DANA BREVINI® Motion Systems

CTF011000-19
07 2019

Product Catalog

Brevini® Planetary Gearboxes
Industrial Series

Torques from 300 Nm to 35.000 Nm



Planetary solutions

Brevini® Industrial Series planetary gearboxes with its modularity, wide range of characteristics and variants, allows to meet every possible application needs for both Industrial and Mobile applications.

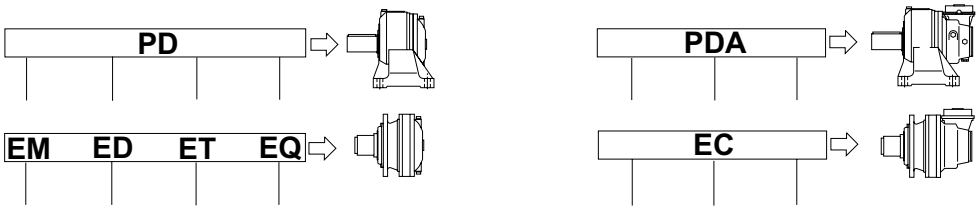
1. DESCRIZIONE RIDUTTORI

1. DESCRIPTION OF GEAR UNITS

1. GETRIEBE-BESCHREIBUNG

EM

Versione
Version
Ausführung



1

Stadi
Stages
Etappes

1 2 3 4

2 3 4

020

Grandezza
Size
Größe

020, 010, 020, 010, 020, 010

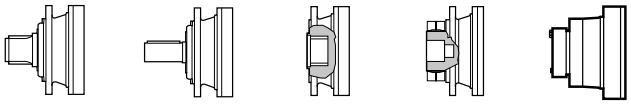
020, 010, 020, 010, 020, 010

MR

Configurazione uscita
Output configuration
Abtriebsanordnung

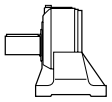
Versione con flangia / Flanged version / Version mit flansch

MN MR | MN1 MR1 | FE | FS | FP



Versione con piedi
Foot version
Version mit Fuß

MR1
(PD-PDA)



3.50

Rapporto effettivo
Effective ratio
Effektives
Übersetzungsverhältnis

⇩ Vedere tabelle dati tecnici / See data sheet / Siehe Tabelle der technischen Daten (i_{eff})

i_{eff}	1500			1000			500			T_{2max} [Nm]	P_1 [kW]
	n_2 [rpm]	T_2 [Nm]	P_2 [kW]	n_2 [rpm]	T_2 [Nm]	P_2 [kW]	n_2 [rpm]	T_2 [Nm]	P_2 [kW]		
EM 1020											
3.08	487	888	45.3	325	1003	34.1	162	1235	21.0	2800	
3.50	429	972	43.6	286	1098	32.9	143	1351	20.2	2800	

S-45CR1

Configurazione entrata
Input configuration
Antriebsanordnung

Supporti maschio in entrata
Cylindrical male input shaft
Antriebswellenstümpfe



S-45CR1
S-46C1
S-65CR1
S-90CR1



48.82
45.70

Freni lamellari
Multidisc brakes
Lamellenbremsen



FL250
FL350
FL450
FL650
FL750
FL960

Entrata universale
Universal input
Universalantriebe



B3

Posizione di montaggio
Mounting position
Einbaulage

B3 B6 B7 B8 V5 V6

V5A V6A B3D
V5B V6B B6C
V5C V6C B7A
V5D V6D B8B

B3A B3B B3C
B6A B6B B6D
B7B B7C B7D
B8A B8C B8D

Esempio di designazione Model code example Beispiel der kennzeichnung	**EM1020/MR/3.50/S-45CR1/B3**

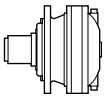
7. DATI TECNICI E TAVOLE DIMENSIONALI
TECHNICAL DATA AND DIMENSIONAL DRAWINGS
TECHNISCHE DATEN UND MASSBILDER
CARACTERISTIQUES TECHNIQUES ET PLANCHES DES DIMENSIONS
DATOS TÉCNICOS Y DISEÑOS DIMENSIONALES
DADOS TÉCNICOS E TABELAS DIMENSIONAIS



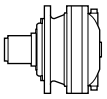
Serie Standard / Standard Series
Serie Standard / Série Standard
Serie Standard / Série Standard

Pag.
Page
Seiten
Page
Pág.
Pág.

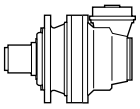
Type	i_{eff}	T_N [Nm]			
010	3.38 - 3282	1000	B40x36 DIN5482	42	34
020	3.08 - 3235	2100	B58x53 DIN5482	65	46
030	15.37 - 3097	3800	B58x53 DIN5482	65	60
040	15.37 - 3170	3800	B58x53 DIN5482	65	72
045	3.50 - 3301	3800	B58x53 DIN5482	65	80
046	3.50 - 3301	3800	B58x53 DIN5482	65	94
065	3.50 - 3170	6400	B70x64 DIN5482	65	104
067	12.25-201.0	6400	B70x64 DIN5482	65	118
090	4.08 - 3207	9200	B80x74 DIN5482	90	132
091	11.22-42.37	9200	B80x74 DIN5482	90	146
150	3.90-3460	13000	B80x74 DIN5482	100	156
155	19.50-272.7	13000	B80x74 DIN5482	100	170
250	4.04 - 2741	20000	B100x94 DIN5482	110	184
255	16.48-2744	20000	B100x94 DIN5482	110	196
320	19.95-245.3	25000	B100x94 DIN5482	110	208



i_{eff}	1500			1000			500			T_{2max} [Nm]	P_T [kW]
	n_2 [rpm]	T_2 [Nm]	P_2 [kW]	n_2 [rpm]	T_2 [Nm]	P_2 [kW]	n_2 [rpm]	T_2 [Nm]	P_2 [kW]		
EM 1090											
4.08	368	2936	113	245	3316	85	123	4082	52	15000	
5.05	297	3054	95	198	3449	72	99	4246	44.0	15000	
5.81	258	3122	84	172	3526	64	86	4341	39.1	15000	40
6.92	217	3246	74	145	3666	55	72	4514	34.2	15000	
8.70	172	2868	52	115	3077	37.0	57	3396	20.4	15000	
ED 2090											
14.28	105	4276	47.0	70	4829	35.4	35.0	5945	21.8	15000	
16.85	89	4493	41.9	59	5075	31.5	29.7	6248	19.4	15000	
17.68	85	4447	39.5	57	5022	29.8	28.3	6184	18.3	15000	
21.09	71	4807	35.8	47.4	5428	27.0	23.7	6683	16.6	15000	
24.48	61	5026	32.3	40.8	5676	24.3	20.4	6989	14.9	15000	
29.58	51	5320	28.3	33.8	6008	21.3	16.9	7397	13.1	15000	23
30.30	49.5	5228	27.1	33.0	5904	20.4	16.5	7269	12.6	15000	
36.61	41.0	5533	23.7	27.3	6249	17.9	13.7	7693	11.0	15000	
41.52	36.1	4902	18.5	24.1	5107	12.9	12.0	5456	6.9	15000	
44.98	33.3	3629	12.7	22.2	3800	8.8	11.1	4092	4.8	15000	
50.17	29.9	4998	15.7	19.9	5202	10.9	10.0	5552	5.8	15000	
ET 3090											
58.98	25.4	6543	17.4	17.0	7390	13.1	8.5	9098	8.1	15000	
61.86	24.2	6476	16.4	16.2	7314	12.4	8.1	8304	7.0	15000	
73.83	20.3	7000	14.9	13.5	7905	11.2	6.8	9732	6.9	15000	
75.40	19.9	7044	14.7	13.3	7955	11.1	6.6	9794	6.8	15000	
87.12	17.2	7356	13.3	11.5	8308	10.0	5.7	10228	6.1	15000	
101.1	14.8	7692	12.0	9.9	8687	9.0	4.9	10384	5.4	15000	
109.1	13.8	7869	11.3	9.2	8887	8.5	4.6	10941	5.3	15000	
126.6	11.9	8228	10.2	7.9	9293	7.7	4.0	11441	4.7	15000	15
146.9	10.2	8604	9.2	6.8	9717	6.9	3.4	10774	3.8	15000	
152.9	9.8	8709	8.9	6.5	9835	6.7	3.3	12023	4.1	15000	
177.5	8.5	9107	8.1	5.6	10248	6.0	2.8	10973	3.2	15000	
209.2	7.2	7381	5.5	4.8	7820	3.9	2.4	8994	2.3	15000	
219.7	6.8	8429	6.0	4.6	9159	4.4	2.3	10512	2.5	15000	
252.7	5.9	7502	4.7	4.0	8129	3.4	2.0	9337	1.9	15000	
265.4	5.7	8765	5.2	3.8	9515	3.8	1.9	10906	2.2	15000	
305.4	4.9	7776	4.0	3.3	8446	2.9	1.6	9689	1.7	15000	
363.7	4.1	6105	2.6	2.7	6649	1.9	1.4	7657	1.1	15000	
EQ 4090											
409.3	3.7	11701	4.5	2.4	12828	3.3	1.2	13665	1.7	15000	
443.0	3.4	11982	4.2	2.3	12979	3.1	1.1	13813	1.6	15000	
512.4	2.9	12392	3.8	2.0	13025	2.7	0.98	14090	1.4	15000	
555.6	2.7	12244	3.5	1.8	12716	2.4	0.90	14246	1.3	15000	
654.3	2.3	12434	3.0	1.5	13023	2.1	0.76	14565	1.2	15000	
718.5	2.1	13004	2.8	1.4	13423	2.0	0.70	14750	1.1	15000	
779.1	1.9	11377	2.3	1.3	11906	1.6	0.64	13853	0.93	15000	
878.3	1.7	12778	2.3	1.1	13797	1.6	0.57	15000	0.90	15000	
1019	1.5	11665	1.8	0.98	12638	1.3	0.49	14664	0.75	15000	
1145	1.3	13474	1.8	0.87	14304	1.3	0.44	15000	0.69	15000	11
1232	1.2	12047	1.5	0.81	13170	1.1	0.41	15000	0.64	15000	
1329	1.1	13813	1.6	0.75	14595	1.2	0.38	15000	0.60	15000	
1606	0.93	14174	1.4	0.62	14973	0.98	0.31	15000	0.49	15000	
1864	0.80	13195	1.1	0.54	14389	0.81	0.27	15000	0.42	15000	
1988	0.75	12975	1.0	0.50	13987	0.74	0.25	15000	0.39	15000	
2307	0.65	13340	0.91	0.43	14375	0.65	0.22	15000	0.35	15000	
2524	0.59	9025	0.56	0.40	9751	0.41	0.20	11100	0.23	15000	
2787	0.54	13815	0.78	0.36	14880	0.56	0.18	15000	0.28	15000	
3207	0.47	12288	0.60	0.31	13240	0.43	0.16	15000	0.25	15000	



