





**321L**

**M<sub>2</sub> = 450000 Nm**

	i	M <sub>n2</sub> [Nm]						P <sub>1</sub> [kW]	P <sub>t</sub> [kW]	n <sub>1</sub> [min <sup>-1</sup> ]	n <sub>1max</sub> [min <sup>-1</sup> ]	M <sub>b</sub> [Nm]		
		n <sub>2</sub> ·h 10 000	n <sub>2</sub> ·h 25 000	n <sub>2</sub> ·h 50 000	n <sub>2</sub> ·h 100 000	n <sub>2</sub> ·h 500 000	n <sub>2</sub> ·h 1 000 000							
<b>L1</b>	4.44	540 000	466 000	415 000	337 000	208 000	169 000	540	115	200	300			
	<b>L2</b>	18.2	540 000	466 000	415 000	337 000	208 000	169 000	350	95	200	300		
		23.3	540 000	460 000	410 000	335 000	210 000	172 000	350	95	200	300		
<b>L3</b>	27.7	498 000	466 000	415 000	337 000	208 000	169 000	350	95	200	300			
	75.3	540 000	466 000	406 000	329 000	203 000	165 000	200	60	500	800			
	98.2	540 000	466 000	397 000	322 000	199 000	162 000	200	60	500	800			
	118	540 000	466 000	396 000	322 000	199 000	161 000	200	60	500	800			
	126	540 000	460 000	410 000	335 000	210 000	172 000	200	60	500	800			
	152	540 000	460 000	410 000	335 000	210 000	172 000	200	60	500	800			
	180	498 000	466 000	415 000	337 000	208 000	169 000	180	60	500	800			
<b>L4</b>	258	540 000	466 000	406 000	329 000	203 000	165 000	130	35	1 400	2 000	2 100	6G	
	308	540 000	466 000	390 000	316 000	195 000	159 000	130	35	1 400	2 000	2 100	6G	
	395	540 000	466 000	401 000	325 000	201 000	163 000	130	35	1 400	2 000	2 100	6G	
	469	540 000	466 000	391 000	318 000	196 000	159 000	130	35	1 400	2 000	1 500	6E	
	515	540 000	466 000	397 000	322 000	199 000	162 000	130	35	1 400	2 000	1 500	6E	
	612	540 000	466 000	397 000	322 000	199 000	162 000	130	35	1 400	2 000	1 100	6C	
	736	540 000	466 000	396 000	322 000	199 000	161 000	130	35	1 400	2 000	850	6B	
	796	540 000	460 000	410 000	335 000	210 000	172 000	123	35	1 400	2 000	850	6B	
	945	540 000	460 000	410 000	335 000	210 000	172 000	103	35	1 400	2 000	850	6B	
	1 122	498 000	466 000	415 000	337 000	208 000	169 000	87	35	1 400	2 000	850	6B	

**M<sub>2max</sub> = 1.2 · M<sub>n2</sub>** (n<sub>2</sub> · h = 10 000)

**M<sub>2</sub> = 450000 Nm**
**321R**

	i	M <sub>n2</sub> [Nm]						P <sub>1</sub> [kW]	P <sub>t</sub> [kW]	n <sub>1</sub> [min <sup>-1</sup> ]	n <sub>1max</sub> [min <sup>-1</sup> ]	M <sub>b</sub> [Nm]	
		n <sub>2</sub> ·h	n <sub>2</sub> ·h	n <sub>2</sub> ·h	n <sub>2</sub> ·h	n <sub>2</sub> ·h	n <sub>2</sub> ·h						
		1:	10 000	25 000	50 000	100 000	500 000						
<b>R4 (A)</b>	326	225 000	171 000	139 000	113 000	70 000	57 000	135	105	1 400	2 000	800	5G
	425	270 000	206 000	167 000	136 000	84 000	68 000	135	105	1 400	2 000	800	5G
	512	309 000	234 000	190 000	155 000	95 000	78 000	135	105	1 400	2 000	800	5G
	546	323 000	245 000	199 000	165 000	102 000	83 000	135	105	1 400	2 000	800	5G
	657	368 000	277 000	229 000	185 000	116 000	94 000	135	105	1 400	2 000	800	5G
	780	414 000	315 000	256 000	208 000	128 000	104 000	125	105	1 400	2 000	800	5G
<b>R4 (B)</b>	221	362 000	282 000	228 000	183 000	110 000	89 000	150	105	1 400	2 000	2 100	6G
	289	434 000	329 000	260 000	208 000	125 000	104 000	150	105	1 400	2 000	2 100	6G
	347	491 000	365 000	297 000	240 000	146 000	120 000	150	105	1 400	2 000	2 100	6G
	370	512 000	390 000	306 000	256 000	150 000	122 000	150	105	1 400	2 000	2 100	6G
	446	540 000	422 000	355 000	281 000	174 000	140 000	150	105	1 400	2 000	2 100	6G
	529	498 000	460 000	397 000	318 000	191 000	159 000	150	105	1 400	2 000	1 500	6E
<b>R4 (C)</b>	481	384 000	291 000	234 000	196 000	121 000	100 000	134	125	1 400	2 000	1 100	6C
	513	387 000	302 000	249 000	204 000	125 000	103 000	127	125	1 400	2 000	850	6B
	617	435 000	335 000	272 000	221 000	138 000	112 000	121	125	1 400	2 000	850	6B
	732	498 000	397 000	323 000	262 000	163 000	133 000	114	125	1 400	2 000	850	6B

