

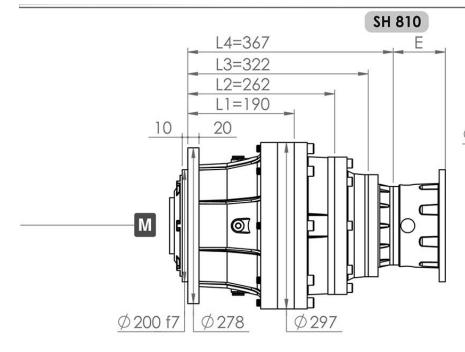
Type 810

The Type 810 planetary gearbox is a high-performance unit engineered for intensive industrial use, where both high torque and operational stability are required. Thanks to its scalable architecture, it supports up to four gear stages (L1 through L4), making it suitable for systems with diverse mechanical needs—from mild deceleration to extremely high torque output. The single-stage configuration (L1) offers gear ratios between 4.30 and 7.90, capable of delivering torque from 3420 to 11020 Nm. In dual-stage setups (L2), the ratio expands to a range of 14.62 to 55.30. For more demanding tasks, the three-stage design (L3) provides gear ratios between 58.48 and 398.16, while the four-stage option (L4) allows for reductions from 341.80 up to 2472.57. Built to handle power inputs of 11, 15, 21, or 35 kW, and operating reliably at speeds up to 1500 rpm, the Type 810 is ideal for machinery exposed to continuous operation, variable loads, and high mechanical stress.

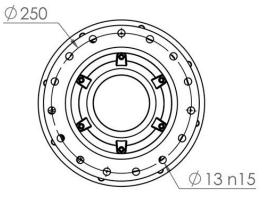
The Type 810 planetary gearbox is particularly suited for heavy-duty industrial sectors that require sustained performance under high torque loads and variable operational speeds. Its broad range of gear reductions—from moderate to extreme—makes it an excellent fit for applications involving complex mechanical demands. In industries such as mining, metal processing, cement, and bulk material handling, where torque levels can reach beyond 11,000 Nm and precise motion control is crucial, this gearbox ensures reliable transmission and energy efficiency. Thanks to its modular four-stage configuration and compatibility with input powers up to 35 kW, it integrates seamlessly into equipment like large conveyor drives, rotary kilns, high-torque winches, industrial mixers, and heavy-duty shredding systems. Whether the system is under constant duty or frequent load shifts, the Type 810 maintains stable operation and long service life.

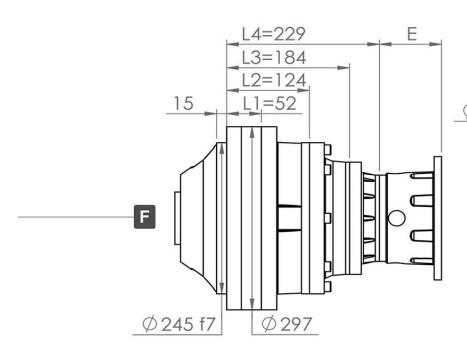
	i					n1 max	T2 max	pt		
L	1/	10000 (10)4	25000 (2.5*10)4	50000 (5*10)4	100000 (10)5	500000 (5*10)5	1000000 (10)6	[min]	[Nm]	[Kw]
	4.30	11020	10160	10020	9520	7540	6130			
	5.47	9620	8050	7000	6530	5900	5690			
L1	6.42	8570	7130	6190	5920	5370	5140	1500	15000	35
	7.90	5520	4580	4100	3930	3580	3430			
	14.62	11020	10160	10020	9520	7540	6130			
	17.20	11020	10160	10020	9520	7540	6130			
	18.60	9620	8050	7000	6530	5900	5690			
	21.50	11020	10160	10020	9520	7540	6130			
	21.83	8570	7130	6190	5920	5370	5140			
	21.88	9620	8050	7000	6530	5900	5690			
	24.94	11020	10160	10020	9520	7540	6130			
	25.68	8570	7130	6190	5920	5370	5140			
	26.86	5520	4580	4100	3930	3580	3430			
	27.35	9620	8050	7000	6530	5900	5690			
	30.10	11020	10160	10020	9520	7540	6130			
L2	31.60	5520	4580	4100	3930	3580	3430			
	31.73	9620	8050	7000	6530	5900	5690			
	32.10	8570	7130	6190	5920	5370	5140			
	37.24	8570	7130	6190	5920	5370	5140	1500	15000	21
	38.29	9620	8050	7000	6530	5900	5690			
	39.50	5520	4580	4100	3930	3580	3430			
	44.94	8570	7130	6190	5920	5370	5140			
	45.82	5520	4580	4100	3930	3580	3430			
	55.30	5520	4580	4100	3930	3580	3430			
	58.48	11020	10160	10020	9520	7540	6130			
	64.91	11020	10160	10020	9520	7540	6130			
	68.80	11020	10160	10020	9520	7540	6130			
	70.52	11020	10160	10020	9520	7540	6130			
L3	76.37	11020	10160	10020	9520	7540	6130			
	79.24	11020	10160	10020	9520	7540	6130			
	84.80	11020	10160	10020	9520	7540	6130			
	93.22	11020	10160	10020	9520	7540	6130			
	99.76	11020	10160	10020	9520	7540	6130			

