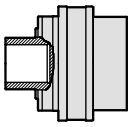
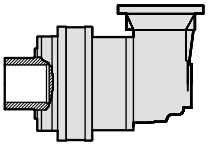
Size 210 - 662000 Nm

ST-210 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	3.84	662600	641500	854750	50	100	160	98
2	14.1	662600	641500	854750	100	200	110	96
	19.0	662600	641500	854750	100	200	110	96
3	55.8	662600	641500	854750	800	1200	93	94
	74.9	662600	641500	854750	800	1200	93	94
	96.0	662600	641500	854750	800	1200	93	94
4	198.5	662600	641500	854750	1200	2000	70	92
	266.4	662600	641500	854750	1200	2000	70	92
	321.1	662600	641500	854750	1200	2000	70	92
	341.5	662600	641500	854750	1200	2000	70	92
	411.5	662600	641500	854750	1200	2000	70	92
	487.7	662600	641500	854750	1200	2000	70	92
	537.8	662600	641500	854750	1200	2000	70	92
	637.4	662600	641500	854750	1200	2000	70	92
	768.3	662600	641500	854750	1200	2000	70	92
	986.8	662600	641500	854750	1200	2000	70	92
5	1213.0	662600	641500	854750	1500	2800	49	90
	1324.4	662600	641500	854750	1500	2800	49	90
	1435.1	662600	641500	854750	1500	2800	49	90
	1615.0	662600	641500	854750	1500	2800	49	90
	1730.9	662600	641500	854750	1500	2800	49	90
	1875.5	662600	641500	854750	1500	2800	49	90
	1931.5	662600	641500	854750	1500	2800	49	90
	2126.1	662600	641500	854750	1500	2800	49	90
	2218.4	662600	641500	854750	1500	2800	49	90
	2407.9	662600	641500	854750	1500	2800	49	90
	2778.6	662600	641500	854750	1500	2800	49	90
	3042.2	662600	641500	854750	1500	2800	49	90
	3535.9	662600	641500	854750	1500	2800	49	90
	3899.0	662600	641500	854750	1500	2800	49	90
	4609.6	662600	641500	854750	1500	2800	49	90
	5570.0	662600	641500	854750	1500	2800	49	90

SX-210 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	551.7	662600	641500	854750	1500	2800	57	90
	664.9	662600	641500	854750	1500	2800	57	90
	740.6	662600	641500	854750	1500	2800	57	90
	850.4	662600	641500	854750	1500	2800	57	90
	1125.0	662600	641500	854750	1500	2800	57	90
	1355.8	662600	641500	854750	1500	2800	57	90
	1463.1	662600	641500	854750	1500	2800	57	90
	1771.9	662600	641500	854750	1500	2800	57	90
	1802.1	662600	641500	854750	1500	2800	57	90
	2135.8	662600	641500	854750	1500	2800	57	90
	2304.4	662600	641500	854750	1500	2800	57	90
	2743.3	662600	641500	854750	1500	2800	57	90
	3292.0	662600	641500	854750	1500	2800	57	90
6	1882.9	662600	641500	854750	1500	2800	50	88
	2579.2	662600	641500	854750	1500	2800	50	88
	3046.2	662600	641500	854750	1500	2800	50	88
	3780.5	662600	641500	854750	1500	2800	50	88
	4237.6	662600	641500	854750	1500	2800	50	88
	4735.1	662600	641500	854750	1500	2800	50	88
	5538.1	662600	641500	854750	1500	2800	50	88
	5954.2	662600	641500	854750	1500	2800	50	88
	6390.7	662600	641500	854750	1500	2800	50	88
	6997.0	662600	641500	854750	1500	2800	50	88
	7289.0	662600	641500	854750	1500	2800	50	88
	7795.8	662600	641500	854750	1500	2800	50	88
	8132.5	662600	641500	854750	1500	2800	50	88
	8660.7	662600	641500	854750	1500	2800	50	88
	9362.3	662600	641500	854750	1500	2800	50	88
	9984.1	662600	641500	854750	1500	2800	50	88
	10602.1	662600	641500	854750	1500	2800	50	88
	11726.4	662600	641500	854750	1500	2800	50	88
	12810.9	662600	641500	854750	1500	2800	50	88
	13617.8	662600	641500	854750	1500	2800	50	88
	14002.7	662600	641500	854750	1500	2800	50	88
	15896.2	662600	641500	854750	1500	2800	50	88
	16454.9	662600	641500	854750	1500	2800	50	88
	17538.7	662600	641500	854750	1500	2800	50	88
	19160.6	662600	641500	854750	1500	2800	50	88
	20367.5	662600	641500	854750	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.