$$M_{2max} = 1.2 \cdot M_{n2} \quad (n_2 \cdot h = 10\,000)$$

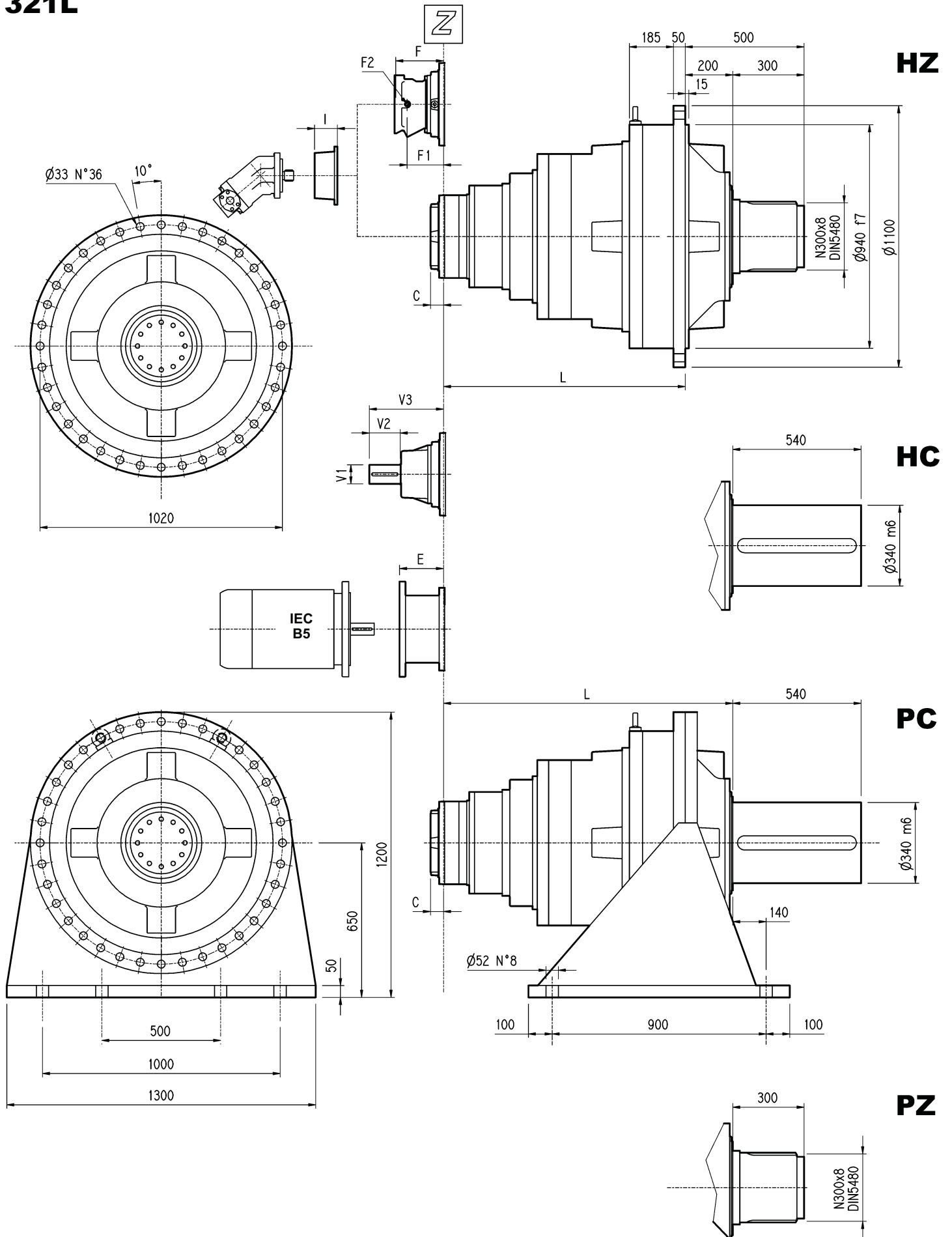
Nota: i contrassegni (A) (B) (C) sulla stessa grandezza, indicano riduzioni angolari di dimensioni differenti: vedere le pagine dimensionali.

Note: Letters (A) (B) (C) near size indication identify different angle reduction dimensions. See pages relevant to dimensions.

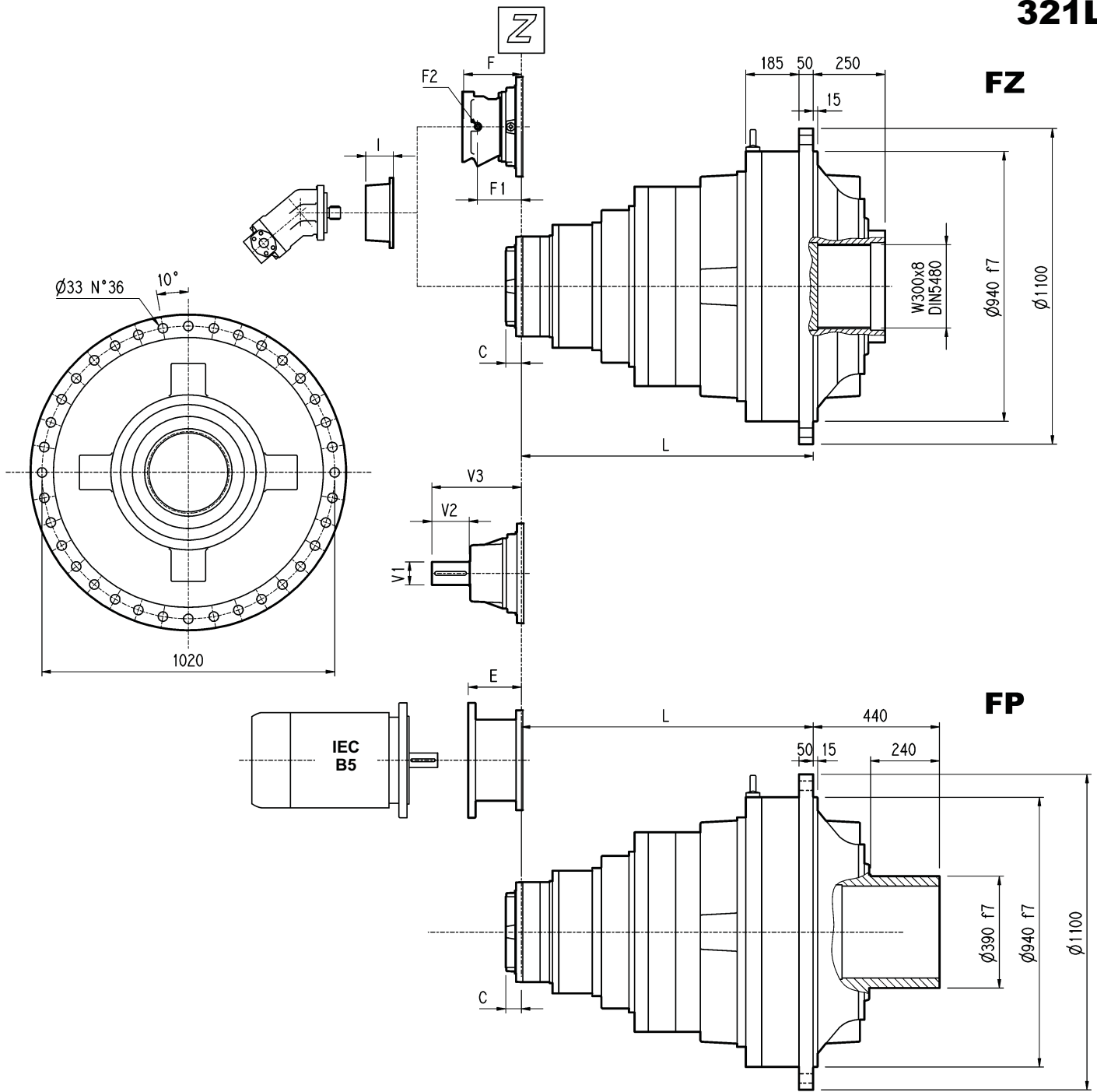
Hinweis: Die Kennzeichnungen (A) (B) (C) an der gleichen Baugröße weisen auf die Winkelreduzierung in unterschiedlichen Maßen hin: siehe Seiten mit Maßtabellen.