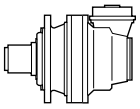
i_{eff}	1500			1000			500			T_{2max} [Nm]	P_T [kW]
	n_2 [rpm]	T_2 [Nm]	P_2 [kW]	n_2 [rpm]	T_2 [Nm]	P_2 [kW]	n_2 [rpm]	T_2 [Nm]	P_2 [kW]		
EM 1090											
4.08	368	5188	200	245	5859	150	123	7213	93	15000	
5.05	297	5396	168	198	6094	126	99	7502	78	15000	
5.81	258	5516	149	172	6230	112	86	6866	62	15000	40
6.92	217	4667	106	145	4967	75	72	5411	40.9	15000	
8.70	172	3564	64	115	3791	45.6	57	4142	24.9	15000	
ED 2090											
14.28	105	7554	83	70	8532	63	35.0	10504	38.5	15000	
16.85	89	7939	74	59	8966	56	29.7	11038	34.3	15000	
17.68	85	7814	69	57	8157	48.3	28.3	9233	27.4	15000	
21.09	71	8492	63	47.4	9591	47.6	23.7	11648	28.9	15000	
24.48	61	8880	57	40.8	9757	41.7	20.4	10681	22.8	15000	
29.58	51	7971	42.3	33.8	8475	30.0	16.9	9249	16.4	15000	23
30.30	49.5	8266	42.9	33.0	8938	30.9	16.5	10306	17.8	15000	
36.61	41.0	8533	36.6	27.3	9301	26.6	13.7	10701	15.3	15000	
41.52	36.1	5815	22.0	24.1	6246	15.8	12.0	7230	9.1	15000	
44.98	33.3	4402	15.4	22.2	4643	10.8	11.1	5460	6.4	15000	
50.17	29.9	5956	18.6	19.9	6506	13.6	10.0	7515	7.8	15000	
ET 3090											
58.98	25.4	11561	30.8	17.0	12687	22.5	8.5	13568	12.0	15000	
61.86	24.2	9533	24.2	16.2	10349	17.5	8.1	11850	10.0	15000	
73.83	20.3	12245	26.1	13.5	12977	18.4	6.8	13995	9.9	15000	
75.40	19.9	10714	22.3	13.3	11209	15.6	6.6	12532	8.7	15000	
87.12	17.2	12649	22.8	11.5	13036	15.7	5.7	14316	8.6	15000	
101.1	14.8	11074	17.2	9.9	11557	12.0	4.9	13379	6.9	15000	
109.1	13.8	12394	17.9	9.2	13221	12.7	4.6	14761	7.1	15000	
126.6	11.9	12590	15.6	7.9	13678	11.3	4.0	15000	6.3	15000	
146.9	10.2	11519	12.3	6.8	12458	8.9	3.4	14505	5.2	15000	15
152.9	9.8	13016	13.4	6.5	14063	9.6	3.3	15000	5.2	15000	
177.5	8.5	11854	10.5	5.6	12999	7.7	2.8	15000	4.4	15000	
209.2	7.2	10493	7.9	4.8	11337	5.7	2.4	12901	3.2	15000	
219.7	6.8	12238	8.8	4.6	13209	6.3	2.3	15000	3.6	15000	
252.7	5.9	10881	6.8	4.0	11749	4.9	2.0	13357	2.8	15000	
265.4	5.7	12649	7.5	3.8	13683	5.4	1.9	15000	3.0	15000	
305.4	4.9	11280	5.8	3.3	12171	4.2	1.6	13826	2.4	15000	
363.7	4.1	8950	3.9	2.7	9673	2.8	1.4	11016	1.6	15000	
EQ 4090											
409.3	3.7	15000	5.8	2.4	15000	3.8	1.2	15000	1.9	15000	
443.0	3.4	15000	5.3	2.3	15000	3.6	1.1	15000	1.7	15000	
512.4	2.9	15000	4.6	2.0	15000	3.1	0.98	15000	1.5	15000	
555.6	2.7	15000	4.2	1.8	15000	2.8	0.90	15000	1.4	15000	
654.3	2.3	15000	3.6	1.5	15000	2.4	0.76	15000	1.2	15000	
718.5	2.1	15000	3.3	1.4	15000	2.2	0.70	15000	1.1	15000	
779.1	1.9	15000	3.0	1.3	15000	2.0	0.64	15000	1.0	15000	
878.3	1.7	15000	2.7	1.1	15000	1.7	0.57	15000	0.90	15000	
1019	1.5	15000	2.4	0.98	15000	1.5	0.49	15000	0.77	15000	
1145	1.3	15000	2.0	0.87	15000	1.4	0.44	15000	0.69	15000	11
1232	1.2	15000	2.9	0.81	15000	1.3	0.41	15000	0.64	15000	
1329	1.1	15000	1.7	0.75	15000	1.2	0.38	15000	0.60	15000	
1606	0.93	15000	1.5	0.62	15000	1.0	0.31	15000	0.49	15000	
1864	0.80	15000	1.3	0.54	15000	0.85	0.27	15000	0.42	15000	
1988	0.75	15000	1.2	0.50	15000	0.79	0.25	15000	0.39	15000	
2307	0.65	15000	1.0	0.43	15000	0.68	0.22	15000	0.35	15000	
2524	0.59	12839	0.80	0.40	13806	0.57	0.20	15000	0.31	15000	
2787	0.54	15000	0.80	0.36	15000	0.57	0.18	15000	0.28	15000	
3207	0.47	15000	0.74	0.31	15000	0.49	0.16	15000	0.25	15000	



i_{eff}	1500			1000			500			T_{2max} [Nm]	P_T [kW]
	n_2 [rpm]	T_2 [Nm]	P_2 [kW]	n_2 [rpm]	T_2 [Nm]	P_2 [kW]	n_2 [rpm]	T_2 [Nm]	P_2 [kW]		
EC 2090 - PDA 2090											
12.24	123	2760	35.4	82	3117	26.7	40.8	3838	16.4	15000	
15.15	99	3416	35.4	66	3858	26.7	33.0	4750	16.4	15000	
17.43	86	3931	35.4	57	4439	26.7	28.7	5465	16.4	15000	
20.76	72	4514	34.2	48.2	4753	24.0	24.1	5107	12.9	15000	18
23.33	64	2283	15.4	42.9	2578	11.6	21.4	3174	7.1	15000	
26.84	56	2627	15.4	37.3	2966	11.6	18.6	3652	7.1	15000	
31.97	46.9	3129	15.4	31.3	3533	11.6	15.6	4350	7.1	15000	
40.19	37.3	3582	14.0	24.9	3753	9.8	12.4	4045	5.3	15000	
EC 3090 - PDA 3090											
42.84	35.0	5945	21.8	23.3	6714	16.4	11.7	8266	10.1	15000	
50.55	29.7	6248	19.4	19.8	7056	14.6	9.9	8687	9.0	15000	
53.03	28.3	6184	18.3	18.9	6983	13.8	9.4	8194	8.1	15000	
65.97	22.7	6457	15.4	15.2	7292	11.6	7.6	8977	7.1	15000	
73.44	20.4	6989	14.9	13.6	7893	11.3	6.8	9717	6.9	15000	
77.85	19.3	7112	14.4	12.8	8032	10.8	6.4	9888	6.7	15000	
90.90	16.5	7269	12.6	11.0	8085	9.3	5.5	8813	5.1	15000	
97.45	15.4	7608	12.3	10.3	8592	9.2	5.1	10578	5.7	15000	15
113.1	13.3	7955	11.1	8.8	8984	8.3	4.4	10501	4.9	15000	
120.6	12.4	7913	10.3	8.3	8286	7.2	4.1	9334	4.1	15000	
140.0	10.7	8104	9.1	7.1	8393	6.3	3.6	9617	3.6	15000	
161.1	9.3	7216	7.0	6.2	7474	4.9	3.1	8537	2.8	15000	
169.1	8.9	8238	7.7	5.9	8684	5.4	3.0	9985	3.1	15000	
194.6	7.7	7336	5.9	5.1	7704	4.1	2.6	8867	2.4	15000	
231.8	6.5	5772	3.9	4.3	6047	2.7	2.2	6990	1.6	15000	
EC 4090 - PDA 4090											
285.8	5.2	8898	4.9	3.5	9657	3.5	1.7	11063	2.0	15000	
321.5	4.7	10884	5.3	3.1	12248	4.0	1.6	13220	2.2	15000	
341.1	4.4	11078	5.1	2.9	12149	3.7	1.5	13144	2.0	15000	
395.8	3.8	11585	4.6	2.5	12747	3.4	1.3	13603	1.8	15000	
467.1	3.2	12173	4.1	2.1	12996	2.9	1.1	13913	1.6	15000	
503.8	3.0	12131	3.8	2.0	12602	2.6	0.99	14058	1.5	15000	
564.4	2.7	12624	3.5	1.8	13056	2.4	0.89	14276	1.3	15000	
623.6	2.4	10399	2.6	1.6	11250	1.9	0.80	12829	1.1	15000	
706.5	2.1	12523	2.8	1.4	13246	2.0	0.71	14717	1.1	15000	
820.0	1.8	11431	2.2	1.2	12043	1.5	0.61	14005	0.89	15000	10
874.5	1.7	11105	2.0	1.1	12000	1.4	0.57	13661	0.82	15000	
1015	1.5	11427	1.8	0.99	12342	1.3	0.49	14042	0.72	15000	
1168	1.3	10154	1.4	0.86	10972	0.98	0.43	12491	0.56	15000	
1226	1.2	11847	1.5	0.82	12789	1.1	0.41	14537	0.62	15000	
1411	1.1	10530	1.2	0.71	11371	0.84	0.35	12934	0.48	15000	
1680	0.89	8340	0.78	0.60	9023	0.56	0.30	10291	0.32	15000	
1748	0.86	6325	0.57	0.57	6890	0.41	0.29	7939	0.24	15000	
2113	0.71	6585	0.49	0.47	7165	0.36	0.24	8245	0.20	15000	

Tutti i rapporti evidenziati (es. 12.24) hanno dimensioni particolari della coppia conica in certe versioni; vedere tavole dimensionali.
All ratios grey highlighted (ex. 12.24) have specific dimensions of the bevel gear set in some versions; see dimensional tables.
Alle mit (es. 12.24) gekennzeichneten Übersetzungen haben in bestimmten Versionen besondere Dimensionen des Kegelradtriebs. Siehe auch Dimensionstabellen.
Les rapports repérés par (es. 12.24) ont des dimensions de couple conique particulières. Voir les tableaux dimensionnels.
Todas las relaciones indicadas con (es. 12.24) tienen dimensiones particulares del par cónico según las versiones; ver las tablas de dimensión.
As relações marcadas com (es. 12.24) têm dimensões particulares da engrenagem cônica em certas versões; vide tabelas dimensionais.

