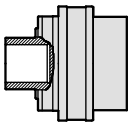
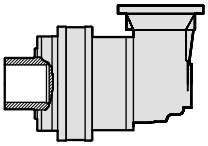
Size 130 - 69300 Nm

ST-130 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	3.83	69310	52210	138620	600	1000	60	98
	4.42	59850	45100	119700	600	1000	60	98
2	15.3	69310	52210	138620	1000	1500	50	96
	19.9	69310	52210	138620	1000	1500	50	96
	23.9	69310	52210	138620	1000	1500	50	96
	27.6	59850	45100	119700	1000	1500	50	96
3	56.1	69310	52210	138620	1500	2500	35	94
	67.8	69310	52210	138620	1500	2500	35	94
	73.0	69310	52210	138620	1500	2500	35	94
	88.8	69310	52210	138620	1500	2500	35	94
	99.5	69310	52210	138620	1500	2500	35	94
	115.4	69310	52210	138620	1500	2500	35	94
	123.8	59850	45100	119700	1500	2500	35	94
	138.7	69310	52210	138620	1500	2500	35	94
	167.4	69310	52210	138620	1500	2500	35	94
	193.4	59850	45100	119700	1500	2500	35	94
4	212.0	69310	52210	138620	1500	2800	25	92
	231.5	69310	52210	138620	1500	2800	25	92
	256.0	69310	52210	138620	1500	2800	25	92
	279.6	69310	52210	138620	1500	2800	25	92
	300.9	69310	52210	138620	1500	2800	25	92
	335.3	69310	52210	138620	1500	2800	25	92
	363.5	69310	52210	138620	1500	2800	25	92
	395.4	69310	52210	138620	1500	2800	25	92
	406.8	69310	52210	138620	1500	2800	25	92
	455.2	69310	52210	138620	1500	2800	25	92
	514.0	69310	52210	138620	1500	2800	25	92
	554.8	69310	52210	138620	1500	2800	25	92
	596.9	69310	52210	138620	1500	2800	25	92
	643.6	69310	52210	138620	1500	2800	25	92
	690.5	69310	52210	138620	1500	2800	25	92
	721.2	69310	52210	138620	1500	2800	25	92
	836.6	69310	52210	138620	1500	2800	25	92
	1009.7	69310	52210	138620	1500	2800	25	92
	1213.6	69310	52210	138620	1500	2800	25	92
	1402.3	59850	45100	119700	1500	2800	25	92

SX-130 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)	(%)
3	54.2	69310	52210	138620	1500	2500	35	94
	70.8	69310	52210	138620	1500	2500	35	94
	92.0	69310	52210	138620	1500	2500	35	94
	110.6	69310	52210	138620	1500	2500	35	94
	127.8	59850	45100	119700	1500	2500	35	94
4	188.6	69310	52210	138620	1500	2800	25	92
	227.7	69310	52210	138620	1500	2800	25	92
	257.1	69310	52210	138620	1500	2800	25	92
	298.3	69310	52210	138620	1500	2800	25	92
	313.5	69310	52210	138620	1500	2800	25	92
	334.3	69310	52210	138620	1500	2800	25	92
	387.7	69310	52210	138620	1500	2800	25	92
	407.5	69310	52210	138620	1500	2800	25	92
	460.1	69310	52210	138620	1500	2800	25	92
	489.8	69310	52210	138620	1500	2800	25	92
	533.7	69310	52210	138620	1500	2800	25	92
	572.5	59850	45100	119700	1500	2800	25	92
	641.5	69310	52210	138620	1500	2800	25	92
	744.3	59850	45100	119700	1500	2800	25	92
	894.6	59850	45100	119700	1500	2800	25	92

(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

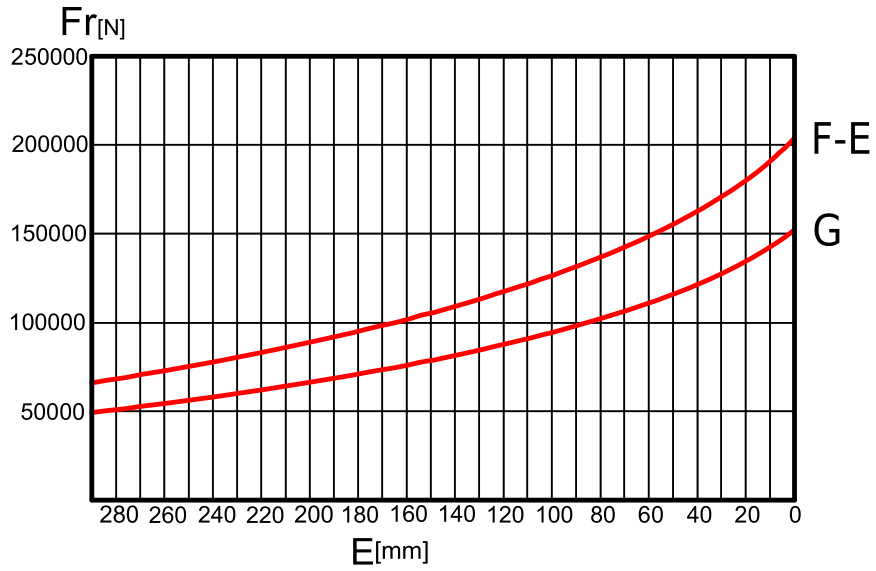
(4) n_{1max} is the maximum input speed for intermittent service. For continuous operation at speeds over n1n please inquire.

