- SERIE MRDB -

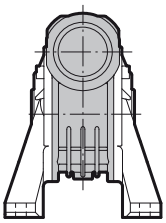
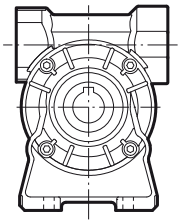
Riduttori Vite senza Fine

Worm Gearboxes

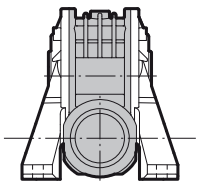
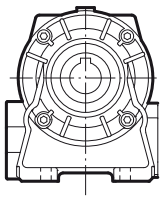
ELLE.GI SRL

Organi di Trasmissione

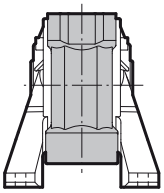
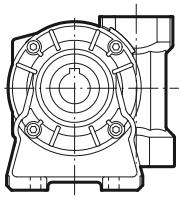
12.1.2 *Illustrazione modelli* / **Model illuminate**

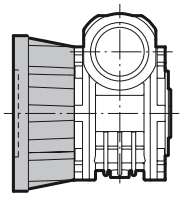
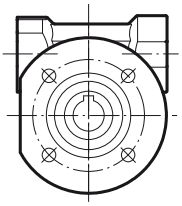
MRDB.. A..
Piedi Montati
Foot mounted

MRDB.. N..
Piedi Montati
Foot mounted

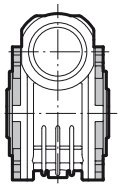
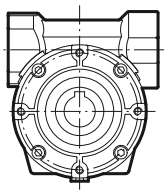



MRDB..V..
Piedi Montati
Foot mounted

MRDB.. F..
Flangia in uscita standard
Standard output flange

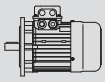
MRDB.. F A..
Flangia in uscita più lunga
Extended output flange

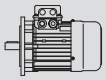



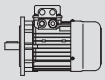
MRDB.. P..
Coperchio pendolare montato
Side cover for shaft mounting

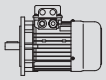
12.3 TABELLA SELEZIONE RIDUTTORI / GEAR UNIT SELECTION TABLES

12.3.1 MRDB ..P(IEC).. Prestazioni / Performance parameter

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	fs			Page
0.06	19.3	14	70	1600	1.1	**MRDB30**	**56B5/B14**	**5614**	93
	22.5	13	60	1600	1.5				
	34	10	40	1650	1.9				
	45	8	30	1340	2.5				
	68	6	20	1180	2.9				
	90	5	15	1080	3.7				
	135	3	10	950	4.7				
	193	2	7	840	6.4				
	2.4	74	560	2500	0.8	**MRDB30/44**	**56B5/B14**	**5614**	100
	3.2	62	420	2500	1.0				
	3.9	53	350	2500	1.1				
	5.5	42	245	2500	1.4				
	2	116	720	3450	0.8	**MRDB30/49**	**56B5/B14**	**5614**	100
	2.5	85	540	3450	1.1				
	3.2	73	420	3450	1.3				
	4.3	53	315	3450	1.8				
	5.6	45	240	3450	2.1				
0.09	22.5	19	60	1600	1.0	**MRDB30**	**56B5/B14**	**5624**	93
	34	15	40	1410	1.3				
	45	12	30	1290	1.6				
	68	9	20	1140	2.0				
	90	7	15	1050	2.5				
	135	5	10	920	3.1				
	193	4	7	820	4.3				
	22	22	40	1560	0.9	**MRDB30**	**63B5/B14**	**6316**	93
	29.3	18	30	1440	1.2				
	44	14	20	1230	1.5				
	59	11	15	1170	1.9				
	88	8	10	1050	2.3				
	126	6	7	920	3.2				
	3.9	80	350	2500	0.7	**MRDB30/44**	**56B5/B14**	**5624**	99
	5.5	62	245	2500	1.0				
	12.6	38	70	2300	0.8	**MRDB44**	**63B5/B14**	**6316**	95
	14.7	33	60	2300	1.2				
	19.1	28	46	2300	1.4				
	25.1	23	35	2300	1.7				
	31	19	28	2300	2.0				
	44	15	20	2300	2.6				
	3.2	110	420	3450	0.9	**MRDB30/49**	**56B5/B14**	**5624**	100
	4.3	80	315	3450	1.2				
	5.6	69	240	3450	1.4				
	8.8	41	100	3300	1.3	**MRDB49**	**63B5/B14**	**6316**	97
	11.0	37	80	3300	1.6				
	12.6	34	70	3300	1.8				
	14.7	31	60	3300	2.1				
	19.6	26	45	3300	2.7				
	24.4	22	36	3300	3.4				
0.12	138	7	20	840	2.1	**MRDB30**	**56B5/B14**	**5622**	93
	275	4	10	740	3.4				
	393	3	7	660	4.7				
	33	21	40	1360	0.9	**MRDB30**	**63B5/B14**	**6314**	93
	44	17	30	1250	1.2				
	66	13	20	1110	1.4				

