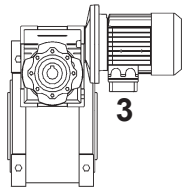
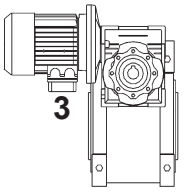
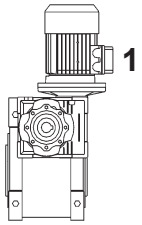
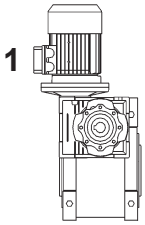
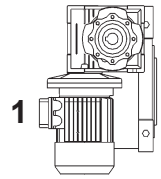
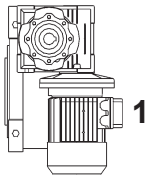
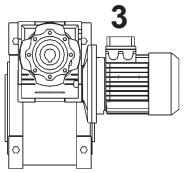
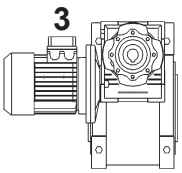
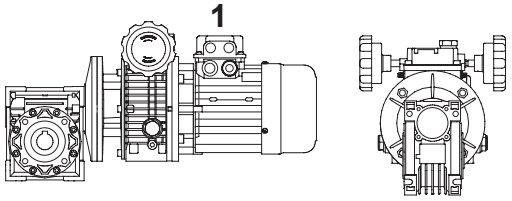
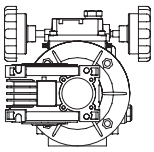
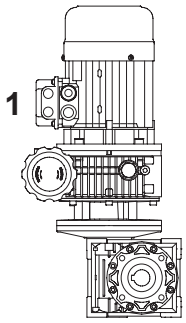
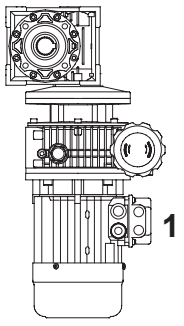
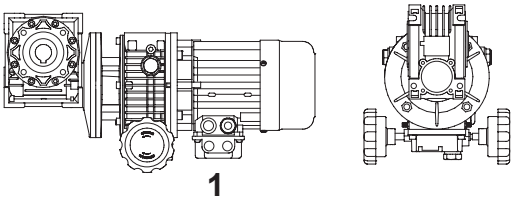
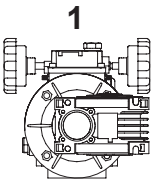
- SERIE MRDV -
Riduttori a Vite Senza Fine -
MRDV Series Worm-Gear Speed Reducers

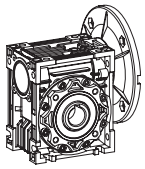
ELLE.GI SRL
Organi di Trasmissione

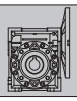
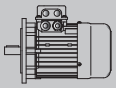
MRDV-MRDV / RDV-MRDV			
AS1	**AS2**	**VS1**	**VS2**
			
PS1	**PS2**	**BS1**	**BS2**
			

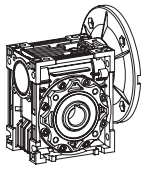
Nel caso non venga specificata la posizione di montaggio, viene considerata standard quella in BS2.

The position of the 1st reducer with respect to the 2nd gear reducer depends on the versions. Unless specified at the time of order, combination groups will be supplied in version BS2.The specified mounting position refers to the 2nd gear reducer, see page 17 for the possible mounting positions.

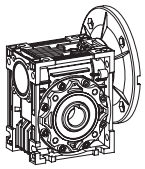
UDL-MRDV			
MRDV...U-B3	**B6**	**V5**	**V6**
			