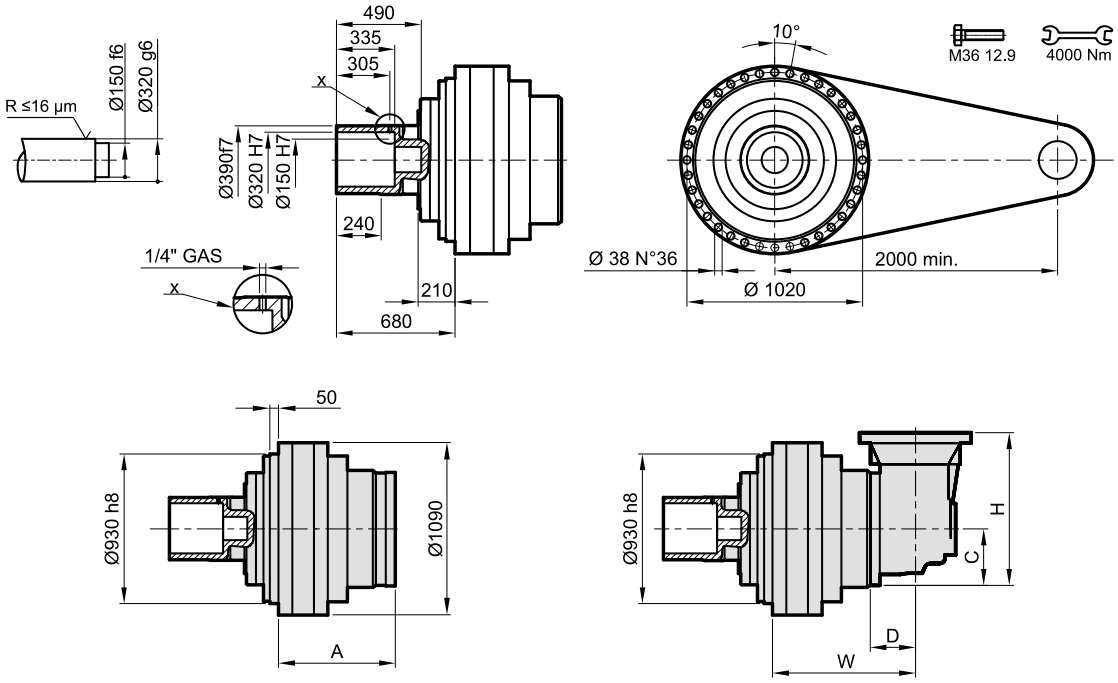
(3) n_{1n} is the rated input speed for continuous operation

(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-210-□□-H320×490



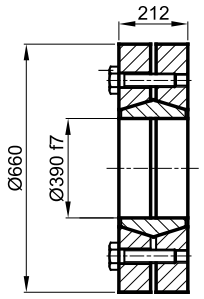
Stages	A	W	D	C	H	ST Mass (1)	SX Mass (1)
1	*	-	-	-	-	*	-
2	*	-	-	-	-	*	-
3	904	-	-	-	-	3600	-
4	1025	-	-	-	-	3700	-
5	1204	1184	101	173	457	4000	4100
6	-	*	*	*	*	-	*

