

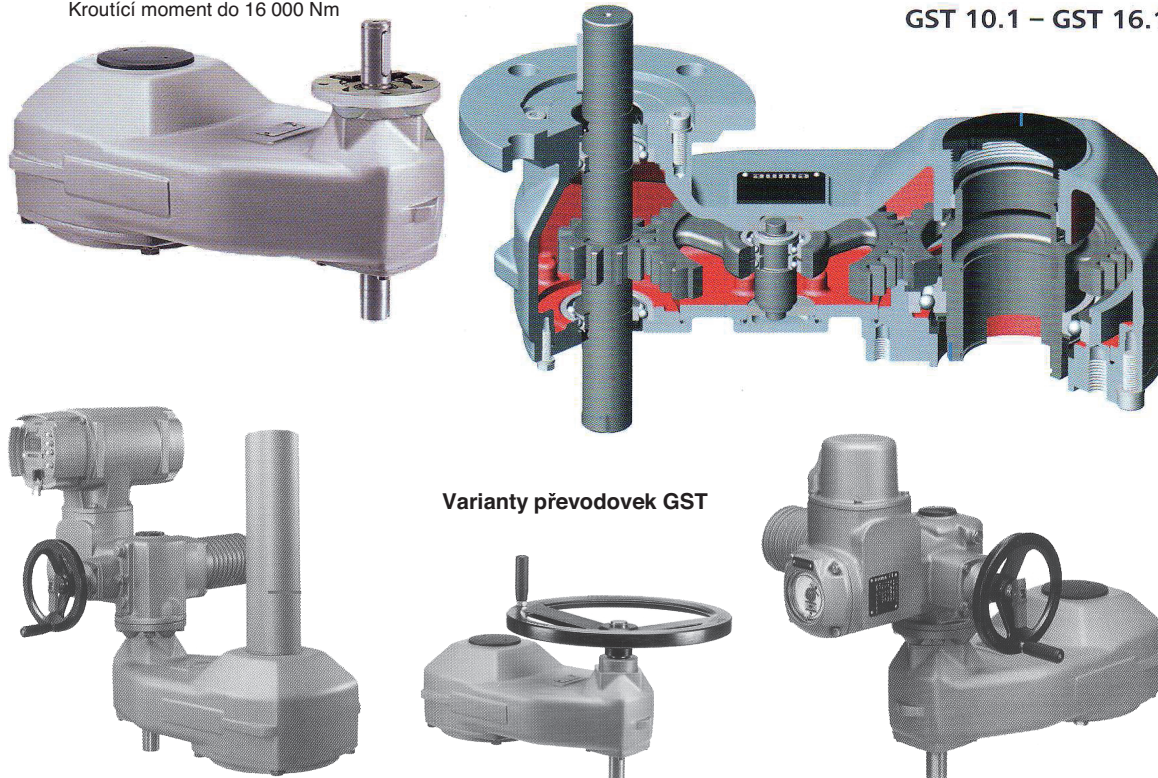
Víceotáčkové převodovky čelní a kuželové se používají v kombinaci s víceotáčkovými servopohony SA ke zvýšení kroutícího momentu a umožňují změnu pracovní polohy vstupního hřídele proti výstupnímu hřídeli. Dále mohou být používány pro manuálně ovládané armatury.

