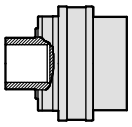
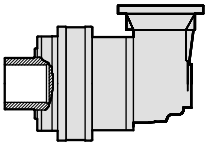
Size 230 - 1100000 Nm

ST-230 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
2	17.3	1172864	967096	1524723	100	200	187	96
	19.7	1172864	967096	1524723	100	200	187	96
3	66.2	1172864	967096	1524723	800	1200	140	94
	75.7	1172864	967096	1524723	800	1200	140	94
	76.0	1172864	967096	1524723	800	1200	140	94
	86.9	1172864	967096	1524723	800	1200	140	94
4	261.7	1172864	967096	1524723	1200	2000	111	92
	300.3	1172864	967096	1524723	1200	2000	111	92
	343.1	1172864	967096	1524723	1200	2000	111	92
	439.8	1172864	967096	1524723	1200	2000	111	92
	521.2	1172864	967096	1524723	1200	2000	111	92
5	930.3	1172864	967096	1524723	1500	2800	91	90
	1067.8	1172864	967096	1524723	1500	2800	91	90
	1192.3	1172864	967096	1524723	1500	2800	91	90
	1286.9	1172864	967096	1524723	1500	2800	91	90
	1368.6	1172864	967096	1524723	1500	2800	91	90
	1703.0	1172864	967096	1524723	1500	2800	91	90
	1954.8	1172864	967096	1524723	1500	2800	91	90
	2233.3	1172864	967096	1524723	1500	2800	91	90
	2542.8	1172864	967096	1524723	1500	2800	91	90
	2973.7	1172864	967096	1524723	1500	2800	91	90
	3320.4	1172864	967096	1524723	1500	2800	91	90
	3518.1	1172864	967096	1524723	1500	2800	91	90
	3811.3	1172864	967096	1524723	1500	2800	91	90
6	4015.3	1172864	967096	1524723	1500	2800	57	88
	4504.3	1172864	967096	1524723	1500	2800	57	88
	4918.3	1172864	967096	1524723	1500	2800	57	88
	5535.3	1172864	967096	1524723	1500	2800	57	88
	5829.1	1172864	967096	1524723	1500	2800	57	88
	6201.9	1172864	967096	1524723	1500	2800	57	88
	6672.0	1172864	967096	1524723	1500	2800	57	88
	7000.8	1172864	967096	1524723	1500	2800	57	88
	7384.7	1172864	967096	1524723	1500	2800	57	88
	7721.4	1172864	967096	1524723	1500	2800	57	88
	8105.2	1172864	967096	1524723	1500	2800	57	88
	8844.9	1172864	967096	1524723	1500	2800	57	88
	9303.4	1172864	967096	1524723	1500	2800	57	88
	9922.2	1172864	967096	1524723	1500	2800	57	88
	10134.7	1172864	967096	1524723	1500	2800	57	88
	11632.9	1172864	967096	1524723	1500	2800	57	88
	13290.6	1172864	967096	1524723	1500	2800	57	88
	15588.9	1172864	967096	1524723	1500	2800	57	88
	17842.4	1172864	967096	1524723	1500	2800	57	88
	18632.9	1172864	967096	1524723	1500	2800	57	88
	20332.4	1172864	967096	1524723	1500	2800	57	88
	21559.5	1172864	967096	1524723	1500	2800	57	88
	24972.4	1172864	967096	1524723	1500	2800	57	88
	27102.4	1172864	967096	1524723	1500	2800	57	88

SX-230 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	1062.3	1172864	967096	1524723	1500	2800	57	90
	1219.3	1172864	967096	1524723	1500	2800	57	90
	1361.5	1172864	967096	1524723	1500	2800	57	90
	1562.7	1172864	967096	1524723	1500	2800	57	90
	1785.4	1172864	967096	1524723	1500	2800	57	90
	1843.5	1172864	967096	1524723	1500	2800	57	90
	2116.1	1172864	967096	1524723	1500	2800	57	90
6	2586.2	1172864	967096	1524723	1500	2800	50	88
	2968.6	1172864	967096	1524723	1500	2800	50	88
	3391.6	1172864	967096	1524723	1500	2800	50	88
	3561.0	1172864	967096	1524723	1500	2800	50	88
	3994.7	1172864	967096	1524723	1500	2800	50	88
	4346.8	1172864	967096	1524723	1500	2800	50	88
	4509.2	1172864	967096	1524723	1500	2800	50	88
	4804.2	1172864	967096	1524723	1500	2800	50	88
	5151.8	1172864	967096	1524723	1500	2800	50	88
	5635.6	1172864	967096	1524723	1500	2800	50	88
	5864.3	1172864	967096	1524723	1500	2800	50	88
	6187.3	1172864	967096	1524723	1500	2800	50	88
	6846.2	1172864	967096	1524723	1500	2800	50	88
	7102.0	1172864	967096	1524723	1500	2800	50	88
	7567.8	1172864	967096	1524723	1500	2800	50	88
	8252.1	1172864	967096	1524723	1500	2800	50	88
	9193.5	1172864	967096	1524723	1500	2800	50	88
	9575.6	1172864	967096	1524723	1500	2800	50	88
	10595.3	1172864	967096	1524723	1500	2800	50	88
	11133.1	1172864	967096	1524723	1500	2800	50	88
	12506.7	1172864	967096	1524723	1500	2800	50	88
	14759.6	1172864	967096	1524723	1500	2800	50	88
	16862.8	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.

