

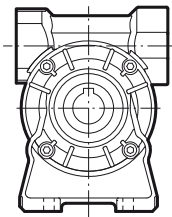
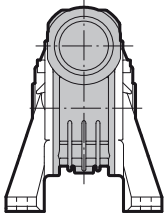
**- SERIE MRDB -**  
**Riduttori Vite senza Fine**  
*Worm Gearboxes*

**ELLE.GI SRL**

*Organi di  
Trasmissione*

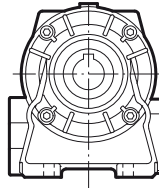
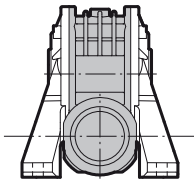


## 12.1.2 Illustrazione modelli / Model illuminate



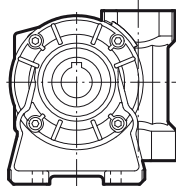
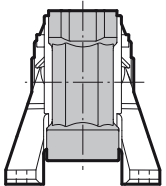
### MRDB.. A..

*Piedi Montati*  
Foot mounted



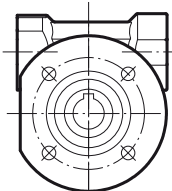
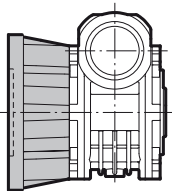
### MRDB.. N..

*Piedi Montati*  
Foot mounted



### MRDB..V..

*Piedi Montati*  
Foot mounted

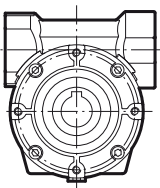
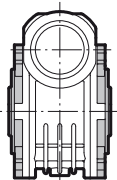


### MRDB.. F..

*Flangia in uscita standard*  
Standard output flange

### MRDB.. F A..

*Flangia in uscita più lunga*  
Extended output flange






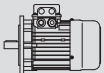

### MRDB.. P..


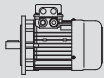
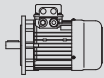
*Coperchio pendolare montato*  
Side cover for shaft mounting


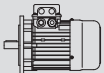
## 12.3 TABELLA SELEZIONE RIDUTTORI / GEAR UNIT SELECTION TABLES



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

$P_{1n}$ [kW]	$n_2$ [r/min]	$M_{2n}$ [Nm]	$i$	$F_{r2}$ [N]	$f_s$			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										
	0.09	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									
		0.12	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										
	0.12	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									
		0.09	3.9	80	350	2500					0.7	MRDB30/44	56B5/B14	5624	99
			5.5	62	245	2500					1.0				
0.12	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										
0.12	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										
0.12		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]	$f_s$			$6314$	Page 					
<b>0.12</b>	87	10	15	1020	1.8	<b>MRDB30</b>	<b>63B5/B14</b>	<b>6314</b>	93					
	131	7	10	900	2.3									
	187	5	7	810	3.1									
		29	24	30	1360	0.9	<b>MRDB30</b>	<b>63B5/B14</b>	<b>6326</b>	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					<b>MRDB44</b>	<b>63B5/B14</b>	<b>6314</b>	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	<b>MRDB44</b>	<b>63B5/B14</b>	<b>6326</b>	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	<b>MRDB30/49</b>					<b>63B5/B14</b>	<b>6314</b>	100	
5.5	94	240	3450	1.0										
	13.1	42	100	3150	1.2	<b>MRDB49</b>	<b>63B5/B14</b>	<b>6314</b>	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					<b>MRDB49</b>	<b>63B5/B14</b>	<b>6326</b>	97	
	10.9	50	80	3300	1.2									
	<b>0.18</b>	90	13	30	1020					1.1	<b>MRDB30</b>	<b>63B5/B14</b>	<b>6312</b>	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	<b>MRDB30</b>	<b>63B5/B14</b>	<b>6324</b>	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					<b>MRDB44</b>	<b>63B5/B14</b>	<b>6312</b>	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	<b>MRDB44</b>	<b>63B5/B14</b>	<b>6324</b>	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					<b>MRDB44</b>	<b>71B5/B14</b>	<b>7116</b>	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									