	i			n1 max	T2 max	pt				
L	1/	10000	25000	50000	2*h 100000	500000	1000000	[min]	[Nm]	[Kw]
	1/	(10)4	(2.5*10)4	(5*10)4	(10)5	(5*10)5	(10)6			
	102.34	11020	10160	10020	9520	7540	6130			
	105.26	11020	10160	10020	9520	7540	6130			
	116.53	11020	10160	10020	9520	7540	6130			
	120.40	11020	10160	10020	9520	7540	6130			
	123.84	11020	10160	10020	9520	7540	6130			
	124.70	11020	10160	10020	9520	7540	6130			
	135.17	11020	10160	10020	9520	7540	6130			
L3	144.65	11020	10160	10020	9520	7540	6130	1500	15000	15
	150.50	11020	10160	10020	9520	7540	6130			
	154.80	11020	10160	10020	9520	7540	6130			
	174.58	11020	10160	10020	9520	7540	6130			
	179.57	11020	10160	10020	9520	7540	6130			
	210.70	11020	10160	10020	9520	7540	6130			
	216.72	11020	10160	10020	9520	7540	6130			
	268.03	9620	8050	7000	6530	5900	5690			
	275.69	9620	8050	7000	6530	5900	5690			
	314.58	8570	7130	6190	5920	5370	5140			
	323.57	8570	7130	6190	5920	5370	5140			
	398.16	5520	4580	4100	3930	3580	3430			
	341.80	11020	10160	10020	9520	7540	6130			
	403.11	11020	10160	10020	9520	7540	6130			
	474.25	11020	10160	10020	9520	7540	6130			
	492.08	11020	10160	10020	9520	7540	6130			
	578.92	11020	10160	10020	9520	7540	6130			
	723.65	11020	10160	10020	9520	7540	6130			
	839.44	11020	10160	10020	9520	7540	6130			
L4	920.55	9620	8050	7000	6530	5900	5690	1500	15000	11
	1067.84	9620	8050	7000	6530	5900	5690			
	1345.83	11020	10160	10020	9520	7540	6130			
	1712.02	9620	8050	7000	6530	5900	5690			
	2009.36	8570	7130	6190	5920	5370	5140			
	2472.57	5520	4580	4100	3930	3580	3430			

