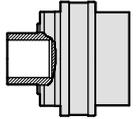


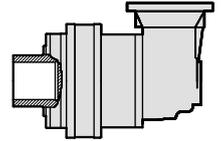
Size 220 - 1100000 Nm

ST-220 Technical data



Stages	Ratio	$T_{2N(1.2M)}^{(1)}$	$T_{2N(6M)}^{(1)}$	$T_{2Peak}^{(2)}$	$n_{1N}^{(3)}$	$n_{1Max}^{(4)}$	$P_t^{(5)}$	η
	i	(Nm)	(Nm)	(Nm)	(rpm)	(rpm)	(kW)	(%)
1	4.32	1172864	967096	1524723	50	100	278	98
	17.3	1172864	967096	1524723	100	200	187	96
2	19.7	1172864	967096	1524723	100	200	187	96
	70.7	1172864	967096	1524723	800	1200	140	94
3	80.8	1172864	967096	1524723	800	1200	140	94
	90.7	1172864	967096	1524723	800	1200	140	94
	103.7	1172864	967096	1524723	800	1200	140	94
4	282.7	1172864	967096	1524723	1200	2000	111	92
	362.9	1172864	967096	1524723	1200	2000	111	92
	414.6	1172864	967096	1524723	1200	2000	111	92
	471.7	1172864	967096	1524723	1200	2000	111	92
	539.0	1172864	967096	1524723	1200	2000	111	92
5	1005.2	1172864	967096	1524723	1500	2800	91	90
	1290.2	1172864	967096	1524723	1500	2800	91	90
	1306.7	1172864	967096	1524723	1500	2800	91	90
	1492.9	1172864	967096	1524723	1500	2800	91	90
	1554.9	1172864	967096	1524723	1500	2800	91	90
	1677.3	1172864	967096	1524723	1500	2800	91	90
	1808.7	1172864	967096	1524723	1500	2800	91	90
	1916.3	1172864	967096	1524723	1500	2800	91	90
	2058.1	1172864	967096	1524723	1500	2800	91	90
	2309.5	1172864	967096	1524723	1500	2800	91	90
	2480.7	1172864	967096	1524723	1500	2800	91	90
	2641.8	1172864	967096	1524723	1500	2800	91	90
	2834.2	1172864	967096	1524723	1500	2800	91	90
	3185.1	1172864	967096	1524723	1500	2800	91	90
	3593.1	1172864	967096	1524723	1500	2800	91	90
6	4088.4	1172864	967096	1524723	1500	2800	91	90
	4671.1	1172864	967096	1524723	1500	2800	91	90
	4737.1	1172864	967096	1524723	1500	2800	57	88
	5193.3	1172864	967096	1524723	1500	2800	57	88
	5639.9	1172864	967096	1524723	1500	2800	57	88
	5980.7	1172864	967096	1524723	1500	2800	57	88
	6336.5	1172864	967096	1524723	1500	2800	57	88
	6796.9	1172864	967096	1524723	1500	2800	57	88
	7239.4	1172864	967096	1524723	1500	2800	57	88
	7676.9	1172864	967096	1524723	1500	2800	57	88
	8033.9	1172864	967096	1524723	1500	2800	57	88
	8993.1	1172864	967096	1524723	1500	2800	57	88
	9253.4	1172864	967096	1524723	1500	2800	57	88
	10572.0	1172864	967096	1524723	1500	2800	57	88
	11995.5	1172864	967096	1524723	1500	2800	57	88
13743.6	1172864	967096	1524723	1500	2800	57	88	
15445.2	1172864	967096	1524723	1500	2800	57	88	
17646.2	1172864	967096	1524723	1500	2800	57	88	
20289.0	1172864	967096	1524723	1500	2800	57	88	
23091.9	1172864	967096	1524723	1500	2800	57	88	
28026.3	1172864	967096	1524723	1500	2800	57	88	
33865.1	1172864	967096	1524723	1500	2800	57	88	

