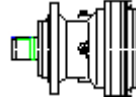


NB309 GEARBOX
(PARAMETER AND DIMENSION)

M2'-18500 N.M

NB309L

M2'=18500N.m



I	n ₂ .h	n ₂ .h	Mn ₂ (N.m)	n ₂ .h	n ₂ .h	P ₁	P ₁ (KW)	n ₁	n _{1max}	M _b	B r a k e t y p e	
												(ta=20 °C)
1:	1000	25000	5000	100000	5000	1000	(KW)	(n ₁ =150)	(min ⁻¹)	(min ⁻¹)	(N.m)	制 动 器 械
L 3.4 1	22 500	20 600	19 000	16 800	10 400	8 400	130	25	1 500	2 000	3 200	6L
4.4	22 500	20 600	19 000	16 800	10 400	8 400	130	25	1 500	2 000	3 200	6L
5.3	21 000	18 100	16 200	16 000	10 700	8 700	130	25	1 500	2 000	3 200	6L
6.2	17 000	14 400	13 000	13 000	10 400	8 500	130	25	1 500	2 000	3 200	6L
L 12. 2	18 000	17 500	16 500	15 200	9 400	7 600	60	18	1 750	3 500	1 000	5 K
16. 1	21 300	20 600	19 000	15 600	9 600	7 800	60	18	1 750	3 500	1 000	5 K
18. 5	21 300	20 600	19 000	15 600	9 600	7 800	60	18	1 750	3 500	1 000	5 K
22	18 000	17 500	16 500	15 200	9 400	7 600	60	18	1 750	3 500	1 000	5 K
26. 3	21 000	18 100	16 200	16 000	10 700	8 700	60	18	1 750	3 500	1000	5 K
29. 2	18 000	17 500	16 500	15 200	9 400	7 600	60	18	1 750	3 500	1000	5 K
35. 8	17 000	14 400	13 000	13 000	10 400	8 500	57	18	1 750	3 500	800	5 E

	42.	17		13		10	8 500	42	18	1 750	3 500	500	5
		5 000	14 400	000	13 000	400							C
L	42.	18		16		9 400	7 600	42	11	1 750	3 500	440	4L
3		5 000	17 500	500	15 200								
	54.	21		19		9 600	7 800	36	11	1 750	3 500	440	4L
		6 300	20 600	000	15 600								
	62.	21		19		9 600	7 800	33	11	1 750	3 500	400	4
		5 300	20 600	000	15 600								K
	82.	21		19		9 600	7 800	28	11	1 750	3 500	330	4
		1 300	20 600	000	15 600								H
	10	21		19		9 600	7 800	23	11	1 750	3 500	260	4F
		7 300	20 600	000	15 600								
	12	18		16		9 400	7 600	20	11	1 750	3 500	260	4F
		7 000	17 500	500	15 200								
	15	21		16		10	8 700	17	11	1 750	3 500	160	4
		1 000	18 100	200	16 000	700							D
	16	18		16		9 400	7 600	16	11	1 750	3 500	160	4
		9 000	17 500	500	15 200								D
	21	18		16		9 400	7 600	13	11	1 750	3 500	100	4
		1 000	17 500	500	15 200								B
	25	17		13		10	8 500	8	11	1 750	3 500	100	4
		8 000	14 400	000	13 000	400							B
	30	17		13		10	8 500	7	11	1 750	3 500	100	4
		6 000	14 400	000	13 000	400							B
L	27	21		19		9 600	7 800	10	7.5	1 750	3 500	100	4
4		8 300	20 600	000	15 600								B
	36	21		19		9 600	7 800	8	7.5	1 750	3 500	100	4
		5 300	20 600	000	15 600								B
	47	21		19		9 600	7 800	6.5	7.5	1 750	3 500	50	4
		4 300	20 600	000	15 600								A
	59	21		19		9 600	7 800	5.5	7.5	1 750	3 500	50	4
		1 300	20 600	000	15 600								A
	76	21		19		9 600	7 800	4.5	7.5	1 750	3 500	50	4
		8 300	20 600	000	15 600								A
	91	21		16		10	8 700	3.3	7.5	1 750	3 500	50	4
		4 000	18 100	200	16 000	700							A
	10	18		16		9 400	7 600	2.7	7.5	1 750	3 500	50	4
		90 000	17 500	500	15 200								A
	12	18		16		9 400	7 600	2.5	7.5	1 750	3 500	50	4
		15 000	17 500	500	15 200								A

15	18		17 500	16	15 200	9 400	7 600	2.1	7.5	1 750	3 500	50	4
16	000			500									A
18	17		14 400	13	13 000	10	8 500	1.6	7.5	1 750	3 500	50	4
56	000			000		400							A
22	17		14 400	13	13 000	10	8 500	1.4	7.5	1 750	3 500	50	4
02	000			000		400							A
$M_{2max}=1.2 \times Mn2(n2 \times h=10\ 000)$													