Remarque : les indications (A) (B) (C) sur la même taille indique des réductions angulaires de dimensions différentes. Se reporter aux pages des dimensions.

**321L**



# 321L

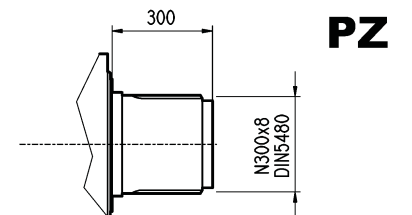
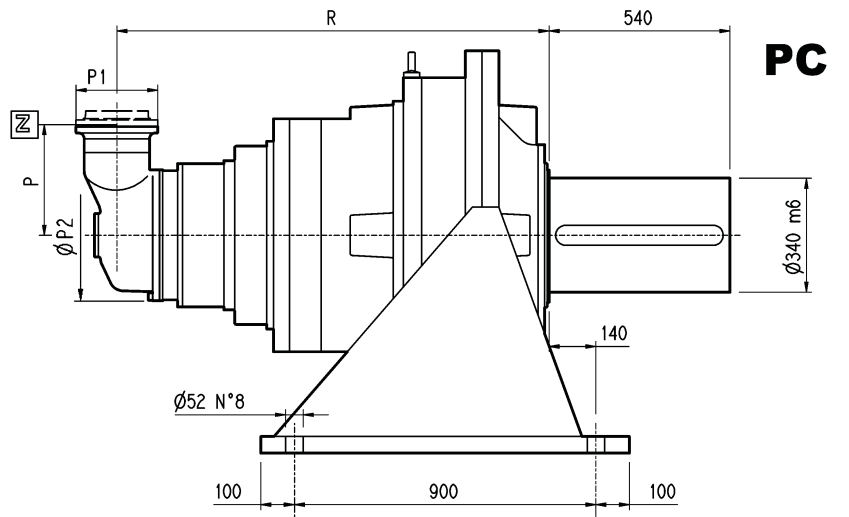
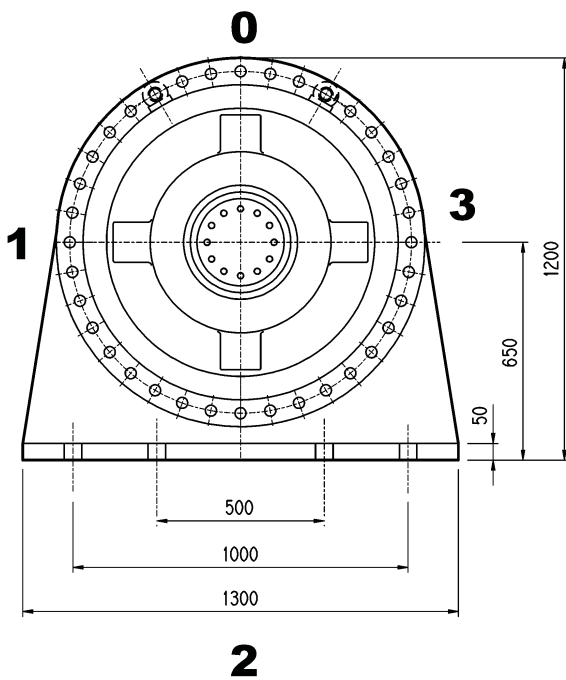
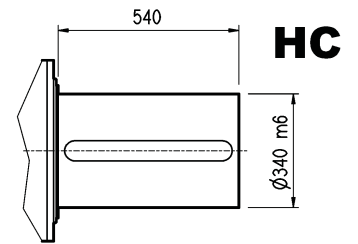
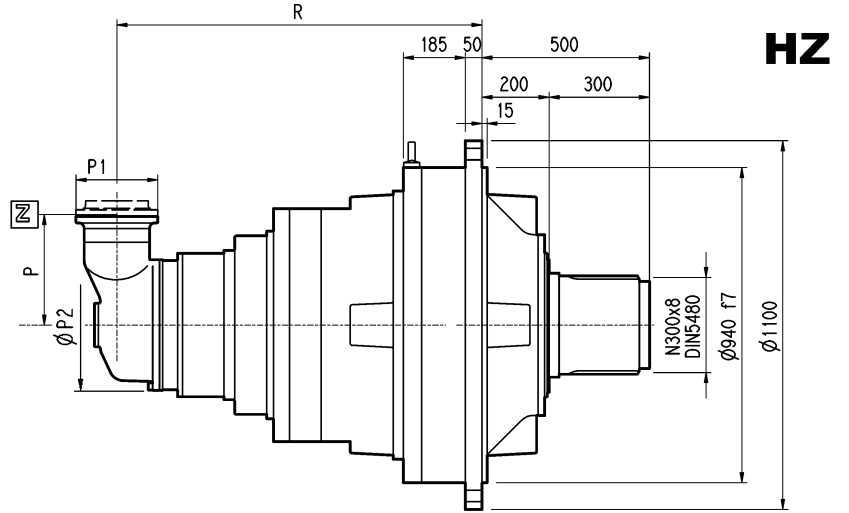
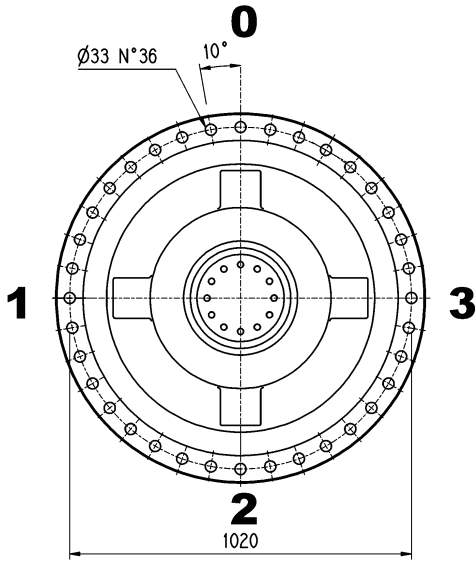
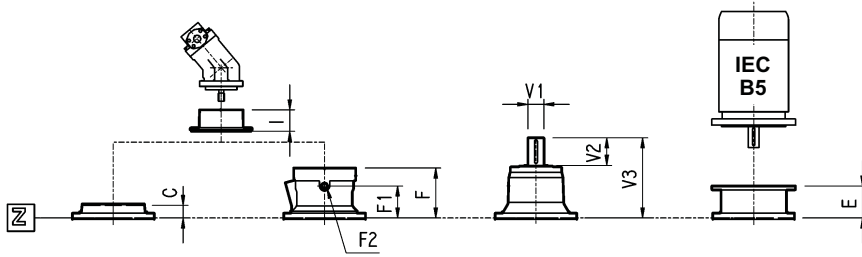