P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page
0.12	87	10	15	1020	1.8	**MRDB30**	**63B5/B14**	**6314**	93
	131	7	10	900	2.3				
	187	5	7	810	3.1				
	29	24	30	1360	0.9	**MRDB30**	**63B5/B14**	**6326**	93
	44	18	20	1250	1.1				
	58	15	15	1130	1.4				
	87	10	10	1020	1.7				
	124	8	7	900	2.4				
	18.7	34	70	3300	0.9	**MRDB44**	**63B5/B14**	**6314**	95
	21.8	30	60	2300	1.3				
	28.5	25	46	2300	1.6				
	37	21	35	2300	1.9				
	47	17	28	2300	2.2				
	66	13	20	2100	2.9				
	94	10	14	1870	2.9				
	14.5	42	60	2300	1.1	**MRDB44**	**63B5/B14**	**6326**	95
	19	36	46	2300	1.4				
	25	30	35	2300	1.7				
	31	25	28	2300	2.0				
	44	19	20	2300	2.3				
	62	14	14	2150	2.7				
	4.2	110	315	3450	0.9	**MRDB30/49**	**63B5/B14**	**6314**	100
	5.5	94	240	3450	1.0				
	13.1	42	100	3150	1.2	**MRDB49**	**63B5/B14**	**6314**	97
	16.4	36	80	3150	1.5				
	18.7	34	70	3150	1.6				
	21.8	30	60	3150	1.9				
	29.1	25	45	3040	2.6				
	36	21	36	2830	3.3				
	8.7	55	100	3300	0.9	**MRDB49**	**63B5/B14**	**6326**	97
	10.9	50	80	3300	1.2				
0.18	90	13	30	1020	1.1	**MRDB30**	**63B5/B14**	**6312**	93
	135	10	20	900	1.4				
	180	8	15	800	1.8				
	270	5	10	710	2.2				
	386	4	7	640	3.1				
	66	19	20	1040	1.0	**MRDB30**	**63B5/B14**	**6324**	93
	88	15	15	960	1.2				
	132	11	10	860	1.5				
	189	8	7	770	2.1				
	45	24	60	2300	1.2	**MRDB44**	**63B5/B14**	**6312**	95
	59	20	46	2190	1.4				
	77	16	35	1970	1.8				
	96	14	28	1770	2.1				
	135	10	20	1590	2.8				
	193	7	14	1470	2.9				
	22	45	60	2300	0.9	**MRDB44**	**63B5/B14**	**6324**	95
	29	37	46	2500	1.1				
	38	31	35	2430	1.3				
	47	26	28	2270	1.5				
	66	20	20	2040	1.9				
	94	15	14	1830	2.0				
	132	11	10	1640	2.7				
	26	43	35	2340	1.1	**MRDB44**	**71B5/B14**	**7116**	95
	32	36	28	2290	1.4				
	45	28	20	2050	1.6				
	64	21	14	1830	1.9				
	90	16	10	1650	2.5				

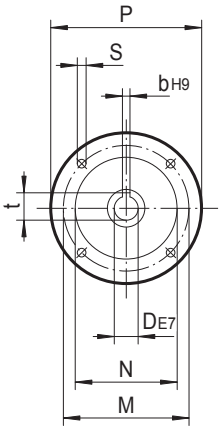
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	fs				Page
0.18	16.5	54	80	3150	1.0	**MRDB49**	**63B5/B14**	**6324**	97
	18.9	50	70	3150	1.1				
	22	45	60	3150	1.3				
	29.3	37	45	2300	1.8				
	37	31	36	2760	2.2				
	47	26	28	2560	2.9				
	55	23	24	2430	2.7				
	73	19	18	2230	3.2				
	15	61	60	3000	1.1	**MRDB49**	**71B5/B14**	**7116**	97
	20	52	45	2790	1.4				
	25	43	36	2650	1.7				
	32	36	28	2450	2.3				
0.25	135	14	20	840		**MRDB30**	**63B5/B14**	**6322**	93
	180	11	15	780					
	270	7	10	690					
	77	23	35	1930	1.3	**MRDB44**	**63B5/B14**	**6322**	95
	96	19	28	1730	1.5				
	135	14	20	1550	2.0				
	193	10	14	1400	2.1				
	270	8	10	1300	2.9				
	38	43	35	2300	0.9	**MRDB44**	**71B5/B14**	**7114**	95
	47	36	28	2190	1.1				
	66	28	20	1970	1.4				
	94	21	14	1770	1.4				
	132	15	10	1590	1.9				
	189	11	7	1420	2.7				
	32	50	28	2300	1.0	**MRDB44**	**71B5/B14**	**7126**	95
	45	39	20	2190	1.1				
	64	29	14	1980	1.3				
	90	22	10	1780	1.8				
	129	16	7	1590	2.5				
	39	38	70	2650	1.1	**MRDB49**	**63B5/B14**	**6322**	97
	45	34	60	2500	1.3				
	60	28	45	2350	1.8				
	75	23	36	2230	2.2				
	96	19	28	2070	2.9				
	113	17	24	1930	2.8				
	22	63	60	3100	0.9	**MRDB49**	**71B5/B14**	**7114**	97
	29	51	45	2810	1.3				
	37	44	36	2670	1.6				
	47	36	28	2480	2.1				
	55	33	24	2360	1.9				
	73	26	18	2170	2.3				
	94	21	14	2010	3.2				
	20	72	45	3150	1.0	**MRDB49**	**71B5/B14**	**7126**	97
	25	60	36	3150	1.2				
	32	51	28	3150	1.6				
	38	46	24	2600	1.5				
	50	36	18	2460	1.9				
	64	29	14	2260	2.4				
	90	22	10	2040	2.9				
0.37	79	33	35	1860	0.9	**MRDB49**	**71B5/B14**	**7112**	95
	98	27	28	1720	1.1				
	138	21	20	1570	1.4				
	196	15	14	1400	1.5				
	275	11	10	1260	2.0				
	393	8	7	1120	2.7				

