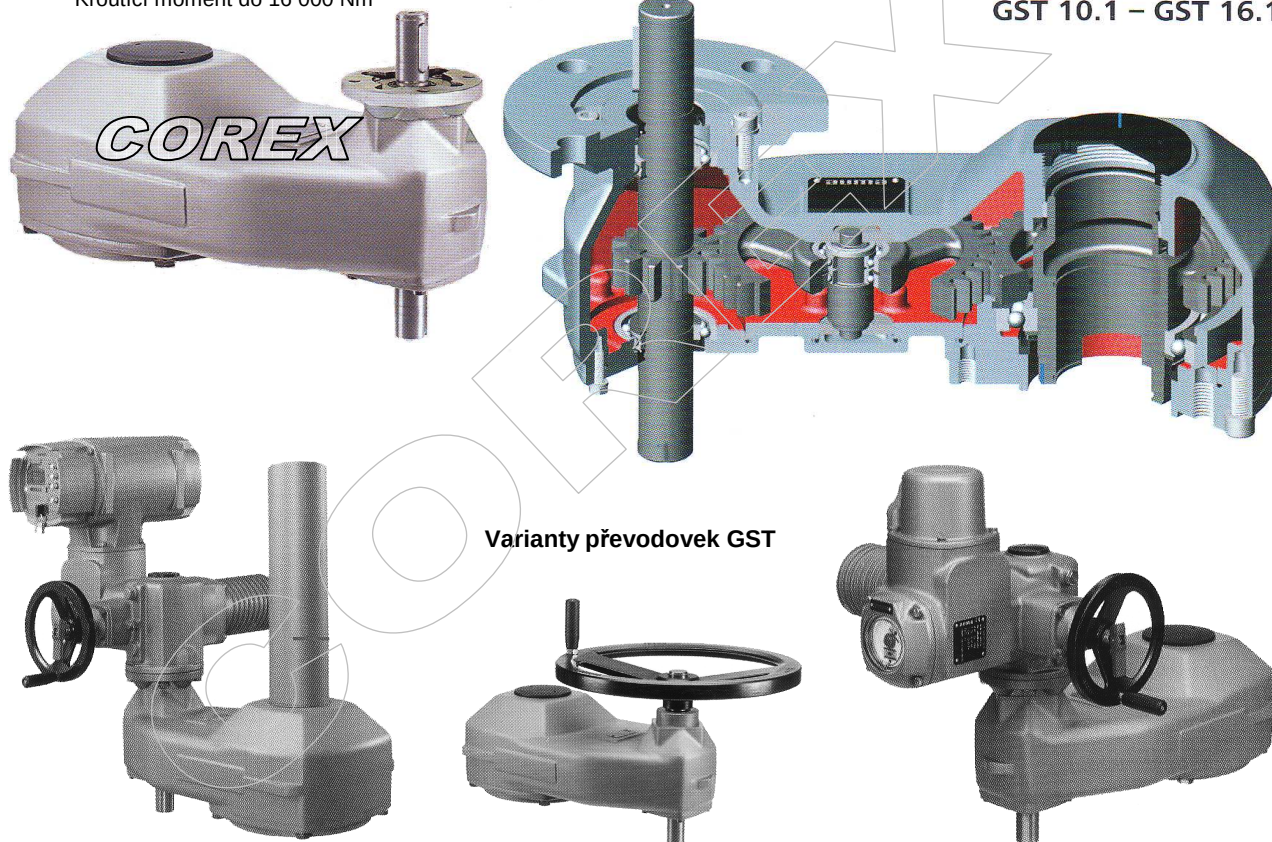
Víceotáčkové převodovky čelní a kuželové se používají v kombinaci s víceotáčkovými servopohony SA ke zvýšení krouticího momentu a umožňují změnu pracovní polohy vstupního hřídele proti výstupnímu hřídeli. Dále mohou být používány pro manuálně ovládané armatury.