VERSIONE FP FP VERSION VERSION FP VERSION FP	COPPIA MAX. TRASMISSIBILE MAX. TRANSMISSIBLE TORQUE MAX. ÜBERTR. MOMENT COUPLE MAX. TRANSMISSIBLE	<b>648 000 Nm</b>
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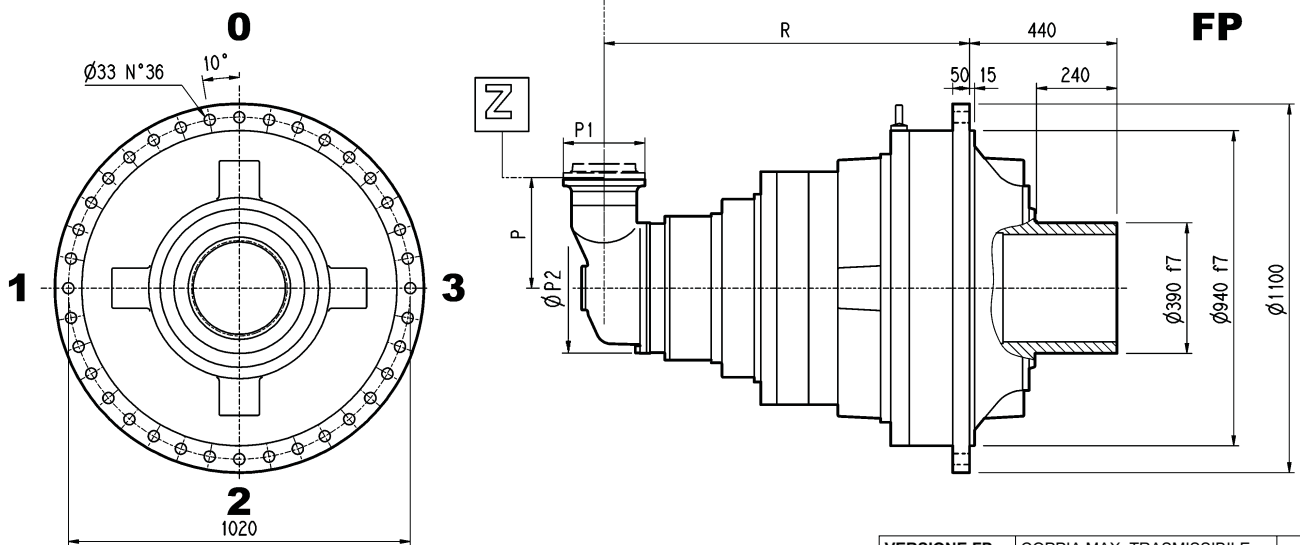
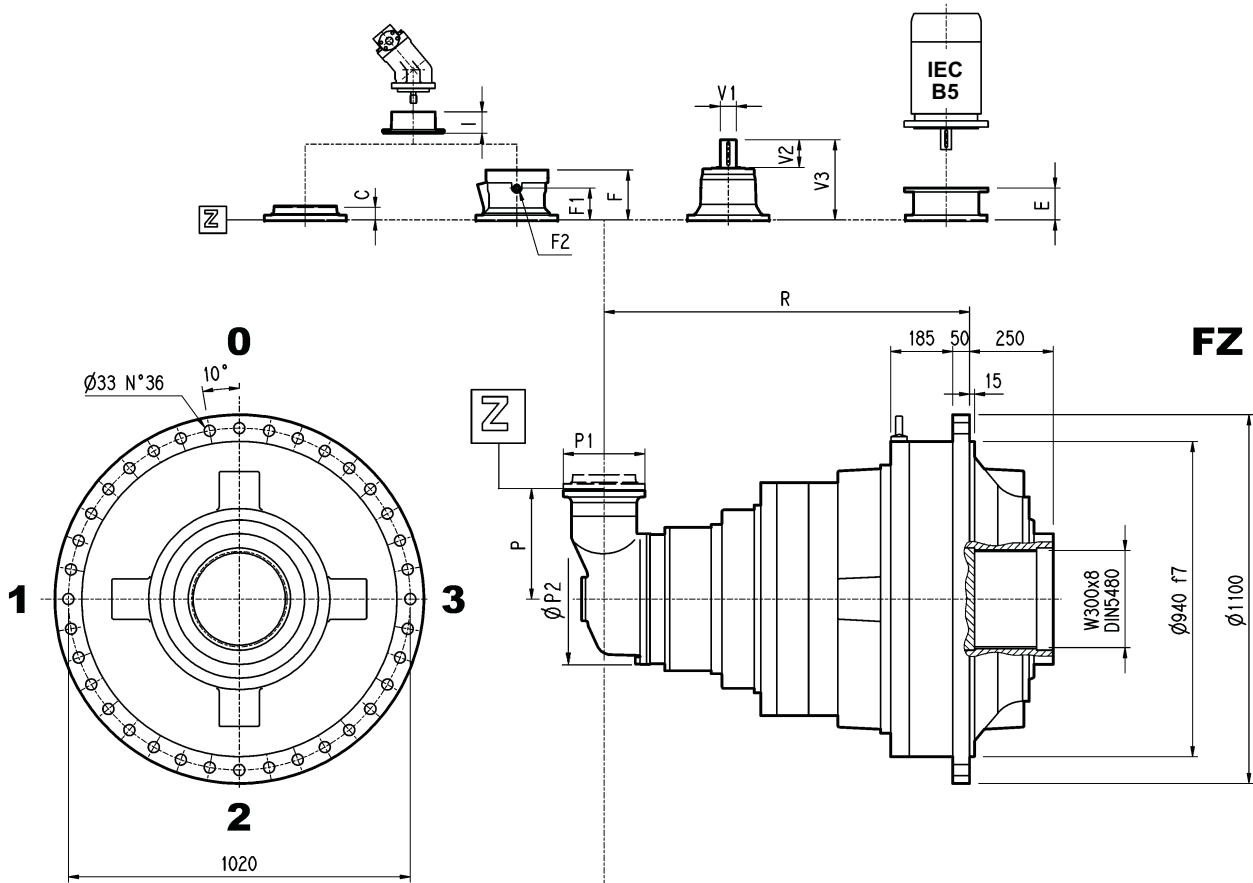
	L				Kg				C	Entrata Input Antrieb Entrée	I	F	F1	F2	Tipo Type Typ Type	Entrata Input Antrieb Entrée	Kg
	HZ HC	PC PZ	FZ	FP	HZ HC	PC PZ	FZ	FP									
<b>321 L1</b>																	
<b>321 L2</b>	595	795	595	595	2 700	3 000	2 600	2 600	181	F							
<b>321 L3</b>	904	1 104	904	904	2 820	3 120	2 720	2 720	75	D							
<b>321 L4</b>	1 053	1 253	1 053	1 053	2 880	3 180	2 780	2 780	51	B	191	201	153	1/4 G	6	B	28

