

- SERIE MRDV -

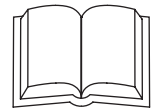
Riduttori a Vite Senza Fine -

MRDV Series Worm-Gear Speed Reducers



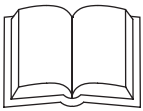
ELLE.GI SRL

Organi di Trasmissione



PARAMETRI Mesh parameter

	i	7.5	10	15	20	25	30	40	50	60	80	100
MRDV025	Z ₁	4	3	2	2	2	1	1	1	1		
	M _n	1.3	1.3	1.3	0.995	0.8	1.3	0.995	0.8	0.67		
	γ	25°18'	19°31'	13°18'	11°02'	9°05'	6°44'	5°34'	4°34'	3°55'		
	η _d (1400)	0.85	0.83	0.79	0.75	0.71	0.67	0.62	0.58	0.55		
	η _s	0.71	0.68	0.61	0.56	0.5	0.46	0.41	0.36	0.34		
MRDV030	Z ₁	4	3	2	2	1	1	1	1	1	1	
	M _n	1.44	1.44	1.44	1.1	1.7	1.44	1.1	0.89	0.74	0.56	
	γ	18°55'	14°25'	9°44'	7°50'	5°33'	4°54'	3°55'	3°17'	2°43'	2°07'	
	η _d (1400)	0.85	0.82	0.77	0.73	0.68	0.65	0.59	0.55	0.51	0.44	
	η _s	0.67	0.63	0.55	0.5	0.43	0.39	0.35	0.31	0.27	0.23	
MRDV040	Z ₁	4	3	2	2	2	1	1	1	1	1	1
	M _n	2.05	2.05	2.05	1.56	1.27	2.05	1.56	1.27	1.06	0.8	0.65
	γ	23°54'	18°23'	12°30'	10°03'	8°45'	6°19'	5°04'	4°24'	3°42'	2°52'	2°29'
	η _d (1400)	0.87	0.85	0.82	0.78	0.75	0.7	0.65	0.62	0.58	0.52	0.47
	η _s	0.71	0.67	0.6	0.55	0.51	0.45	0.4	0.36	0.32	0.28	0.24
MRDV050	Z ₁	4	3	2	2	2	1	1	1	1	1	1
	M _n	2.56	2.56	2.56	1.95	1.58	2.56	1.95	1.58	1.32	1	0.8
	γ	23°49'	18°19'	12°27'	10°03'	8°33'	6°18'	5°04'	4°18'	3°38'	2°52'	2°17'
	η _d (1400)	0.88	0.86	0.82	0.79	0.76	0.72	0.67	0.63	0.59	0.53	0.49
	η _s	0.7	0.66	0.59	0.55	0.51	0.44	0.39	0.35	0.32	0.27	0.23
MRDV063	Z ₁	4	3	2	2	2	1	1	1	1	1	1
	M _n	3.25	3.25	3.25	2.48	2	3.25	2.48	2	1.68	1.27	1.02
	γ	24°31'	18°53'	12°51'	10°29'	8°45'	6°30'	5°17'	4°24'	3°49'	2°59'	2°26'
	η _d (1400)	0.88	0.87	0.83	0.81	0.78	0.74	0.7	0.66	0.62	0.57	0.51
	η _s	0.71	0.67	0.6	0.55	0.51	0.45	0.4	0.36	0.33	0.28	0.24
MRDV075	Z ₁	4	3	2	2	2	1	1	1	1	1	1
	M _n	3.95	3.95	3.95	3	2.42	3.95	3	2.42	2.03	1.54	1.24
	γ	26°38'	20°37'	14°05'	11°19'	9°29'	7°09'	5°43'	4°46'	4°01'	3°17'	2°44'
	η _d (1400)	0.89	0.88	0.85	0.82	0.8	0.76	0.72	0.69	0.65	0.6	0.55
	η _s	0.71	0.68	0.61	0.57	0.53	0.46	0.42	0.38	0.35	0.29	0.26
MRDV090	Z ₁	4	3	2	2	2	1	1	1	1	1	1
	M _n	4.84	4.84	4.84	3.69	2.98	4.84	3.69	2.98	2.5	1.89	1.52
	γ	29°05'	22°39'	15°33'	12°50'	10°53'	7°55'	6°30'	5°29'	4°46'	3°45'	3°06'
	η _d (1400)	0.9	0.89	0.86	0.84	0.82	0.78	0.75	0.72	0.69	0.63	0.59
	η _s	0.73	0.7	0.64	0.6	0.56	0.49	0.45	0.41	0.38	0.32	0.28
MRDV110	Z ₁	4	3	2	2	2	1	1	1	1	1	1
	M _n	5,875	5,875	5,875	4.62	3.73	5,875	4.62	3.73	3.13	2.37	1.91
	γ	28°15'	21°57'	15°02'	14°42'	12°33'	7°39'	7°29'	6°21'	5°33'	4°27'	3°46'
	η _d (1400)	0.9	0.89	0.86	0.85	0.84	0.79	0.78	0.75	0.72	0.67	0.63
	η _s	0.72	0.69	0.63	0.62	0.59	0.48	0.48	0.44	0.41	0.36	0.32
MRDV130	Z ₁	4	3	2	2	2	1	1	1	1	1	1
	M _n	6.97	6.97	6.97	5.4	4.37	6.97	5.4	4.37	3.67	2.77	2.23
	γ	28°43'	22°20'	15°19'	13°47'	11°54'	7°48'	7°00'	6°01'	5°16'	4°07'	3°27'
	η _d (1400)	0.91	0.89	0.87	0.86	0.84	0.8	0.78	0.75	0.72	0.68	0.64
	η _s	0.72	0.69	0.63	0.61	0.58	0.49	0.46	0.43	0.39	0.34	0.3