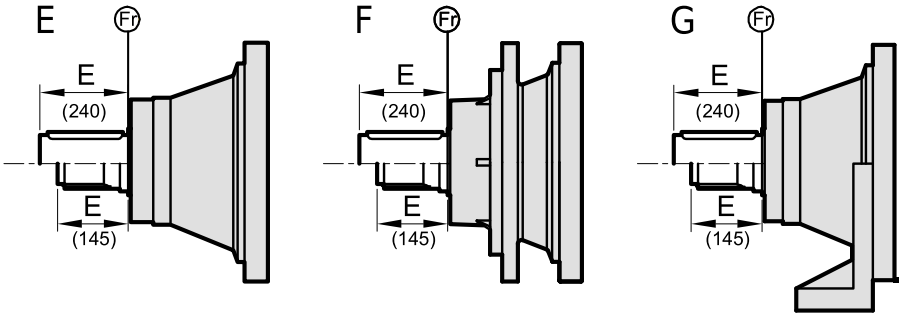
(5) Pt is the thermal power rating, that is the power in kW that, at 20°C, the gearbox can transmit during continuous operation, at $n_1=n_{1n}$ and lubricated with ISO-VG-220 oil without it exceeding 90°C. It depends on ambient temperature.

Output Shaft Radial Load Capacity

Radial Load Capacity is only given for gearboxes with solid shafts (Smooth Solid Shaft with Key (P) and DIN 5480 Splined Shaft (W)) for a design life of 6 million revolutions of the output shaft ($6 \cdot 10^6$). These values can be adjusted for other number of revolutions of the output shaft applying the Output Bearing Lifetime Factor (f_{obl})

Radial Load capacity depends on gearbox version and application point. Find the value for your machine using this chart.





Output Shaft Axial Load Capacity

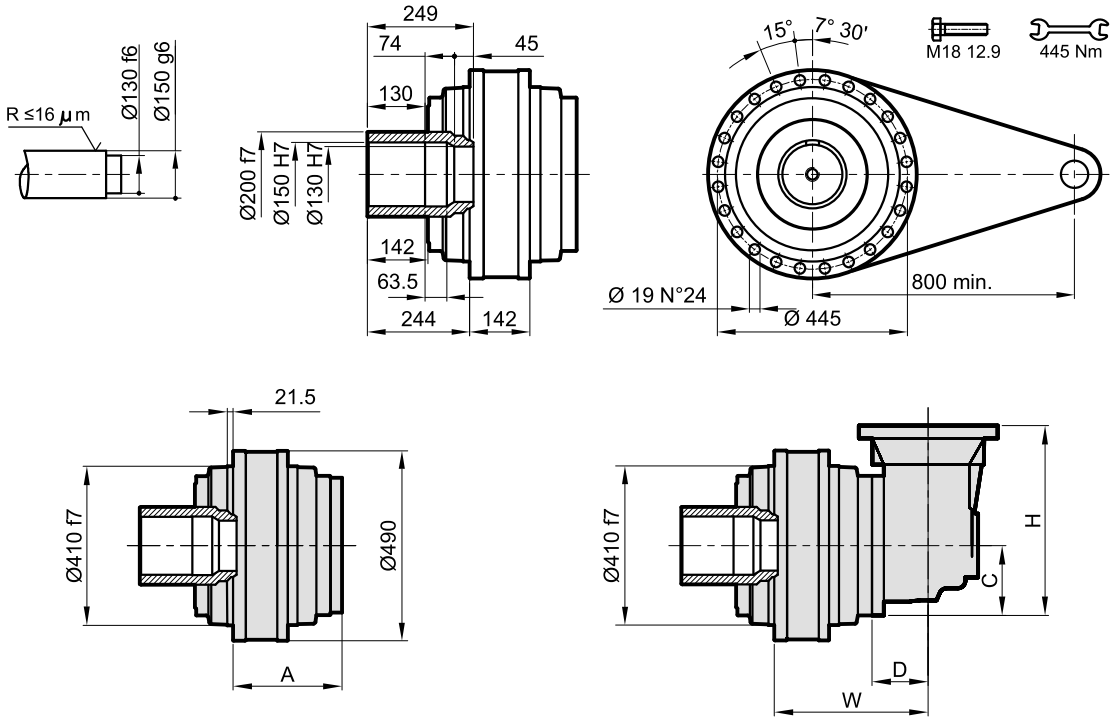
Axial Load Capacity is only given for gearboxes with solid shafts (Smooth Solid Shaft with Key (P) and DIN 5480 Splined Shaft (W)) for a design life of 6 million revolutions of the output shaft ($6 \cdot 10^6$). These values can be adjusted for other number of revolutions of the output shaft applying the Output Bearing Lifetime Factor (f_{obl})