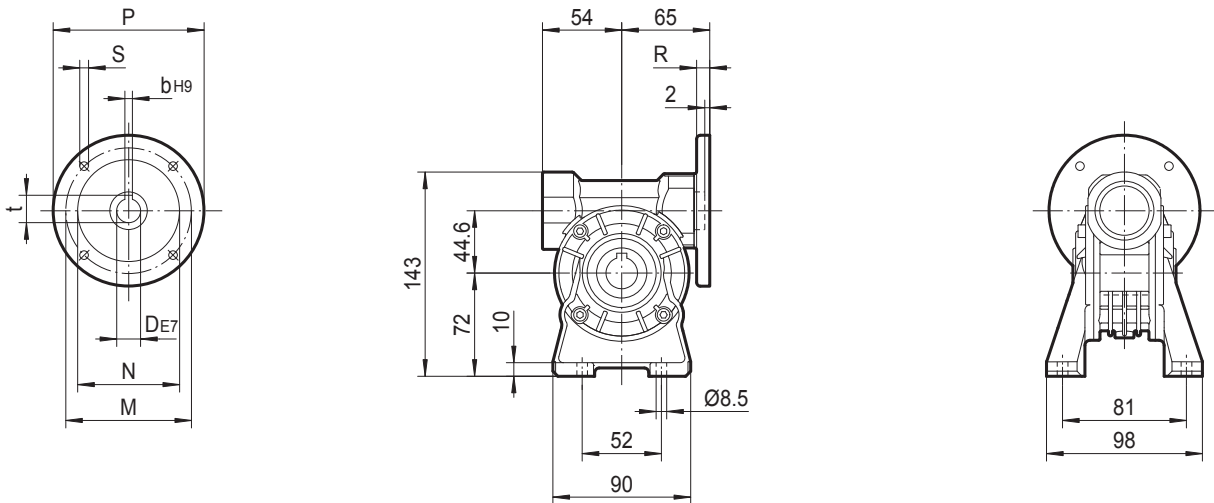
$P_{1n}$ [kW]	$n_2$ [r/min]	$M_{2n}$ [Nm]	$i$	$F_{r2}$ [N]	$f_s$				Page
<b>0.18</b>	16.5	54	80	3150	1.0	<b>MRDB49</b>	<b>63B5/B14</b>	<b>6324</b>	97
	18.9	50	70	3150	1.1				
	22	45	60	3150	1.3				
	29.3	37	45	2300	1.8				
	37	31	36	2760	2.2				
	47	26	28	2560	2.9				
	55	23	24	2430	2.7				
	73	19	18	2230	3.2				
	15	61	60	3000	1.1	<b>MRDB49</b>	<b>71B5/B14</b>	<b>7116</b>	97
	20	52	45	2790	1.4				
	25	43	36	2650	1.7				
	32	36	28	2450	2.3				
	<b>0.25</b>	135	14	20	840		<b>MRDB30</b>	<b>63B5/B14</b>	<b>6322</b>
180		11	15	780					
270		7	10	690					
77		23	35	1930	1.3	<b>MRDB44</b>	<b>63B5/B14</b>	<b>6322</b>	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				
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	<b>MRDB44</b>	<b>71B5/B14</b>	<b>7126</b>	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				
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	<b>MRDB49</b>	<b>71B5/B14</b>	<b>7114</b>	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				
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					
<b>0.37</b>	79	33	35	1860	0.9	<b>MRDB49</b>	<b>71B5/B14</b>	<b>7112</b>	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		
<b>0.37</b>	69	40	20	1870	1.0	<b>MRDB44</b>	<b>71B5/B14</b>	<b>7124</b>	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	<b>MRDB49</b>	<b>71B5/B14</b>	<b>7112</b>	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	<b>MRDB49</b>	<b>71B5/B14</b>	<b>7124</b>	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	<b>MRDB49</b>	<b>80B5/B14</b>	<b>8016</b>	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					
<b>0.55</b>	141	30	20	1490	1.0	<b>MRDB44</b>	<b>71B5/B14</b>	<b>7122</b>	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	<b>MRDB49</b>	<b>71B5/B14</b>	<b>7122</b>	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	<b>MRDB49</b>	<b>80B5/B14</b>	<b>8014</b>	
		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	<b>MRDB49</b>	<b>80B5/B14</b>	<b>8026</b>	97
		92	47	10	1800	1.4				
	131	34	7	1660	1.8					
<b>0.75</b>	117	49	24	1710	1.0	<b>MRDB49</b>	<b>80B5/B14</b>	<b>8012</b>	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	<b>MRDB49</b>	<b>80B5/B14</b>	<b>8024</b>	
		140	43	10	1540	1.4				
	200	31	7	1400	1.7					
<b>1.1</b>	200	45	14	1370	1.1	<b>MRDB49</b>	<b>80B5/B14</b>	<b>8022</b>	97	
	280	33	10	1250	1.3					
	400	23	7	1130	1.8					