SX-220 Technical data

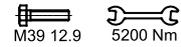
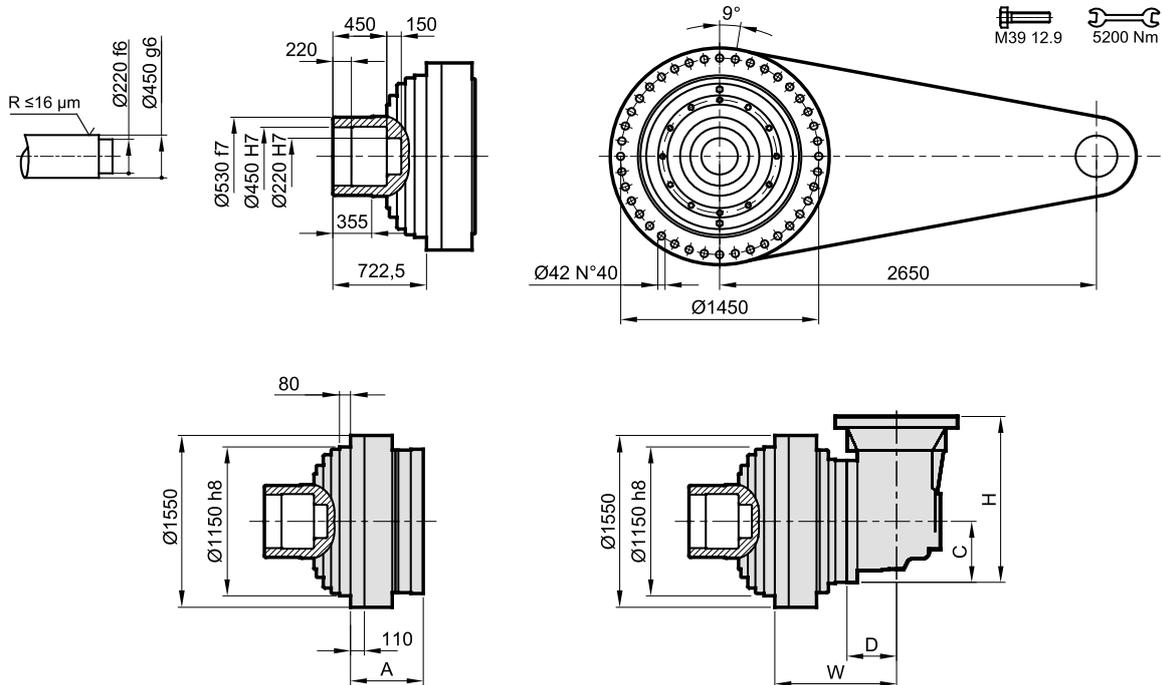


Stages	Ratio	$T_{2N(1.2M)}^{(1)}$	$T_{2N(6M)}^{(1)}$	$T_{2Peak}^{(2)}$	$n_{1N}^{(3)}$	$n_{1Max}^{(4)}$	$P_t^{(5)}$	η
	i	(Nm)	(Nm)	(Nm)	(rpm)	(rpm)	(kW)	(%)
5	1000.8	1172864	967096	1524723	1500	2800	57	90
	1143.4	1172864	967096	1524723	1500	2800	57	90
	1301.0	1172864	967096	1524723	1500	2800	57	90
	1486.4	1172864	967096	1524723	1500	2800	57	90
	1670.0	1172864	967096	1524723	1500	2800	57	90
	1942.0	1172864	967096	1524723	1500	2800	57	90
	2181.8	1172864	967096	1524723	1500	2800	57	90
	2492.7	1172864	967096	1524723	1500	2800	57	90
6	2794.3	1172864	967096	1524723	1500	2800	50	88
	3367.6	1172864	967096	1524723	1500	2800	50	88
	3847.5	1172864	967096	1524723	1500	2800	50	88
	4150.3	1172864	967096	1524723	1500	2800	50	88
	4938.7	1172864	967096	1524723	1500	2800	50	88
	5190.7	1172864	967096	1524723	1500	2800	50	88
	5721.4	1172864	967096	1524723	1500	2800	50	88
	6454.3	1172864	967096	1524723	1500	2800	50	88
	6783.7	1172864	967096	1524723	1500	2800	50	88
	7344.1	1172864	967096	1524723	1500	2800	50	88
	7879.1	1172864	967096	1524723	1500	2800	50	88
	8390.7	1172864	967096	1524723	1500	2800	50	88
	8818.8	1172864	967096	1524723	1500	2800	50	88
	9896.1	1172864	967096	1524723	1500	2800	50	88
	10116.3	1172864	967096	1524723	1500	2800	50	88
	11365.9	1172864	967096	1524723	1500	2800	50	88
	12144.5	1172864	967096	1524723	1500	2800	50	88
13648.1	1172864	967096	1524723	1500	2800	50	88	
15589.0	1172864	967096	1524723	1500	2800	50	88	