Převodovka GST

Kroutící moment do 16 000 Nm

Řez převodovkou GST

GST 10.1 – GST 16.1



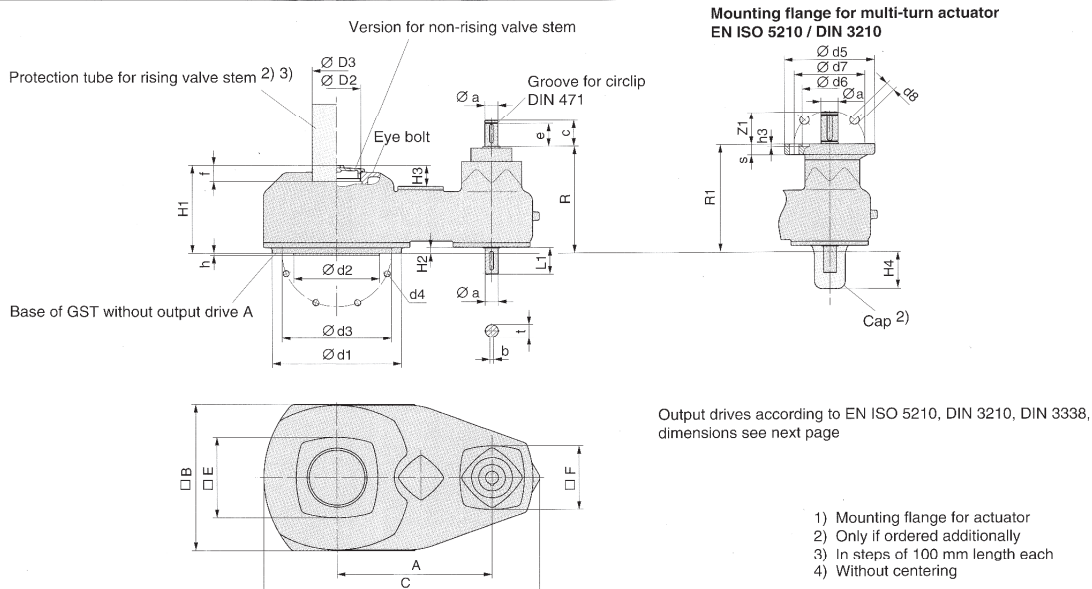
Variety převodovek GST

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



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	09 x 4.1	114 x 4.5	140 x 4.0	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	F25	F25	F25	F25
DIN 3210	G0	G 1/2	G 3	G 4	G 4	G 4	G 4	G 4
Ø d5	125	125	175	210	300	300	300	300
Ø d6	70	60	100	130	200	200	160	160
Ø d7	102	102	140	165	254	254	254	254
Ø d8	11	11	18	22	18	18	18	18
h3	5	5	5	6	6	6	6	6
s	12	12	17	25	25	25	25	25

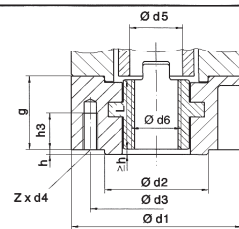
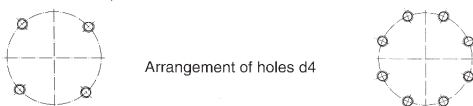
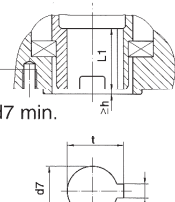
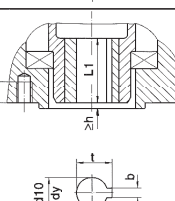
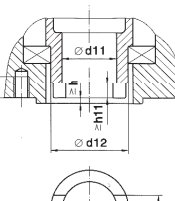
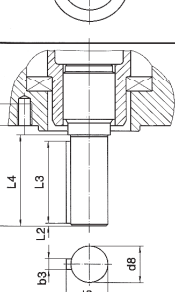
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Issue **1.08**

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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				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	
				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		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	
GST 10.1 - GST 16.1		GST 25.1 - GST 40.1		Weight kg		2.8		6.8		11.7		35		56		125 200	
Arrangement of holes d4				b JS 9 ¹⁾		12		18		22		28		32		40 45	
				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	
Plug sleeve ³⁾																	
Type EN ISO 5210 B 1 = Ø d7 EN ISO 5210 B 2 < Ø d7 > Ø d7 min. DIN 3210 B = Ø d7																	
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				Weight kg		0.4		1.1		2.4		5.1		8.6		21.2 27.5	
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		–		–		– –	
Missing dimensions refer to output drive A				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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