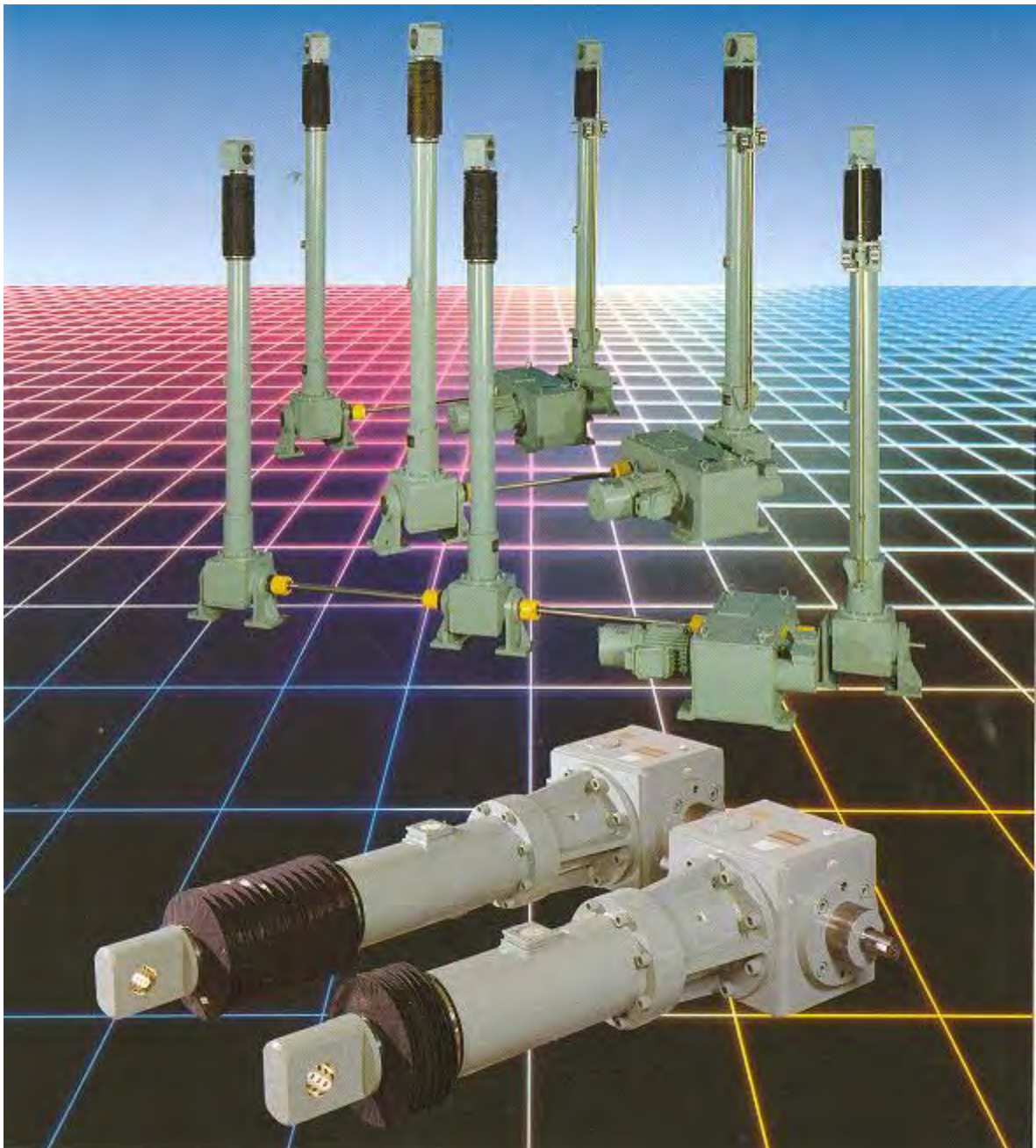




**MOTION TECHNOLOGIES
PTY LTD**

SYNCHRONISED ELECTRIC POWER CYLINDERS



Speed

In the SGB Series, the operating speed can be selected according to its application from the table below, standard load and speed values are shown for each model.

Cylinders may be operated at values other than shown in the table depending on the condition, so please contact Motion Technologies engineering for advice.

Speed V Thrust								
Model	Speed (mm/sec)							
	20	40	60	80	100	120	140	150
SGB05T	0.5	0.5	0.5	0.5	0.5			
SGB2T	2	2	2	2	2			
SGB5T	5	5	5	5	5			
SGB5TL	5	5	5	5	5	5.0		
SGB10T	10	10	10	10	10	10		
SGB10TL	10	8.1	8.1	8.1	8.1	7.6	7.6	7.6
SGB20T	20	20	20	20	20	20	20	20
SGB20TL	20	20	20	20	20	20	20	
SGB30T	30	30	30	30	30	30	30	
SGB30TL	30	30	27.6	27.6	27.6	27.6	25.8	25.8
SGB50T	50	50	50	50	50	50	50	50
SGB50TL	50	50	50	50	50	50	50	50
SGB75T	75	75	75	75	75	75	75	75
SGB100T	100	100	100	100	96	96	96	96

Tonne V Thrust



A pair of cylinders are parallel linked for operation. Eight sets of synchro-cylinders are used for one cart.