(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

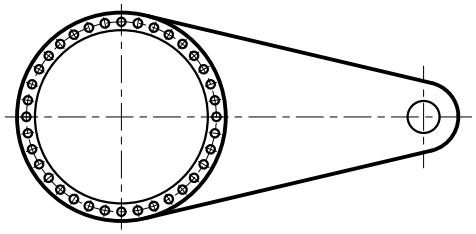
Accessories

SA-H-390



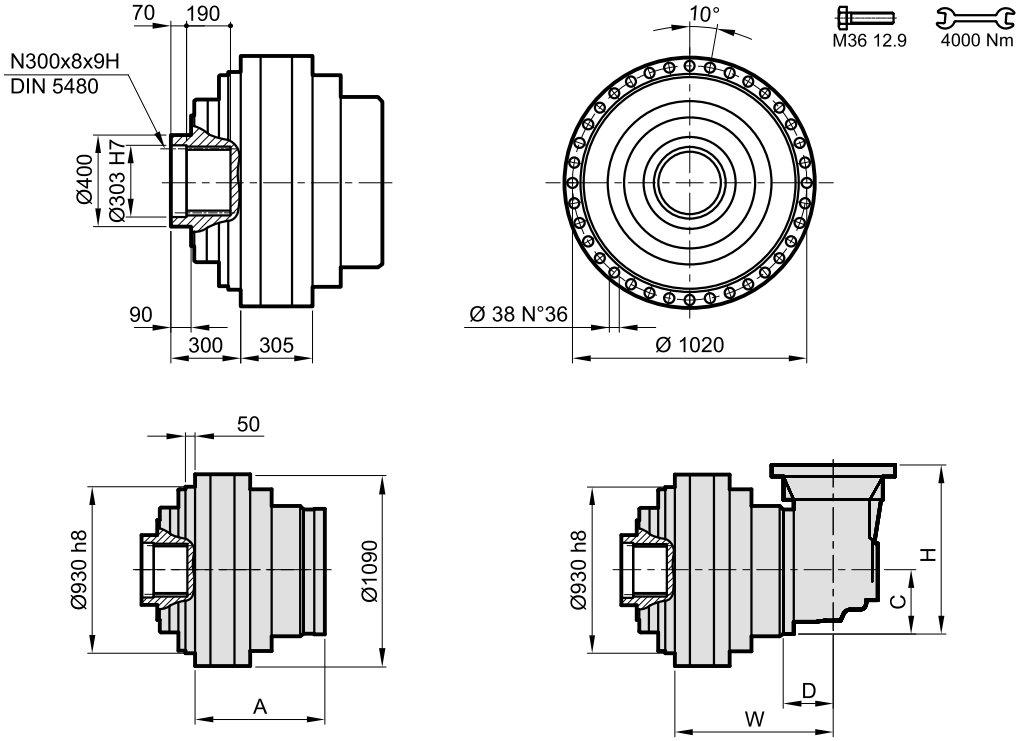
Max. Torque: 1061 kNm
Screw Tightening Torque: 1310 Nm