	V1	V2	V3	Kg	E				IEC 180	IEC 200	IEC 225	IEC 250		
					V1	V2	V3	Kg						
<b>321 L1</b>														
<b>321 L2</b>														
<b>321 L3</b>	80	130	343	35										
<b>321 L4</b>	80	130	315	35	60	105	313	28			195	186	216	215

**321R**



**321R**



VERSIONE FP FP VERSION VERSION FP VERSION FP	COPPIA MAX. TRASMISSIBILE MAX. TRANSMISSIBLE TORQUE MAX. ÜBERTR. MOMENT COUPLE MAX. TRANSMISSIBLE	<b>648 000 Nm</b>
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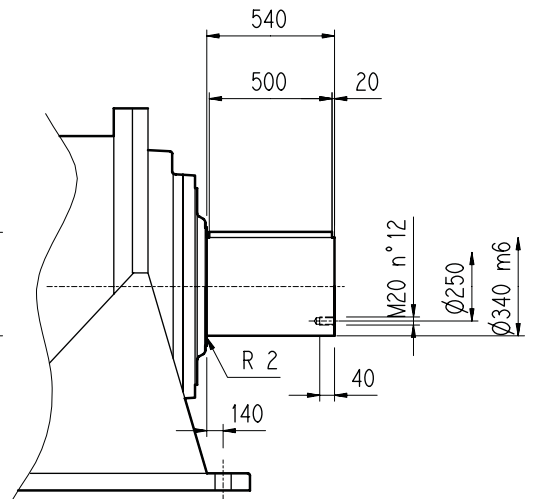
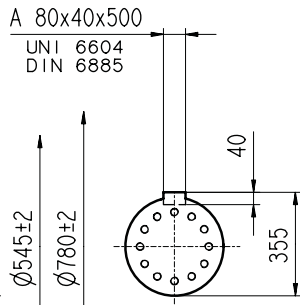
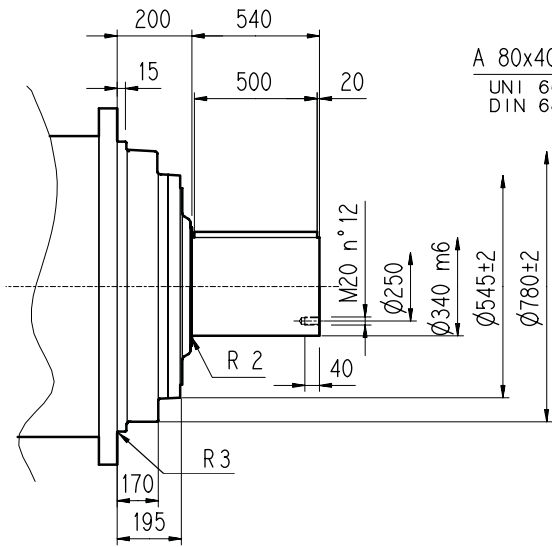
	R				P	P1	P2	Kg				C	Entrata Input Antrieb Entrée	I	F	F1	F2	Tipo Type Typ Type	Entrata Input Antrieb Entrée	Kg
	HZ HC	PC PZ	FZ	FP				HZ HC	PC PZ	FZ	FP									
<b>321 R4 (B)</b>	1134	1334	1134	1134	345	262	400	2950	3250	2850	2850	45	B	195	147	1/4 G	6	B	28	
<b>321 R4 (C)</b>	1134	1334	1134	1134	390	262	480	2960	3260	2860	2860	45	B	195	147	1/4 G	6	B	28	
<b>321 R4 (A)</b>	1134	1334	1134	1134	330	245	390	2930	3230	2830	2830	37	A	145	95	1/4 G	5	A	16	

	V1	V2	V3	Kg	V1	V2	V3	Kg	E											
									IEC 63	IEC 71	IEC 80	IEC 90	IEC 100	IEC 112	IEC 132	IEC 160	IEC 180	IEC 200	IEC 225	IEC 250
<b>321 R4 (B)</b>	60	105	307	23													152	182	212	193
<b>321 R4 (C)</b>	60	105	307	23													152	182	212	193
<b>321 R4 (A)</b>	48	82	239	15										114	144	144	174			