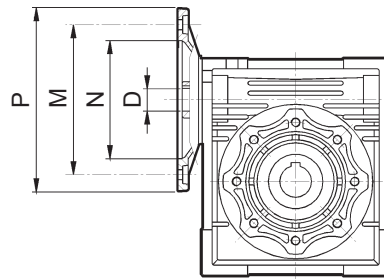


DATI TECNICI - TECHNICAL DATA

PREDISPOSIZIONI - Predisposition

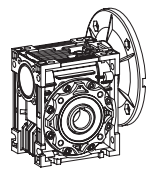
(*) Per un ingresso con motore speciale contattare il nostro ufficio tecnico


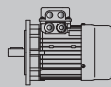

(*) If you want special key, please call our Technical Service



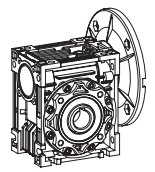
MRDV	PAM IEC	N	M	P	D											
					7.5	10	15	20	25	30	40	50	60	80	100	
025	56B14	50	65	80	9	9	9	9		9	9	9	9			
030	63B5	95	115	140	11	11	11	11	11	11	11	11				
	63B14	60	75	90												
	56B5	80	100	120	9	9	9	9	9	9	9	9	9	9		
	56B14	50	65	80												
040	71B5	110	130	160	14	14	14	14	14	14	14					
	71B14	70	85	105												
	63B5	95	115	140	11	11	11	11	11	11	11	11	11	11	11	11
	63B14	60	75	90												
	56B5	80	100	120								9	9	9	9	
050	80B5	130	165	200	19	19	19	19	19	19						
	80B14	80	100	120												
	71B5	110	130	160	14	14	14	14	14	14	14	14	14	14		
	71B14	70	85	105												
	63B5	95	115	140							11	11	11	11	11	
063	90B5	130	165	200	24	24	24	24	24	24						
	90B14	95	115	140												
	80B5	130	165	200	19	19	19	19	19	19	19	19	19			
	80B14	80	100	120												
	71B5	110	130	160												
	71B14	70	85	105							14	14	14	14	14	
075	100/112B5	180	215	250	28	28	28									
	100/112B14	110	130	160												
	90B5	130	165	200	24	24	24	24	24	24						
	90B14	95	115	140												
	80B5	130	165	200				19	19	19	19	19	19	19	19	19
	80B14	80	100	120												
	71B5	110	130	160								14	14	14	14	14
090	100/112B5	180	215	250	28	28	28	28	28	28						
	100/112B14	110	130	160												
	90B5	130	165	200	24	24	24	24	24	24	24	24	24			
	90B14	95	115	140												
	80B5	130	165	200							19	19	19	19	19	19
	80B14	80	100	120												
110	132B5	230	265	300	38*	38*	38*	38*								
	100/112B5	180	215	250	28	28	28	28	28	28	28	28	28			
	90B5	130	165	200					24	24	24	24	24	24	24	24
	80B5	130	165	200											19	19
130	132B5	230	265	300	38*	38*	38*	38*	38*	38*	38*					
	100/112B5	180	215	250					28	28	28	28	28	28	28	28
	90B5	130	165	200											24	24