SA-T-□-760-810-36×32-□-□



See the chapter on Torque Arms

S□-E-210-□□-N300×260

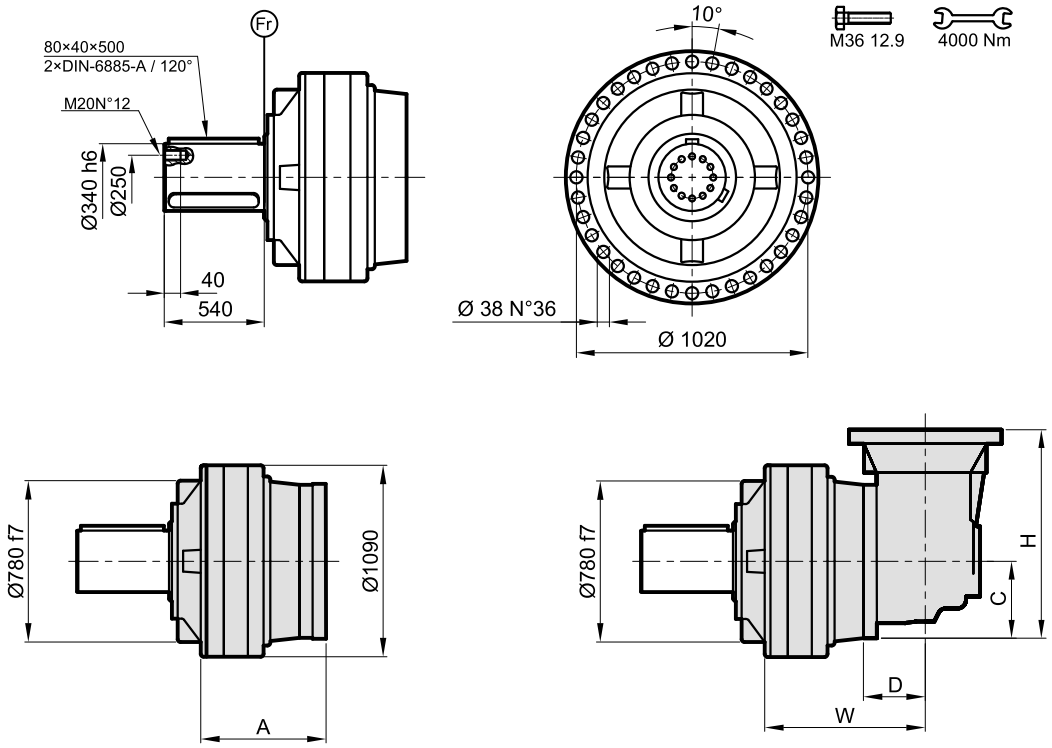


Stages	A	W	D	C	H	ST Mass (1)	SX Mass (1)
1	*	-	-	-	-	*	-
2	*	-	-	-	-	*	-
3	904	-	-	-	-	3600	-
4	1025	-	-	-	-	3700	-
5	1204	1184	101	173	457	4000	4100
6	-	*	*	*	*	-	*