B8	**B7**		
			



P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.06	0.58	261	2400	3490	0.2	**MRDV030+040**	**5614**	72
	0.4	300	3200	3490	0.2			
	0.4	279	4000	3490	0.1			
	0.28	338	5000	3490	0.1			
	1.6	141	900	4840	1	**MRDV030+050**	**5614**	72
	1.2	169	1200	4840	0.7			
	0.93	199	1500	4840	0.7			
	0.78	222	1800	4840	0.7			
	0.6	266	2400	4840	0.5			
	0.5	307	3000	4840	0.4			
	0.35	288	4000	4840	0.3			
	0.29	311	4800	4840	0.3			
	0.9	204	1500	6270	1.1	**MRDV030+063**	**5614**	72
	0.78	225	1800	6270	0.9			
	0.58	276	2400	6270	0.8			
	0.47	319	3000	6270	0.7			
	0.35	306	4000	6270	0.6			
	0.28	360	5000	6270	0.4			
	0.6	330	2400	7380	1.1	**MRDV040+075**	**5614**	73
	0.47	377	3000	7380	0.8			
	0.35	355	4000	7380	0.7			
	0.28	419	5000	7380	0.5			
	0.5	406	3000	8180	1.4	**MRDV040+090**	**5614**	73
	0.35	365	4000	8180	1.3			
	0.28	431	5000	8180	1			
0.09	373.3	2	7.5	399	3.9	**MRDV025**	**5612**	58
	280	2.6	10	439	3.4			
	186.7	3.8	15	503	2.4			
	140	4.9	20	553	1.9			
	93.3	6.7	30	633	1.3			
	70	8.3	40	697	1.1			
	56	10	50	751	0.9			
	186.7	3.9	7.5	503	2.8	**MRDV025**	**5624**	58
	140	5.1	10	553	2.4			
	93.3	7.3	15	633	1.6			
	70	9.2	20	697	1.3			
	46.7	12	30	798	1.1			
	35	15	40	878	0.9			
	373.3	2	7.5	542	6.5	**MRDV030**	**5612**	59
	280	2.6	10	597	5			
	186.7	3.7	15	683	3.5			
	140	4.8	20	752	2.5			

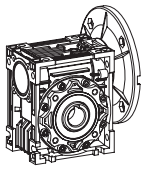


P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.09	3.5	107	400	4840	1.2	**MRDV030+050**	**5624**	72
	2.8	123	500	4840	1			
	2.3	159	600	4840	0.9			
	1.9	185	750	4840	0.8			
	1.6	212	900	4840	0.7			
	1.6	200	900	6270	1	**MRDV030+063**	**5624**	72
	1.2	263	1200	6270	0.9			
	0.93	305	1500	6270	0.7			
	0.9	360	1500	7380	1.1	**MRDV040+075**	**5624**	73
	0.78	404	1800	7380	1			
	0.58	496	2400	7380	0.7			
	0.5	609	3000	8180	0.9	**MRDV040+090**	**5624**	73
	0.35	548	4000	8180	0.8			
0.12	373.3	2.7	7.5	399	3	**MRDV025**	**5622**	58
	280	3.5	10	439	2.6			
	186.7	5	15	503	1.8			
	140	6.5	20	553	1.4			
	93.3	9	30	633	1			
	70	11	40	697	0.8			
	186.7	5.2	7.5	683	3.4	**MRDV030**	**6314**	59
	140	6.7	10	752	2.7			
	93.3	9.5	15	861	1.9			
	70	12	20	948	1.5			
	56	14	25	1021	1.5			
	46.7	16	30	1085	1.3			
	35	19	40	1194	0.9			
	28	23	50	1286	0.8			
	46.7	17	30	2087	2.6	**MRDV040**	**6314**	60
	35	21	40	2298	1.9			
	28	25	50	2475	1.5			
	23.3	28	60	2630	1.3			
	17.5	34	80	2895	1			
	14	38	100	3118	0.8			
	18.7	42	75	2833	1.2	**PC063+MRDV040**	**6314**	67
	15.6	46	90	3011	1.2			
	11.7	57	120	3314	0.9			
	9.3	66	150	3490	0.7			
	7.8	74	180	3490	0.6			
	23.3	29	60	3610	2.3	**MRDV050**	**6314**	61
	17.5	35	80	3973	1.9			
	14	40	100	4280	1.4			