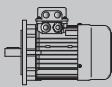

PRESTAZIONI - PERFORMANCE PARAMETER



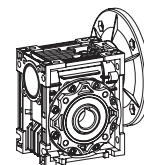
P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	i	Fr_2 [N]	f_s			
0.75	12.4	393	73	9614	3.2	PC090+MRDV110	90S6	71
	9.3	508	96.8	10320	2.3			
	7.4	607	121	10320	1.8			
	6.2	682	145.2	10320	1.5			
	4.6	832	193.6	10320	1			
	9.3	446	300	10320	2.8	MRDV050+110	8012	74
	7	563	400	10320	2.1			
	5.6	687	500	10320	1.6			
	4.7	871	300	10320	1.5	MRDV050+110	8024	74
	3.5	1126	400	10320	1.1			
	11.3	407	80	12989	2.1	MRDV130	90S6	67
	9	470	100	13500	1.7			
	5.8	712	240	13500	1.4	PC080+MRDV130	8024	71
	4.7	813	300	13500	1.1			
	12.4	399	73	12575	4.4	PC090+MRDV130	90S6	71
9.3	508	96.8	13500	3.2				
7.4	607	121	13500	2.6				
6.2	682	145.2	13500	2.1				
4.6	832	193.6	13500	1.5				
3.7	944	242	13500	1.2				
2.8	1358	500	13500	1.1	MRDV063+130	8024	75	
2.3	1631	600	13500	1				
1.9	2005	750	13500	0.9				
1.6	2283	900	13500	0.8				
1.1	373.3	25	7.5	1433	2.1	MRDV050	8022	62
	280	33	10	1577	1.6			
	186.7	48	15	1805	1.2			
	140	62	20	1987	0.9			
	186.7	48	15	2359	2.1	MRDV063	8022	63
	140	63	20	2597	1.6			
	112	77	25	2797	1.2			
	93.3	88	30	2973	1.4			
	70	113	40	3272	1			
	120	76	7.5	2734	2	MRDV063	90L6	63
	90	99	10	3009	1.5			
	60	142	15	3444	1.1			
	45	180	20	3791	0.8			