* bg 143

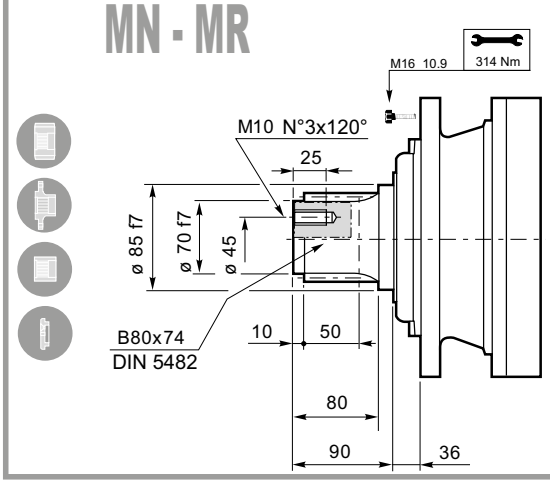


i_{eff}	1500			1000			500			T_{2max} [Nm]	P_T [kW]
	n_2 [rpm]	T_2 [Nm]	P_2 [kW]	n_2 [rpm]	T_2 [Nm]	P_2 [kW]	n_2 [rpm]	T_2 [Nm]	P_2 [kW]		
EC 2090 - PDA 2090											
12.24	123	4877	63	82	5507	47.1	40.8	6781	29.0	15000	
15.15	99	6036	63	66	6817	47.1	33.0	8393	29.0	15000	
17.43	86	6866	62	57	7169	43.1	28.7	7941	23.9	15000	
20.76	72	5411	40.9	48.2	5650	28.5	24.1	6246	15.8	15000	18
23.33	64	4034	27.2	42.9	4556	20.5	21.4	5609	12.6	15000	
26.84	56	4641	27.2	37.3	5241	20.5	18.6	6453	12.6	15000	
31.97	46.9	5528	27.2	31.3	5896	19.3	15.6	6849	11.2	15000	
40.19	37.3	4349	17.0	24.9	4539	11.8	12.4	5322	6.9	15000	
EC 3090 - PDA 3090											
42.84	35.0	10504	38.5	23.3	11863	29.0	11.7	13030	15.9	15000	
50.55	29.7	11039	34.3	19.8	12309	25.5	9.9	13280	13.8	15000	
53.03	28.3	9233	27.4	18.9	10034	19.8	9.4	11504	11.4	15000	
65.97	22.7	11408	27.2	15.2	12883	20.5	7.6	13780	10.9	15000	
73.44	20.4	10681	22.8	13.6	11177	15.9	6.8	12458	8.9	15000	
77.85	19.3	12373	25.0	12.8	12996	17.5	6.4	14097	9.5	15000	
90.90	16.5	10306	17.8	11.0	11165	12.9	5.5	12749	7.3	15000	
97.45	15.4	12244	19.7	10.3	12880	13.8	5.1	14537	7.8	15000	15
113.1	13.3	11209	15.6	8.8	11730	10.9	4.4	13711	6.3	15000	
120.6	12.4	10900	14.2	8.3	11792	10.2	4.1	13442	5.8	15000	
140.0	10.7	11222	12.6	7.1	12133	9.1	3.6	13818	5.2	15000	
161.1	9.3	9975	9.7	6.2	10788	7.0	3.1	12293	4.0	15000	
169.1	8.9	11641	10.8	5.9	12527	7.8	3.0	14309	4.4	15000	
194.6	7.7	10348	8.4	5.1	11184	6.0	2.6	12731	3.4	15000	
231.8	6.5	8194	5.6	4.3	8872	4.0	2.2	10128	2.3	15000	
EC 4090 - PDA 4090											
285.8	5.2	12862	7.1	3.5	13871	5.1	1.7	15000	2.7	15000	
321.5	4.7	14727	7.2	3.1	15000	4.9	1.6	15000	2.5	15000	
341.1	4.4	14845	6.8	2.9	15000	4.6	1.5	15000	2.4	15000	
395.8	3.8	15000	6.0	2.5	15000	3.9	1.3	15000	2.0	15000	
467.1	3.2	15000	5.0	2.1	15000	3.3	1.1	15000	1.7	15000	
503.8	3.0	15000	4.7	2.0	15000	3.1	0.99	15000	1.6	15000	
564.4	2.7	15000	4.2	1.8	15000	2.8	0.89	15000	1.4	15000	
623.6	2.4	14860	3.7	1.6	15000	2.5	0.80	15000	1.3	15000	
706.5	2.1	15000	3.3	1.4	15000	2.2	0.71	15000	1.1	15000	
820.0	1.8	15000	2.8	1.2	15000	1.9	0.61	15000	0.96	15000	10
874.5	1.7	15000	2.7	1.1	15000	1.7	0.57	15000	0.90	15000	
1015	1.5	15000	2.4	0.99	15000	1.6	0.49	15000	0.77	15000	
1168	1.3	14446	1.9	0.86	15000	1.4	0.43	15000	0.68	15000	
1226	1.2	15000	1.9	0.82	15000	1.3	0.41	15000	0.64	15000	
1411	1.1	14946	1.7	0.71	15000	1.1	0.35	15000	0.55	15000	
1680	0.89	11926	1.1	0.60	12836	0.80	0.30	14526	0.45	15000	
1748	0.86	9290	0.84	0.57	10042	0.60	0.29	11440	0.34	15000	
2113	0.71	9636	0.72	0.47	10410	0.52	0.24	11847	0.29	15000	

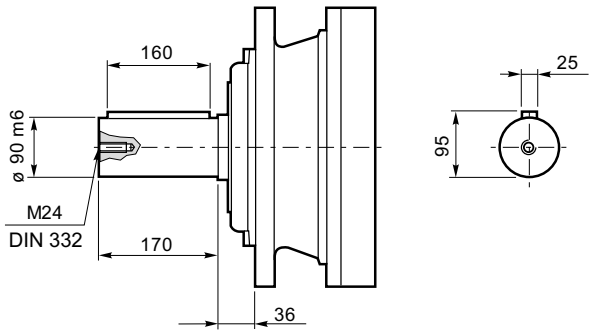
Tutti i rapporti evidenziati (es. 12.24) hanno dimensioni particolari della coppia conica in certe versioni; vedere tavole dimensionali.
All ratios grey highlighted (ex. 12.24) have specific dimensions of the bevel gear set in some versions; see dimensional tables.
Alle mit (es. 12.24) gekennzeichneten Übersetzungen haben in bestimmten Versionen besondere Dimensionen des Kegelradtriebs. Siehe auch Dimensionstabellen.
Les rapports repérés par (es. 12.24) ont des dimensions de couple conique particulières. Voir les tableaux dimensionnels.
Todas las relaciones indicadas con (es. 12.24) tienen dimensiones particulares del par cónico según las versiones; ver las tablas de dimensión.
As relações marcadas com (es. 12.24) têm dimensões particulares da engrenagem cônica em certas versões; vide tabelas dimensionais.