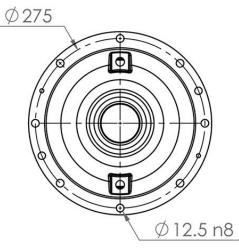


Output Flange Dimensions

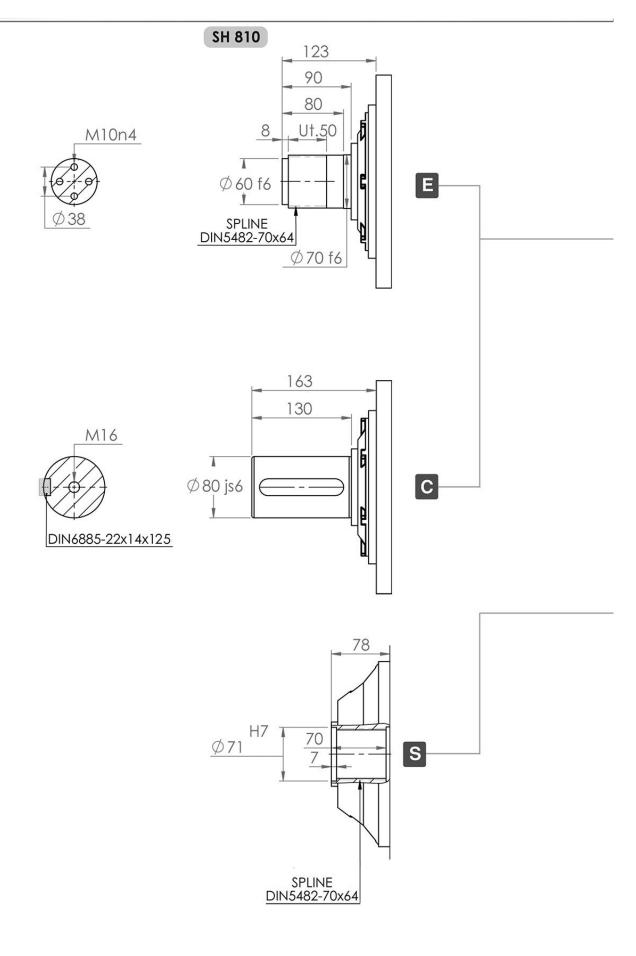




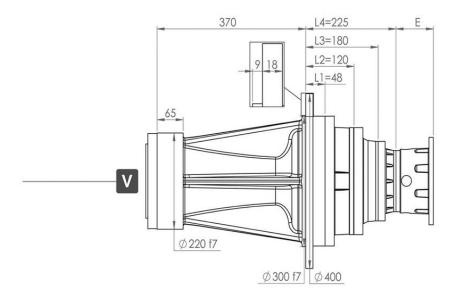
Output Flange Dimensions



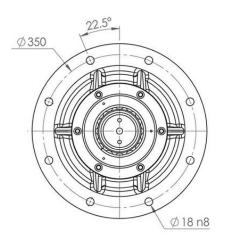
MOTOR	FRAME	80-4A	90LA	90LB	100LA	100LB	112M	132MA	132MB	160LA	160LB	180M	180L	200L	225\$
E	L1		-	-	-	-	-	-		-	-		-	177	207
	L2		-	-	•	-	-		-	177	177	177	177	3 5 8	-
	L3		96	96	117	117	117	132	132				-		-
	L4	93	93	93	103	103	ē	-	-		-		-	5 . 85	