Převodovka GST

Krouticí moment do 16 000 Nm

Řez převodovkou GST

GST 10.1 – GST 16.1



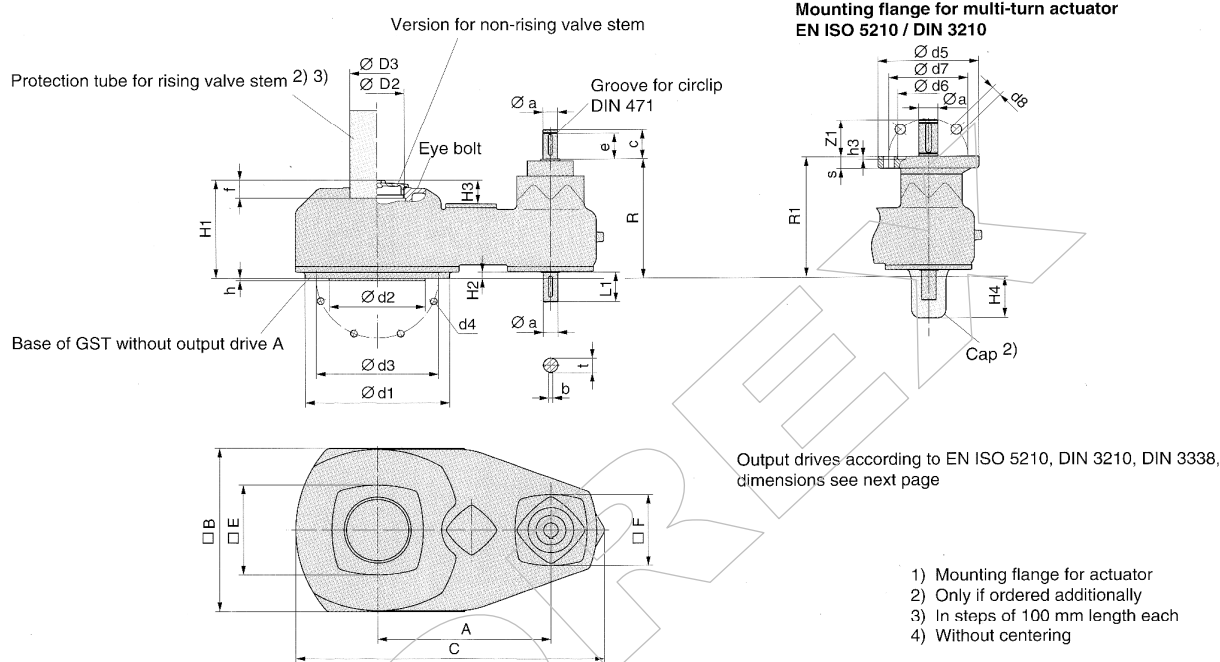
Varianty převodovek GST

Základní data víceotáčkové převodovky GST 10.1 - GST40.1

Typ převodovky	Max. výstup. moment (Nm)	Redukční poměr	Vstupní moment (Nm)	Připojení k armatuře		faktor	Váha (kg)
				Standard EN ISO 5210	Na přání DIN 3210		
GST 10.1	120	1 : 1	135	F 10	G0	0,9	14
		1.4 : 1	95			1,3	
		2 : 1	67			1,8	
GST 14.1	250	1.4 : 1	198	F 14	G1/2	1,3	26
		2 : 1	139			1,8	
		2.8 : 1	99			2,5	
GST 14.5	500	2 : 1	278	F 10	G1/2	1,8	26
		2.8 : 1	198			2,5	
		4 : 1	139			3,6	
GST 16.1	1000	2.8 : 1	397	F 16	G13	2,5	40
		4 : 1	278			3,6	
		5.6 : 1	198			5	
GST 25.1	2000	4 : 1	556	F 25	G4	3,6	82
		5.6 : 1	397			5,01	
		8 : 1	278			7,2	
GST 30.1	4000	5.6 : 1	794	F 30	G5	5	115
		8 : 1	556			7,2	
		11 : 1	404			9,9	
GST 35.1	8000	8 : 1	1111	F 35	G6	7,2	195
		11 : 1	808			9,9	
		16 : 1	556			14,4	
GST 40.1	16000	11 : 1	1616	F 40	G7	9,9	255
		16 : 1	1111			14,4	
		22 : 1	808			19,8	

Dimensions Spur gearboxes

GST 10.1 – GST 40.1



- 1) Mounting flange for actuator
- 2) Only if ordered additionally
- 3) In steps of 100 mm length each
- 4) Without centering