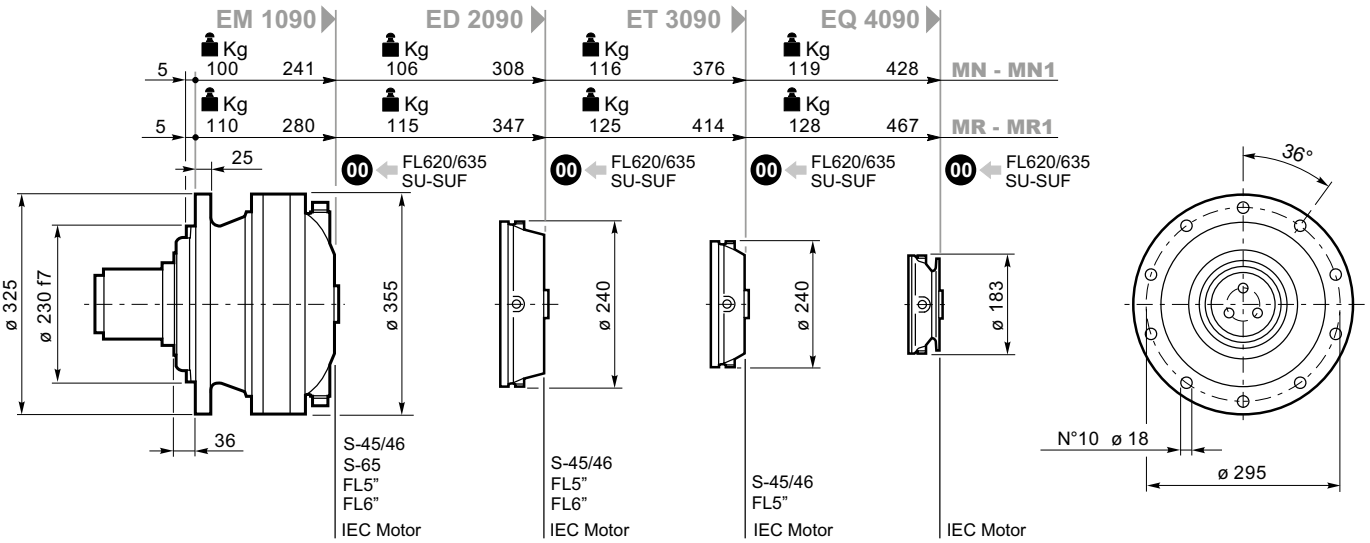
* bg 143

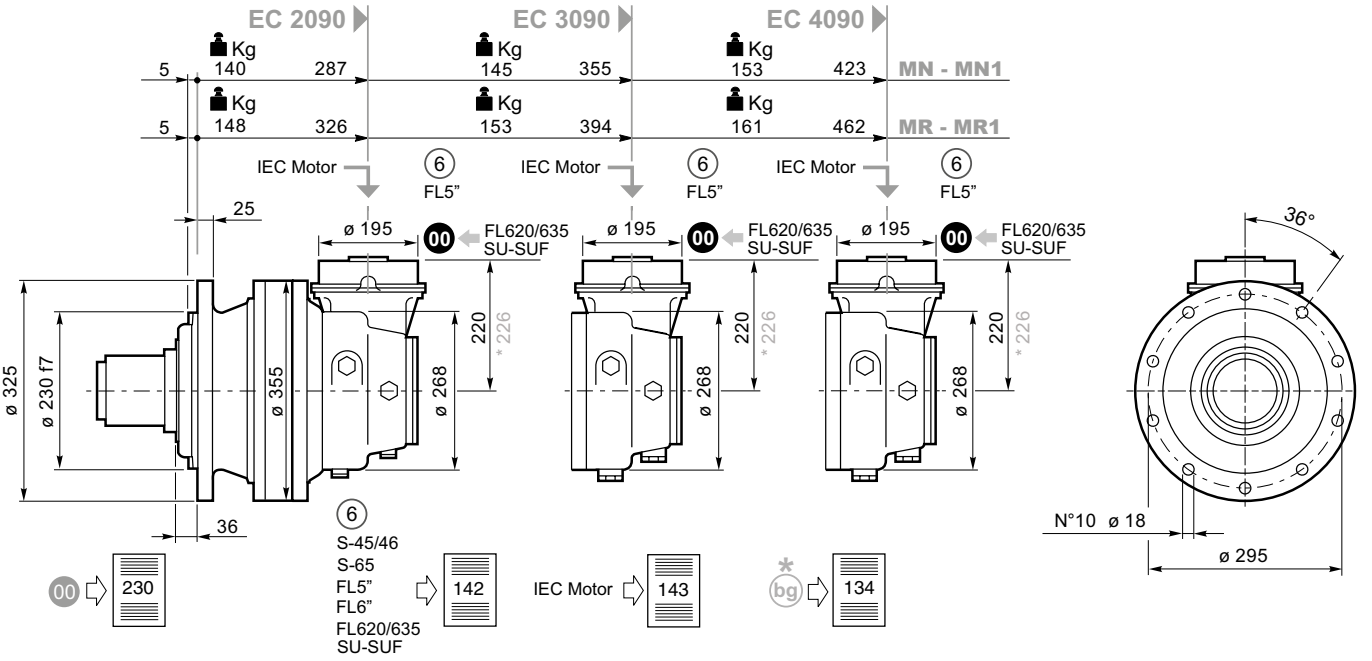
MN - MR

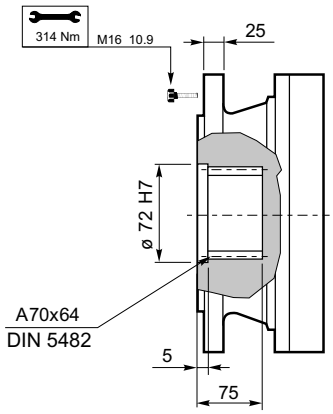

M16 10.9
314 Nm
M10 N°3x120°
25
ø 85 f7
ø 70 f7
ø 45
B80x74
DIN 5482
10
50
80
90
36

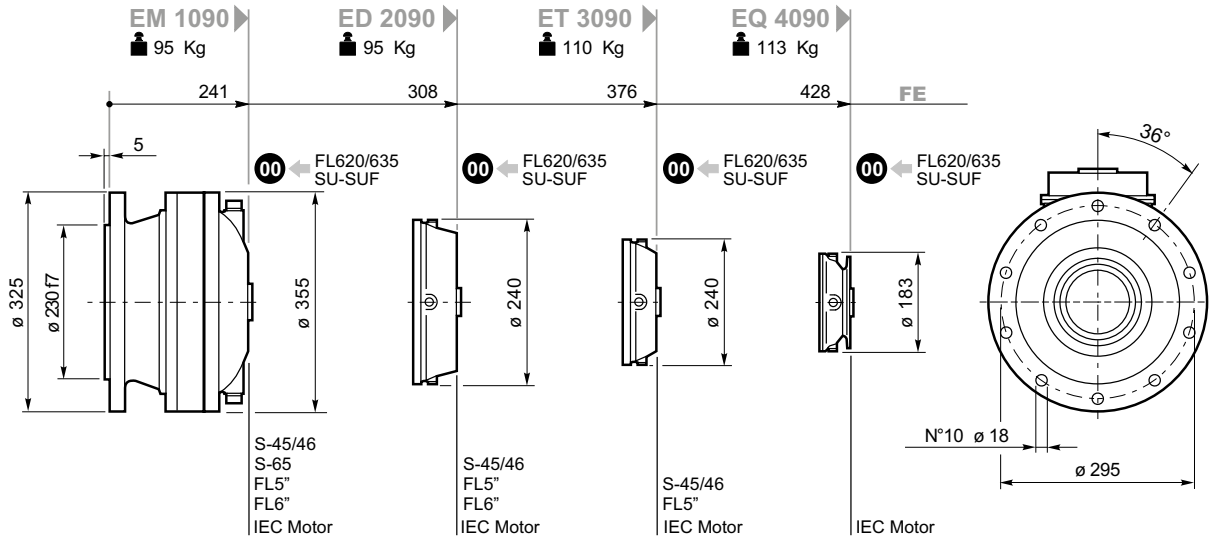
MN1 - MR1

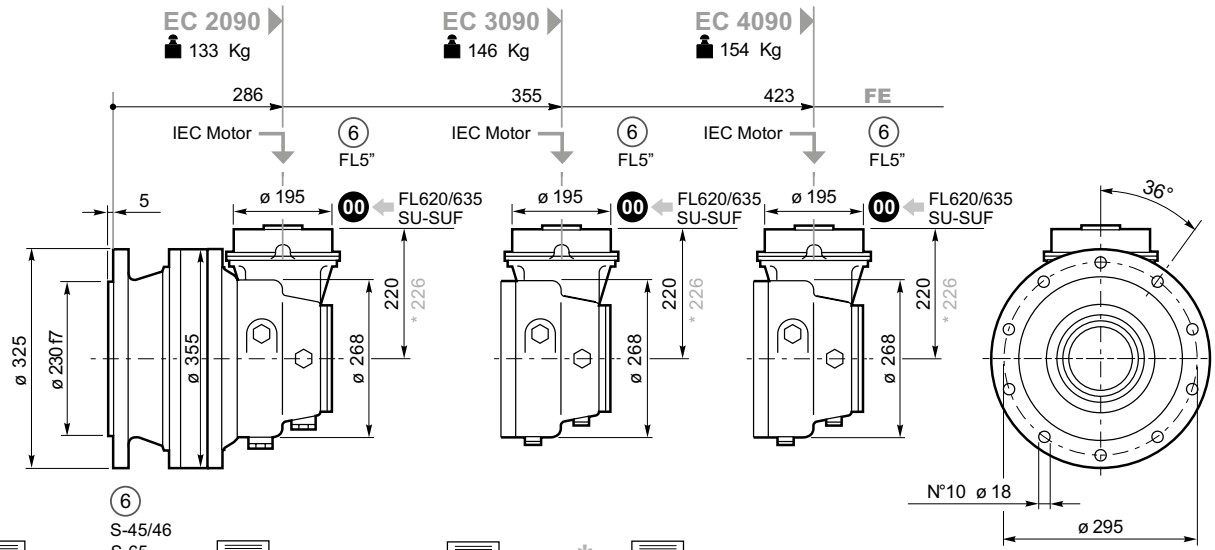

160
ø 90 m6
M24
DIN 332
170
36
25
95

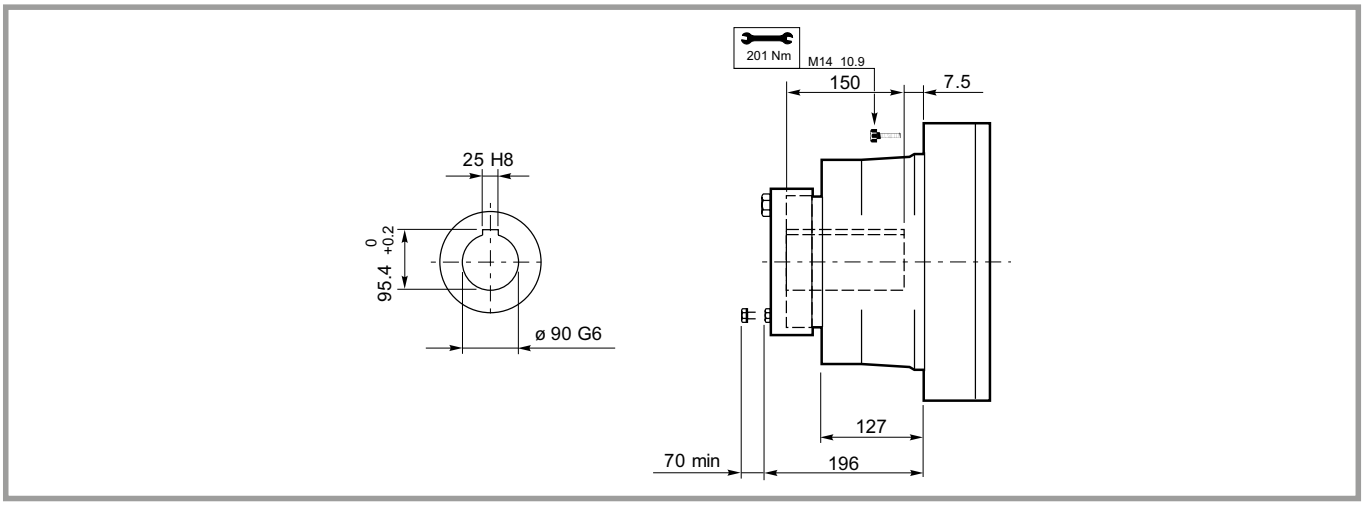

EM 1090
ED 2090
ET 3090
EQ 4090
Kg
100 241
106 308
116 376
119 428
MN - MN1
110 280
115 347
125 414
128 467
MR - MR1
5
25
00 FL620/635 SU-SUF
ø 325
ø 230 f7
ø 355
ø 240
ø 183
36
S-45/46
S-65
FL5"
FL6"
IEC Motor
36°
N°10 ø 18
ø 295