Axial Load Capacity depends on the direction of the load:

	Push	Pull
F_a	100000 N	50000 N

Dimensions

S□-E-130-□□-H150×249

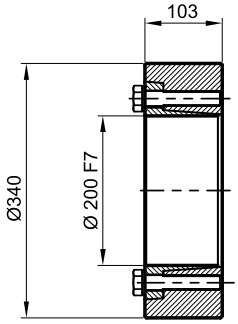


Stages	A	W	D	C	H	ST Mass (1)	SX Mass (1)
1	292	-	-	-	-	294	-
2	475	-	-	-	-	413	-
3	568	597	225	205	569	440	530
4	628	631.5	118.5	140	390	452	490

(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.

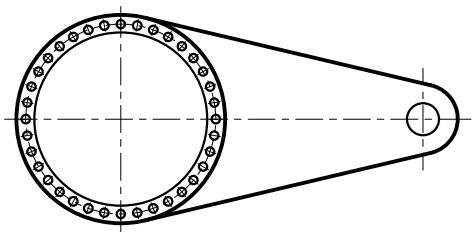
Accessories

SA-H-200



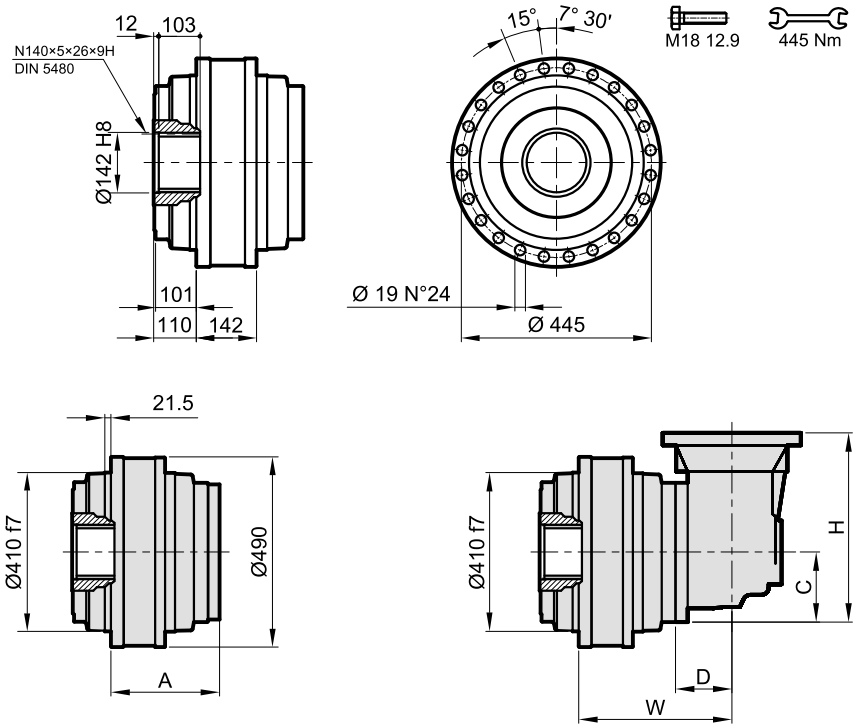
Max. Torque: 127 kNm
Screw Tightening Torque: 630 Nm

SA-T-□-340-370-15×17-□-□



See the chapter on Torque Arms

S□-E-130-□□-N140×115

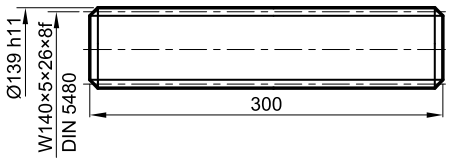


Stages	A	W	D	C	H	ST Mass (1)	SX Mass (1)
1	292	-	-	-	-	279	-
2	475	-	-	-	-	399	-
3	568	597	225	205	569	425	515
4	628	631.5	118.5	140	390	437	475