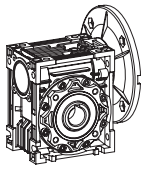
PRESTAZIONI - PERFORMANCE PARAMETER

P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.12	9.3	68	150	4840	1.3	**PC063+MRDV050**	**6314**	67
	7.8	75	180	4840	1.1			
	5.8	88	240	4840	0.8			
	4.7	98	300	4840	0.7			
	4.7	119	300	4840	1.2	**MRDV030+050**	**6314**	72
	3.5	142	400	4840	0.9			
	2.8	164	500	4840	0.7			
	5.8	92	240	6270	1.5	**PC063+MRDV063**	**6314**	68
	4.7	103	300	6270	1.2			
	2.8	171	500	6270	1.3	**MRDV030+063**	**6314**	72
	2.3	208	600	6270	1.1			
	1.9	241	750	6270	0.9			
	1.6	325	900	7380	1.2	**MRDV040+075**	**6314**	73
	1.2	399	1200	7380	0.9			
	0.8	547	1800	8180	0.9	**MRDV040+090**	**6314**	73
	0.58	695	2400	8180	0.9			
	0.5	884	3000	10320	1.2	**MRDV050+110**	**6314**	73
	0.35	784	4000	10320	1			
	0.28	928	5000	10320	0.8			
0.18	373.3	4	7.5	542	3.2	**MRDV030**	**6312**	59
	280	5.2	10	597	2.5			
	186.7	7.5	15	683	1.7			
	140	10	20	752	1.3			
	112	11	25	810	1.4			
	93.3	13	30	861	1.1			
	70	16	40	948	0.9			
	186.7	7.8	7.5	683	2.3	**MRDV030**	**6324**	59
	140	10	10	752	1.8			
	93.3	14	15	861	1.3			
	70	18	20	948	1			
	56	21	25	1021	1	**MRDV030**	**6324**	59
	46.7	24	30	1085	0.8			
	93.3	14	30	1657	2.4	**MRDV040**	**6312**	60
	70	18	40	1824	1.8			
	56	21	50	1964	1.4			
	70	19	20	1824	2	**MRDV040**	**6324**	60
	56	23	25	1964	1.7			
	46.7	26	30	2087	1.7			

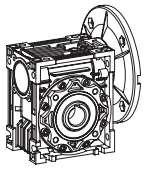


PRESTAZIONI - PERFORMANCE PARAMETER

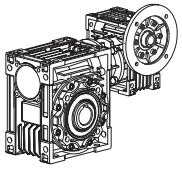
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.18	12	97	75	5889	2.2	**PC071+MRDV063**	**7116**	68
	10	107	90	6259	2.4			
	7.5	131	120	6270	1.8			
	6	152	150	6270	1.4			
	5	168	180	6270	1.2			
	3.8	197	240	6270	0.9			
	3	218	300	6270	0.7			
	3.5	222	400	6270	1	**MRDV030+063**	**6324**	72
	2.8	257	500	6270	0.8			
	5	179	180	7380	1.7	**PC071+MRDV075**	**7116**	69
	3.8	211	240	7380	1.2			
	3	235	300	7380	1			
	2.3	362	600	7380	1.1	**MRDV040+075**	**6324**	73
	1.9	435	750	7380	0.9			
	1.6	487	900	7380	0.8			
	1.2	629	1200	8180	1	**MRDV040+090**	**6324**	73
	0.93	735	1500	8180	0.8			
	0.8	861	1800	10320	1.5	**MRDV050+110**	**6324**	73
	0.58	1113	2400	10320	1.1			
0.25	373.3	5.6	7.5	542	2.3	**MRDV030**	**6322**	59
	280	7.2	10	597	1.8			
	186.7	10	15	683	1.3			
	140	13	20	752	0.9			
	112	16	25	810	1			
	93.3	18	30	861	0.8			
	186.7	11	7.5	1315	3.6	**MRDV040**	**7114**	60
	140	14	10	1447	2.8			
	93.3	21	15	1657	1.9			
	70	27	20	1824	1.5			
	56	32	25	1964	1.2			
	46.7	36	30	2087	1.3			
	35	44	40	2298	0.9			
	120	17	7.5	1524	2.6	**MRDV040**	**7126**	60
	90	22	10	1677	2			
	60	31	15	1920	1.4			
	45	40	20	2113	1.1			
	36	48	25	2276	0.9			
	30	53	30	2419	0.9			
	35	42	80	3153	1.1	**MRDV050**	**6322**	61
	28	48	100	3397	0.8			