NB309R

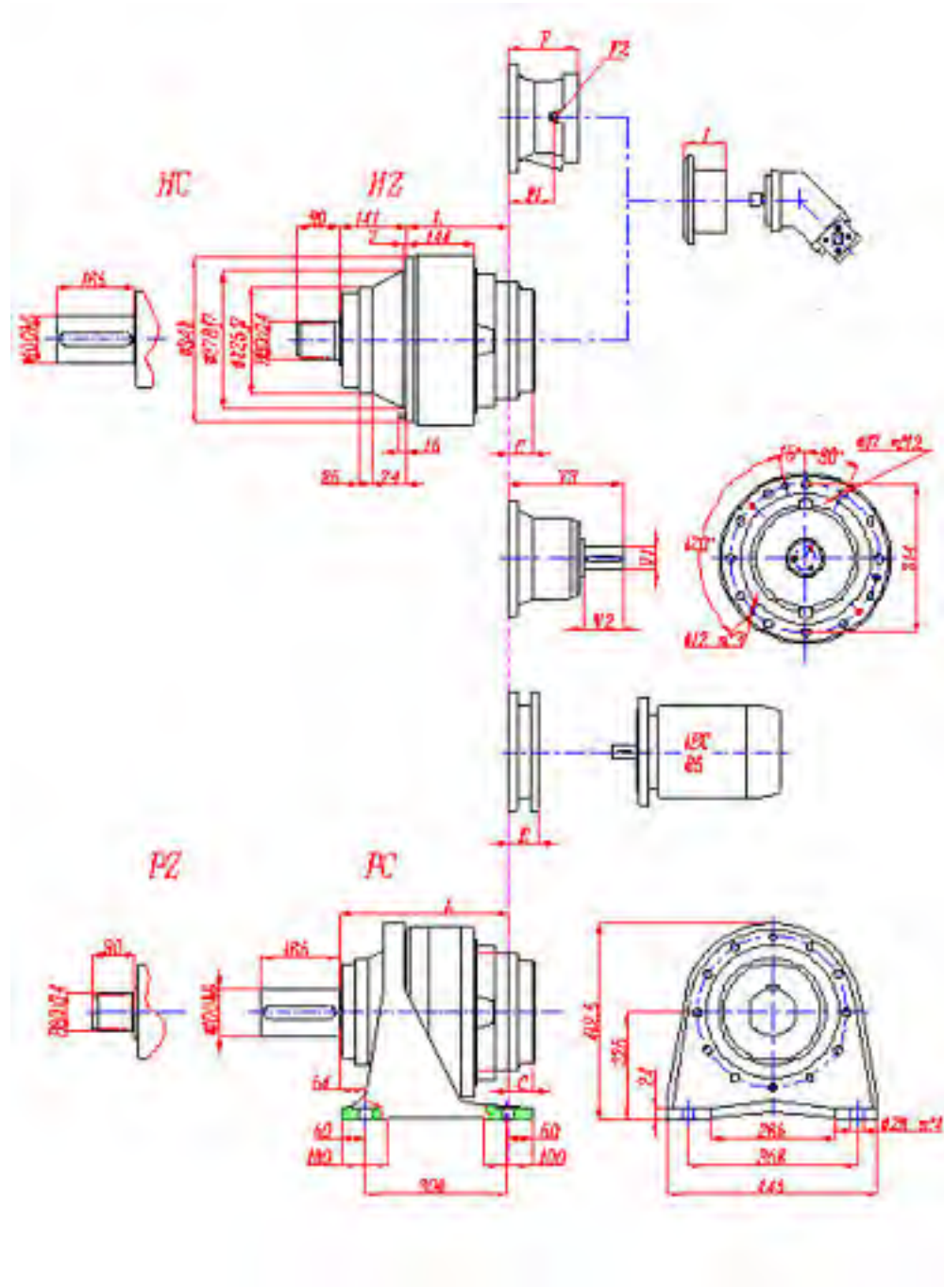
M2'=18500N.m



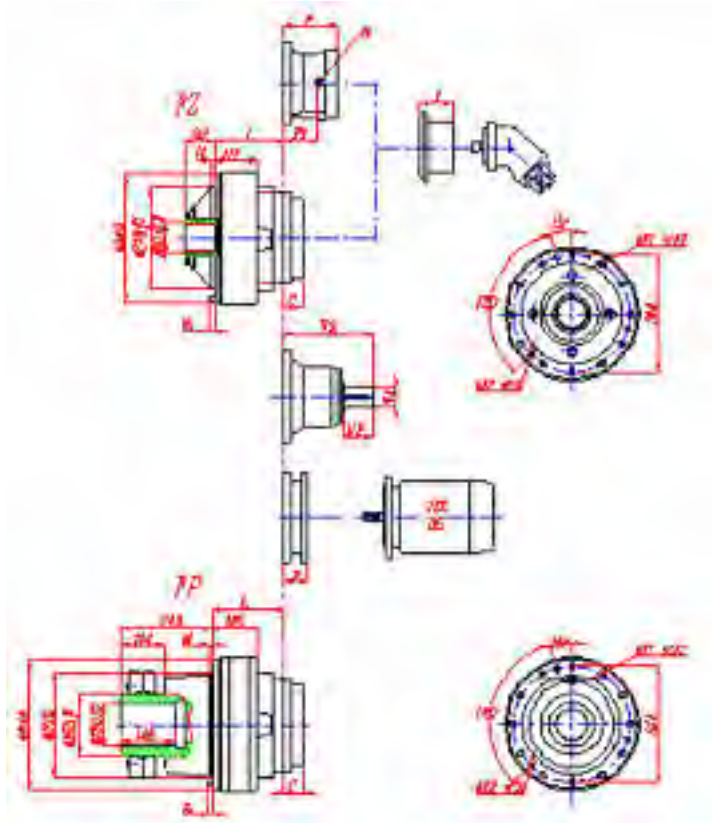
I	Mn ₂ (N.m)						P ₁	P ₁ (KW) (ta=20°C)	n ₁	n _{1max}	M _b	Brake type	
	n ₂ .h	n ₂ .h	n ₂ .h	n ₂ .h	n ₂ .h	n ₂ .h							
1:	10000	25000	50000	100000	500000	1000000	(KW)	(n ₁ =1500)	(min ⁻¹)	(min ⁻¹)	(N.m)	制动器	
R2	13	9 100	8 500	7 600	6 800	5 500	4 400	60	35	1 750	3 500	1000	5K
	16.7	11 000	9 800	8 900	12 500	7 900	6 400	50	35	1 750	3 500	1000	5K
	19.9	14 000	12 000	10 700	10 500	7 700	6 200	45	35	1 750	3 500	1000	5K
	23.6	16 000	14 000	12 500	11 200	8 000	6 500	45	35	1 750	3 500	800	5G
R3	32.2	12 000	11 000	9 500	7 200	4 400	3 600	25	20	1 750	3 500	440	4L
	41.3	14 300	12 600	10 000	8 600	5 600	4 800	22	20	1 750	3 500	440	4L
	47.4	17 300	14 600	11 000	9 600	5 600	4 800	20	20	1 750	3 500	440	4L
	56.4	18 000	17 000	16 000	14 200	8 400	6 600	20	20	1 750	3 500	400	4K
	67.3	21 000	18 100	16 200	16 000	10 700	8 700	22	20	1 750	3 500	400	4K