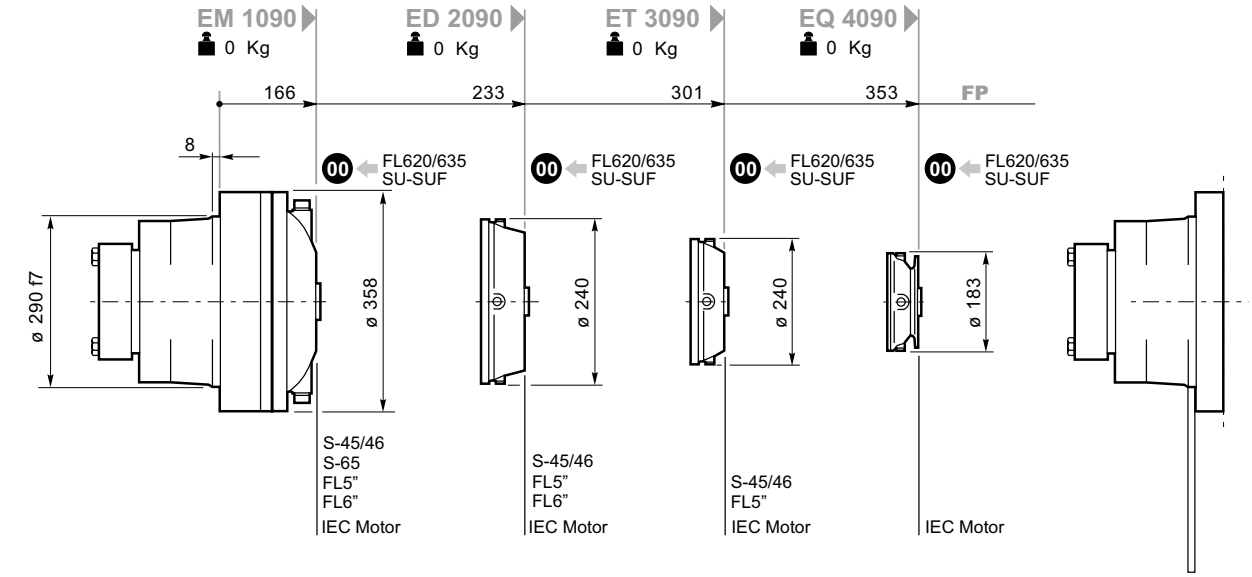

EC 2090
EC 3090
EC 4090
Kg
140 287
145 355
153 423
MN - MN1
148 326
153 394
161 462
MR - MR1
IEC Motor
6
FL5"
25
ø 195
00 FL620/635 SU-SUF
ø 325
ø 230 f7
ø 355
ø 268
220
* 226
36
S-45/46
S-65
FL5"
FL6"
FL620/635
SU-SUF
00 230
142
IEC Motor 143
bg 134
36°
N°10 ø 18
ø 295

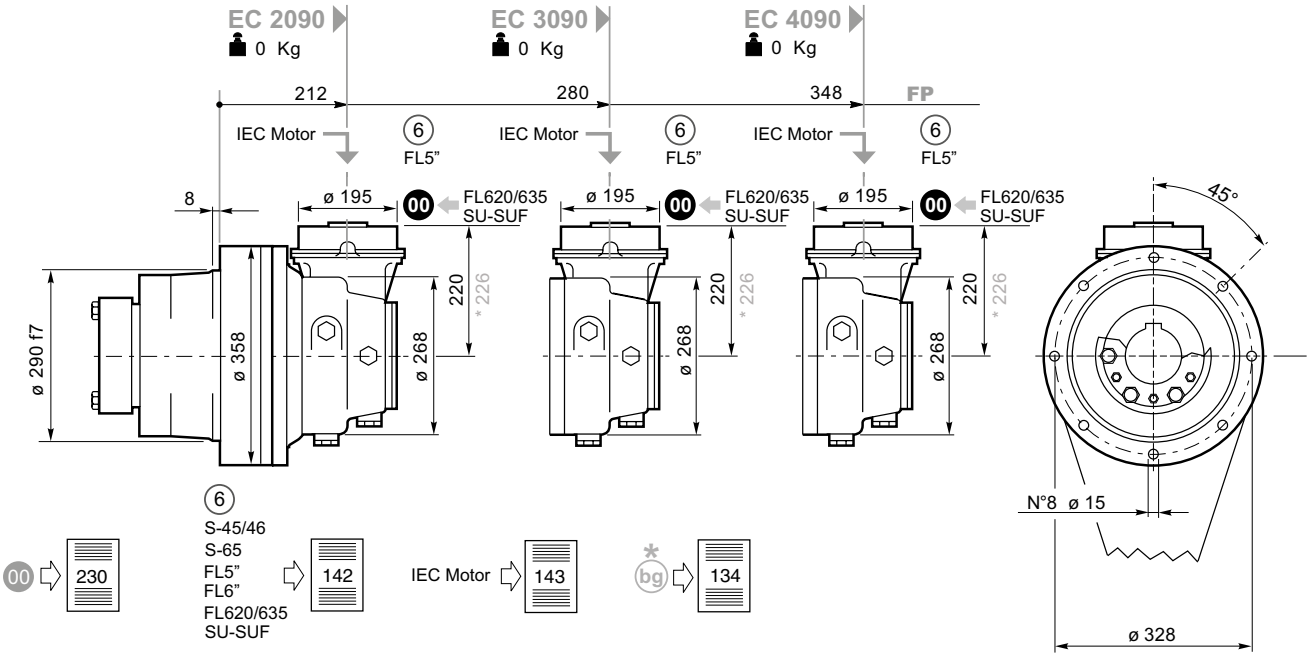

314 Nm
M16 10.9
25
ø 72 H7
A70x64
DIN 5482
5
75

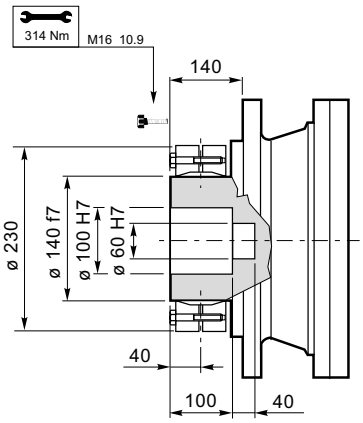

EM 1090
95 Kg
ED 2090
95 Kg
ET 3090
110 Kg
EQ 4090
113 Kg
241
308
376
428
FE
5
00 FL620/635 SU-SUF
ø 325
ø 230f7
ø 355
ø 240
ø 240
ø 183
36°
N°10 ø 18
ø 295
S-45/46
S-65
FL5"
FL6"
IEC Motor
S-45/46
FL5"
FL6"
IEC Motor
S-45/46
FL5"
IEC Motor
IEC Motor

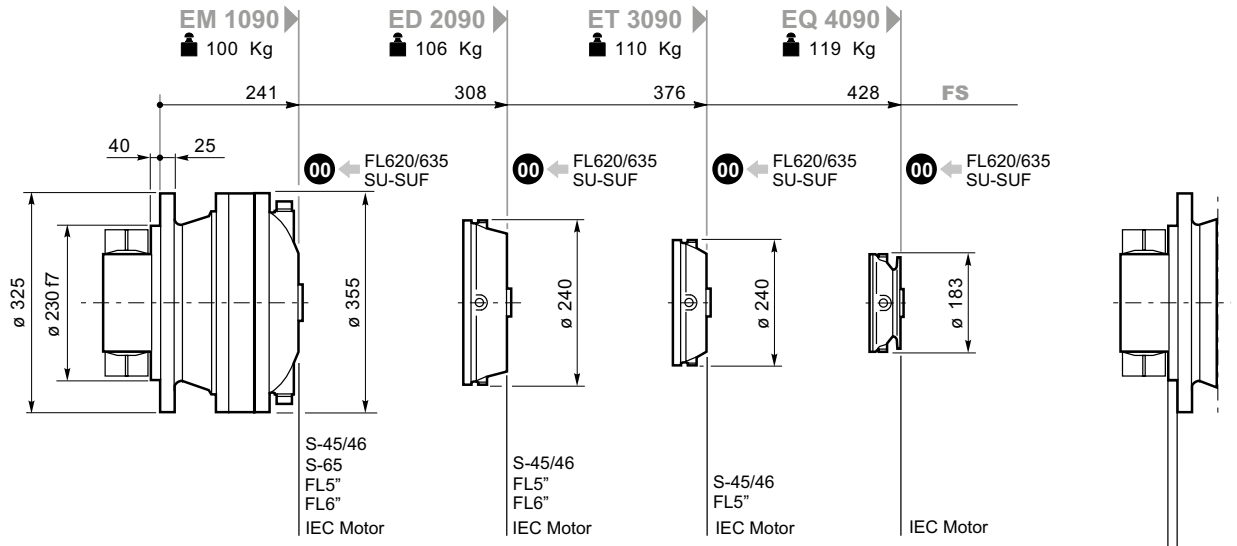

EC 2090
133 Kg
EC 3090
146 Kg
EC 4090
154 Kg
286
355
423
FE
IEC Motor
6
FL5"
IEC Motor
6
FL5"
IEC Motor
6
FL5"
5
ø 195
00 FL620/635 SU-SUF
ø 325
ø 230f7
ø 355
ø 268
220
* 226
ø 195
00 FL620/635 SU-SUF
ø 268
220
* 226
ø 195
00 FL620/635 SU-SUF
ø 268
220
* 226
36°
N°10 ø 18
ø 295
6
S-45/46
S-65
FL5"
FL6"
FL620/635
SU-SUF
00
230
142
IEC Motor
143
* bg
134