Dimensions	Spur gearbox type							
	GST 10.1	GST 14.1	GST 14.5	GST 16.1	GST 25.1	GST 30.1	GST 35.1	GST 40.1
EN ISO 5210/DIN3210	F10 (G0)	F14 (G1/2)	F14 (G1/2)	F16 (G3)	F25 (G4)	F30 (G5)	F35 (G6)	F40 (G7 ⁴)
A	175	240	240	300	360	380	410	445
□ B	138	188	188	234	344	374	454	504
C	305	395	395	480	640	675	750	810
Ø D2	G 2 "	G 2 ½ "	G 2 ½ "	G 3 "	G 4 "	G 5 "	M190 x 3	M220 x 3
Ø D3	60 x 3.7	76 x 3.7	76 x 3.7	89 x 4.1	114 x 4.5	140 x 4.9	191 x 8	219 x 10
□ E	96	106	106	130	200	220	275	320
□ F	110	110	110	110	150	150	150	145
H1	118	148	148	183	208	243	329	348
H2	9	19	19	19	15	20	23	28
H3	28	45	45	58	61	69	81	84
H4	41	53	53	53	88	83	97	92
R	157	171	171	196	253/263	258/268	356/349	361/354
R1	160	171	171	196	256	261	349	354
Z1	40	40/60	40/60	60	60/80	60/80	80/100	80/100
Ø a	20	20/30	20/30	30	30/40	30/40	40/50	40/50
b	6	6/8	6/8	8	8/12	8/12	12/14	12/14
c	42	42/60	42/60	60	63/73	63/73	73/100	73/100
Ø d1	125	175	175	210	300	350	415	475
Ø d2 f8	70(60)	100	100	130	200	230	260	300
Ø d3	102	140	140	165	254	298	356	406
d4	4 x M10	4 x M16	4 x M16	4 x M20	8 x M16	8 x M20	8 x M30	8 x M36
e	38	38/55	38/55	55	55/65	55/65	65/-	65/-
f	23	29	29	29.5	38	41	54	54
h	3	4	4	5	5	5	5	5
L1	40	40/60	40/60	60	60/80	60/80	80/100	80/100
t	22.5	22.5/33	22.5/33	33	33/43	33/43	43/53.5	43/53.5
EN ISO 5210 ¹⁾	F10/F14	F10/F14	F10/F14	F14	F14/F16	F14/F16	F14/F16/F25	F16/F25
DIN 3210 ¹⁾	G0/G1/2	G0/G1/2	G0/G1/2	G1/2	G1/2/G3	G1/2/G3	G1/2/G3/G4	G3/G4
Mounting flange for multi-turn actuator								
EN ISO 5210	F10		F14	F16	F25			
DIN 3210		G0	G1/2	G3			G4	
Ø d5	125	125	175	210	300		300	
Ø d6	70	60	100	130	200		160	
Ø d7	102	102	140	165	254		254	
Ø d8	11	11	18	22	18		18	
h3	5	5	5	6	6		6	
s	12	12	17	25	25		25	

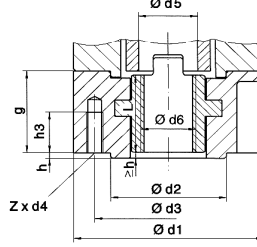
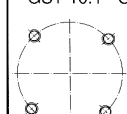
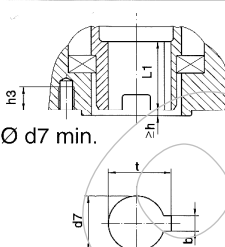
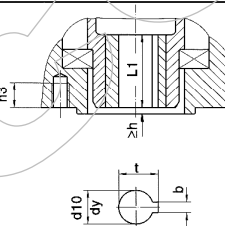
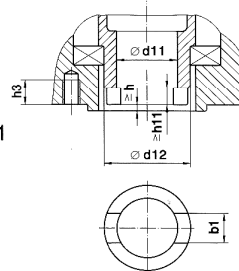
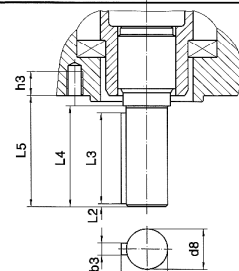
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Issue **1.08**