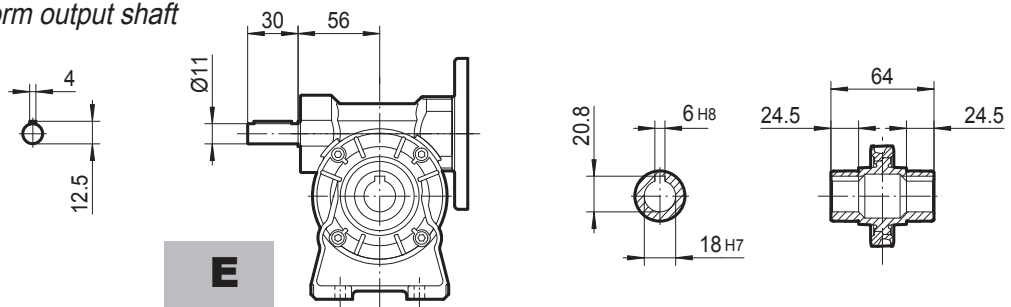
$M_{2n}$ [Nm]	$n_1$ [r/min]	$i$	$P_{1n}$ [kW]	$n_2$ [r/min]	$F_{R2}$ [N]	$F_{R1}$ [N]		Page 		
22	2800	7	1.1	400	950	220	<b>MRDB44</b>	101		
22	2800	10	0.74	280	1150	220				
22	2800	14	0.55	200	1340	220				
29	2800	20	0.52	140	1490	220				
29	2800	28	0.40	100	1710	220				
29	2800	35	0.33	80	1870	220				
29	2800	46	0.27	61	2080	220				
29	2800	60	0.22	47	2290	220				
22	2800	70	0.15	40	2300	220				
21	2800	100	0.11	28	2300	220				
29	1400	7	0.71	200	1180	220	<b>MRDB44</b>	101		
29	1400	10	0.51	140	1430	220				
29	1400	14	0.37	100	1680	220				
39	1400	20	0.37	70	1860	220				
39	1400	28	0.29	50	2140	220				
39	1400	35	0.25	40	2300	220				
39	1400	46	0.19	30	2300	220				
39	1400	60	0.16	23.3	2300	220				
29	1400	70	0.11	20	2300	220				
28	1400	100	0.09	14	2300	220				
39	900	7	0.63	129	1300	220			<b>MRDB44</b>	101
39	900	10	0.45	90	1610	220				
39	900	14	0.34	64	1890	220				
45	900	20	0.29	45	2160	220				
49	900	28	0.24	32	2300	220				
49	900	35	0.20	25.7	2300	220				
49	900	46	0.17	19.6	2300	220				
45	900	60	0.13	15	2300	200				
39	900	70	0.10	12.9	2300	220				
30	900	100	0.06	9	2300	220				
45	500	7	0.41	71	1610	220	<b>MRDB44</b>	101		
45	500	10	0.29	50	1980	220				
50	500	14	0.25	36	2280	220				
50	500	20	0.18	25	2500	220				
55	500	28	0.16	17.9	2500	220				
55	500	35	0.14	14.3	2500	220				
50	500	46	0.10	10.9	2500	220				
50	500	60	0.09	8.3	2500	220				
45	500	70	0.07	7.1	2500	220				
32	500	100	0.04	5	2500	220				