**321L - 321R**

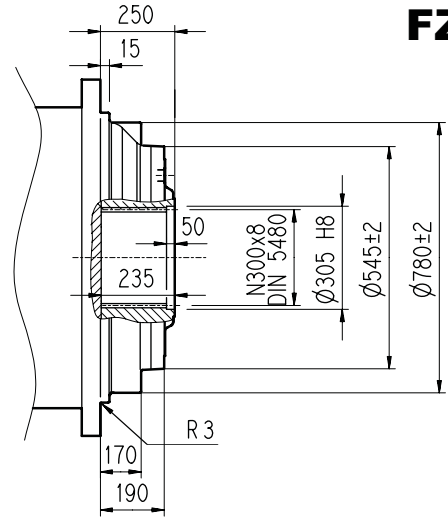
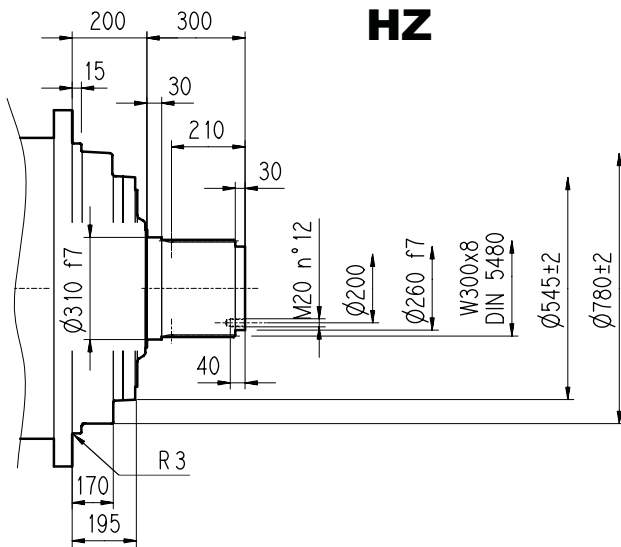
**HC**

**PC**

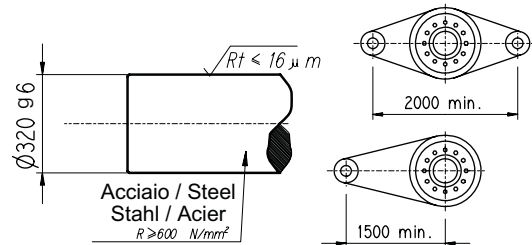
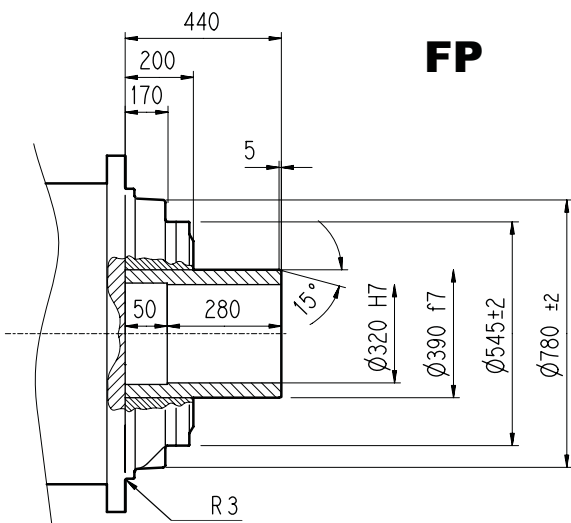


**HZ**

**FZ**



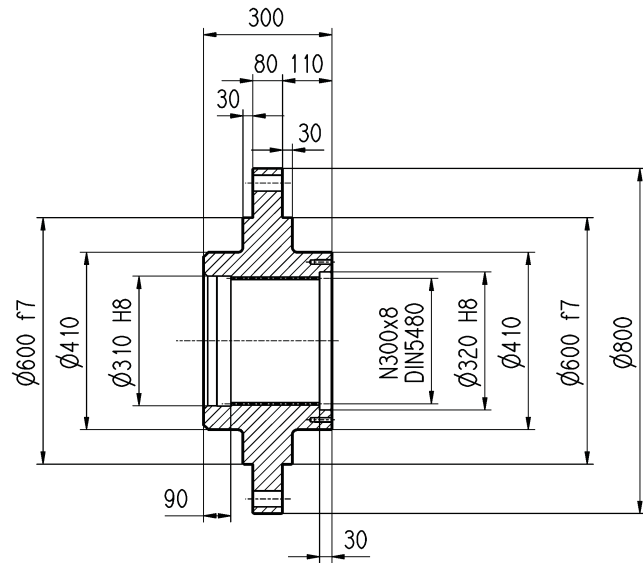
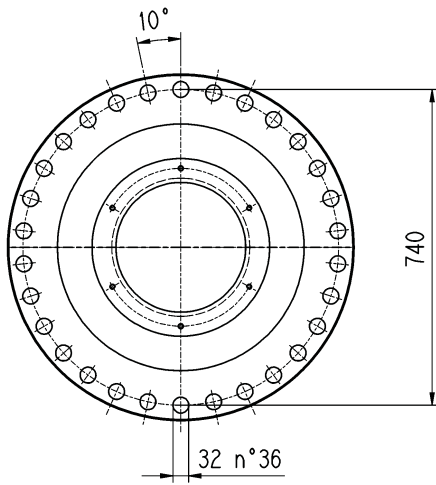
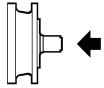
**FP**



VERSIONE FP	COPPIA MAX. TRASMISSIBILE	<b>648 000</b> Nm
FP VERSION	MAX. TRASMISSIBILE TORQUE	
VERSION FP	MAX. ÜBERTR. MOMENT	
VERSION FP	COUPLE MAX. TRASMISSIBILE	

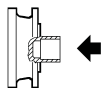
Flangia / Flange  
Flansch / Brides

**321L - 321R**  
**WOA**

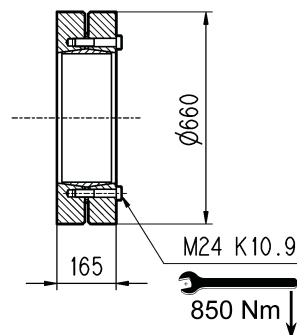


Materiale : Acciaio C40  
Material : Steel C40  
Material : Stahl C40  
Materiaal : Acier C40