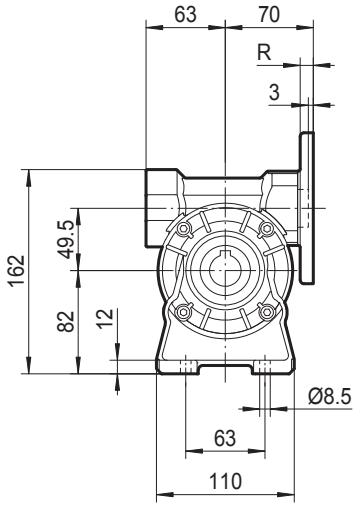
P_{1n} [kW]	n_2 [r/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s			Page
0.37	69	40	20	1870	1.0	**MRDB44**	**71B5/B14**	**7124**	95
	98	29	14	1690	1.0				
	137	22	10	1520	1.3				
	196	16	7	1360	1.9				
	61	40	45	2270	1.2	**MRDB49**	**71B5/B14**	**7112**	97
	76	34	36	2180	1.5				
	98	28	28	2020	2.0				
	115	25	24	1880	1.9				
	153	19	18	1720	2.3				
	30	73	45	2680	0.9	**MRDB49**	**71B5/B14**	**7124**	97
	38	62	36	2530	1.1				
	49	51	28	2360	1.4				
	57	46	24	2250	1.4				
	76	37	18	2080	1.6				
	98	29	14	1940	2.2				
	137	22	10	1750	2.7				
	196	16	7	1570	3.4				
	38	67	24	2350	1.0	**MRDB49**	**80B5/B14**	**8016**	97
	51	53	18	2240	1.3				
	65	43	14	2070	1.7				
	91	32	10	1930	2.0				
	130	23	7	1740	2.6				
0.55	141	30	20	1490	1.0	**MRDB44**	**71B5/B14**	**7122**	95
	201	22	14	1350	1.0				
	281	16	10	1210	1.4				
	401	12	7	1080	1.9				
	78	49	36	2090	1.1	**MRDB49**	**71B5/B14**	**7122**	97
	100	40	28	1960	1.4				
	117	36	24	1800	1.3				
	156	28	18	1650	1.6				
	201	22	14	1420	2.2				
	281	16	10	1390	2.7				
	401	12	7	1250	3.5				
	49	76	28	2170	1.0	**MRDB49**	**80B5/B14**	**8014**	97
	58	69	24	2080	0.9				
	77	54	18	1930	1.1				
	99	43	14	1810	1.5				
	138	32	10	1650	1.8				
	197	23	7	1480	2.3				
	66	63	14	1960	1.1	**MRDB49**	**80B5/B14**	**8026**	97
	92	47	10	1800	1.4				
	131	34	7	1660	1.8				
0.75	117	49	24	1710	1.0	**MRDB49**	**80B5/B14**	**8012**	97
	156	38	18	1580	1.2				
	200	30	14	1480	1.6				
	280	22	10	1340	2.0				
	400	16	7	1200	2.6				
	100	58	14	1690	1.1	**MRDB49**	**80B5/B14**	**8024**	97
	140	43	10	1540	1.4				
	200	31	7	1400	1.7				
1.1	200	45	14	1370	1.1	**MRDB49**	**80B5/B14**	**8022**	97
	280	33	10	1250	1.3				
	400	23	7	1130	1.8				

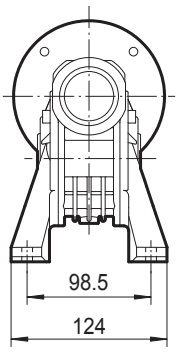
M_{2n} [Nm]	n_1 [r/min]	i	P_{1n} [kW]	n_2 [r/min]	F_{r2} [N]	F_{r1} [N]		Page
41	2800	7	2	400	950	400	**MRDB49**	101
44	2800	10	1.5	280	1140	400		
49	2800	14	1.2	200	1310	400		
44	2800	18	0.87	156	1520	400		
47	2800	24	0.73	117	1670	400		
56	2800	28	0.78	100	1740	400		
52	2800	36	0.59	78	1970	400		
49	2800	45	0.46	62	2180	400		
44	2800	60	0.34	47	2480	400		
41	2800	70	0.28	40	2650	400		
41	2800	80	0.25	35	2780	400		
37	2800	100	0.20	28	3050	400		
54	1400	7	1.3	200	1170	400	**MRDB49**	101
59	1400	10	1.0	140	1410	400		
65	1400	14	0.90	100	1630	400		
59	1400	18	0.60	78	1890	400		
63	1400	24	0.50	58	2110	400		
74	1400	28	0.55	50	2170	400	**MRDB49**	101
69	1400	36	0.42	39	2460	400		
65	1400	45	0.33	31	2725	400		
59	1400	60	0.25	23.3	3100	400		
55	1400	70	0.21	20	3150	400		
54	1400	80	0.19	17.5	3150	400		
49	1400	100	0.13	14	3150	400		
61	900	7	0.97	129	1370	400	**MRDB49**	101
64	900	10	0.75	90	1670	400		
71	900	14	0.61	64	1920	400		
68	900	18	0.47	50	2190	400		
68	900	24	0.36	38	2480	400		
82	900	28	0.41	32	2540	400		
75	900	36	0.31	25	2880	400		
71	900	45	0.25	20	3190	400		
64	900	60	0.19	15	3300	400		
60	900	70	0.16	12.9	3300	400		
58	900	80	0.14	11.3	3300	400		
52	900	100	0.11	9	3300	400		
74	500	7	0.67	71	1670	400	**MRDB49**	101
74	500	10	0.49	50	2060	400		
78	500	14	0.39	36	2400	400		
74	500	18	0.30	27.8	2730	400		
74	500	24	0.24	20.8	3090	400		
88	500	28	0.26	17.9	3180	400		
80	500	36	0.20	13.9	3450	400		
78	500	45	0.17	11.1	3450	400		
69	500	60	0.12	8.3	3450	400		
69	500	70	0.11	7.1	3450	400		
59	500	80	0.09	6.3	3450	400		
59	500	100	0.08	5	3450	400		