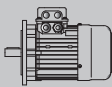

PRESTAZIONI - PERFORMANCE PARAMETER



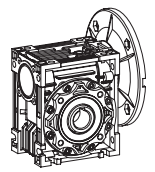
P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	i	Fr_2 [N]	f_s			
1.1	12.4	576	73	9614	2.2	PC090+MRDV110	90L6	70
	9.3	746	96.8	10320	1.6			
	7.4	890	121	10320	1.2			
	6.2	1000	145.2	10320	1			
	19.3	392	73	8298	2.5	PC090+MRDV110	90S4	70
	14.5	508	96.8	9133	1.8			
	11.6	599	121	9838	1.5			
	9.6	686	145.2	10320	1.1			
	7.2	828	193.6	10320	0.8			
	9.3	654	300	10320	1.9	MRDV050+110	8022	73
	7	845	400	10320	1.4			
	5.6	1007	500	10320	1.1			
	11.3	598	80	12989	1.4	MRDV130	90L6	66
	9	689	100	13500	1.1			
	17.5	408	80	11210	2.1	MRDV130	90S4	66
	14	480	100	12076	1.5			
	12.4	585	73	12575	3	PC090+MRDV130	90L6	70
	9.3	746	96.8	13500	2.2			
	7.4	890	121	13500	1.7			
	6.2	1000	145.2	13500	1.4			
4.6	1220	193.6	13500	1				
19.3	398	73	10853	3.5	PC090+MRDV130	90S4	70	
14.5	508	96.8	11945	2.6				
11.6	608	121	12868	2				
9.6	686	145.2	13500	1.6				
7.2	843	193.6	13500	1.2				
5.8	962	242	13500	0.9				
4.7	1312	300	13500	1.3	MRDV063+130	90S4	74	
3.5	1671	400	13500	1				
2.8	1991	500	13500	0.8				
1.5	373.3	35	7.5	1433	1.5	MRDV050	80C2	61
	280	45	10	1577	1.2			
	186.7	65	15	1805	0.9			
	186.7	68	7.5	2359	1.9	MRDV063	90L4	62
	140	89	10	2597	1.5			
	93.3	127	15	2973	1.1	MRDV063	90L4	62
	70	166	20	3272	0.8			


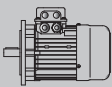

PRESTAZIONI - PERFORMANCE PARAMETER

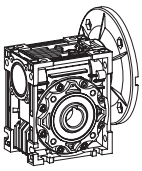


P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	i	Fr_2 [N]	f_s			
1.5	35	319	40	6803	2.2	MRDV110	90L4	65
	28	384	50	7328	1.7			
	23.3	442	60	7787	1.4			
	17.5	548	80	8571	0.9			
	46.7	236	60	6181	2	MRDV110	90S2	65
	35	299	80	6803	1.3			
	28	353	100	7328	1			
	19.3	535	73	8298	1.9	PC090+MRDV110	90L4	70
	14.5	693	96.8	9133	1.3			
	11.6	817	121	9838	1.1			
	9.6	936	145.2	10320	0.8			
	9.3	891	300	10320	1.4	MRDV050+110	90S2	73
	7	1153	400	10320	1			
	5.6	1373	500	10320	0.8			
	22.5	478	40	10309	2.3	MRDV130	100L6	66
	18	573	50	11105	1.8			
15	659	60	11801	1.4	MRDV130	100L6	66	
11.3	815	80	12989	1.1				
17.5	557	80	11210	1.5	MRDV130	90L4	66	
14	655	100	12076	1.1				
19.3	542	73	10853	2.6	PC090+MRDV130	90L4	70	
14.5	693	96.8	11945	1.9				
11.6	830	121	12868	1.5				
9.6	936	145.2	13500	1.1				
7.2	1149	194	13500	0.8				
9.3	915	300	13500	1.9	MRDV063+130	90S2	74	
7	1166	400	13500	1.4				
5.6	1389	500	13500	1.1				
4.7	1789	300	13500	1	MRDV063+130	90L4	74	
3.5	2279	400	13500	0.7				
2.2	373.3	51	7.5	1873	1.8	MRDV063	90L2	62
	280	67	10	2061	1.5			
	186.7	97	15	2359	1.1			
	186.7	100	7.5	2785	1.8	MRDV075	100LA4	63
	140	132	10	3065	1.5			
	93.3	191	15	3509	1			