	75	18 000	17 500	16 500	15 200	9 400	7 600	20	20	1 750	3 500	330	4H
	91.7	17 000	14 400	13 000	13 000	10 400	8 500	18	20	1 750	3 500	260	4F
	109	17 000	14 400	13 000	13 000	10 400	8 500	16	20	1 750	3 500	260	4F
R4	128	21 300	20 600	19 000	15 600	9 600	7 800	15.5	14	1 750	3 500	260	4F
	168	21 300	20 600	19 000	15 600	9 600	7 800	15	14	1 750	3 500	160	4D
	219	21 300	20 600	19 000	15 600	9 600	7 800	12	14	1 750	3 500	160	4D
	260	18 000	17 500	16 500	15 200	9 400	7 600	10.5	14	1 750	3 500	100	4B
	310	21 000	18 100	16 200	16 000	10 700	8 700	9	14	1 750	3 500	100	4B
	346	18 000	17 500	16 500	15 200	9 400	7 600	8	14	1 750	3 500	100	4B
	433	18 000	17 500	16 500	15 200	9 400	7 600	7	14	1 750	3 500	50	4A
	529	17 000	14 400	13 000	13 000	10 400	8 500	4.5	14	1 750	3 500	50	4A
	627	17 000	14 400	13 000	13 000	10 400	8 500	4	14	1 750	3 500	50	4A

714	7 000	5 900	5 500	5 500	4 700	3 850	1.5	12	1 750	3 500	50	4A
$M_{2max}=1.2 \times Mn2 (n2 \times h=10\ 000)$												