MRDV49A.. P(IEC)

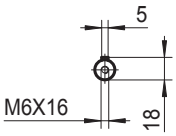
Piedi */ Input adapters*

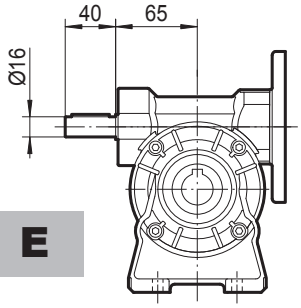




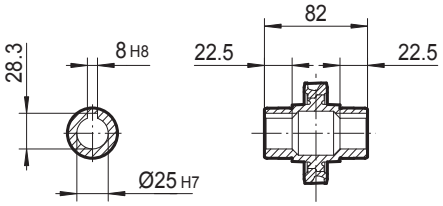


Dimensioni albero */ Worm output shaft*

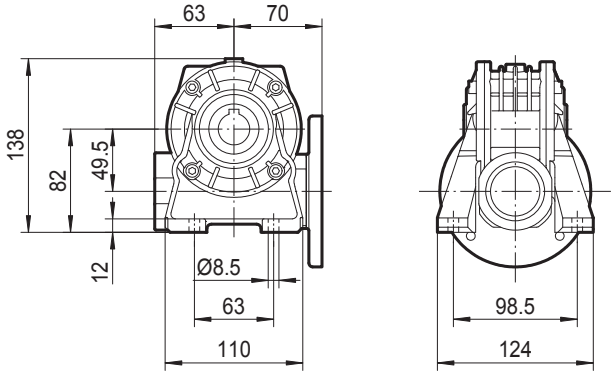




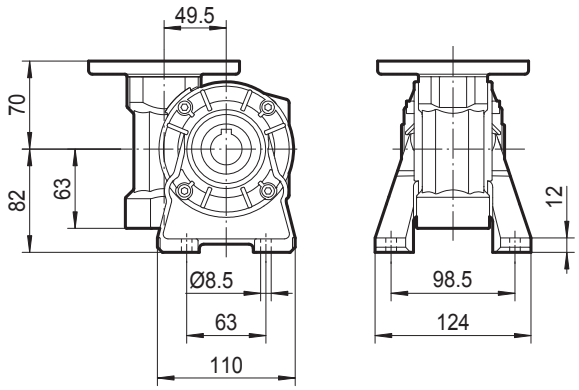
E



MRDB49N..



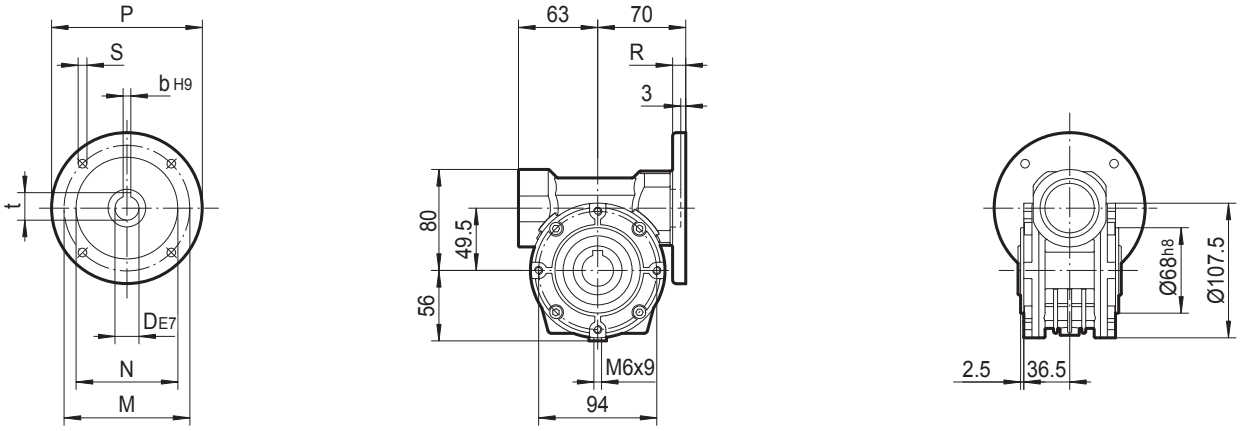
MRDB49V..