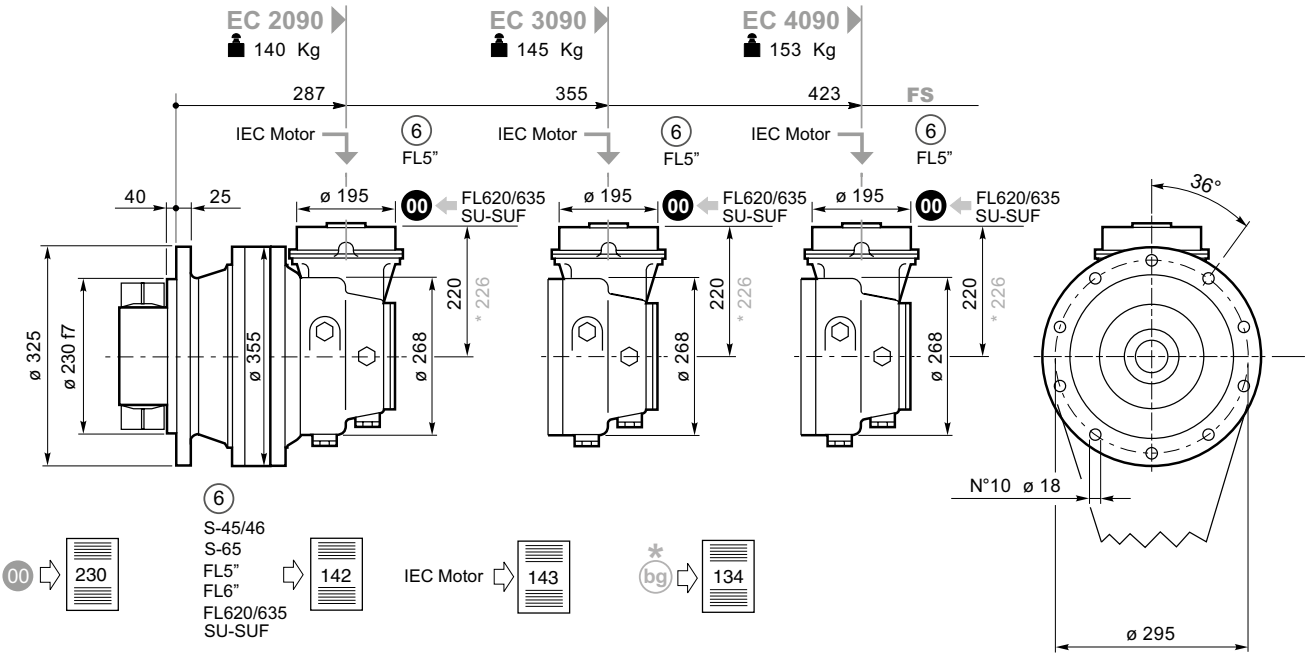

201 Nm
M14 10.9
150
7.5
25 H8
95.4 +0.2 0
ø 90 G6
127
70 min
196

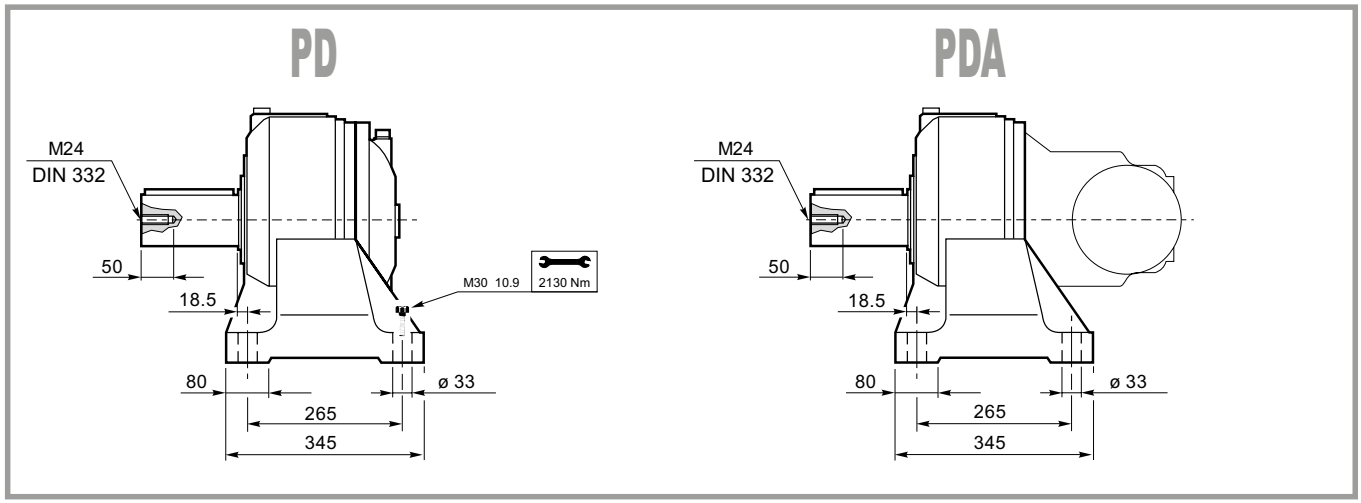

EM 1090
0 Kg
ED 2090
0 Kg
ET 3090
0 Kg
EQ 4090
0 Kg
166
233
301
353
FP
8
00 FL620/635 SU-SUF
ø 290 f7
ø 358
ø 240
ø 240
ø 183
S-45/46
S-65
FL5"
FL6"
IEC Motor
S-45/46
FL5"
FL6"
IEC Motor
S-45/46
FL5"
IEC Motor
IEC Motor

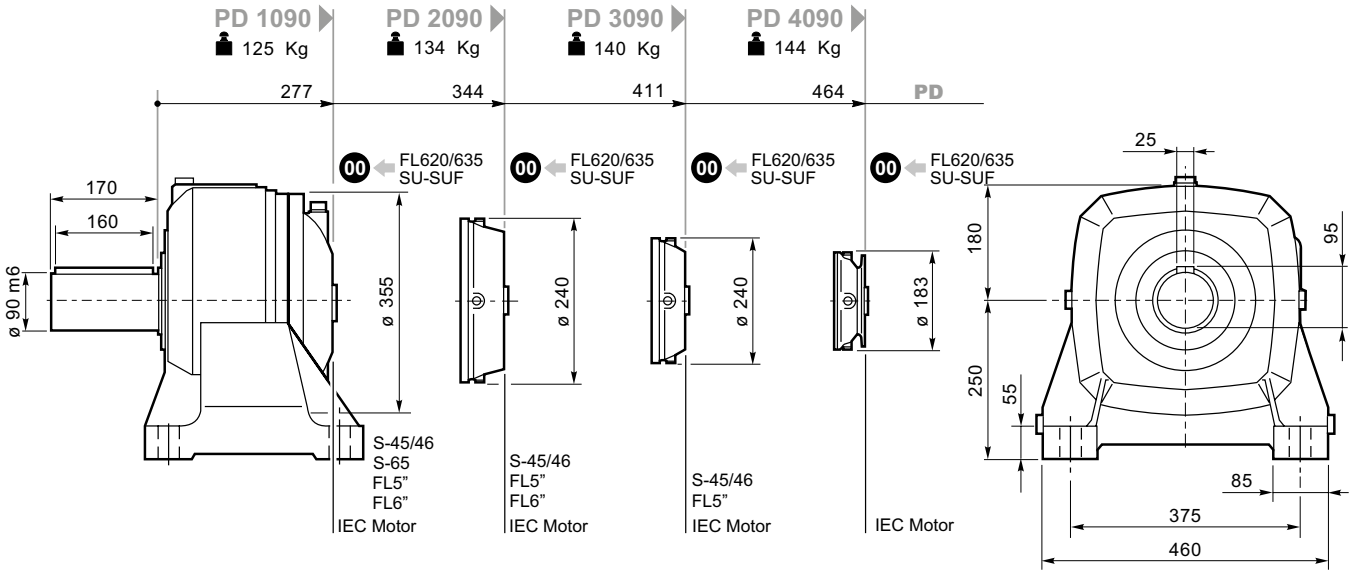

EC 2090
0 Kg
EC 3090
0 Kg
EC 4090
0 Kg
212
280
348
FP
IEC Motor
6
FL5"
IEC Motor
6
FL5"
IEC Motor
6
FL5"
8
ø 195
00 FL620/635 SU-SUF
ø 290 f7
ø 358
ø 268
220
* 226
45°
N°8 ø 15
ø 328
6
S-45/46
S-65
FL5"
FL6"
FL620/635
SU-SUF
00 230
142
IEC Motor 143
bg 134

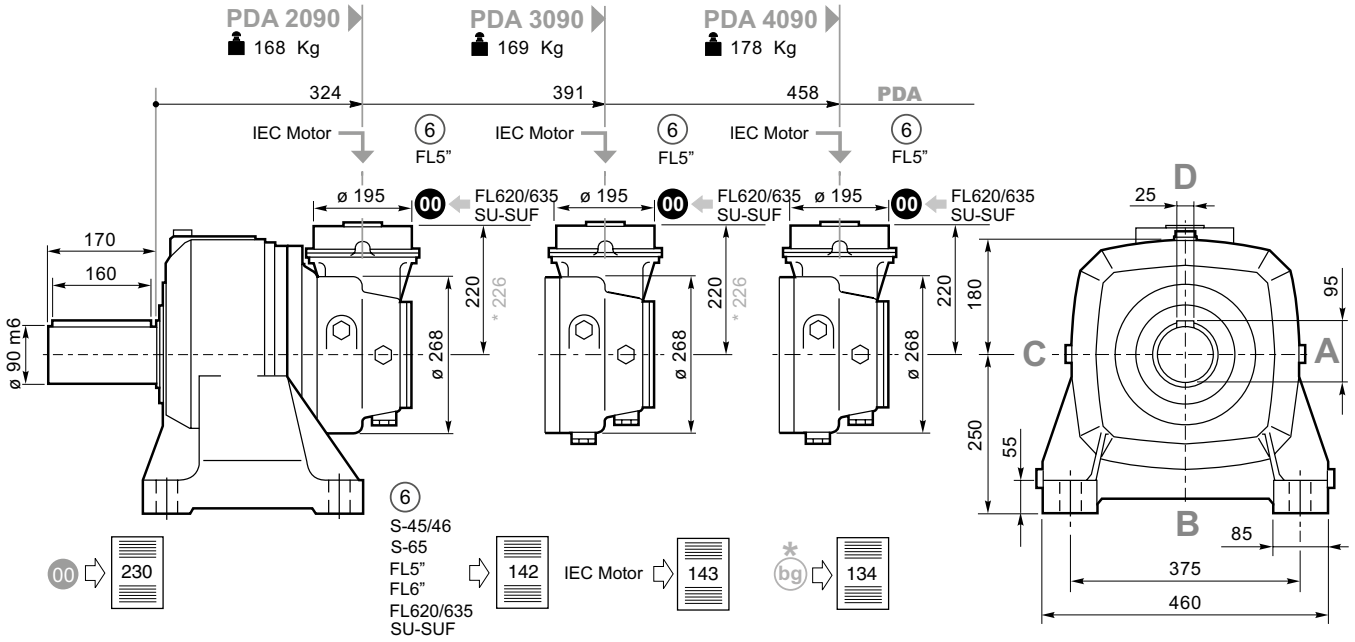

314 Nm
M16 10.9
140
ø 230
ø 140 f7
ø 100 H7
ø 60 H7
40
100
40


EM 1090
100 Kg
ED 2090
106 Kg
ET 3090
110 Kg
EQ 4090
119 Kg
241
308
376
428
FS
40
25
00 FL620/635 SU-SUF
ø 325
ø 230 f7
ø 355
ø 240
ø 240
ø 183
S-45/46
S-65
FL5"
FL6"
IEC Motor
S-45/46
FL5"
FL6"
IEC Motor
S-45/46
FL5"
IEC Motor
IEC Motor