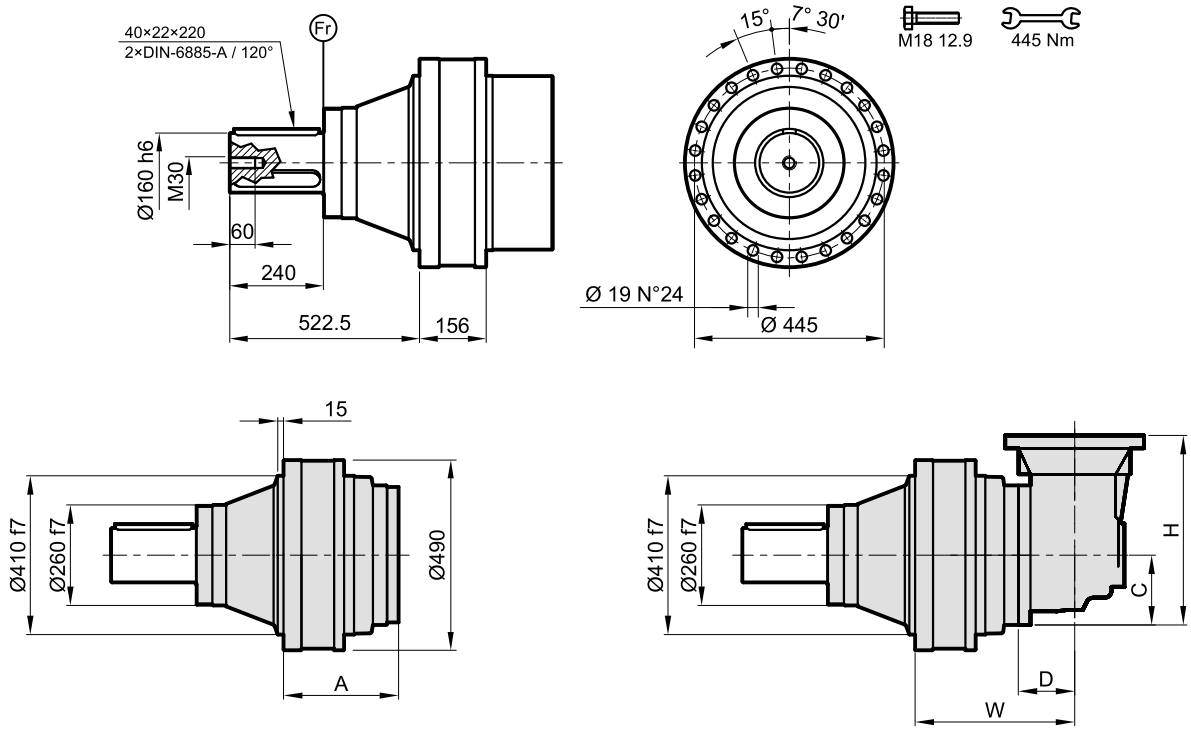
(1) Mass in kg for gearboxes without input modules (solid input shaft, motor flange, etc) or accessories. To obtain actual mass, add the mass for your chosen input module, please inquire.