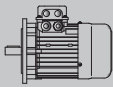

PRESTAZIONI - PERFORMANCE PARAMETER



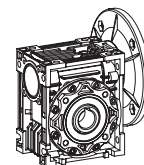
P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	i	Fr_2 [N]	fs						
2.2	35	468	40	8897	2.2	MRDV130	100LA4	66			
	28	563	50	9584	1.7						
	23.3	648	60	10185	1.4						
	17.5	816	80	11210	1						
	36	479	25	8814	2.2	MRDV130	112M6	66			
	30	546	30	9366	2.1						
	22.5	700	40	10309	1.6						
	18	840	50	11105	1.2	MRDV130	112M6	66			
	15	966	60	11801	1						
	35	438	80	8897	1.3	MRDV130	90L2	66			
	28	525	100	9584	1						
	38.6	409	73	8614	2.9	PC090+MRDV130	90L2	70			
28.9	545	96.8	9481	2							
23.1	654	121	10213	1.6							
19.3	752	145.2	10853	1.3							
3	373.3	70	7.5	2210	1.9	MRDV075	100L2	63			
	280	92	10	2433	1.6						
	186.7	137	7.5	2785	1.4	MRDV075	100LB4	63			
	140	180	10	3065	1.1						
	93.3	261	15	3509	0.8						
	373.3	71	7.5	2446	3	MRDV090	100L2	64			
	280	92	10	2692	2.6						
	186.7	138	7.5	3081	2.1	MRDV090	100LB4	64			
	140	182	10	3391	1.7						
	93.3	264	15	3882	1.4						
	70	344	20	4273	1						
	56	420	25	4603	0.8						
	46.7	479	30	4891	0.9						
	93.3	264	15	4905	2.5				MRDV110	100LB4	64
	70	348	20	5399	1.9						
	56	430	25	5816	1.6						
	46.7	485	30	6181	1.5						
	35	638	40	6803	1.1						
	28	767	50	7328	0.9						
	120	212	7.5	4511	3.1	MRDV110	132S6	64			
	90	280	10	4965	2.5						
	60	406	15	5684	1.9						
	45	528	20	6256	1.4						


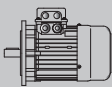



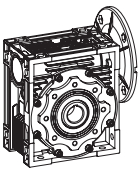
PRESTAZIONI - PERFORMANCE PARAMETER

P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	i	Fr_2 [N]	fs			
3	56	430	25	7607	2.2	MRDV130	100LB4	66
	46.7	491	30	8084	2.1			
	35	638	40	8897	1.6			
	28	767	50	9584	1.3			
	23.3	884	60	10185	1			
	17.5	1113	80	11210	0.8			
4	90	280	10	6494	3.4	MRDV130	132S6	66
	60	406	15	7434	2.6	MRDV130	132S6	66
	45	535	20	8182	1.9			
	36	653	25	8814	1.6			
	30	745	30	9366	1.6	MRDV130	132S6	66
		22.5	955	40	10309			
	373.3	93	7.5	2210	1.4	MRDV075	112M2	63
		280	123	10	2433			
	186.7	182	7.5	2785	1	MRDV075	112M4	63
		140	240	10	3065			
	373.3	94	7.5	2446	2.2	MRDV090	112M2	64
		280	123	10	2692			
	186.7	184	7.5	3081	1.6	MRDV090	112M4	64
		140	243	10	3391			
	93.3	352	15	3882	1	MRDV090	112M4	64
		70	458	20	4273			
	140	243	10	4285	2.5	MRDV110	112M4	65
		93.3	352	15	4905			
70	464	20	5399	1.4	MRDV110	112M4	65	
	56	573	25	5816				1.2
46.7	647	30	6181	1.1	MRDV110	112M4	65	
	120	283	7.5	4511				2.3
90	374	10	4965	1.9	MRDV110	132MA6	65	
	60	541	15	5684				1.4
56	573	25	7607	1.6	MRDV130	112M4	66	
	46.7	655	30	8084				1.6
35	851	40	8897	1.2	MRDV130	112M4	66	
	28	1023	50	9584				1
23.3	1179	60	10185	0.8	MRDV130	112M4	66	
	120	287	7.5	5901				3.1
90	374	10	6494	2.6	MRDV130	132MA6	66	
	60	541	15	7434				2
45	713	20	8182	1.5	MRDV130	132MA6	66	
	36	870	25	8814				1.2