Standard Specifications

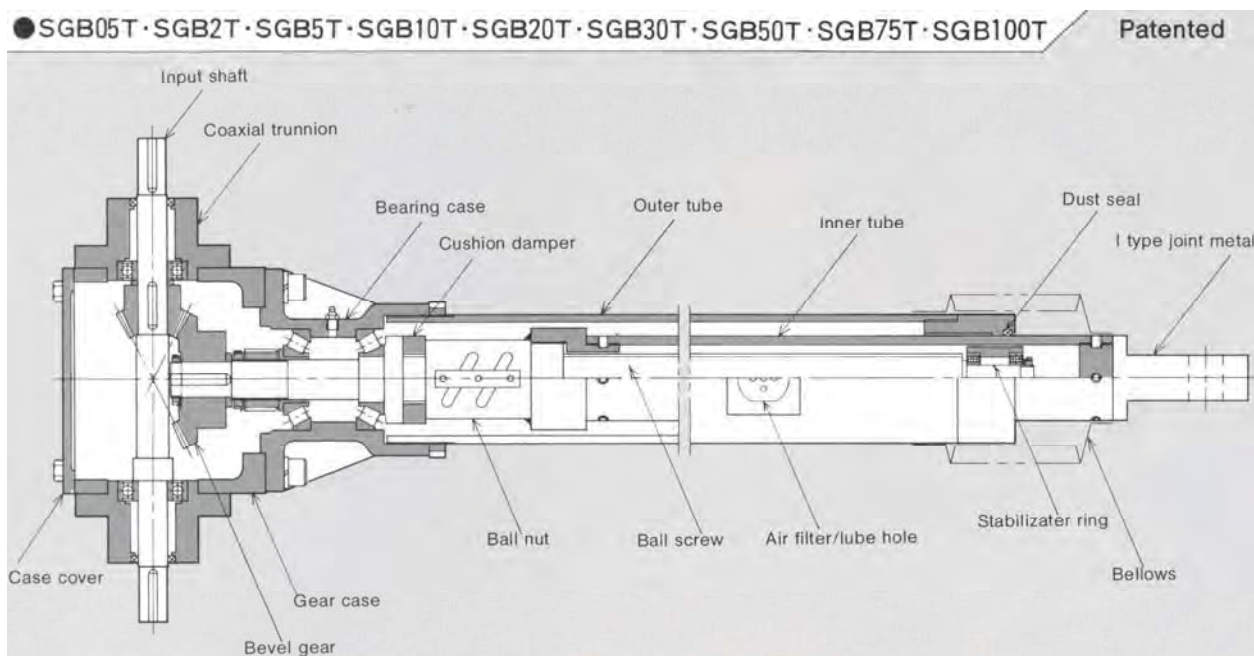
Environment	Without bellows: general plant indoor and less dusty place With bellows: outdoor and dusty
Speed	Maximum speed up to 150mm/sec
Ambient Temperature	-15°C ~ 50°C
Lubrication	Grease supply

Special Specifications (Consult MT Engineering)

Installation Place	For the installation in corrosive environment, we can manufacture the synchro-cylinder coated with epoxy-based paint or to most other special requirements
Speed	When an oil bath is used, it is possible to operate the cylinder at a speed higher than the standard speed
Ambient Temperature	Low and high temperature greases can be used, according to the working installation
Lubrication	For high speed and high frequency operation, the use of oil bath is recommended. In that case, direction of installation, must be considered
Anti-rotation Mechanism	Not supplied for the standard type. Equip the device to prevent the rotation torque on the mate machine in proportion to the load
Self-locking	The screw shaft is changed from ball screw to trapezoidal screw. By doing so, the cylinder becomes self-locking in most cases but speed limitations will apply
Safety Nut	For critical safety installations, an automatic safety nut can be incorporated to prevent load dropping for a critical nut failure incidence

Model	Thrust Power (tonne)	Lead per turn of input shaft (mm)	Rod rotating torque (kg.m)	Rated input shaft torque (kg.m)	Max input shaft torque (kg.m)	Max speed (mm/sec)
SGB05T	0.5	5	0.5	0.5	3.5	100
SGB2T	2	3	2.1	101	6.4	100
SGB5T	5	5	8.8	4.7	18.9	100
SGB5TL	5	6	10.6	5.6	18.9	120
SGB10T	10	6	21.2	11.2	37.4	120
SGB10TL	10	8	28.3	10.5	37.4	150
SGB20T	20	8	56.6	30.0	54.0	150
SGB20TL	20	10	70.7	37.4	54.0	140
SGB30T	30	12	127.3	67.4	111.6	140
SGB30TL	30	16	169.8	89.9	111.6	150
SGB50T	50	16	282.9	149.8	168.0	150
SGB50TL	50	16	353.7	149.8	300.0	150
SGB75T	75	16	530.5	224.7	300.0	150
SGB100T	100	19.2	848.8	359.6	361.2	150