Accessories

SA-S-140×5×26



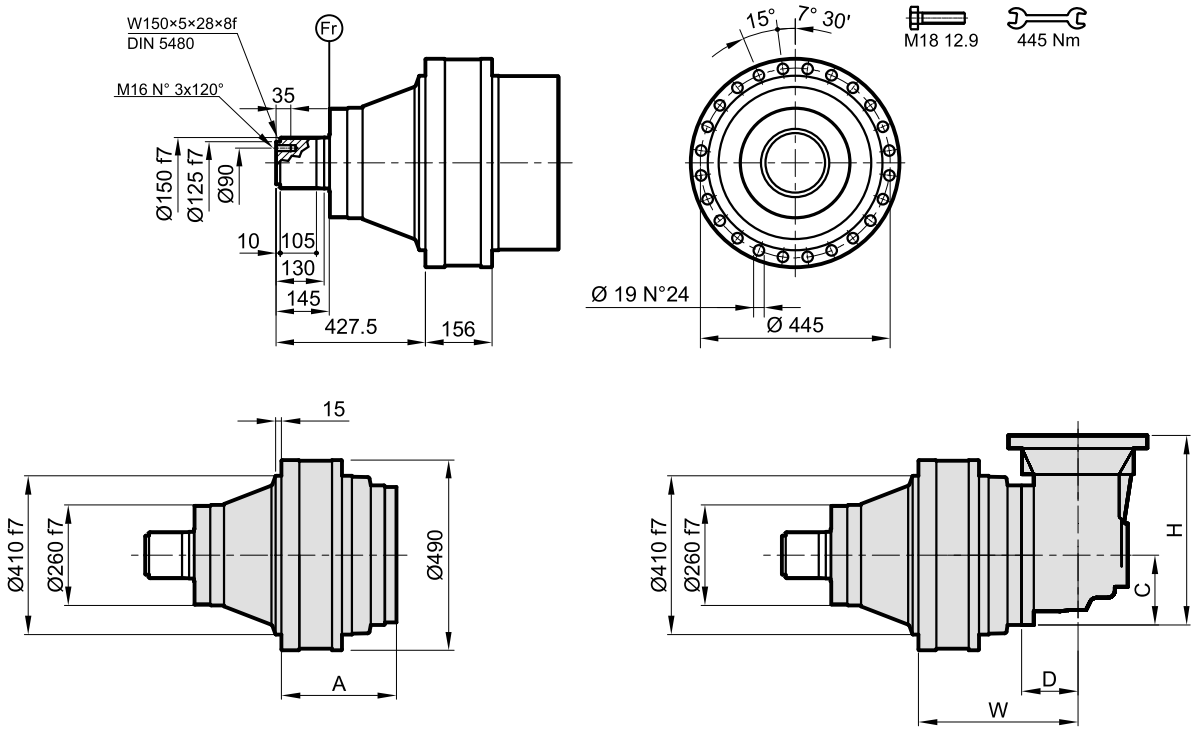
S□-E-130-□□-P160×240



Stages	A	W	D	C	H	ST Mass (1)	SX Mass (1)
1	306	-	-	-	-	386	-
2	489	-	-	-	-	506	-
3	582	611	225	205	569	532	622
4	642	645.5	118.5	140	390	544	582

(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.

S□-E-130-□□-W150×145

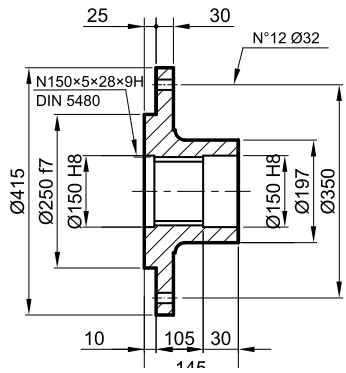


Stages	A	W	D	C	H	ST Mass (1)	SX Mass (1)
1	306	-	-	-	-	386	-
2	489	-	-	-	-	506	-
3	582	611	225	205	569	532	622
4	642	645.5	118.5	140	390	544	582

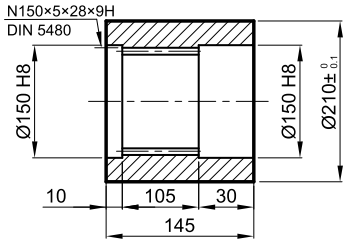
(1) Mass in kg for gearboxes without input modules (solid input shaft, motor flange, etc) or accessories. To obtain actual mass, add the mass for your chosen input module, please inquire.