NB309L



NB309L



FP version

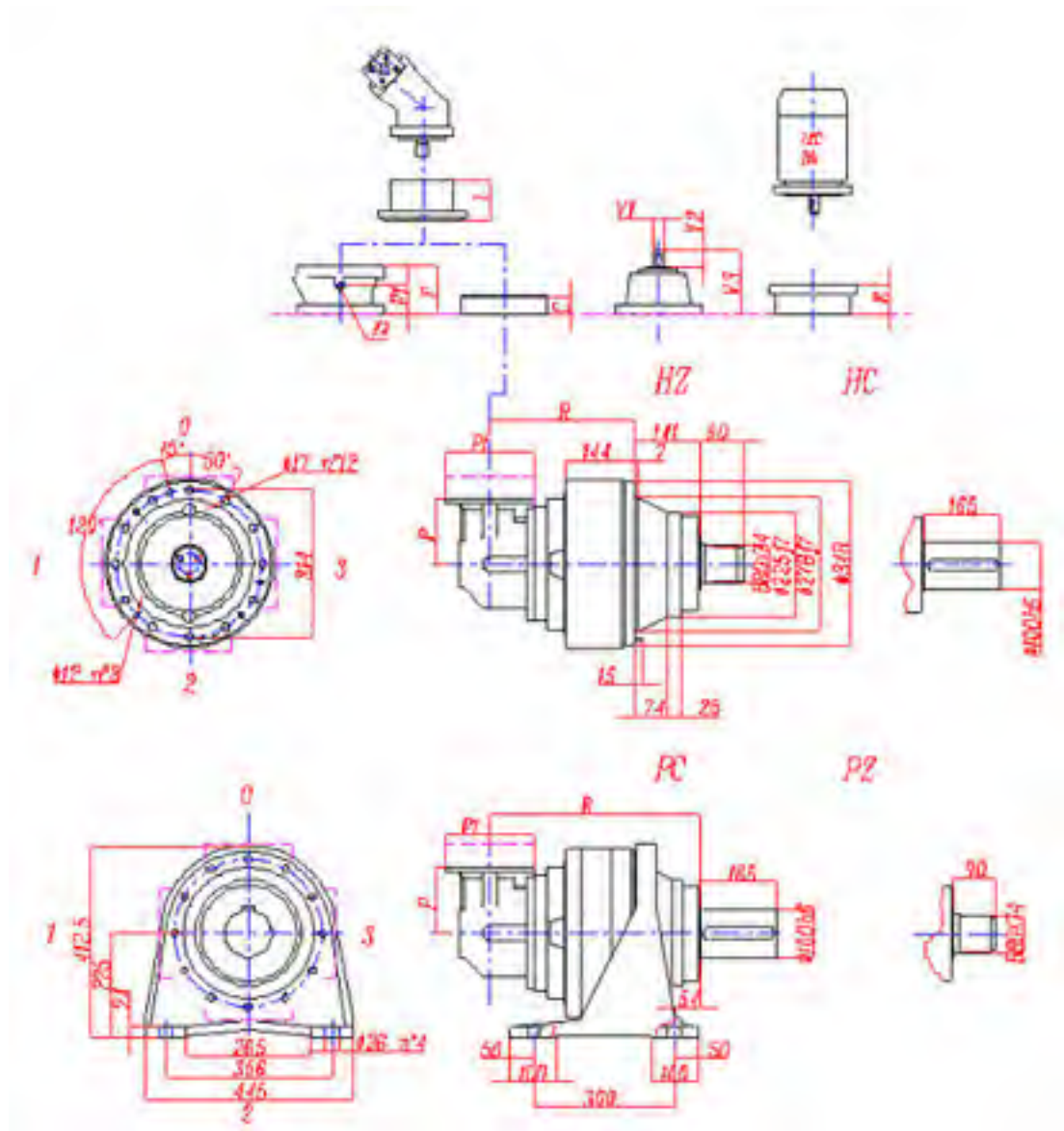
Max. transmissible

25000 N.m

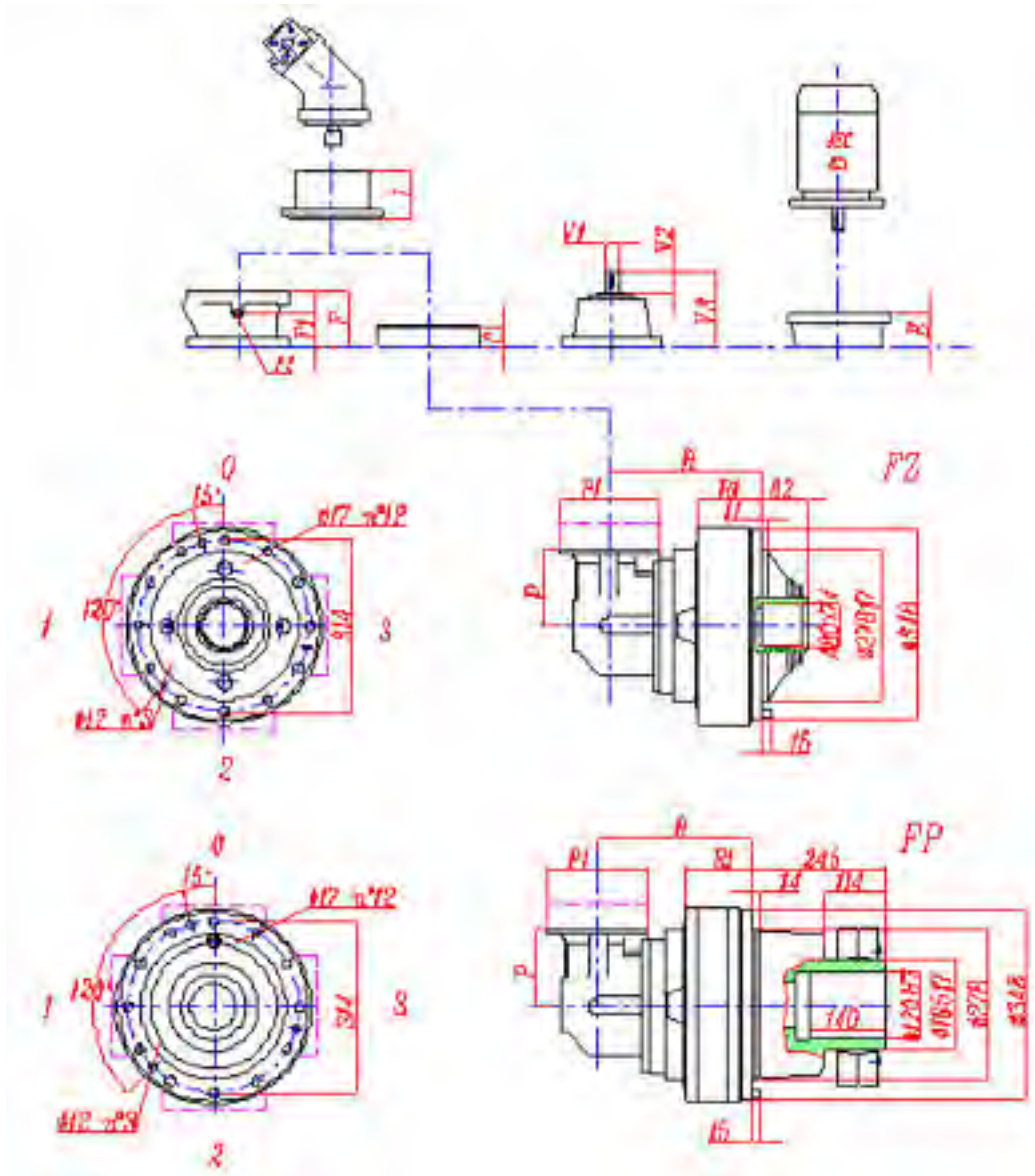
	L				Ref. weight (without input)(Kg)				C	I	Brake				
	HZHC	PCPZ	FZ	FP	HZHC	PCPZ	FZ	FP			F	F1	F2	Type	Ref. Weight
309L1	126	267	99	101	115	130	95	100	51	According to hydraulic motor	201	153	1/4 G	6	38 Kg
309L2	219	360	192	194	127	142	107	112	37		145	95	1/4 G	5	22 Kg
309L3	284	425	257	259	134	149	114	119	37		105	65	1/4 G	4	15 Kg
309L4	337	478	310	312	138	153	118	123	37		105	65	1/4 G	4	15 Kg

	E (IEC motor input)															
	IEC71	IEC80	IEC90	IEC100	IEC112	IEC132	IEC160	IEC180	IEC200	IEC225	IEC250					
309L1								195	186	216	216					
309L2						114	144	144	174							
309L3	65	84	84	94	94	114	144									
309L4	65	84	84	94	94	114	144									