- (1) T_{2N} values are calculated at $n_1=n_{1n}$, continuous duty cycle, uniform operation and $KA=1$ according to ISO 6336. $T_{2N(1.2M)}$ has been calculated for 1200000 of revolutions at the output shaft, and $T_{2N(6M)}$ has been calculated for 6000000 of revolutions at the output shaft. The application factor f_s must be considered for each duty cycle and machine type.
- (2) T_{2Peak} is the maximum output torque the gearbox can tolerate during startups, inversions or other peaks. This value should never be used for continuous operation or for intermittent operation with frequent accelerations.
- (3) n_{1n} is the rated input speed for continuous operation
- (4) n_{1max} is the maximum input speed for intermittent service. For continuous operation at speeds over n_{1n} please inquire.
- (5) P_t is the thermal power rating, that is the power in kW that, at 20°C, the gearbox can transmit during continuous operation, at $n_1=n_{1n}$ and lubricated with ISO-VG-220 oil without it exceeding 90°C. It depends on ambient temperature.

Dimensions

S□-E-220-□□-H450×600



Stages	A	W	D	C	H	ST Mass ⁽¹⁾	SX Mass ⁽¹⁾
1	*	-	-	-	-	4232	-
2	646.5	-	-	-	-	5072	-
3	1025.5	-	-	-	-	5268	-
4	1263.5	-	-	-	-	5327	-
5	1374.5	*	*	*	*	5343	*
6	1694.5	1892.5	101	235	550	5359	5740

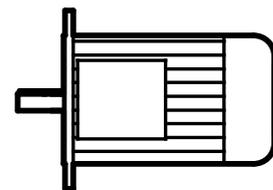
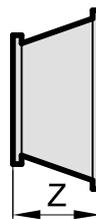
(1) Mass in kg for gearboxes without input modules (solid input shaft, motor flange, etc) or accessories. To obtain actual mass, add the mass for your chosen input module, please inquire.

* Available upon request

Accessories	
SA-H-530	SA-T-□-1150-1450-40×42-□-□
<p>Max. Torque: 2650 kNm Screw Tightening Torque: 2210 Nm</p>	<p>See the chapter on Torque Arms</p>

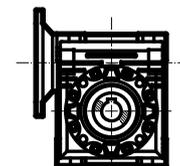
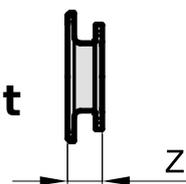
Inputs

IEC Motor Input



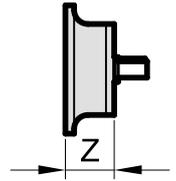
IEC	100	112	132	160	180	200	225	250	280	315
Stages	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
1	-	-	-	-	-	148.5	148.5	183.5	183.5	233
2	-	-	-	-	-	148.5	148.5	183.5	183.5	233
3	-	-	-	-	-	148.5	148.5	183.5	183.5	233
4	-	-	-	-	-	148.5	148.5	183.5	183.5	-
5	-	-	-	120.5	120.5	148.5	148.5	-	-	-
6	71	71	104	120.5	120.5	148.5	-	-	-	-

Worm Gearbox Input



Stages	SVS-050 SQS-050	SVS-063 SQS-063	SVS-075 SQS-075	SVS-090 SQS-090	SVS-110 SQS-110
	Z	Z	Z	Z	Z
1	-	-	-	-	-
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
5	-	-	-	-	95
6	80	80	57	57	57

Solid Shaft Input



Stages	E25×50 E28×50	E35×50 E42×82	E48×82.5 E65×105	E70×120 E80×130	E90×140 E100×140
	Z		Z	Z	Z
1	-	-	-	-	-
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	211
5	-	-	-	-	211
6	-	-	-	185	211