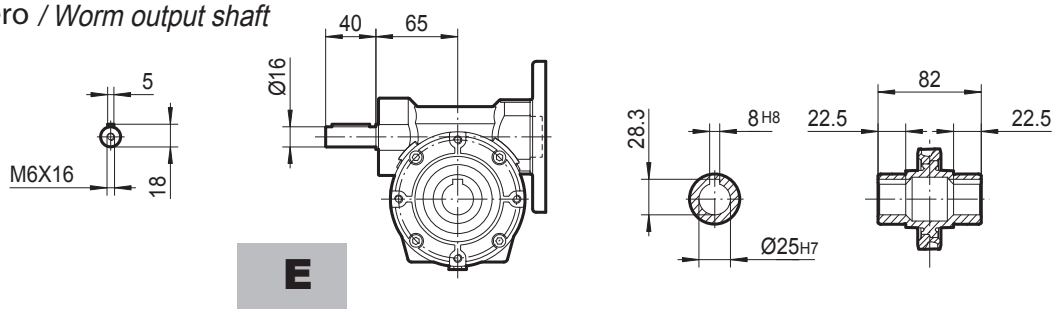
IEC	D_{E7}	b	t	P	M	N	R	S
63B5	11	4	12.8	140	115	95	10.5	9.5
63B14	11	4	12.8	90	75	60	7	6
71B5	14	5	16.3	160	130	110	10.5	9.5
71B14	14	5	16.3	105	85	70	10.5	6.5
80B5	19	6	21.8	200	165	130	10	11.5
80B14	19	6	21.8	120	100	80	10	7

MRDB49P..P(IEC)

Piedi */ Input adapters*

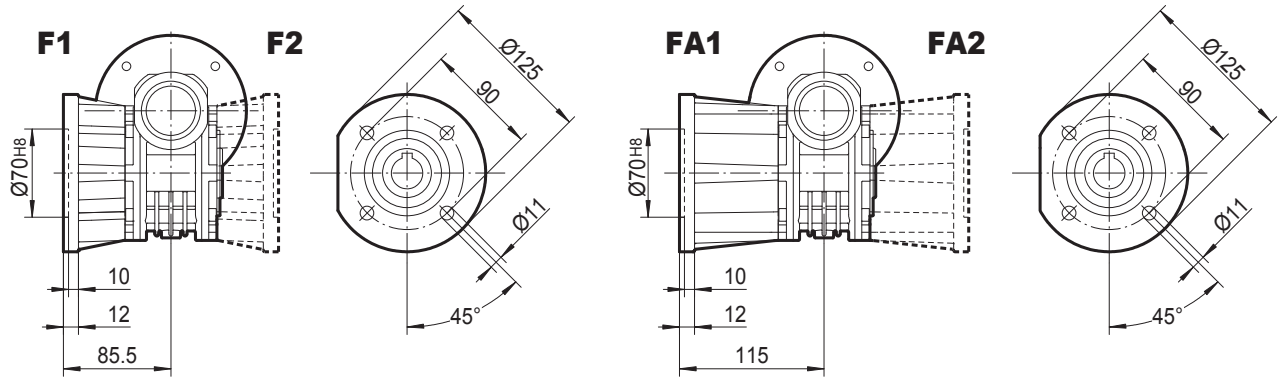


Dimensioni albero */ Worm output shaft*



MRDB49F..

MRDB49FA..

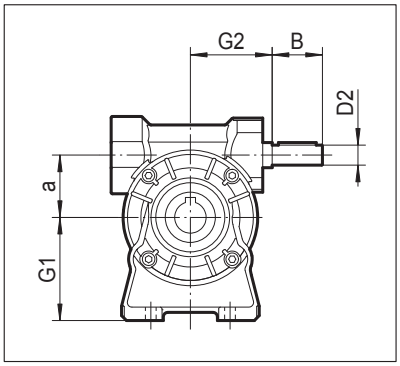


IEC	D E7	b	t	P	M	N	R	S
63B5	11	4	12.8	140	115	95	10.5	9.5
63B14	11	4	12.8	90	75	60	7	6
71B5	14	5	16.3	160	130	110	10.5	9.5
71B14	14	5	16.3	105	85	70	10.5	6.5
80B5	19	6	21.8	200	165	130	10	11.5
80B14	19	6	21.8	120	100	80	10	7

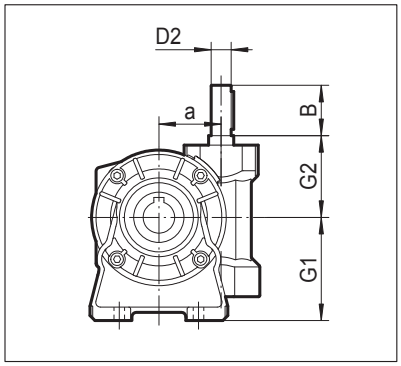
12.4.3 ***MRDB.. HS..*** Dimensioni / ***Outline dimension***

MRDB..HS..