EC 2090
140 Kg
EC 3090
145 Kg
EC 4090
153 Kg
287
355
423
FS
IEC Motor
6
FL5"
40
25
ø 195
00 FL620/635 SU-SUF
220
* 226
ø 325
ø 230 f7
ø 355
ø 268
36°
N°10 ø 18
ø 295
6
S-45/46
S-65
FL5"
FL6"
FL620/635
SU-SUF
00 230
142
IEC Motor 143
bg 134


PD
PDA
M24
DIN 332
50
18.5
M30 10.9
2130 Nm
80
ø 33
265
345


PD 1090
125 Kg
PD 2090
134 Kg
PD 3090
140 Kg
PD 4090
144 Kg
277
344
411
464
PD
00 FL620/635 SU-SUF
170
160
ø 90 m6
ø 355
ø 240
ø 240
ø 183
S-45/46
S-65
FL5"
FL6"
IEC Motor
25
180
95
250
55
85
375
460

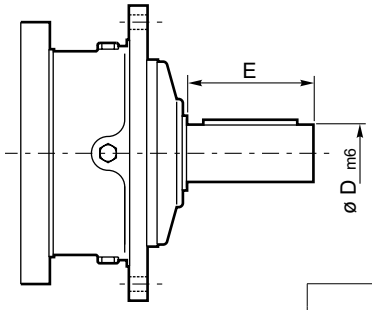

PDA 2090
168 Kg
PDA 3090
169 Kg
PDA 4090
178 Kg
324
391
458
PDA
IEC Motor
6
FL5"
ø 195
00 FL620/635 SU-SUF
170
160
ø 90 m6
220
* 226
ø 268
S-45/46
S-65
FL5"
FL6"
FL620/635
SU-SUF
142
IEC Motor
143
bg
134
00
230
25
D
C
A
B
180
95
250
55
85
375
460

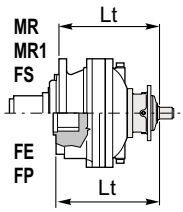
DANA BREVINI®

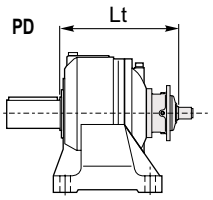
Motion Systems

Questa pagina è lasciata intenzionalemnet bianca
Page intentionally left blank
Seite wurde absichtlich leer gelassen
Page laissée intentionnellement vide
Página dejada intencionalmente en blanco
Página intencionalmente deixada em branco

S45CR1-S46C1

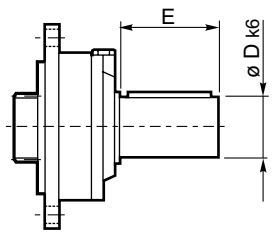




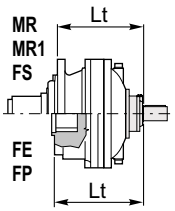


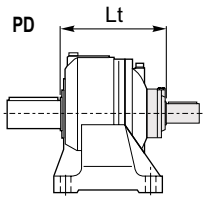
	D m6	E		Lt				
				MN-MN1-FS	MR-MR1	FE	FP	PD
S45 CR1	65	105	**EM 1090**	371	410	371	296	407
			ED 2090	371	410	371	296	407
			ET 3090	439	477	439	364	564
S46 C1	65	105	**EM 1090**	412	451	412	337	514
			ET 2090	412	451	412	337	447
			ET 3090	480	518	518	405	581

SU2

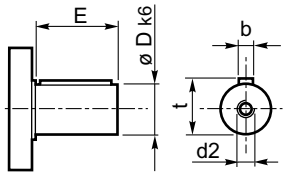


	D k6	E		Lt			
				MN-MN1 FE-FS	MR MR1	FP	PD
SU 2	40	58	**EM 1090**	301	340	226	337
			ED 2090	368	407	293	404
			ET 3090	436	474	361	471
			EQ 4090	488	527	413	524

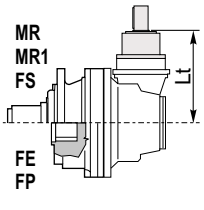


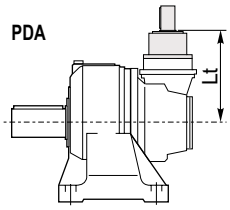


⑥ 48.82



	D	E		Lt
				MN-MN1-MR-MR1-FS-FP-PDA
48.82	48	82	**EC 2090**	280
			EC 3090	280
			EC 4090	280





Per le configurazioni in entrata: S46C1, 48.82 (CC40 - CC41), FL5" è disponibile a richiesta il dispositivo antiritorno; per ulteriori informazioni e dati tecnici consultare il referente DANA di zona.

Anti-run back device is available for following input settings: S46C1, 48.82 (CC40 - CC41), FL5"; for further information and technical data please consult the DANA area contact person.

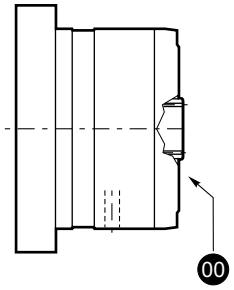
Für die Antriebskonfigurationen: S46C1, 48.82 (CC40 - CC41), FL5" ist auf Anfrage eine Rücklaufsperre verfügbar. Weitere Informationen und die Technischen Daten Sich an die DANA Kontaktperson der zone zu wenden.

Pour les configurations d'entrée : S46C1, 48.82 (CC40 - CC41), FL5" le dispositif antidévireur est disponible sur demande ; pour toute information supplémentaire ou toutes données techniques, consulter la personne de référence de la zone DANA.

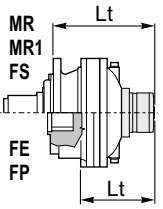
Para las configuraciones en entrada: S46C1, 48.82 (CC40 - CC41), FL5" , se encuentra disponible a pedido, el dispositivo antirretrocesos; para ulteriores informaciones y datos técnicos, consulte a la persona de contacto del área de DANA.

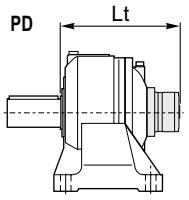
Para as configurações na entrada: S46C1, 48.82 (CC40 - CC41), FL5" está disponível, a pedido, o dispositivo contra-recuos; para mais informações e dados técnicos, consulte seu contato local da DANA.

FL250-FL350-FL450 FL650-FL750 FL960



		Lt			
		MN-MN1 FE-FS	MR-MR1	FP	PD-PDA
FL250 FL350 FL450	EM 1090	341	380	266	377
	ED 2090	402	440	327	438
	ET 3090	469	508	394	505
	EC 2090	280	280	280	280
	EC 2090*	377	377	377	377
	EC 3090	280	280	280	280
	EC 3090*	377	377	377	377
	EC 4090	280	280	280	280
	EC 4090*	377	377	377	377
FL650 FL750	EM 1090	354	393	279	390
	ED 2090	415	453	340	451
	ET 3090	482	521	407	518
FL960	EM 1090	368	407	293	405
	ED 2090	442	480	366.9	—

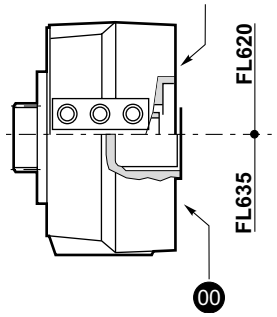




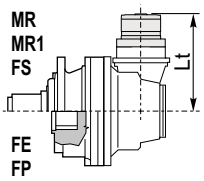
FL620.10
FL635.10

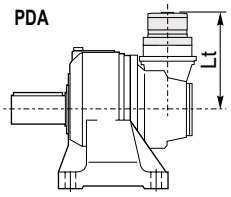
FL620.U-FL635.U

SAE A-AA
Shaft FE



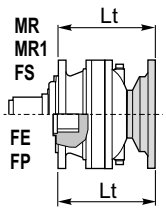
		Lt			
		MN-MN1 FE-FS	MR-MR1	FP	PD
FL620.U	EM 1090	345.5	348.5	270.5	381.5
	ED 2090	412.5	451.5	337.5	448.5
	ET 3090	480.5	518.5	405.5	515.5
	EQ 4090	532.5	571.5	457.5	568.5
	EC 2090	324.5	324.5	324.5	324.5
	EC 2090*	330.5	330.5	330.5	330.5
	EC 3090	324.5	324.5	324.5	324.5
	EC 3090*	330.5	330.5	330.5	330.5
	EC 4090	324.5	324.5	324.5	324.5
	EC 4090*	330.5	330.5	330.5	330.5
FL635.U	EM 1090	332	371	257	368
	ED 2090	399	438	342	435
	ET 3090	467	505	392	502
	EQ 4090	519	558	444	555
	EC 2090	311	311	311	311
	EC 2090*	317	317	317	317
	EC 3090	311	311	311	311
	EC 3090*	317	317	317	317
	EC 4090	311	311	311	311
	EC 4090*	317	317	317	317
FL620.10	EQ 4090	492	531	417	475
FL635.10	EQ 4090	474	512	398	456

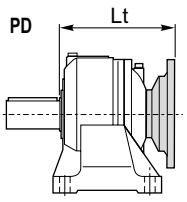


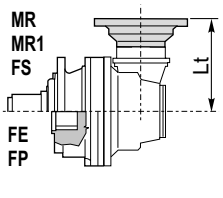


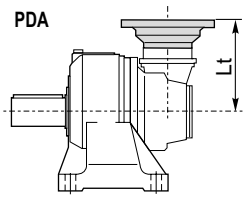
IEC Motor

		Lt							
		IEC 63	IEC 71	IEC 80 90	IEC 100 112	IEC 132	IEC 160 180	IEC 200	IEC 225
EM 1090	MN-MN1-FE-FS	261	263	268	269	336	367	380	408
EM 1090	MR-MR1	300	302	307	308	375	406	419	447
EM 1090	FP								
ED 2090	MN-MN1-FE-FS	328	330	335	336	403	434	444	475
ED 2090	MR-MR1	367	369	374	375	442	473	483	514
ED 2090	FP								
ET 3090	MN-MN1-FE-FS	396	389	403	404	471	502	512	543
ET 3090	MR-MR1	434	436	441	442	509	540	550	581
ET 3090	FP								
EQ 4090	MN-MN1-FE-FS	448	450	455	456	523			
EQ 4090	MR-MR1	487	489	494	495	562			
EQ 4090	FP								
PD 1090	PD	297	299	304	305	372	403	416	444
PD 2090	PD	364	366	371	372	506	537	483	511
PD 3090	PD	431	433	438	439	506	537	550	578
PD 4090	PD	484	486	491	492	559	439	550	578
EC 2090	MN-MR-MN1-MR1 FE-FS-FP-PDA	240	242	247	248	315	346		
EC 2090*		246	248	253	254	321	352		
EC 3090		240	242	247	248	315	346		
EC 3090*		246	248	253	254	321	352		
EC 4090		240	242	247	248	315	346		
EC 4090*		246	248	253	254	321	352		