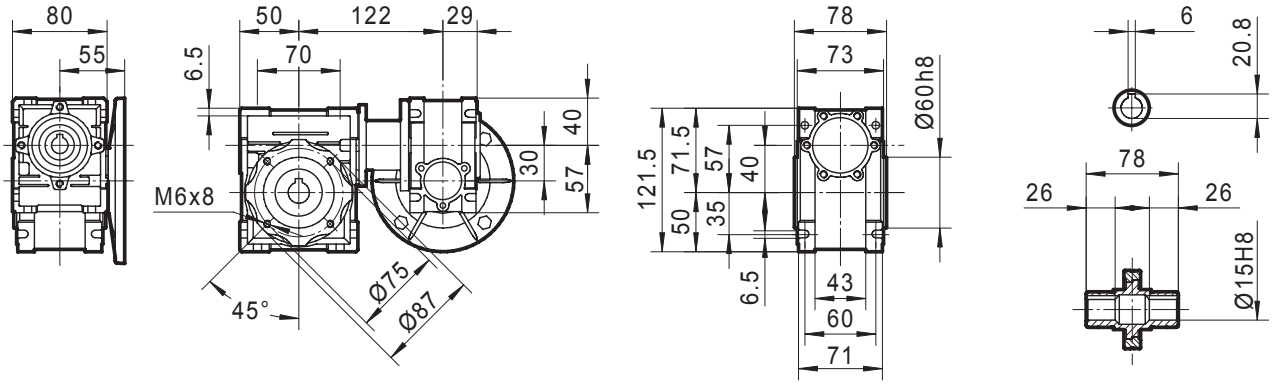
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.25	70	27	20	2503	2.7	**MRDV050**	**7114**	61
	56	32	25	2696	2.2			
	46.7	37	30	2865	2.3			
	35	46	40	3153	1.7			
	28	54	50	3397	1.4			
	23.3	60	60	3610	1.1			
	17.5	72	80	3973	0.9			
	45	40	20	2900	1.9	**MRDV050**	**7126**	61
	36	48	25	3124	1.5			
	30	54	30	3320	1.7			
	22.5	67	40	3654	1.2			
	18	78	50	3936	1			
	15	88	60	4183	0.8			
	18.7	88	75	3889	1	**PC071+MRDV050**	**7114**	68
	15.6	98	90	4132	1.1			
	11.7	121	120	4548	0.8			
	28	56	50	4440	2.4	**MRDV063**	**7114**	62
	23.3	63	60	4719	2			
	17.5	78	80	5193	1.6			
	14	87	100	5595	1.4			
	18	81	50	5145	1.8	**MRDV063**	**7126**	62
	15	92	60	5467	1.5			
	11.3	110	80	6018	1.2			
	9	125	100	6270	1			
	18.7	91	75	5083	1.8	**PC071+MRDV063**	**7114**	68
	15.6	100	90	5401	2			
	11.7	125	120	5945	1.5			
	9.3	143	150	6270	1.2			
	7.8	163	180	6270	1			
	5.8	192	240	6270	0.7			
	4.7	215	300	6270	0.6			
	12	135	75	5889	1.6	**PC071+MRDV063**	**7126**	68
	10	148	90	6259	1.8			
	7.5	181	120	6270	1.3			
	6	211	150	6270	1			
	7	159	400	6270	1.4	**MRDV030+063**	**6322**	72
	5.6	185	500	6270	1.2			
	17.5	82	80	6130	2.3	**MRDV075**	**7114**	63
	14	94	100	6603	1.9			