## MRDB44A.. P(IEC)

Piedi / Input adapters

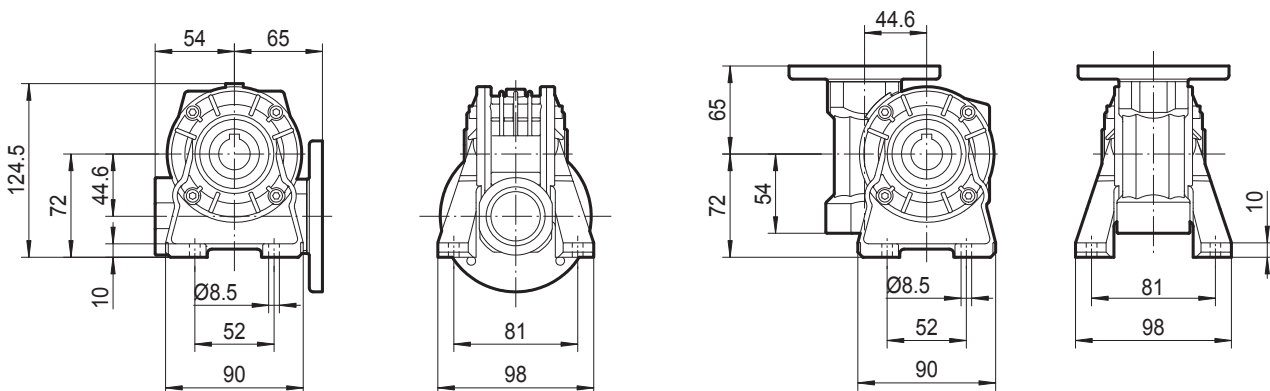


Dimensioni albero / Worm output shaft



## MRDB44N..

## MRDB44V..

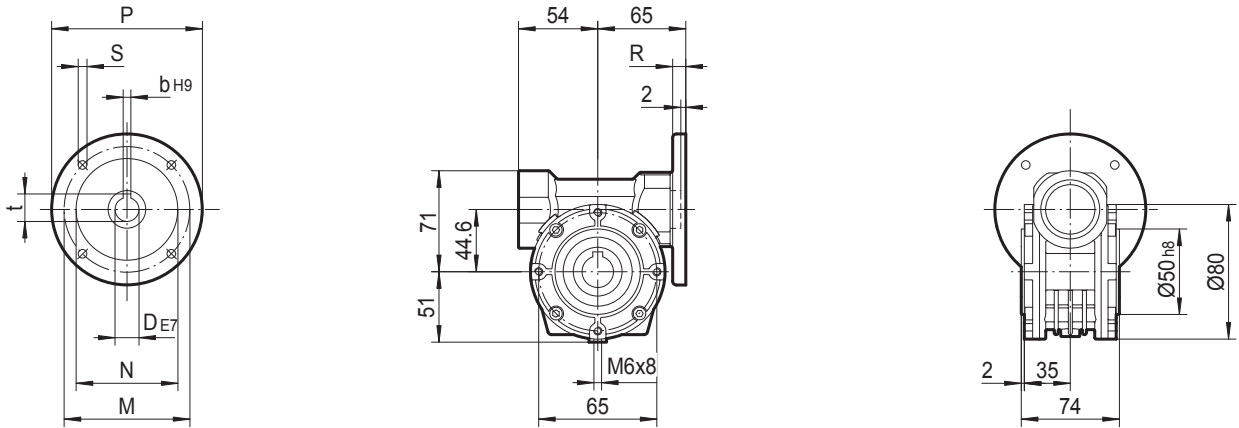


IEC	D <sub>E7</sub>	b	t	P	M	N	R	S
63B5	11	4	12.8	140	115	95	10	9.5
63B14	11	4	12.8	90	75	60	8	5.5
71B5	14	5	16.3	160	130	110	10	9.5
71B14	14	5	16.3	105	85	70	10	7