NB309R



NB309R

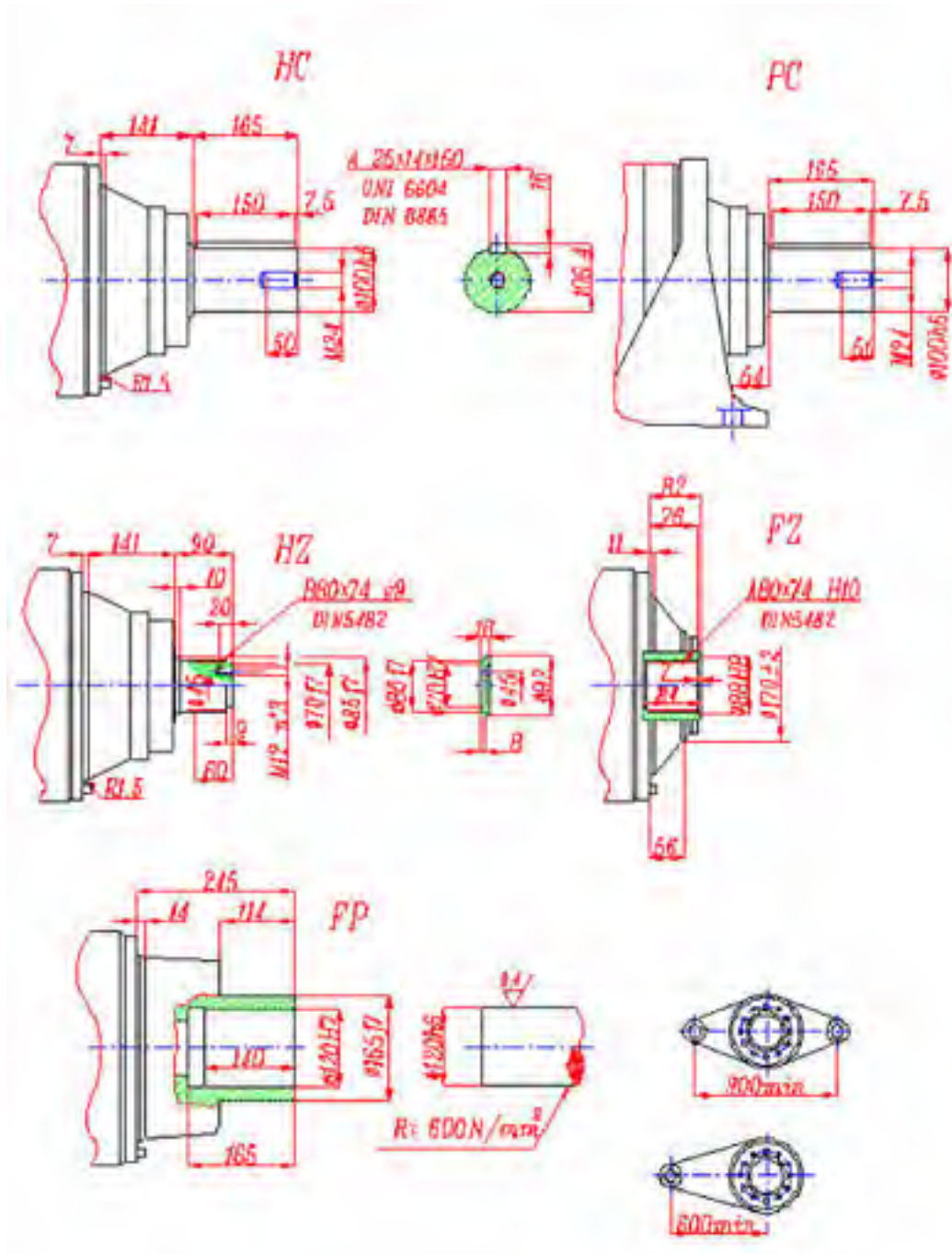


	R				Ref. weight (without input)(Kg)				C	P	I	Brake				
	HZHC	PCPZ	FZ	FP	HZHC	PCPZ	FZ	FP				F	F1	F2	Type	Ref. Weight 15 Kg
309R2	245	386	218	220	165	180	145	150	373737	225122	According to	145	95	1/4 G	4	22
309R3	311	452	284	286	147	162	127	132	37	140	hydraulic	105	65	1/4 G	4	15
309R4	376	517	349	351	148	163	128	133	37	122	motor	105	65	1/4 G	4	15

	P1	R1				E (IEC motor input)								
		HZ	HC	FZ	FP	IEC71	IEC80	IEC90	IEC100	IEC112	IEC132	IEC160	IEC180	IEC200
309R2	245	168	168	141	143						114	144	144	174