Accessories

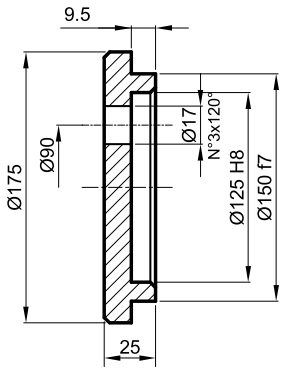
SA-F-150×5×28-S



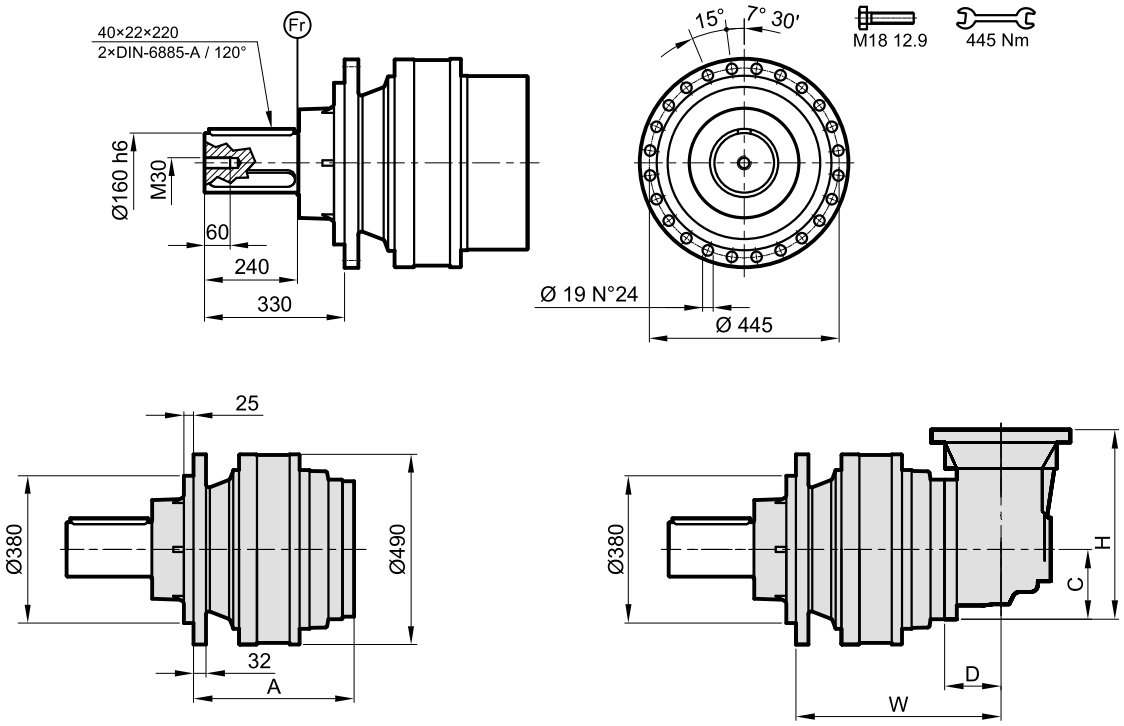
SA-B-150×5×28-S



SA-P-150



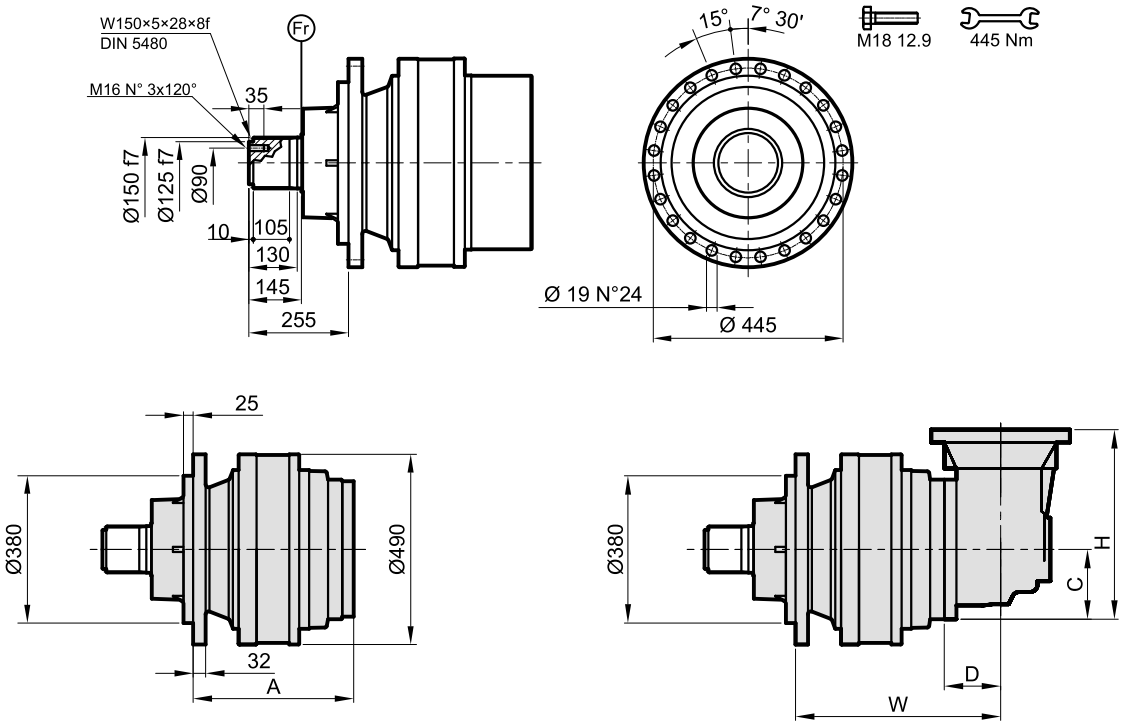
S□-F-130-□□-P160×240



Stages	A	W	D	C	H	ST Mass (1)	SX Mass (1)
1	478.5	-	-	-	-	420	-
2	661.5	-	-	-	-	540	-
3	754.5	784	225	205	569	566	656
4	814.5	818	118.5	140	390	578	616

(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.

S□-F-130-□□-W150×145

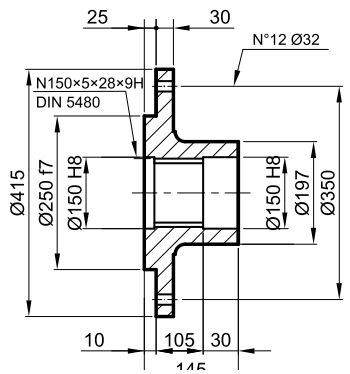


Stages	A	W	D	C	H	ST Mass (1)	SX Mass (1)
1	478.5	-	-	-	-	420	-
2	661.5	-	-	-	-	540	-
3	754.5	784	225	205	569	566	656
4	814.5	818	118.5	140	390	578	616

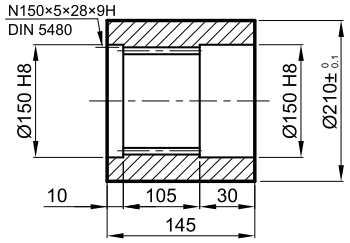
(1) Mass in kg for gearboxes without input modules (solid input shaft, motor flange, etc) or accessories. To obtain actual mass, add the mass for your chosen input module, please inquire.