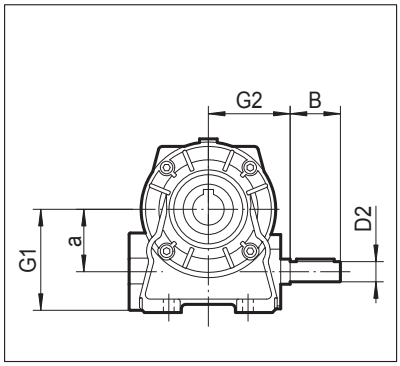
MRDB_A..HS.



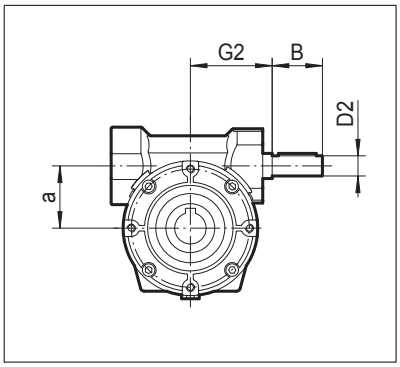
MRDB_V..HS.



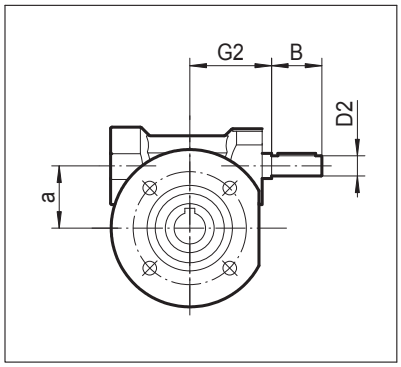
MRDB_N..HS.

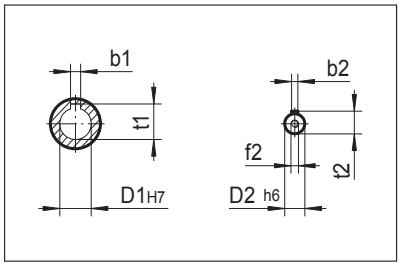


MRDB_P..HS.



MRDB_F..HS.
MRDB_FA..HS.



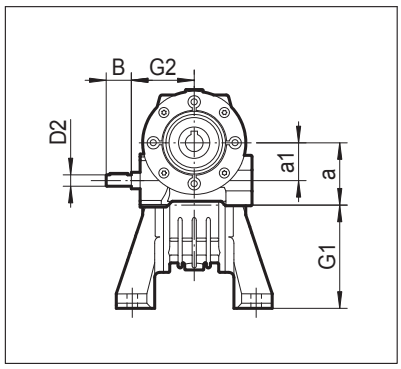


	a	D1 H7	t1	b1	D2 h6	t2	b2	B	G2	G1	f2
MRDB 30__HS	30	14	16.3	5	9	10.2	3	20	50	47	—
MRDB 44__HS	44.6	18	20.8	6	11	12.5	4	30	54	55	—
MRDB 49__HS	49.5	25	28.3	8	16	18	5	40	65	64.5	M6x16

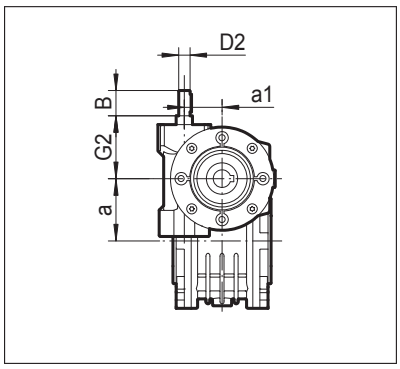
*12.4.4 **MRDB/MRDB.. HS..*** Dimensioni */ **Outline dimension***

MRDB/MRDB ..HS..

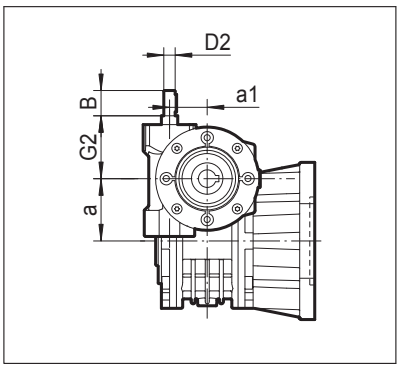
MRDB/MRDB_A..HS.



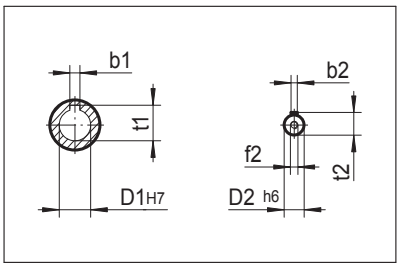
MRDB/MRDB_P..HS.