309R3	186	144	144	117	119	65	84	84	94	94	114	144			
309R4	186	144	144	117	119	65	84	84	94	94	114	144			

NB309L - NB309R



FP version

Max. transmissible

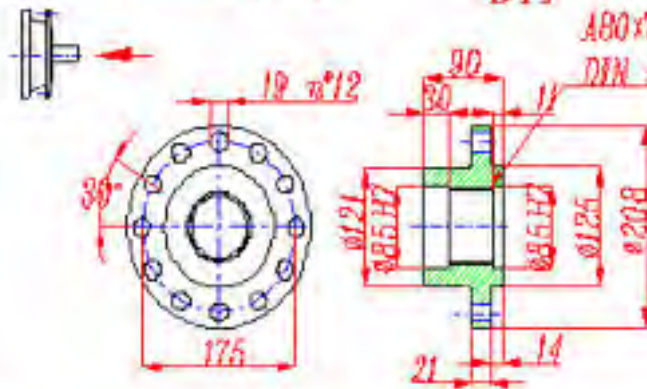
25000 N.m

NB309L - NB309R

Drive intake flange

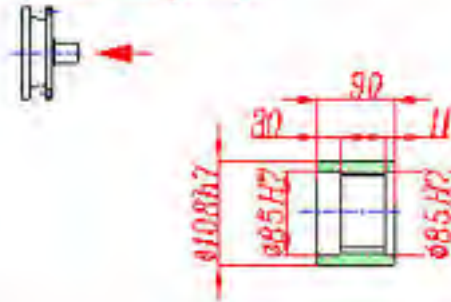
DIF

A80x74 H10
DIN 5482



Sleeve couplings

SC



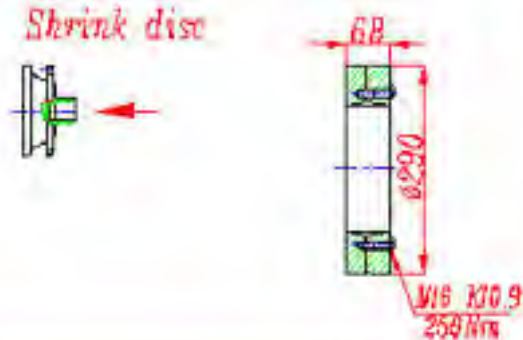
Splined bars

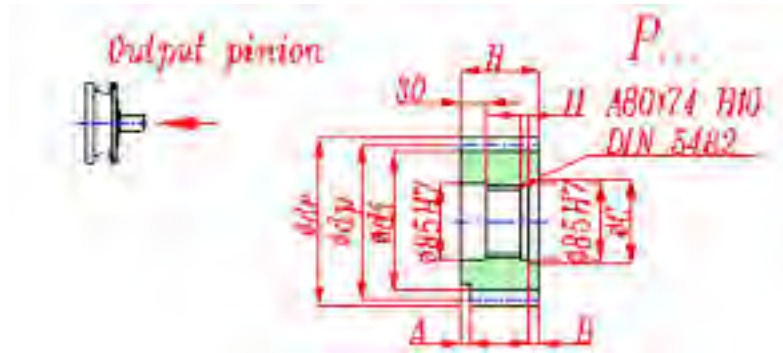
SB



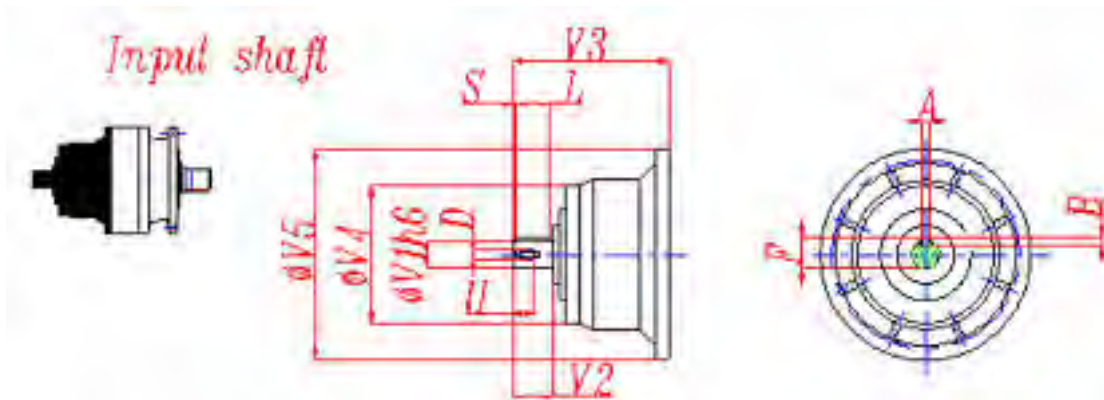
Shrink disc

SD





	m	z	x	dp	di	de	H	A	B	C
PFG	8	16	0.5000	128	117	149.5	90	0	0	0
PHC	10	12	0.4500	120	104	145	90	0	0	0
PHE	10	14	0.320	140	121	162.5	116	13	26	95
PHF	10	15	0.150	150	130	171.5	107	20	17	100
PHG	10	16	0.500	160	145	186	90	10	0	0
PHH1	10	17	0	170	145	190	90	0	0	0
PHH2	10	17	0.500	170	154	198	90	0	0	0
PLD	12	13	0.500	156	138	192	102	0	12	95
PLE	12	14	0.500	168	150	199.2	90	0	0	0
PLI	12	18	0.500	216	198	249.6	107	7	17	95
PLT	12	26	0	312	282	336	90	0	0	0