(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

S□-E-210-□□-P340×540

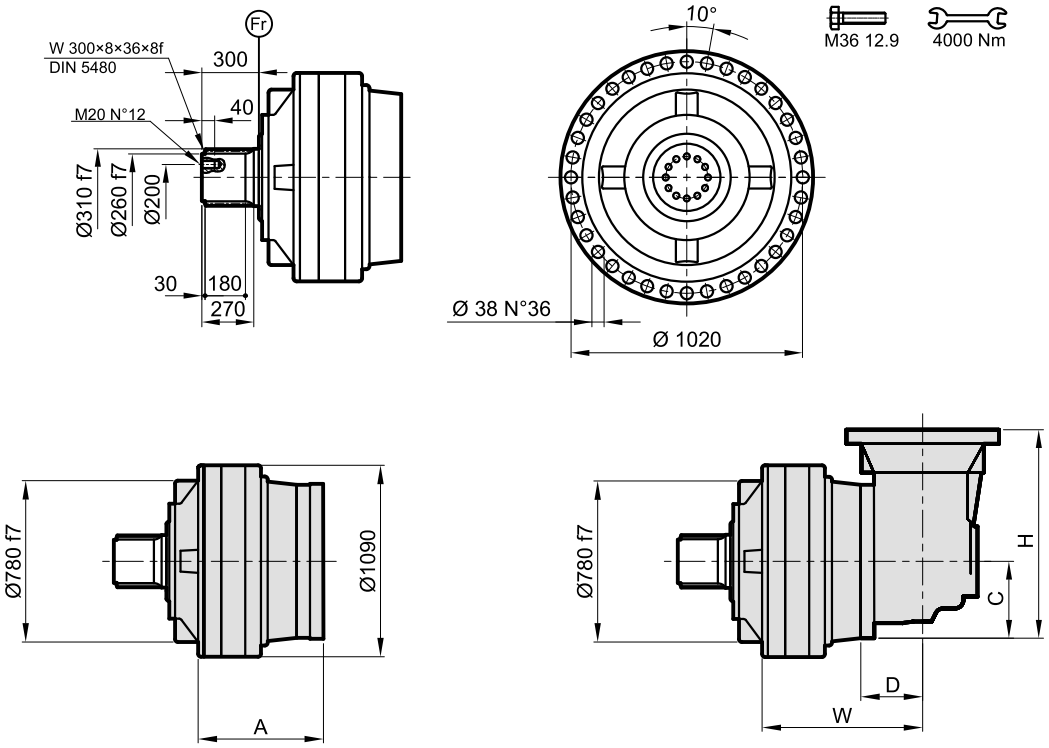


Stages	A	W	D	C	H	ST Mass (1)	SX Mass (1)
1	*	-	-	-	-	*	-
2	*	-	-	-	-	*	-
3	904	-	-	-	-	3600	-
4	1025	-	-	-	-	3700	-
5	1204	1184	101	173	457	4000	4100
6	-	*	*	*	*	-	*

(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

S□-E-210-□□-W300×300



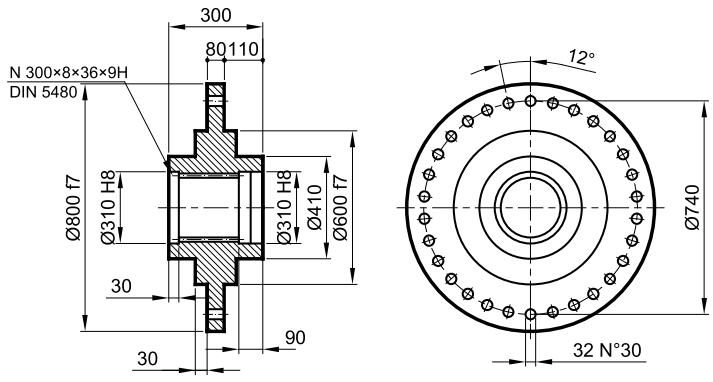
Stages	A	W	D	C	H	ST Mass (1)	SX Mass (1)
1	*	-	-	-	-	*	-
2	*	-	-	-	-	*	-
3	904	-	-	-	-	3600	-
4	1025	-	-	-	-	3700	-
5	1204	1184	101	173	457	4000	4100
6	-	*	*	*	*	-	*

(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.

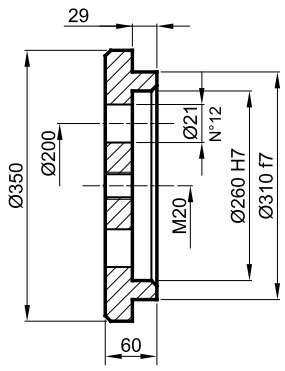
* Available upon request

Accessories

SA-F-300×8×36-S

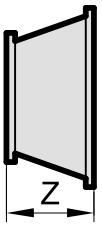


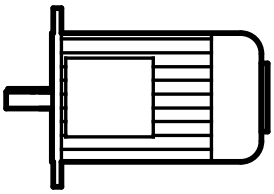
SA-P-310



Inputs

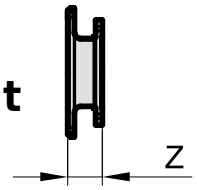
IEC Motor Input

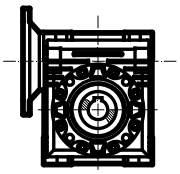




IEC	100	112	132	160	180	200	225	250	280	315
Stages	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
1	-	-	-	-	-	148.5	148.5	183.5	183.5	233
2	-	-	-	-	-	148.5	148.5	183.5	183.5	233
3	-	-	-	-	-	148.5	148.5	183.5	183.5	-
4	-	-	-	-	-	148.5	148.5	183.5	183.5	-
5	-	-	104	120.5	120.5	148.5	148.5	-	-	-
6	71	71	104	120.5	120.5	148.5	148.5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

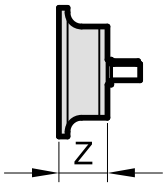
Worm Gearbox Input





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	-		-	185	211
6	-		-	185	211