PRESTAZIONI - PERFORMANCE PARAMETER

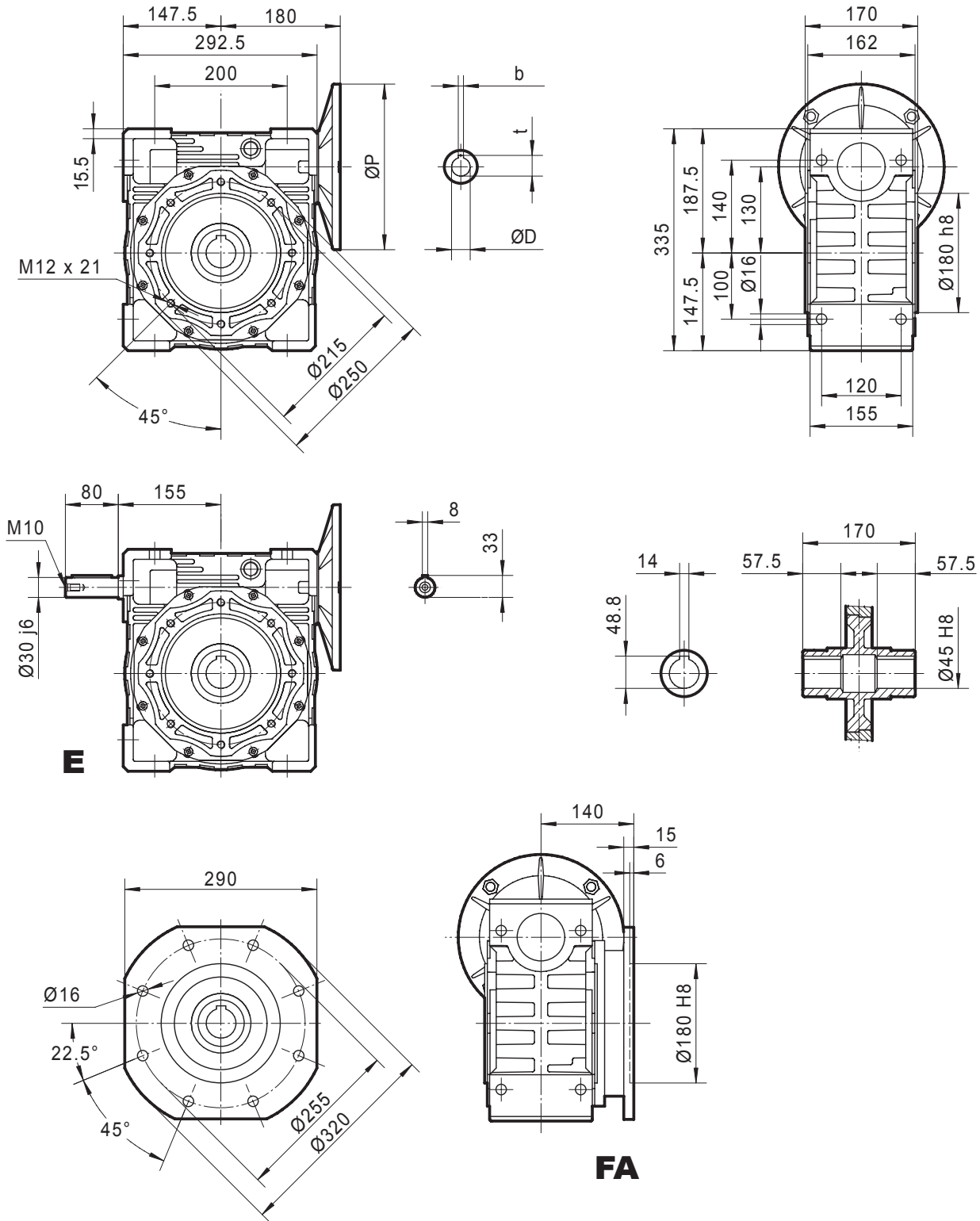


P_1 [kW]	n_2 [min ⁻¹]	M_2 [Nm]	i	Fr_2 [N]	fs				
5.5	186.7	253	7.5	3893	2.2	MRDV110	132S4	65	
	140	334	10	4285	1.8				
	93.3	484	15	4905	1.4				
	70	638	20	5399	1				
	140	334	10	5605	2.5	MRDV130	132S4	66	
	93.3	490	15	6416	1.9				
	70	645	20	7062	1.4				
	56	788	25	7607	1.2	MRDV130	132S4	66	
	46.7	900	30	8084	1.2				
	35	1171	40	8897	0.9				