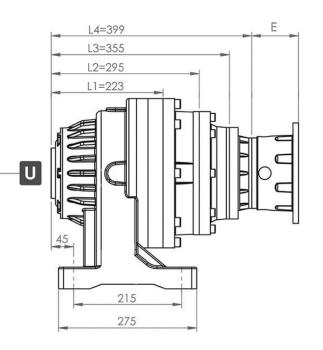


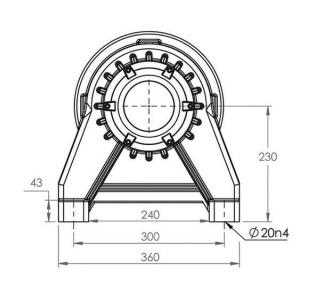
SH 810



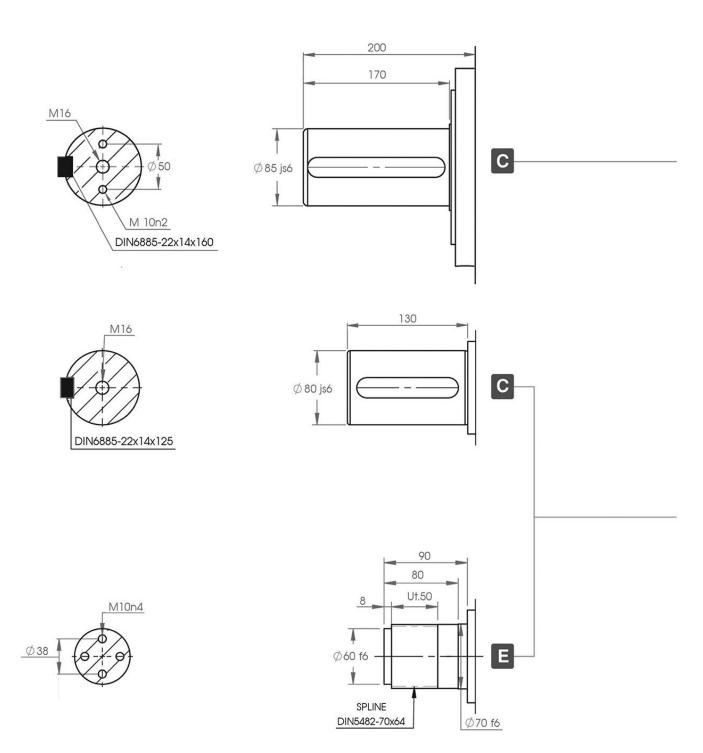
Output Flange Dimensions



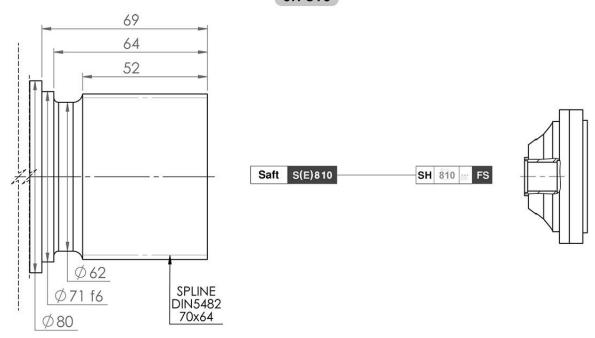


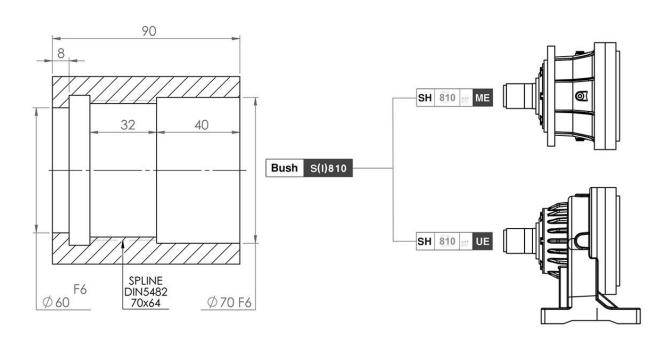


MOTOR	FRAME	80-4A	90LA	90LB	100LA	100LB	112M	132MA	132MB	160LA	160LB	180M	180L	200L	225\$
E	L1	-		-	-		-	-			-	- 5	-	177	207
	L2		-	-	-		-	-	9	177	177	177	177	-	-
	L3	-	96	96	117	117	117	132	132	-	-		-	-	
	L4	93	93	93	103	103		-		-	-		-		



SH 810





Modified radial load $F_{r.2}(f_s) = F_{r.2} \times f_s$