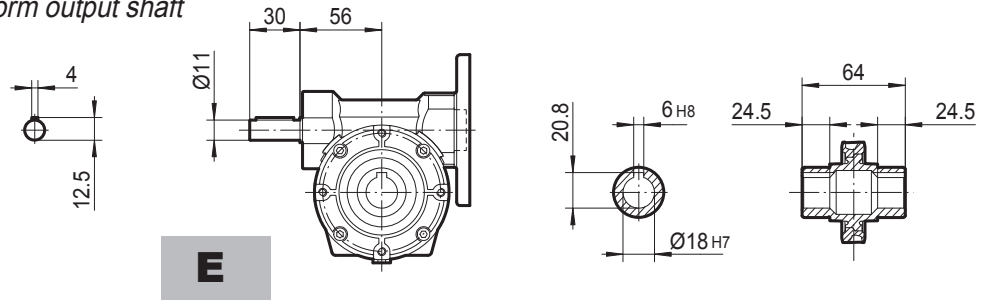


**MRDB44P..P(IEC)**

Piedi / Input adapters



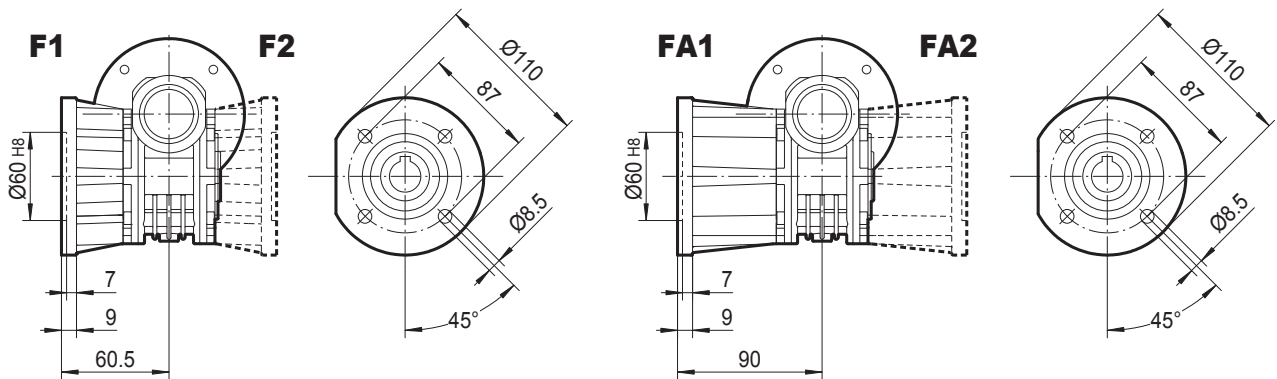
Dimensione albero / Worm output shaft



**E**

**MRDB44F..**

**MRDB44FA..**

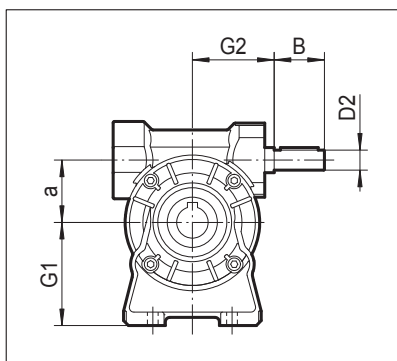


IEC	D E7	b	t	P	M	N	R	S
63B5	11	4	12.8	140	115	95	10	9.5
63B14	11	4	12.8	90	75	60	8	5.5
71B5	14	5	16.3	160	130	110	10	9.5
71B14	14	5	16.3	105	85	70	10	7

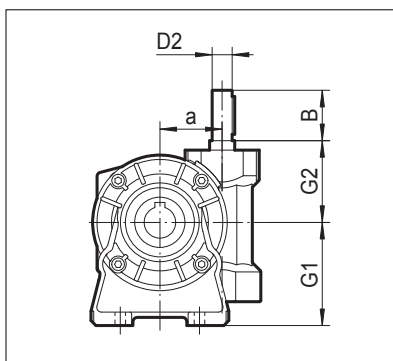
## 12.4.3 MRDB.. HS.. Dimensioni / Outline dimension

MRDB..HS..

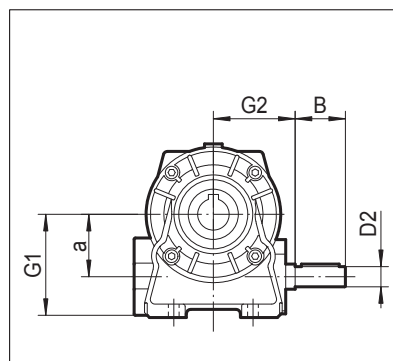
**MRDB\_A..HS.**



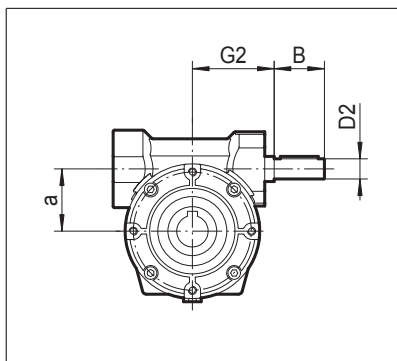
**MRDB\_V..HS.**



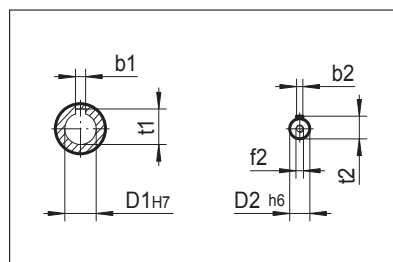
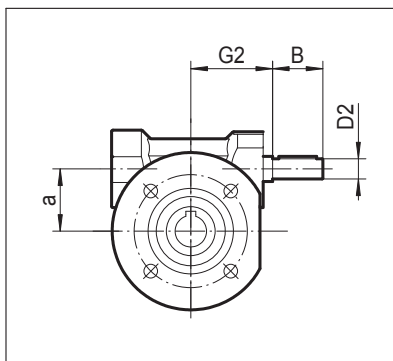
**MRDB\_N..HS.**