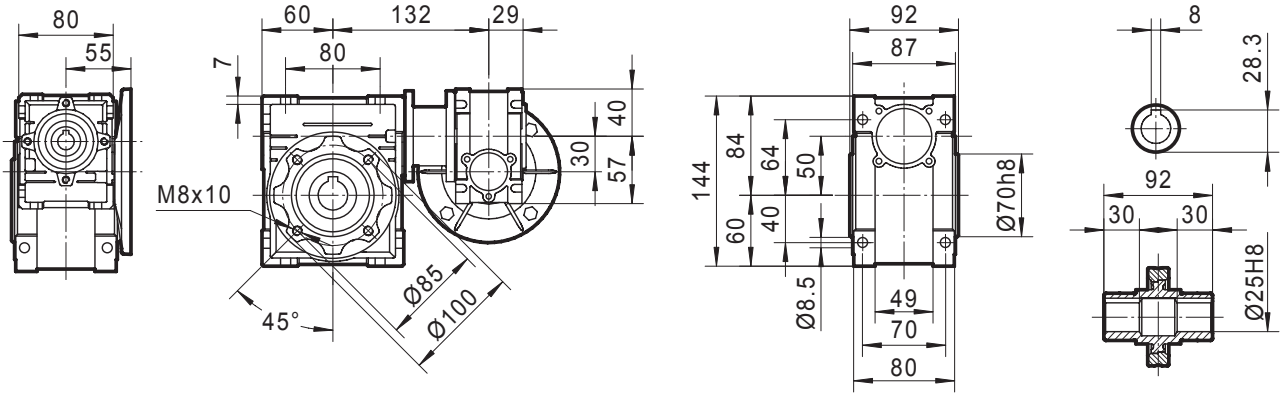
P_1 [kW]	n_2 [min^{-1}]	M_2 [Nm]	i	Fr_2 [N]	fs			
0.37	112	25	25	2140	2	**MRDV050**	**7112**	61
	93.3	29	30	2274	2.2			
	70	37	40	2503	1.6			
	56	44	50	2696	1.2			
	46.7	50	60	2865	1	**MRDV050**	**7112**	61
	35	62	80	3153	0.7			
	140	22	10	1987	3.3	**MRDV050**	**7124**	61
	93.3	31	15	2274	2.4			
	70	40	20	2503	1.8			
	56	48	25	2696	1.5			
	46.7	55	30	2865	1.5			
	35	68	40	3153	1.1			
	28	80	50	3397	0.9	**MRDV050**	**7124**	61
	23.3	89	60	3610	0.8			
	120	25	7.5	2091	3.3	**MRDV050**	**8016**	61
	90	33	10	2302	2.5			
	60	47	15	2635	1.8			
	45	60	20	2900	1.3			
	36	72	25	3124	1			
	30	80	30	3320	1.1			
	35	71	40	4122	2.1	**MRDV063**	**7124**	62
	28	83	50	4440	1.6			
	23.3	94	60	4719	1.4			
	17.5	115	80	5193	1.1			
	14	129	100	5595	0.9			
	45	60	20	3791	2.4	**MRDV063**	**8016**	62
	36	74	25	4084	1.9			
	30	82	30	4339	2.1			
	22.5	102	40	4776	1.6			
	18	120	50	5145	1.2			
	15	137	60	5467	1			
	18.7	134	75	5083	1.2	**PC071+MRDV063**	**7124**	68
	15.6	148	90	5401	1.4			
	11.7	185	120	5945	1			
	9.3	212	150	6270	0.8			
	9.3	181	300	6270	1.3	**MRDV030+063**	**7112**	72
	7	236	400	6270	1			
	23.3	98	60	5569	2	**MRDV075**	**7124**	63
	17.5	121	80	6130	1.6			
	14	139	100	6603	1.3			