Accessories

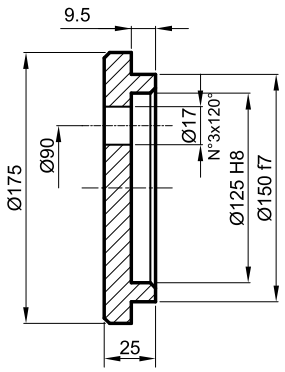
SA-F-150×5×28-S



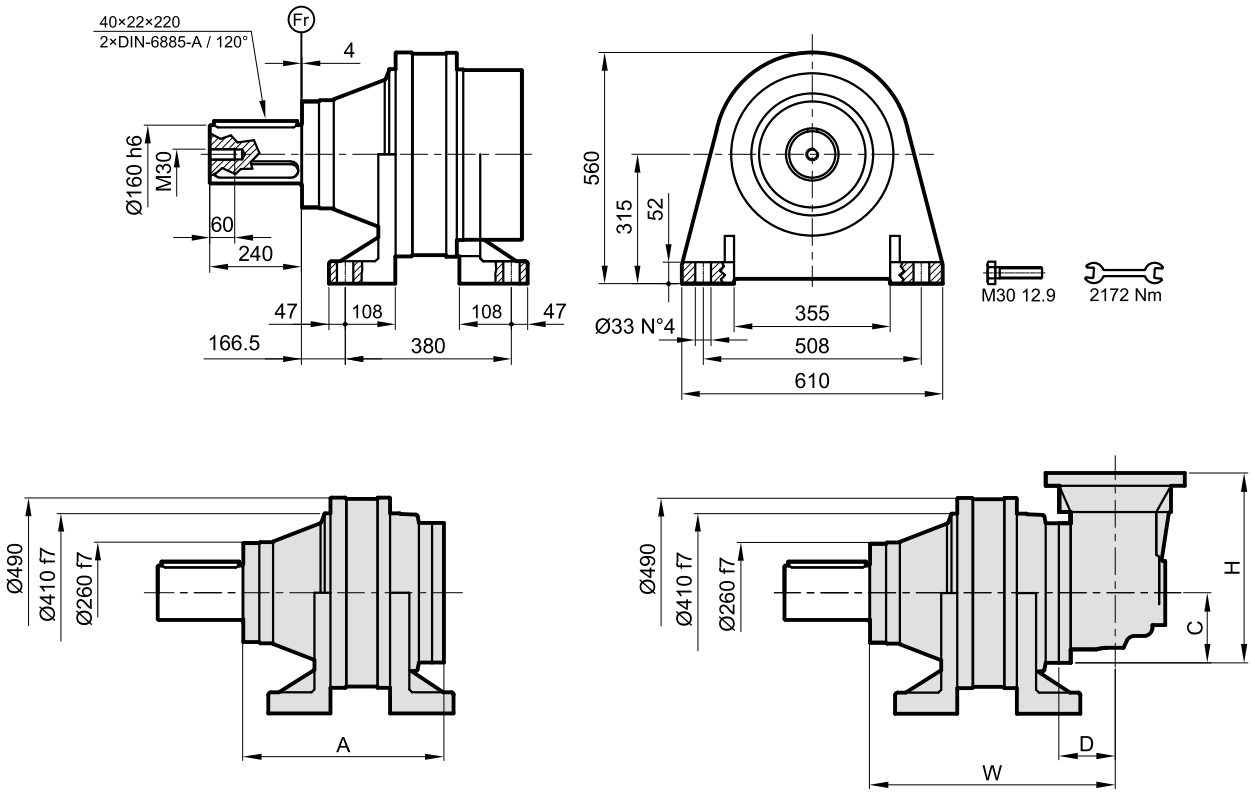
SA-B-150×5×28-S



SA-P-150



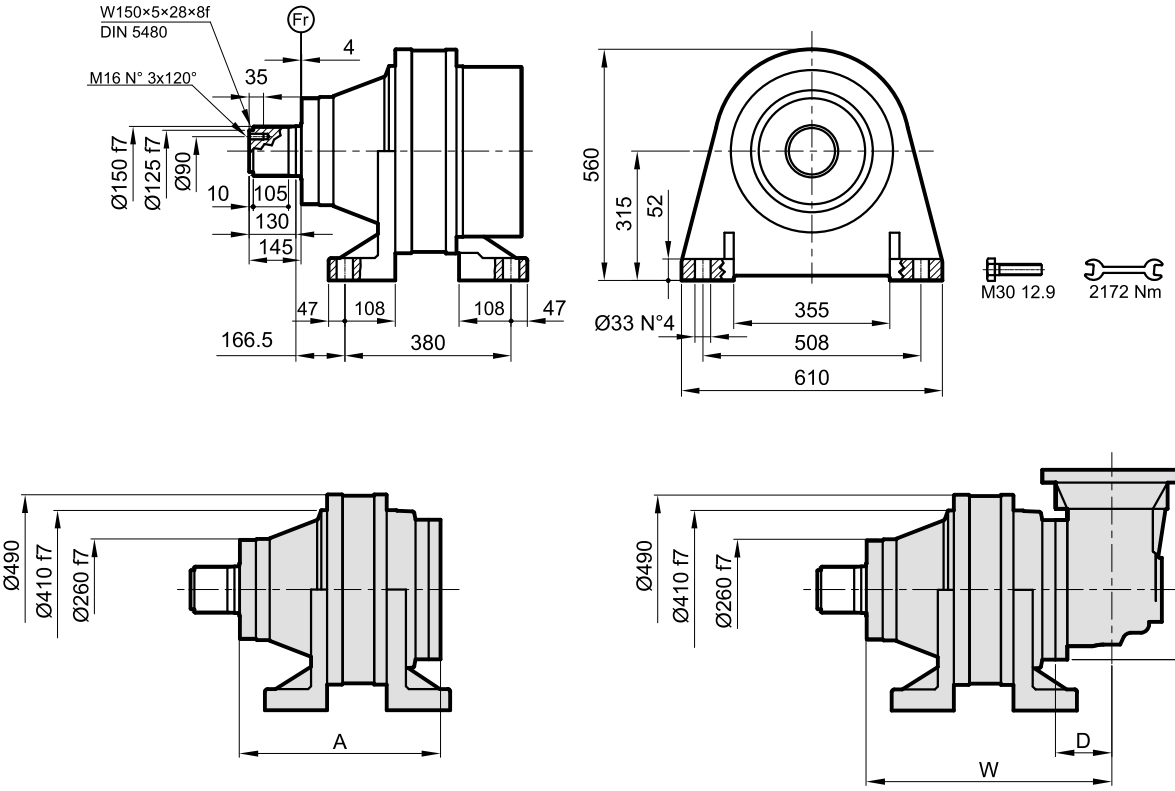
S□-G-130-□□-P160×240



Stages	A	W	D	C	H	ST Mass (1)	SX Mass (1)
1	589	-	-	-	-	472	-
2	772	-	-	-	-	592	-
3	865	894	225	205	569	618	708
4	925	928	118.5	140	390	630	668

(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.

S□-G-130-□□-W150×145

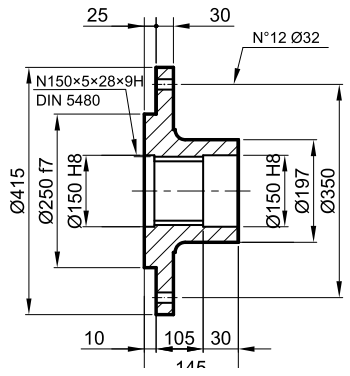


Stages	A	W	D	C	H	ST Mass (1)	SX Mass (1)
1	589	-	-	-	-	472	-
2	772	-	-	-	-	592	-
3	865	894	225	205	569	618	708
4	925	928	118.5	140	390	630	668

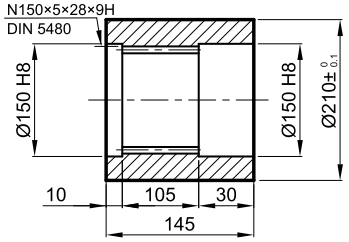
(1) Mass in kg for gearboxes without input modules (solid input shaft, motor flange, etc) or accessories. To obtain actual mass, add the mass for your chosen input module, please inquire.