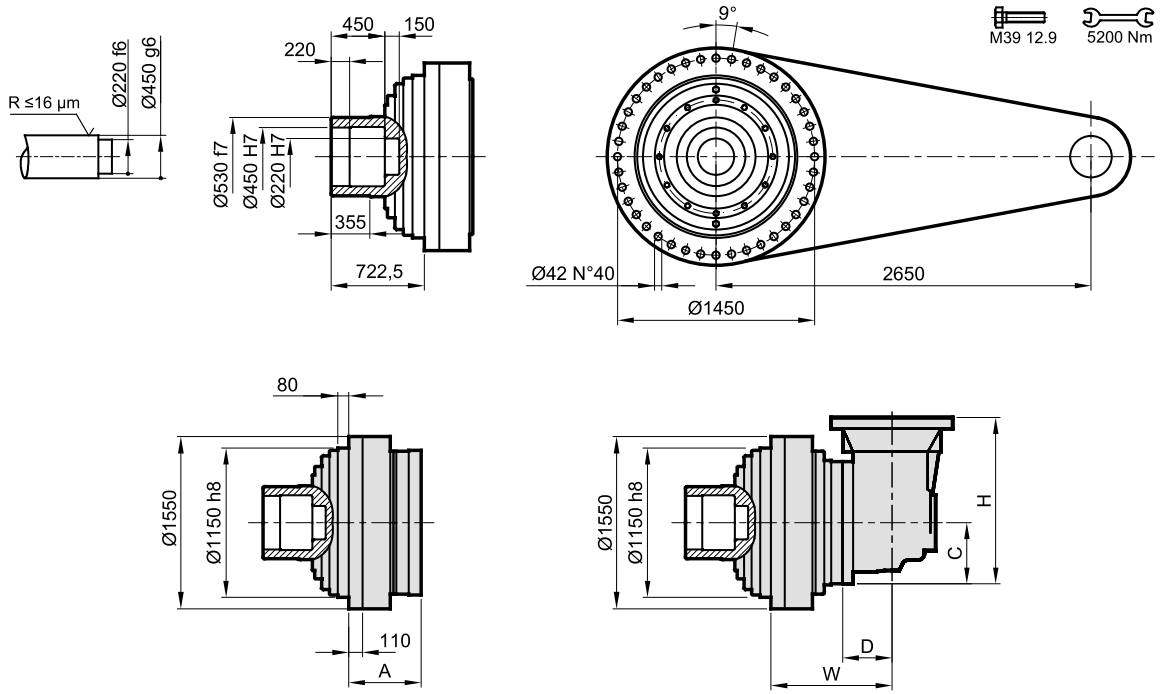
(3) n_{1n} is the rated input speed for continuous operation

(4) n_{1max} is the maximum input speed for intermittent service. For continuous operation at speeds over n1n please inquire.

(5) Pt 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

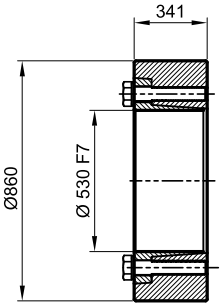
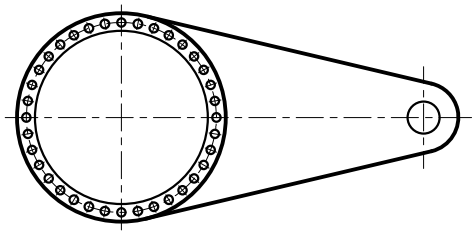
S□-E-230-□□-H450×600



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

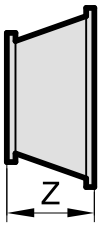
(1) Mass in kg for gearboxes without input modules (solid input shaft, motor flange, etc) or accessories. To obtain actual mass, add the mass for your chosen input module, please inquire.

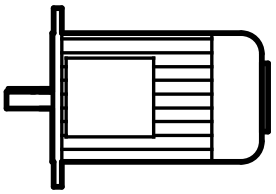
* Available upon request

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

Inputs

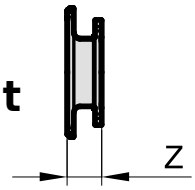
IEC Motor Input

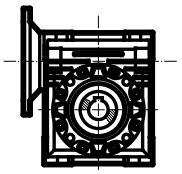




IEC	100	112	132	160	180	200	225	250	280	315
Stages	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
1	-	-	-	-	-	148.5	148.5	183.5	183.5	233
2	-	-	-	-	-	148.5	148.5	183.5	183.5	233
3	-	-	-	-	-	148.5	148.5	183.5	183.5	233
4	-	-	-	-	-	148.5	148.5	183.5	183.5	-
5	-	-	-	120.5	120.5	148.5	148.5	-	-	-
6	71	71	104	120.5	120.5	148.5	-	-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

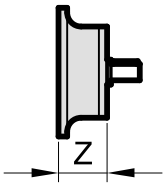
Worm Gearbox Input





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