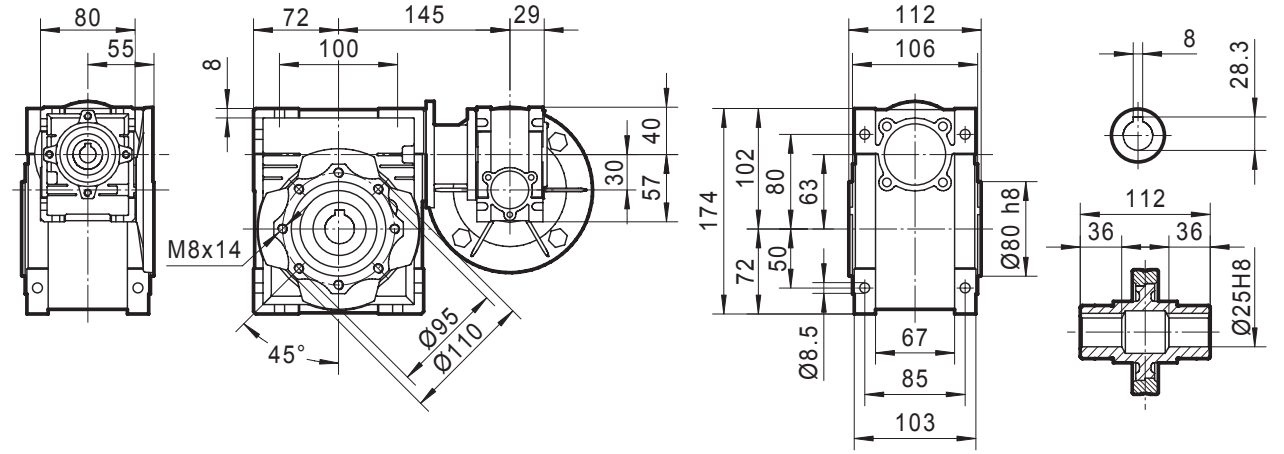
MRDV **030 + 040**



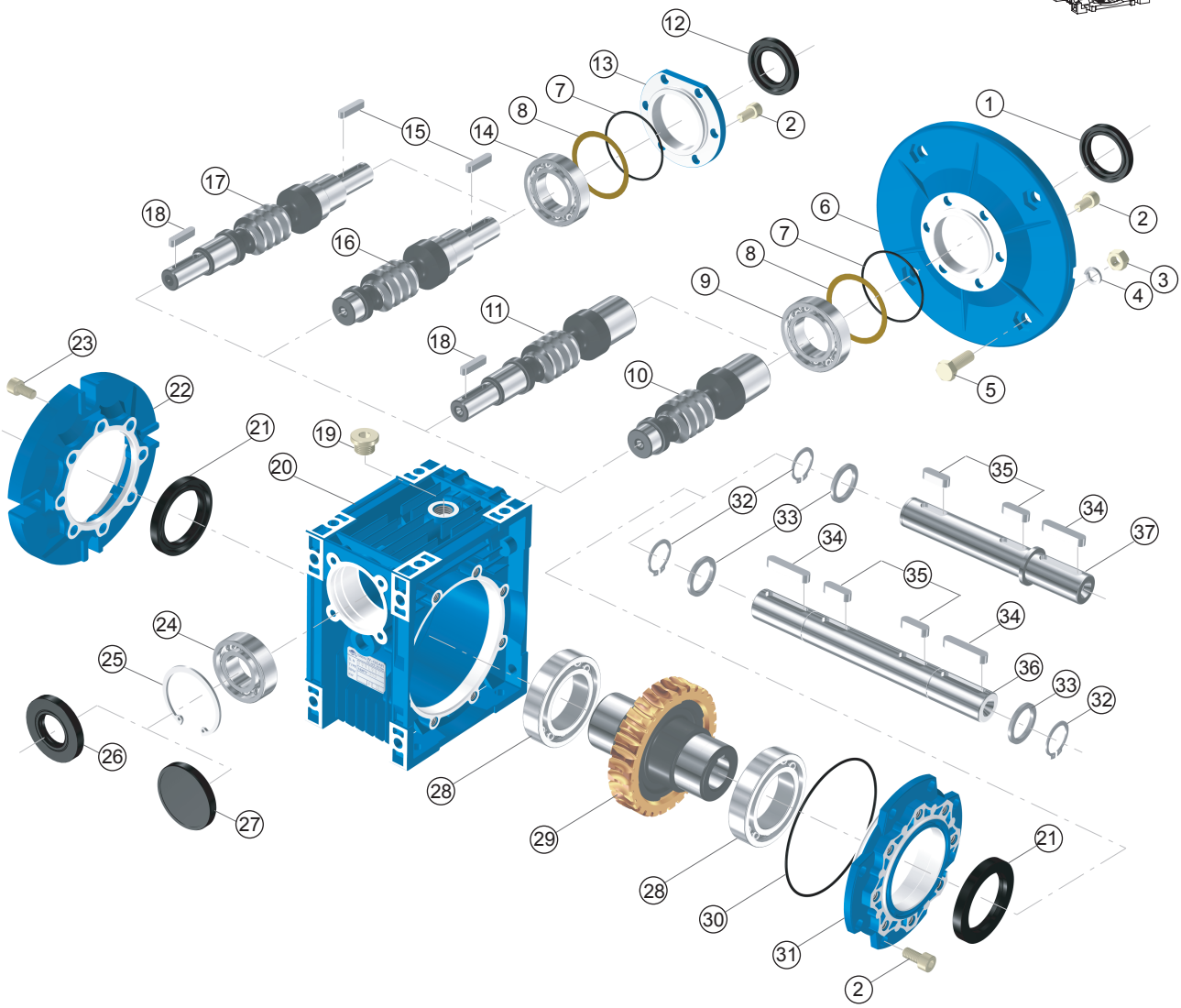
MRDV **030 + 050**



MRDV **030 + 063**



Esploso 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 -** ouble output shaft
37. **Albero sporgente in uscita -** single output shaft