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Y000.314/002/en

GST 10.1 – GST 40.1		Output drives according to										EN ISO 5210 DIN 3338 DIN 3210								
Output drives			Dimensions		AUMA spur gearbox type															
					GST 10.1		GST 14.1 GST 14.5		GST 16.1		GST 25.1		GST 30.1		GST 35.1		GST 40.1			
Stem nut			EN ISO 5210 DIN 3210		F10	G0	F14	G1/2	F16	G3	F25	G4	F30	G5	F35	F40				
Type EN ISO 5210 A DIN 3210 A  GST 10.1 - GST 16.1 GST 25.1 - GST 40.1 Arrangement of holes d4  			F max. kN		70		160		250		380		460		875		1375			
			Ø d1		125		175		210		300		350		415		475			
			Ø d2 f8		70 60		100		130		200 160		230 180		260 300		300			
			Ø d3		102		140		165		254		298 300		356		406			
			d4		M10		M16		M20		M16		M20		M30		M36			
			Ø d5		42		60		80		100		120		160		180			
			Ø d6 max.		40		57		75		95		115		155		175			
			g		50		65		80		130		160		185		225			
			h		3		4		5		5		5		5		8			
			h3		15		25		35		20		25		38		45			
			L		47		60		75		126		156		175		210			
			Z		4		4		4		8		8		8		8			
			Weight kg			2.8		6.8		11.7		35		56		125		200		
Plug sleeve ³⁾			b JS 9 ¹⁾		12		18		22		28		32		40		45			
Type EN ISO 5210 B 1 = Ø d7 EN ISO 5210 B 2 < Ø d7 > Ø d7 min. DIN 3210 B = Ø d7 			d7 H9		42		60		80		100		120		160		180			
			Ø d7 min.		30		45		60		75		90		120		140			
			h3		15		25		30		25		32		48		58			
			L1		45		65		80		110		130		180		200			
			t ¹⁾		45.3		64.4		85.4		106.4		127.4		168.1		189.1			
			Missing dimensions refer to output drive A																	
Bore with keyway			b JS 9 ¹⁾		6		8		12		14		18		22		28			
Type EN ISO 5210 B 3 = Ø d10 EN ISO 5210 B 4 ≤ Ø dy DIN 3210 E = Ø d10 			Ø d10 H9		20		30		40		50		60		80		100			
			Ø dy max.		30		45		60		75		90		120		140			
			h3		15		25		30		25		32		48		58			
			L1		45		65		80		110		130		180		200			
			t ¹⁾		22.8		33.3		43.3		53.8		64.4		85.4		106.4			
			Missing dimensions refer to output drive A																	
Dog coupling ³⁾			b1 H11		14		20		24		30		40		45		50			
Type DIN 3338 C = Ø d11 			Ø d11 H11		28		38		47		64		75		105		125			
			Ø d11 min.		20		30		40		50		60		80		100			
			Ø d11 max. ²⁾		42		60		80		100		120		160		180			
			Ø d12		55		80		100		130		160		200		230			
			h3		15		25		30		25		32		48		58			
			h11		7		8		10		11		13		17		20			
			Missing dimensions refer to output drive A																	
			Shaft coupling			Ø d8 g6		– 20		– 30		– 40		–		–		–		–
Type DIN 3210 D 			b3 h9		– 6		– 8		– 12		–		–		–		–			
			h3		– 15		– 25		– 30		–		–		–		–			
			L2		– 1.5		– 2		– 3		–		–		–		–			
			L3		– 45		– 63		– 80		–		–		–		–			
			L4		– 50		– 70		– 90		–		–		–		–			
			L5		– 55		– 76		– 97		–		–		–		–			
			t2		– 22.5		– 33		– 43		–		–		–		–			
			Weight kg		– 0.7		– 2		– 4.3		–		–		–		–		–	
1) Dimensions depend on Ø d7/ Ø d10, refer to DIN 6885 P1																				
2) For rising valve stem Ø d11 max. = Ø d5 of type A																				
3) Weight included in actuator																				
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