	7.5	186.7	345	7.5	3893	1.6	MRDV110	132M4	65
		140	455	10	4285	1.3			
93.3		660	15	4905	1				
186.7		349	7.5	5092	2.1	MRDV130	132M4	66	
140		455	10	5605	1.8				
93.3		668	15	6416	1.4				
70		880	20	7062	1				
56		1074	25	7607	0.9				
46.7		1228	30	8084	0.8				
35		1596	40	8897	0.7				



DIMENSIONI MRDV - MRDV SERIES DIMENSIONS

MRDV 130



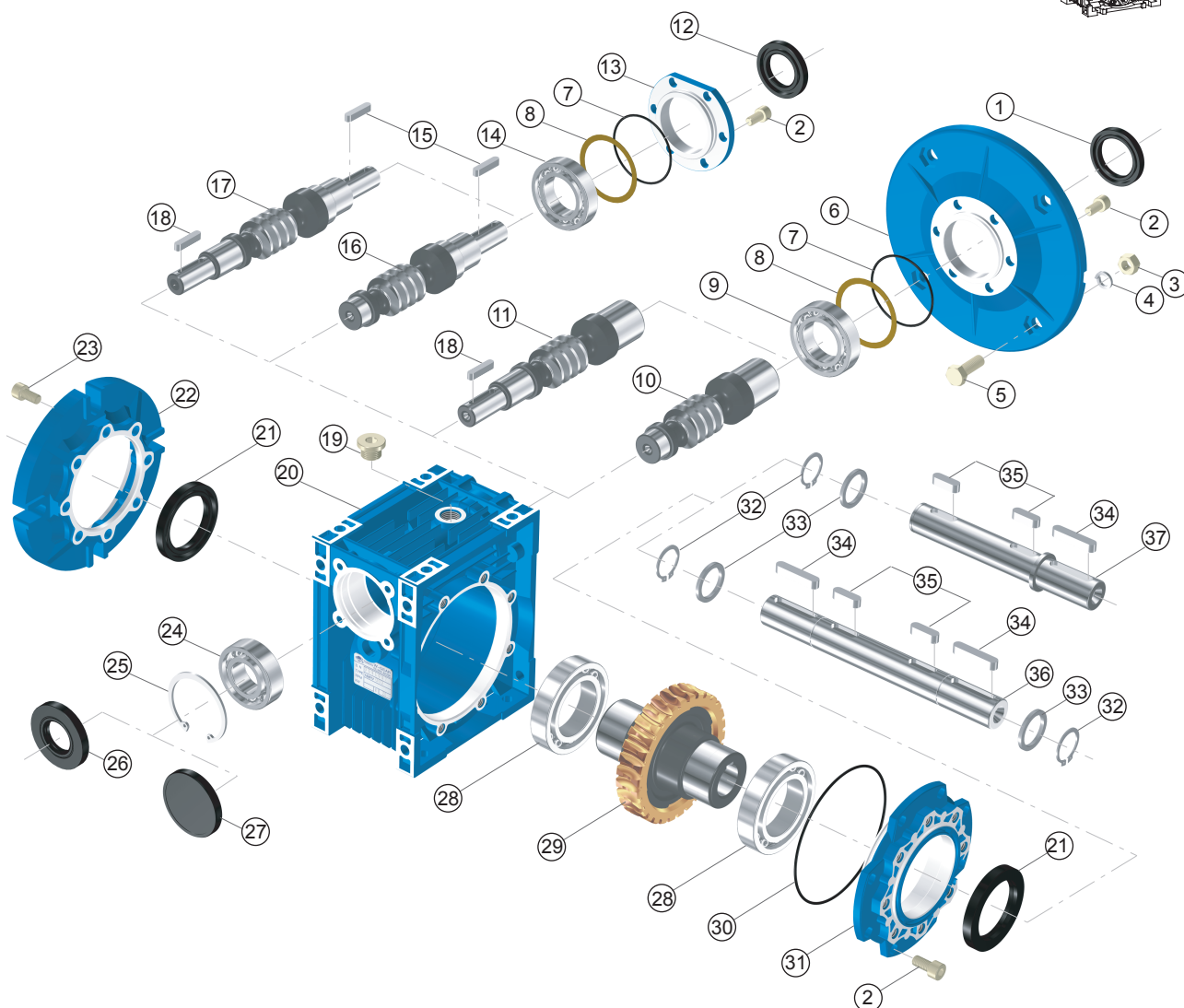
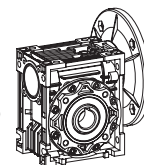
Peso senza motore ≈ 48 kg