MRDB/MRDB_F..HS.



	a	a1	D1 H7	t1	b1	D2 h6
MRDB/MRDB 30/44__HS	44.6	30	18	20.8	6	9
MRDB/MRDV 30/49__HS	49.5	30	25	28.3	8	9
	t2	**b2**	**B**	**G2**	**G1**	**f2**
MRDB/MRDB 30/44__HS	10.2	3	20	50	72	—
MRDB/MRDB 30/49__HS	10.2	3	20	50	82	—

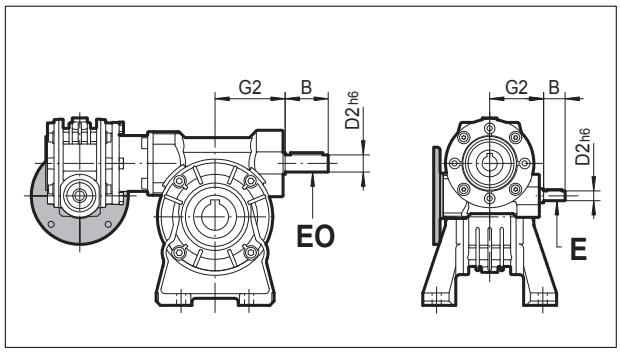


*12.4.5 **MRDB/MRDB.. E(EO)..*** Dimensioni */ **Outline dimension***

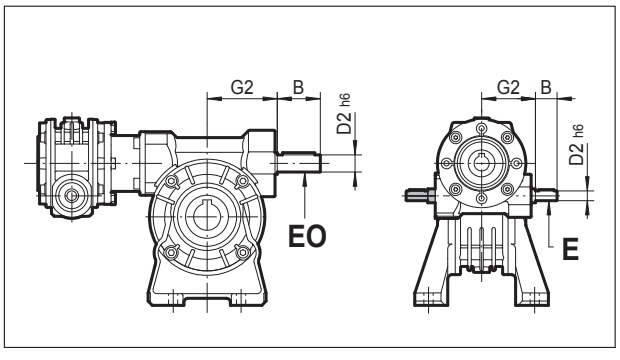
I ridurttori possono essere forniti su ordinazione con albero doppio in uscita

Worm gears can be optionally requested with extended wormshaft at NDE by specifying the option E or EO (for double worm combined units) at the time of order.

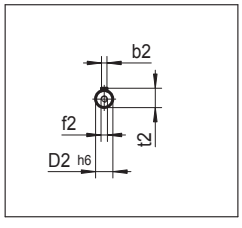
P(IEC)



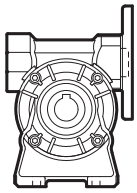
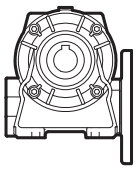
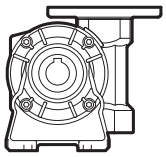
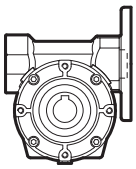
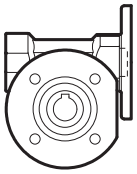
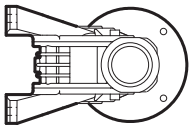
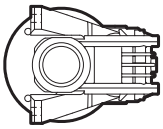
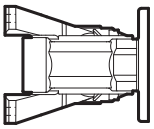
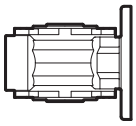
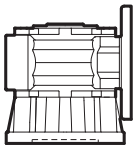
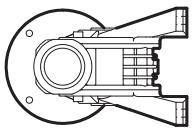
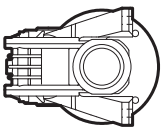
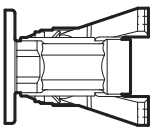
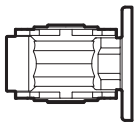
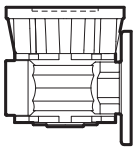
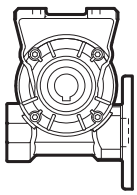
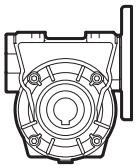
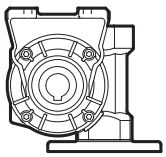
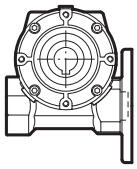
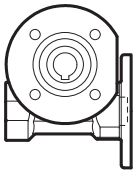
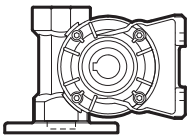
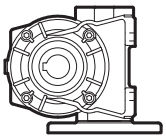
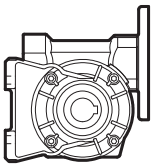
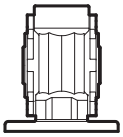
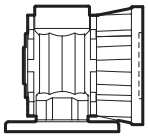
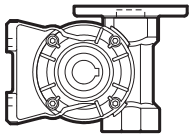
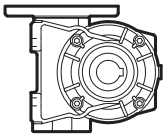
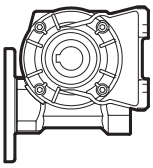
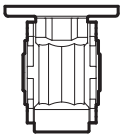
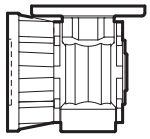
HS