Construction



Model	Stroke (mm)	Dimensions (mm)																	Dimensions (w/bellow) (mm)			Weight (kg)			
		LT	LG	WG	WA	WB	WA	WP	WD	S	T	W	U	GH	PD	D	RW	RE	RF	D	Model		LT	J	
SGB05T	-3	300	654	55	230	28	22	130	25	40	14	11	5	5	110	38	15	20	40	20	70	SGB05T	-3J	654	30
	-5	500	854																				-5J	921	35
	-7	700	1092																					-7J	1197
SGB2T	-3	300	693																			SGB2T	-3J	693	50
	-5	500	893	65	310	33	22	200	30	50	19	16	5	5	156	50	20	30	50	25	90		-5J	960	120
	-10	1000	1248																					-10J	1616
SGB5T	-3	300	822																			SGB5T	-3J	822	81
	-5	500	1022																				-5J	1089	91
	-10	1000	1562	90	450	53	42	260	50	80	24	20	8	7	220	75	30	40	65	38	114		-10J	1748	121
SGB5TL	-3	300	856																			SGB5TL	-3J	856	83
	-5	500	1056																				-5J	1123	93
	-10	1000	1596	90	450	53	42	260	50	80	24	20	8	7	220	75	30	40	65	38	114		-10J	1782	123
SGB10T	-3	300	960																			SGB10T	-3J	960	156
	-5	500	1160																				-5J	1222	175
	-10	1000	1700	90	210	63	42	300	60	90	34	29	10	8	260	95	45	50	90	50	140		-10J	1881	227
SGB10TL	-3	300	1105																			SGB10TL	-3J	1105	168
	-5	500	1305																				-5J	1367	195
	-10	1000	1845	90	510	63	42	300	60	90	34	29	10	8	260	110	50	70	120	55	180		-10J	2026	267
SGB20T	-3	300	1159																			SGB20T	-3J	1159	299
	-5	500	1359																				-5J	1421	329
	-10	1000	1899	110	596	63	52	366	60	110	48	42.5	14	9	310	130	63	80	120	65	190		-10J	2080	411
SGB20TL	-3	300	1159																			SGB20TL	-3J	1159	309
	-5	500	1359																				-5J	1421	339
	-10	1000	1899	110	596	63	52	366	60	110	48	42.5	14	9	310	130	63	80	120	65	190		-10J	2080	421
SGB30T	-3	300	1396																			SGB30T	-3J	1396	565
	-5	500	1596																				-5J	1658	614
	-10	1000	2146	150	782	83	62	492	80	130	58	52	16	10	425	180	90	125	155	90	240		-10J	2327	729
SGB30TL	-3	300	1473																			SGB30TL	-3J	1473	586
	-5	500	1673																				-5J	1735	549
	-10	1000	2223	150	782	83	62	492	80	130	58	52	16	10	425	180	90	125	155	90	300		-10J	2404	799
SGB50T	-3	300	1685																			SGB50T	-3J	1685	1142
	-5	500	1885																				-5J	1947	1192
	-10	1000	2435	215	1000	108	92	600	100	180	72	64.5	20	12	510	210	95	130	180	105	300		-10J	2616	1325
SGB75T	-3	300	1850																			SGB75T	-3J	1850	1622
	-5	500	2050																				-5J	2112	1713
	-10	1000	2600	230	1160	128	92	720	120	200	86	77	25	14	630	240	120	150	240	130	340		-10J	2781	1887
SGB100T	-3	300	2070																			SGB100T	-3J	2070	1672
	-5	500	2270																				-5J	2332	1783
	-10	1000	2820	230	1160	128	92	720	120	200	86	77	25	14	630	240	120	150	240	130	407		-10J	3001	2007
SGB100TL	-3	300	2070																			SGB100TL	-3J	2070	1672
	-5	500	2270																				-5J	2332	1783
	-10	1000	2820	230	1160	128	92	720	120	200	86	77	25	14	630	240	120	150	240	130	407		-10J	3001	2007
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	-10	1000	2820	230	1160	128	92	720	120	200	86	77	25	14	630	240	120	150	240	130	407		-10J	3001	2007
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	-5	500	2270																				-5J	2332	1783
	-10	1000	2820	230	1160	128	92	720	120	200	86	77	25	14	630	240	120	150	240	130	407		-10J	3001	2007
SGB100TL	-3	300	2070																			SGB100TL	-3J	2070	1672
	-5	500	2270																				-5J	2332	1783
	-10	1000	2820	230	1160	128	92	720	120	200	86	77	25	14	630	240	120	150	240	130	407		-10J	3001	2007