Weight without motor ≈ 48 kg

Per i dati dei motori (P, D, b, t), riferirsi alla tab. a pag. 78

For the dimensions concerning the motor connection area (P, D, b, t) please refer to the table shown at page 78.

Esplso e parti di ricambio - EXPLODED VIEW & NAME OF PARTS



- 1. Anello di tenuta** - oil seal
- 2. Vite** - inner hex screw
- 3. Dado** - nut
- 4. Rondella** - spring washer
- 5. Bullone** - hex screw
- 6. Flangia in ingresso** - input flange
- 7. O-Ring** - O-Ring
- 8. Distanziale** - adjust spacer
- 9. Cuscinetto** - bearing
- 10. Vite forata in ingresso** - hole input worm
- 11. Vite cilindrica in ingresso e albero maschio** - hole input and shaft & output worm
- 12. Anello di tenuta** - oil seal
- 13. Coperchio in ingresso** - input cover
- 14. Cuscinetto** - Bearing
- 15. Chiavetta** - key
- 16. Albero in ingresso** - shaft input worm
- 17. Albero in ingresso e vite in uscita** - shaft input and shaft output worm
- 18. Chiavetta** - key

- 19. Tappo per olio** - oil plug
- 20. Carcassa** - casing
- 21. Anello di tenuta** - oil seal
- 22. Flangia in uscita** - output flange
- 23. Bullone** - inner hex screw
- 24. Cuscinetto** - bearing
- 25. Seeger** - hole-circlip
- 26. Anello di tenuta** - oil seal
- 27. Coperchio** - cover
- 28. Cuscinetto** - bearing
- 29. Vite** - worm wheel
- 30. O-Ring** - O-Ring
- 31. Coperchio in uscita** - output cover
- 32. Seeger albero** - shaft-circlip
- 33. Distanziale** - spacer
- 34. Chiavetta** - key
- 35. Chiavetta** - key
- 36. Albero bisporgente in uscita** - double output shaft
- 37. Albero sporgente in uscita** - single output shaft