Accessories

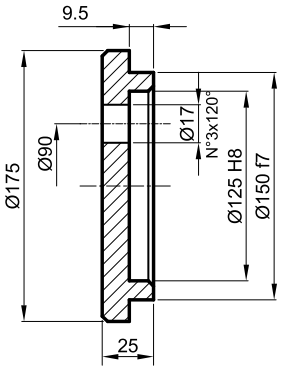
SA-F-150×5×28-S



SA-B-150×5×28-S

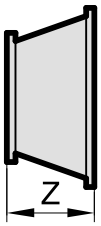


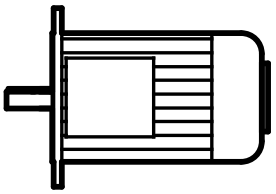
SA-P-150



Inputs

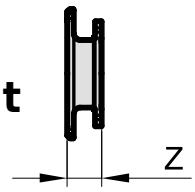
IEC Motor Input

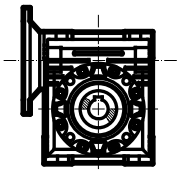




IEC	132	160	180	200	225	250	280
Stages	Z	Z	Z	Z	Z	Z	Z
1	-	120.5	120.5	148.5	148.5	183.5	183.5
2	-	120.5	120.5	148.5	148.5	183.5	183.5
3	104	120.5	120.5	148.5	148.5	183.5	183.5
4	104	120.5	120.5	148.5	148.5	-	-

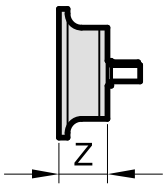
Worm Gearbox Input





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	-	-	-	-	95
4	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	-		-	185	-
2	-		159	185	-
3	112		159	-	-
4	112		-	-	-