**MRDB\_P..HS.**



**MRDB\_F..HS.  
MRDB\_FA..HS.**

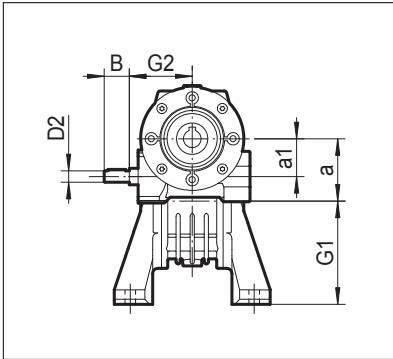


	a	D1 <sub>H7</sub>	t1	b1	D2 <sub>h6</sub>	t2	b2	B	G2	G1	f2
MRDB 30__HS	30	14	16.3	5	9	10.2	3	20	50	47	—
MRDB 44__HS	44.6	18	20.8	6	11	12.5	4	30	54	55	—
MRDB 49__HS	49.5	25	28.3	8	16	18	5	40	65	64.5	M6x16

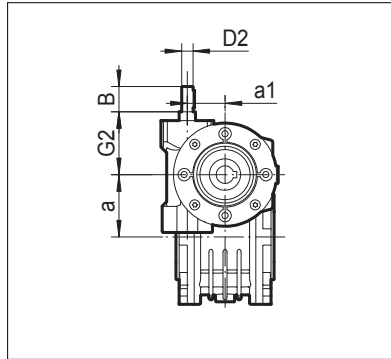
12.4.4 **MRDB/MRDB.. HS..** Dimensioni / *Outline dimension*

MRDB/MRDB ..HS..

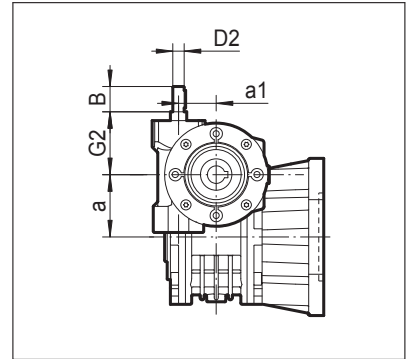
**MRDB/MRDB\_A..HS.**



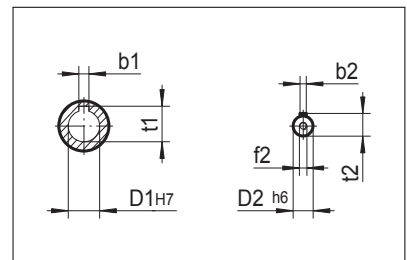
**MRDB/MRDB\_P..HS.**



**MRDB/MRDB\_F..HS.**



	a	a1	D1 <sub>H7</sub>	t1	b1	D2 <sub>h6</sub>
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	—



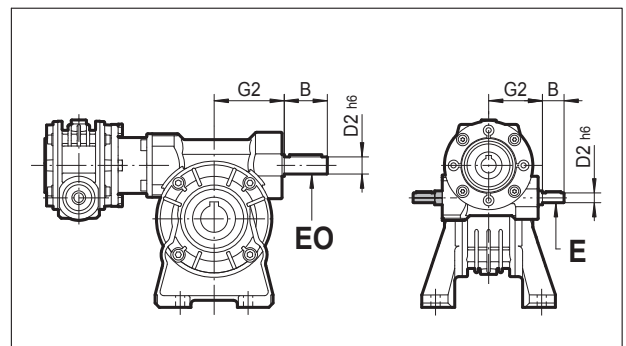
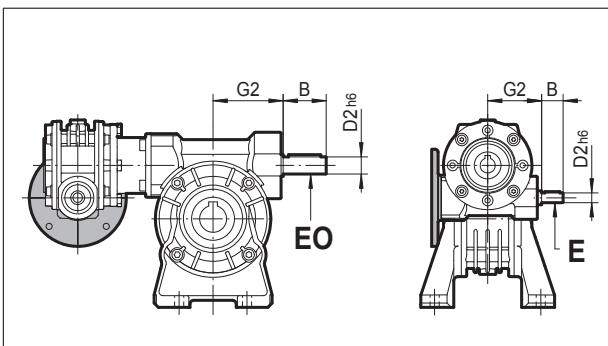
12.4.5 **MRDB/MRDB.. E(EO)..** Dimensioni / *Outline dimension*

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

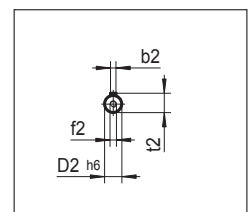
Worm gears can be optionally requested with extended wormshaft at NDE by specifying the option E or EO (for double worm combined units) at the time of order.