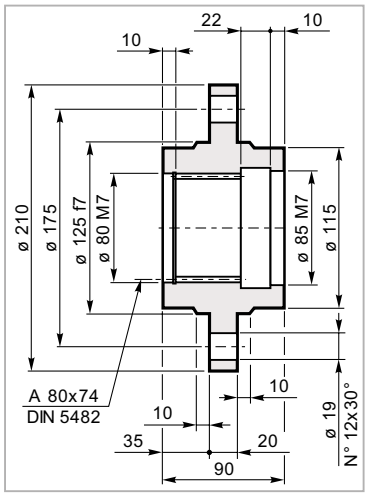




* bg 134

FA 090

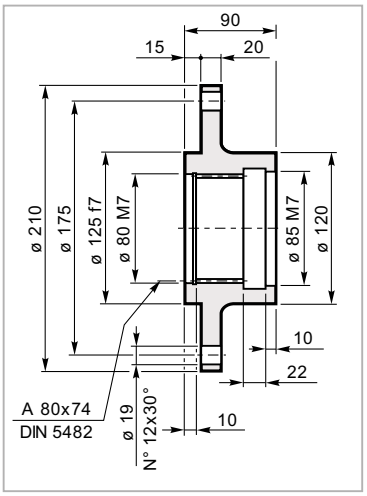
Flangia ruota
Driving flange
Radnabenflansch
Flasque de roue
Brida de la rueda
Flange de roda



Mat. C40 UNI EN 10083
Code: 34701521800

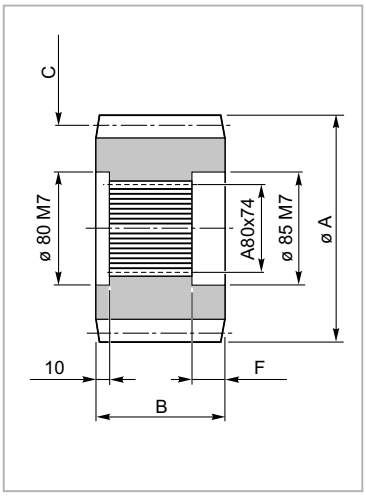
FR 090

Flangia ruota
Driving flange
Radnabenflansch
Flasque de roue
Brida de la rueda
Flange de roda



Mat. C40 UNI EN 10083
Code: 34701421800

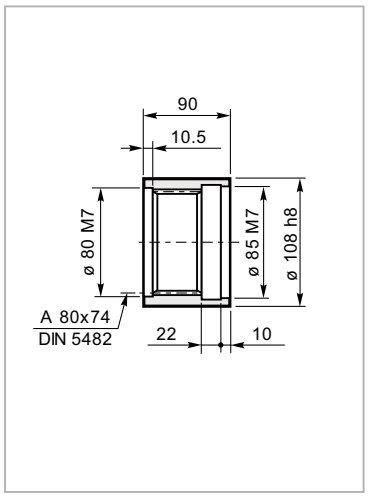
Pignoni
Pinion
Ritzel
Pignon
Piñones
Pinhões



code	A	B	C	F
335.3543.0600	159	90	M=10 Z=13 X=0.5	31

MS 090

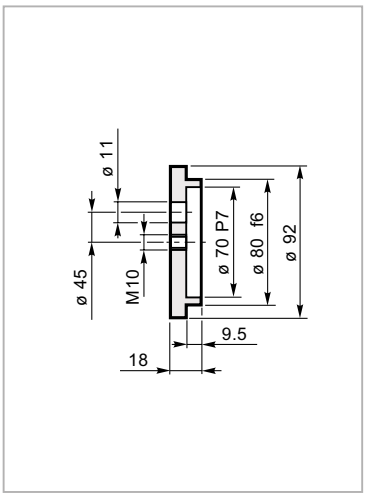
Manicotto scanalato
Splined bush
Keilmuffe
Manchon cannelée
Manguito acanalado
Luva ranhurada



Mat. 39NiCrMo3 UNI EN 10083
Code: 39103040600

RDF 090

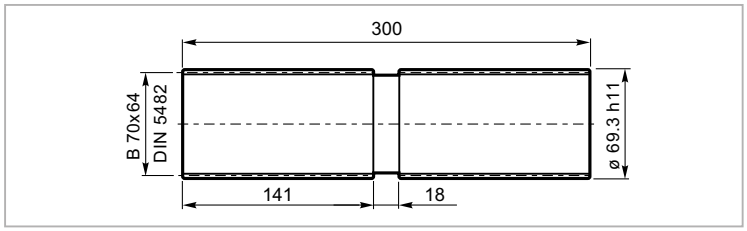
Rondella di fermo
Shaft cover
Gegenscheibe
Rondelle frein
Arandela de bloqueo
Amuela de encosto



Mat. C40 UNI EN 10083
Code: 37200940800

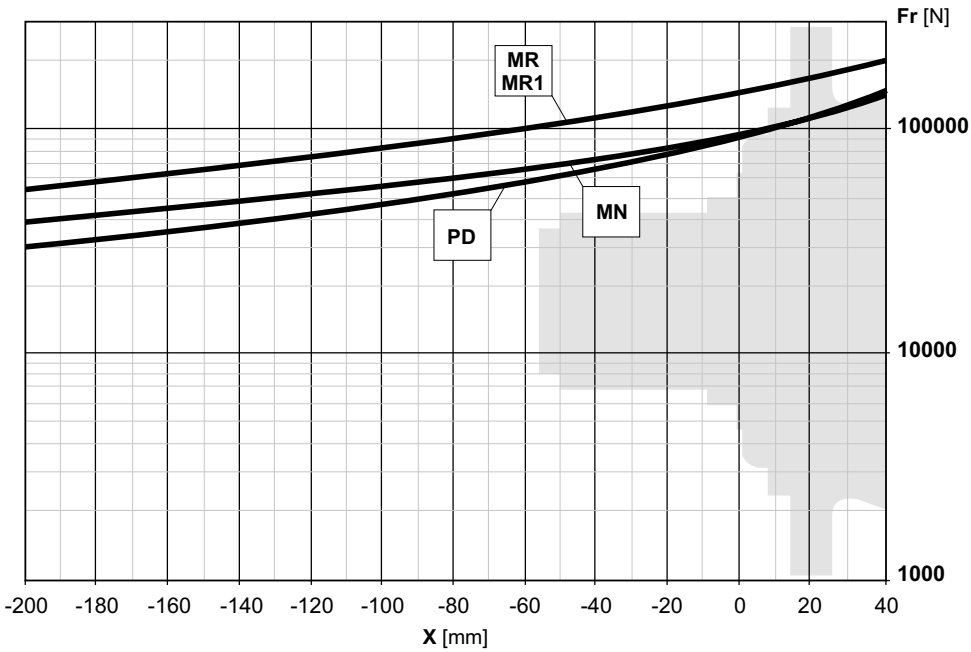
BS 090

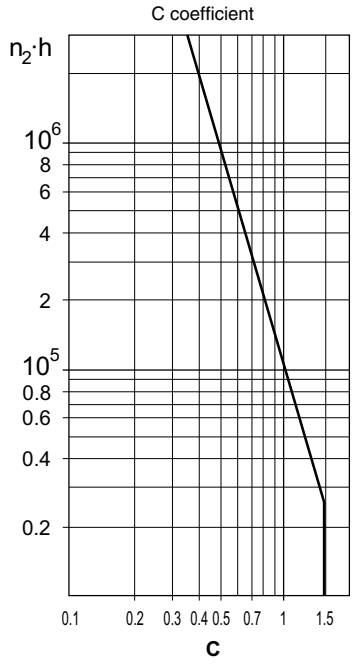
Barra scanalata
Splined bar
Zugspindel
Barre cannelée
Barra acanalada
Barra ranhurada



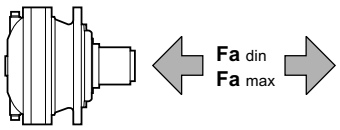
Code: 39127130100
Mat. Acciaio legato ad elevata resistenza meccanica
Alloyed steel with high mechanical resistance
Legierungsstahl mit hoher mechanischer Festigkeit
Alliage d'acier à haute résistance mécanique
Aleación de acero de elevada resistencia mecánica
Aço ligado de elevada resistência mecânica

Carichi radiali sugli alberi uscita / Radial loads on ouput shafts
Radiallasten auf de Abtriebswellen / Charges radiales sur les arbres de sortie
Cargas sobre los ejes de salida / Cargas radiais nos eixos de saida



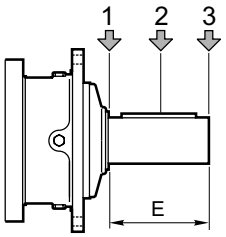


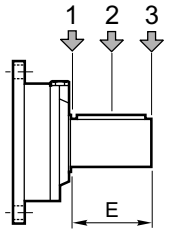
Carichi assiali / Axial loads / Axialkräfte / Charges axiales / Cargas axiales / Forças axiais



		Flange mounted		PD-PDA
		MN-MN1	MR-MR1	MR1
Fadin	[N]	48000	80000	35000
Famax	[N]	60000	90000	35000

Carichi radiali sugli alberi entrata / Radial loads on input shafts
Radiallasten auf de Antriebswellen / Charges radiales sur les arbres d' entrée
Cargas sobre los ejes de entrada / Cargas radiais nos eixos de entrada





Type	E	**Fr** [N]					
		$n_1 . h = 10^7$			$n_1 . h = 10^8$		
		1	**2**	**3**	**1**	**2**	**3**
S45 CR1	105	10000	6000	4000	5000	3000	2000
S46 C1	105	14000	8800	6400	7000	4400	3200
S65 CR1	130	23800	15500	9600	11900	7800	4800

Type	E	**Fr** [N]					
		$n_1 . h = 10^7$			$n_1 . h = 10^8$		
		1	**2**	**3**	**1**	**2**	**3**
SU2	58	3000	2000	1500	1400	1000	700