Giunto ad attrito / Shrink disc  
Schrumpfscheibe / Frette de serrage

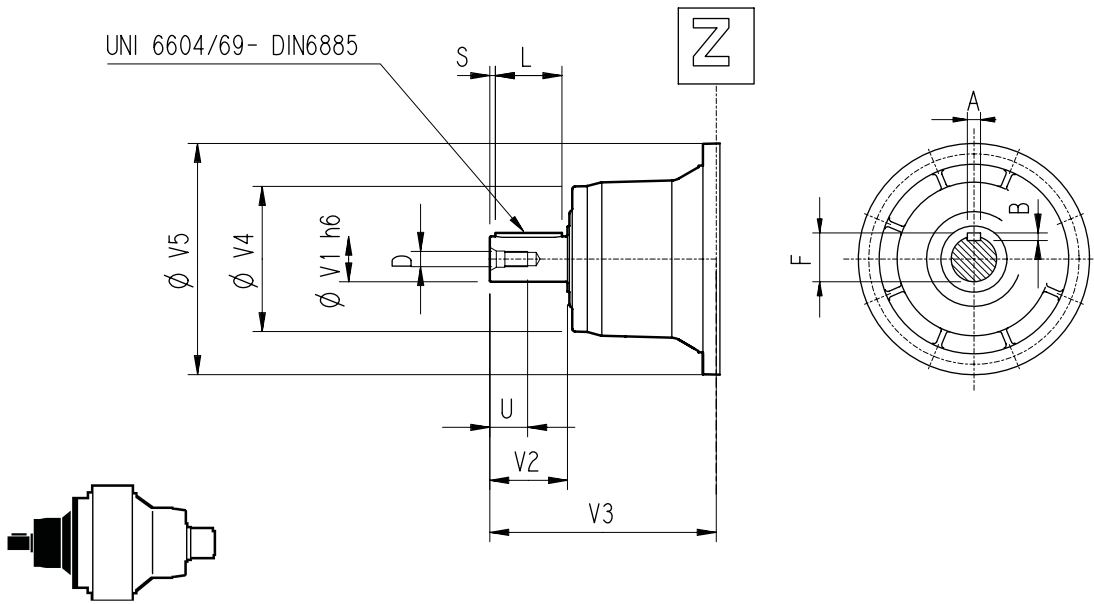


**G0A**



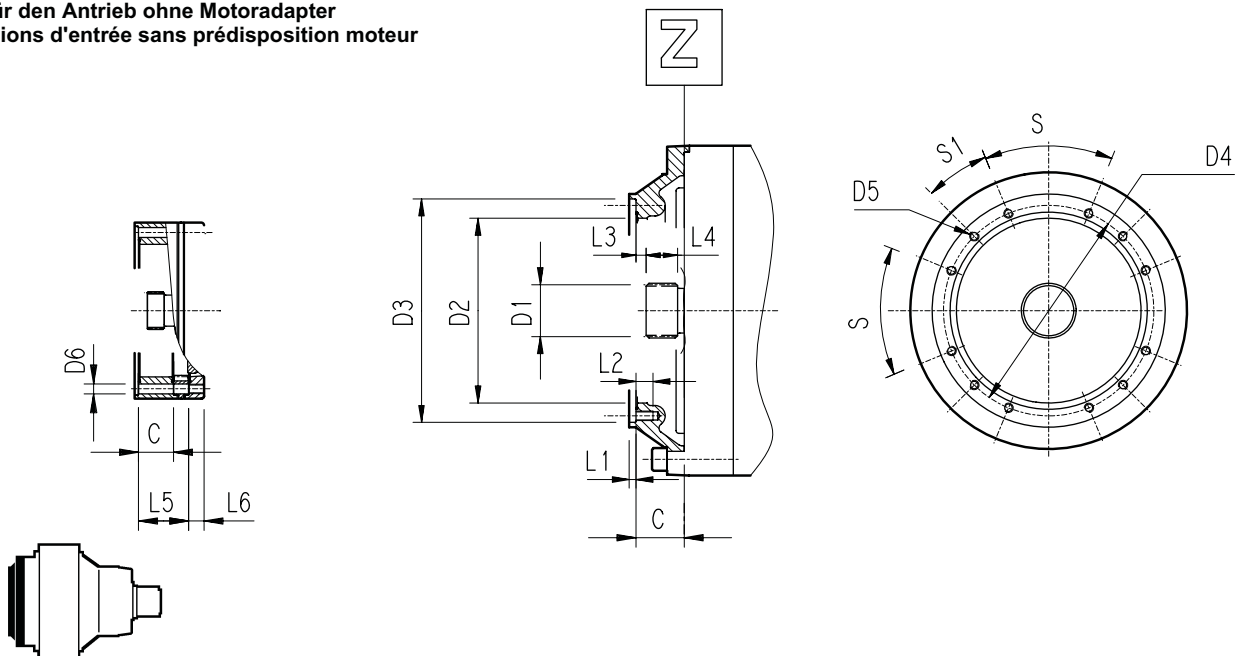
# 321L - 321R

Alberi veloci / Input shaft  
Antriebswellen / Arbres d'entrée



	CODE	V1	V2	V3	V4	V5	A	B	F	L	S	D	U
321 L3	V11B	80	130	343	200	428	22	14	85	110	10	M16	36
321 L4	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
321 R4 (A)	V05B	48	82	239	155	245	14	9	51.5	70	6	M16	36
321 R4 (B) (C)	V06B	60	105	307	155	292	18	11	64	90	7.5	M16	36

Dimensioni d'entrata senza predisposizione motore  
Input dimension without motor adaptor  
Maße für den Antrieb ohne Motoradapter  
Dimensions d'entrée sans prédisposition moteur



	C	D1	D2	D3	D4	D5	D6	L1	L2	L3	L4	L5	L6	S	S1	Entrata Input Antrieb Entrée
321 L1																
321 L2	181	120x3 DIN 5480	365	390 f7	415	M16 n°18	/	4	30	3	65	/	/	20°	20°	F
321 L3	75	80x74 DIN 5482	270	335 H7	314	M16 n°8	/	5	30	9.5	40	/	/	60°	30°	D
321 L4	51	58x53 DIN 5482	195	236 H7	222	M10 n°12	/	4	18	11	22	/	/	45°	22.5°	B
321 R4 (A)	37	40x36 DIN 5482	140	178 H7	165	M10 n°8	11	4	18	9	18	0	0	45°	45°	A
321 R4 (B) (C)	45	58x53 DIN 5482	195	236 H7	222	M10 n°12	/	4	18	11	22	/	/	45°	22.5°	B