**P(IEC)**

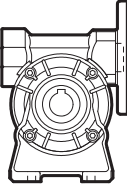
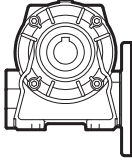
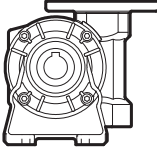
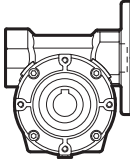
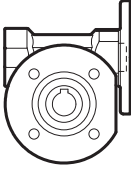
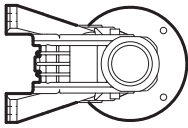
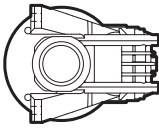
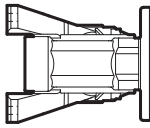
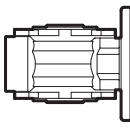
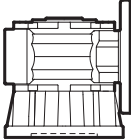
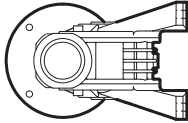
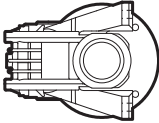
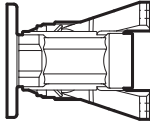
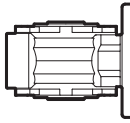
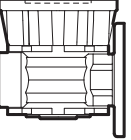
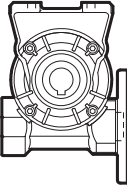
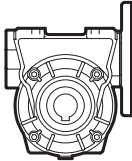
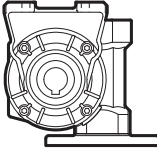
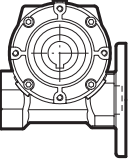
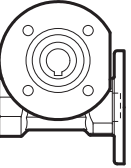
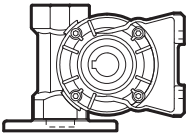
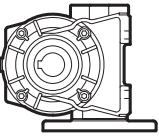
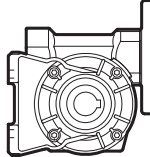
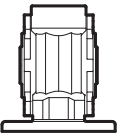
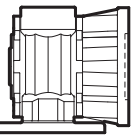
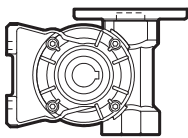
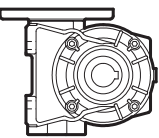
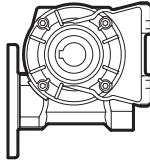
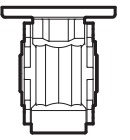
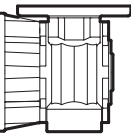
**HS**