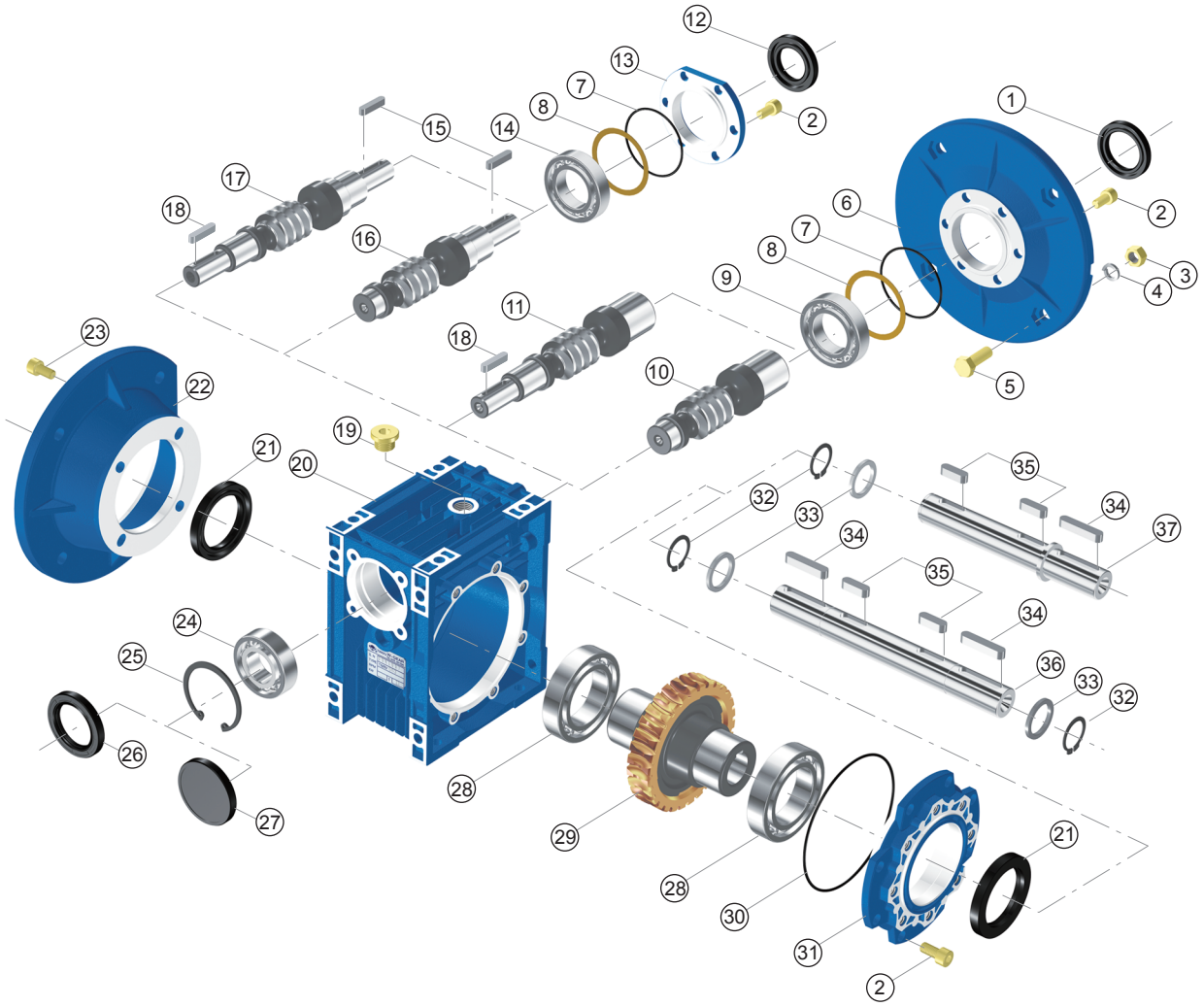


	D2 h6	t2	b2	B	G2	f2
MRDB 30	9	10.2	3	20	50	-
MRDB 44	11	12.5	4	30	56	-
MRDB 49	16	18	5	40	65	M6



12.6 ***MRDB..*** SCHEMA POSIZIONI DI MONTAGGIO / ***INSTALLATION POSITIONS DIAGRAM***

	MRDB..A	MRDB..N	MRDB..V	MRDB..P	MRDB..F
B3					
B6					
B7					
B8					
V5					
V6					



1. Anello
2. Vite
3. Dado
4. Rondella
5. Vite
6. Flangia in ingresso
7. O-Ring
8. Spessore
9. Cuscinetto
10. Vite in ingresso
11. Vite in ingresso bisporgente
12. Anello
13. Coperchio
14. Cuscinetto
15. Chiavetta
16. Vite senza fine albero maschio
17. Vite senza fine doppia
18. Chiavetta
19. Tappo
20. Carcassa
21. Anello
22. Flangia in uscita
23. Vite
24. Cuscinetto
25. Seeger
26. Anello
27. Coperchio
28. Cuscinetto
29. Corona
30. O-Ring
31. Coperchio in uscita
32. Seeger
33. Spessore
34. Chiavetta
35. Chiavetta
36. Albero in uscita doppio
37. Albero in uscita semplice

1. Oil seal
2. Inner hex screw
3. Nut
4. Spring washer
5. Hex screw
6. Input flange
7. O-ring
8. Adjust spacer
9. Bearing
10. Hole input worm
11. Hole input and shaft output worm
12. Oil seal
13. Input cover
14. Bearing
15. Key
16. Shaft input worm
17. Shaft input and shaft output worm
18. Key
19. Oil plug
20. Casing
21. Oil seal
22. Output flange
23. Inner hex screw
24. Bearing
25. Hole-circlip
26. Oil seal
27. Cover
28. Bearing
29. Worm wheel
30. O-ring
31. Output cover
32. Shaft-circlip
33. Spacer
34. Key
35. Key
36. Double output shaft
37. Single output shaft