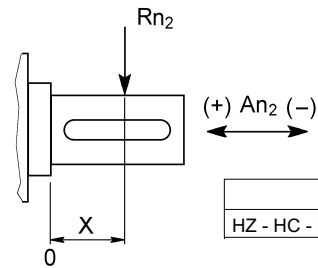
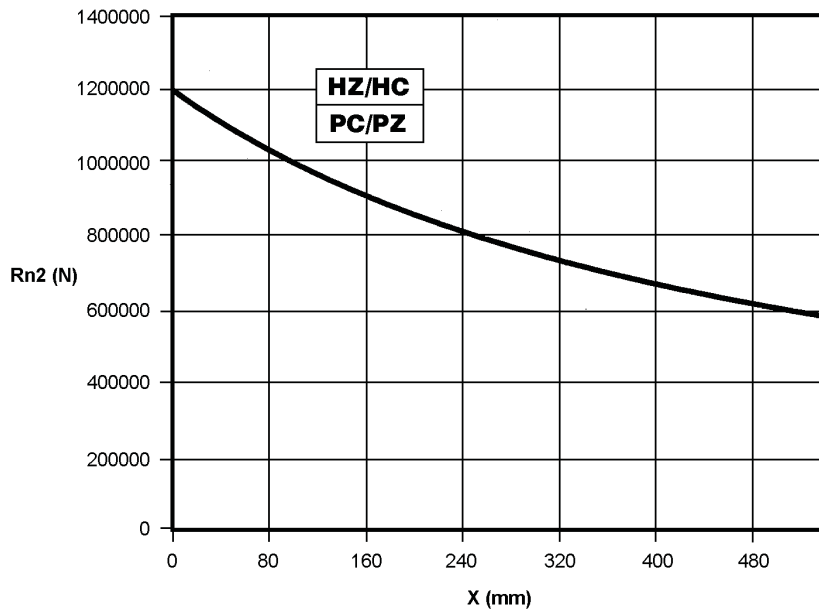
### 321L - 321R

Carichi radiali ed assiali ammissibili sull'albero lento per un valore di  $Fh_2 : n_2 \cdot h = 10\ 000$

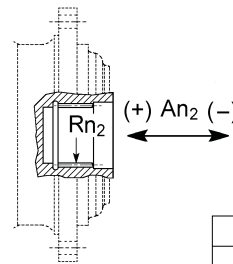
Permissible radial and axial loads on output shaft with  $Fh_2 : n_2 \cdot h = 10\ 000$

An der Ausgangswelle zulässige Radiallasten und Axialkräfte für einen Wert von  $Fh_2 : n_2 \cdot h = 10\ 000$

Charges radiales et axiales admises sur l'arbre lent pour une valeur de  $Fh_2 : n_2 \cdot h = 10\ 000$



	An2 (+)	An2 (-)
HZ - HC - PC - PZ	180 000	240 000



	Rn2	An2 (+/-)
FZ	120000 0	180 000

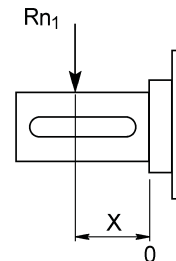
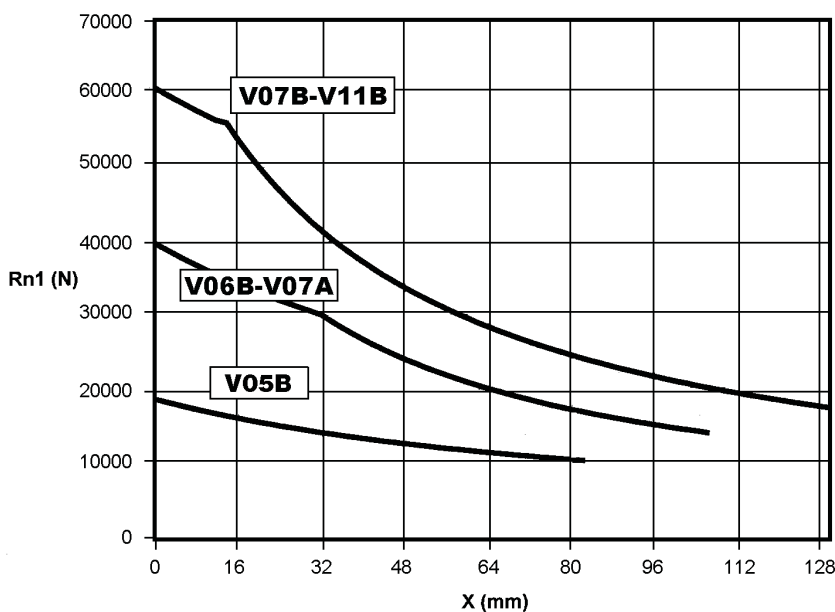
Fattore $fh_2$ correttivo per carichi sugli alberi Load corrective factor $fh_2$ on shafts Korrektionsfaktor $fh_2$ für wellenbelastungen Facteur de correction $fh_2$ pour charges sur les arbres	$Fh_2 = n_2 \cdot h$						
		10 000	25 000	50 000	100 000	500 000	1 000 000
$fh_2$	FZ	1	0.74	0.58	0.46	0.27	0.21
	HZ - HC - PC - PZ	1	0.76	0.61	0.50	0.31	0.25

Carichi radiali ammissibili sull'albero veloce per un valore di  $Fh_1 : n_1 \cdot h = 250\ 000$

Permissible radial loads on input shaft with  $Fh_1 : n_1 \cdot h = 250\ 000$

An der Antriebswelle zulässige Radiallasten für einen Wert von  $Fh_1 : n_1 \cdot h = 250\ 000$

Charges radiales admises sur l'arbre d'entrée pour une valeur de  $Fh_1 : n_1 \cdot h = 250\ 000$



Fattore $fh_1$ correttivo per carichi sugli alberi Load corrective factor $fh_1$ on shafts Korrektionsfaktor $fh_1$ für wellenbelastungen Facteur de correction $fh_1$ pour charges sur les arbres	$Fh_1 = n_1 \cdot h$						
		250 000	500 000	1 000 000	2 000 000	5 000 000	10 000 000
$fh_1$	1	0.79	0.63	0.50	0.37	0.29	