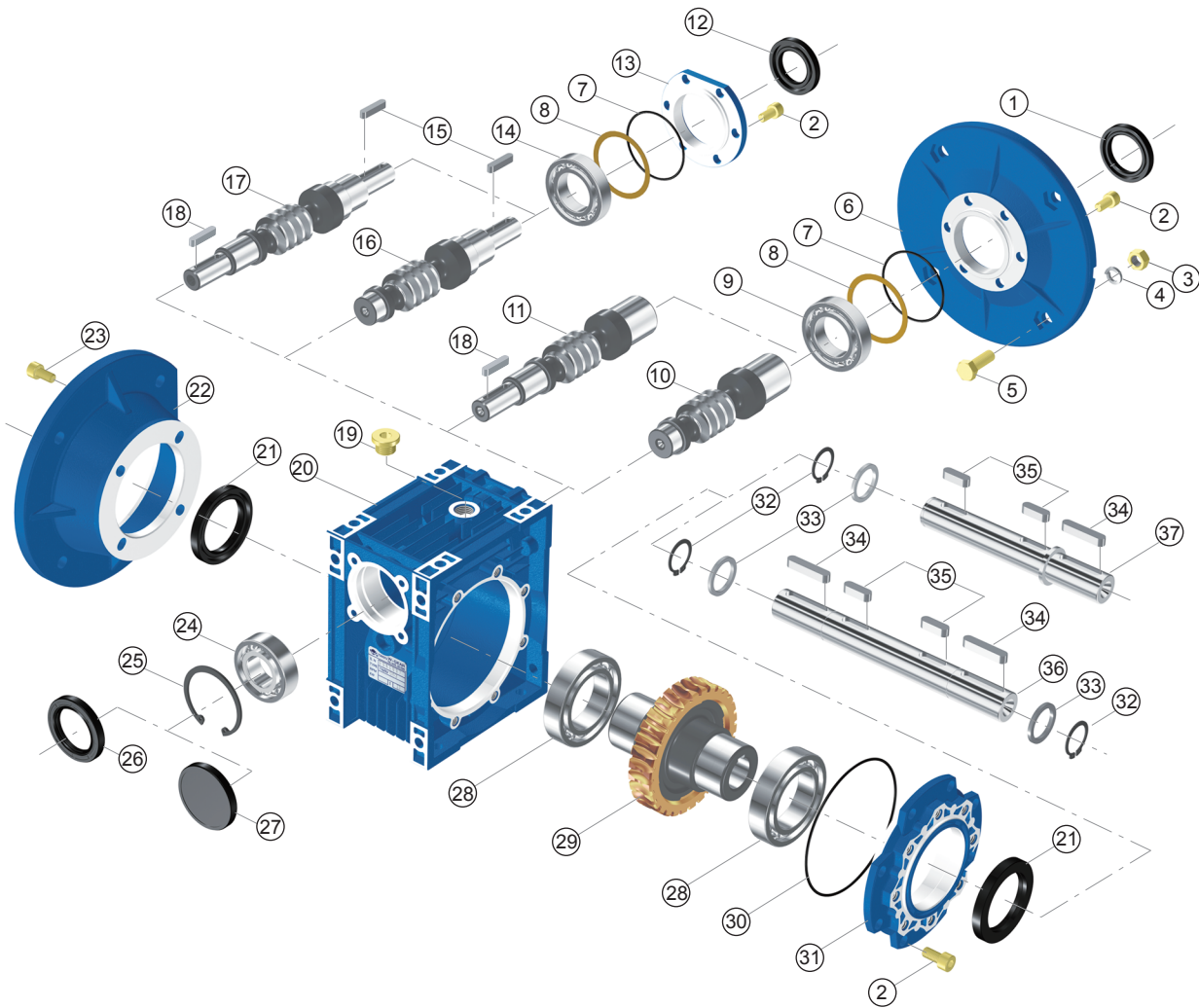


	D2 <sub>h6</sub>	t2	b2	B	G2	f2
MRDB 30	9	10.2	3	20	50	-
MRDB 44	11	12.5	4	30	56	-
MRDB 49	16	18	5	40	65	M6



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                          | 19. Tappo                     | 1. Oil seal                           | 19. Oil plug            |
| 2. Vite                            | 20. Carcassa                  | 2. Inner hex screw                    | 20. Casing              |
| 3. Dado                            | 21. Anello                    | 3. Nut                                | 21. Oil seal            |
| 4. Rondella                        | 22. Flangia in uscita         | 4. Spring washer                      | 22. Output flange       |
| 5. Vite                            | 23. Vite                      | 5. Hex screw                          | 23. Inner hex screw     |
| 6. Flangia in ingresso             | 24. Cuscinetto                | 6. Input flange                       | 24. Bearing             |
| 7. O-Ring                          | 25. Seeger                    | 7. O-ring                             | 25. Hole-circlip        |
| 8. Spessore                        | 26. Anello                    | 8. Adjust spacer                      | 26. Oil seal            |
| 9. Cuscinetto                      | 27. Coperchio                 | 9. Bearing                            | 27. Cover               |
| 10. Vite in ingresso               | 28. Cuscinetto                | 10. Hole input worm                   | 28. Bearing             |
| 11. Vite in ingresso bisporgente   | 29. Corona                    | 11. Hole input and shaft output worm  | 29. Worm wheel          |
| 12. Anello                         | 30. O-Ring                    | 12. Oil seal                          | 30. O-ring              |
| 13. Coperchio                      | 31. Coperchio in uscita       | 13. Input cover                       | 31. Output cover        |
| 14. Cuscinetto                     | 32. Seeger                    | 14. Bearing                           | 32. Shaft-circlip       |
| 15. Chiavetta                      | 33. Spessore                  | 15. Key                               | 33. Spacer              |
| 16. Vite senza fine albero maschio | 34. Chiavetta                 | 16. Shaft input worm                  | 34. Key                 |
| 17. Vite senza fine doppia         | 35. Chiavetta                 | 17. Shaft input and shaft output worm | 35. Key                 |
| 18. Chiavetta                      | 36. Albero in uscita doppio   | 18. Key                               | 36. Double output shaft |
|                                    | 37. Albero in uscita semplice |                                       | 37. Single output shaft |