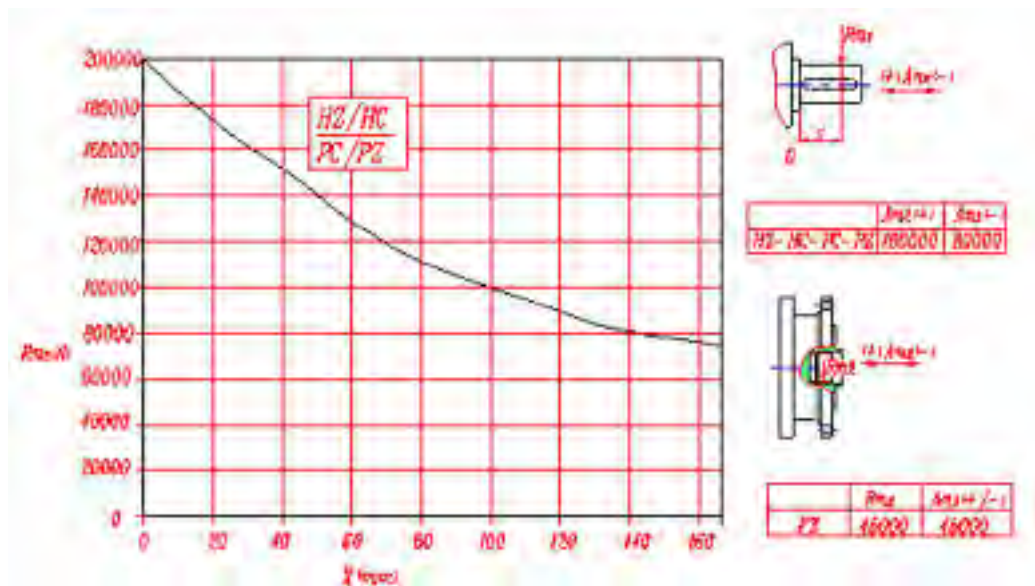


	CODE	V1	V2	V3	V4	V5	A	B	F	L	S	D	U
309L1	V07B	80	130	315	200	345	22	14	85	110	10	M16	36
	V07A	60	105	313	155	345	18	11	64	90	7.5	M16	36
309L2	V05B	48	82	239	155	245	14	9	51.5	70	6	M16	36
309L3	V01A	24	36	137.5	120	186	8	7	27	30	3	M8	19
	V01B	38	58	158	120	186	10	8	41	50	4	M12	28
309L4	V01A	24	36	137.5	120	186	8	7	27	30	3	M8	19
	V01B	38	58	158	120	186	10	8	41	50	4	M12	28

309R2	V05B	48	82	239	155	245	14	9	51.5	70	6	M16	36
309 R3-R4	V01A	24	36	137.5	120	186	8	7	27	30	3	M8	19
	V01B	38	58	158	120	186	10	8	41	50	4	M12	28

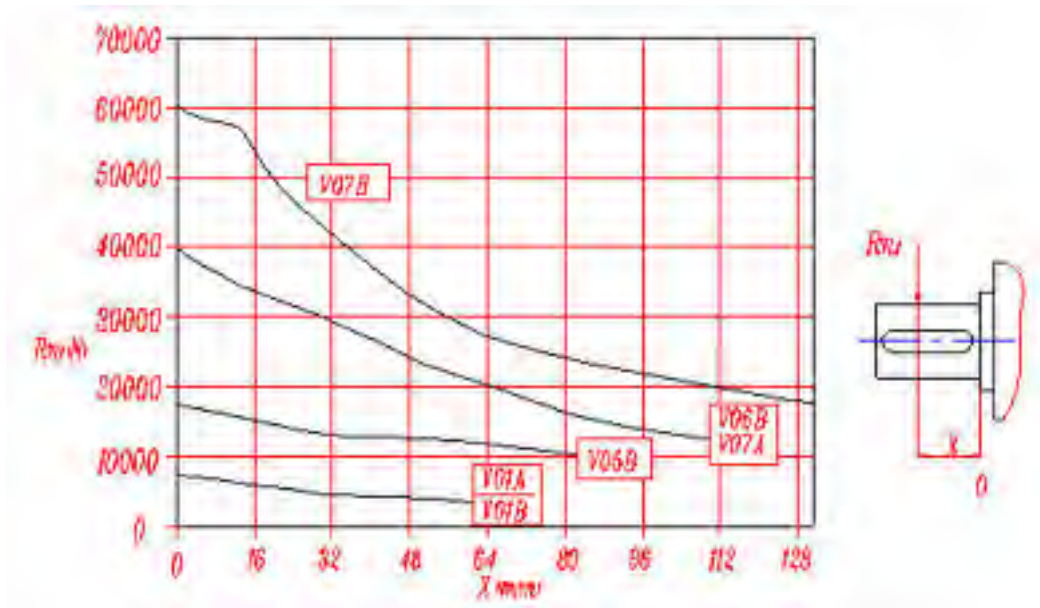
NB309L - NB309R

Permissible radial and axial loads on output shaft with Fh2 (n2-h=10 000)



Load corrective factor	fh2= n2-h		10 000	25 000	50 000	100 000	500 000	1 000 000
	fh2 on shafts	fh2	MZ-MC-PC-PZ-FZ	1	0.74	0.58	0.46	0.27
		HZ-HC	1	0.76	0.61	0.50	0.31	0.25

Permissible radial loads on input shaft with Fh1 (n1-h=250 000)



Load corrective factor	$F_h = n_1 \cdot h$	250 000	500 000	1 000 000	2 000 000	5 000 000	10 000 000
fh1 on shafts	fh1	1	0.79	0.63	0.50	0.37	0.29