MRA/BDR LINES

Heavy duty, planetary to bevel, right-angle, servo gearbox

Up to 350 Nm rated with bevel output
Up to 9,000 Nm rated with planetary output

• Backlash: from 15 to 2 minutes*

 Hollow shaft, double shaft or quadri-shaft versions available

- Efficiency: from 91% to 96%*
- Up to 13 standard ratios / custom ratios available
- High output torque versions available upon request
- Easy 1 minute clamping onto any motor shaft (self-locating input flange)
- Standard case temperature range is -20°C to +90°C. Consult us for higher or lower temperature use
- IP 65 standard waterproofness. IP-67 & 1500 psi water jets available.
- Washdown stainless steel version available
- Optional lubrication for food-processing or pharmaceutical industries
- Estimated life time 20.000 hours

*depending upon model, ratio and size

Andantex Srl

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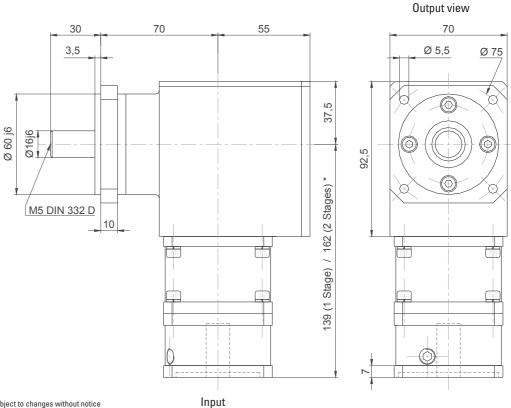
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Technical characteristics

Number of	stages		1	- Stag	ge		2 · Stages							
Ratio (1)		3	4	5	7	10	16	20	25	35	50	70	100	
INPUT														
Rated / max speed	rpm		4 000 / 6 000 (consult us if you require higher input speed)											
Rated power	Kw	0.78	0.78	0.78	0.59	0.6	0.47	0.39	0.3	0.2	0.16	0.1	0.79	
Rated torque	Nm	1.88	1.88	1.88	1.4	1.5	1.1	0.95	0.76	0.57	0.38	0.28	0.19	
Accel. torque	Nm (2)	2.34	2.34	2.35	2.35	1.88	2.3	1.79	1.46	1	0.76	0.57	0.28	
OUTPUT														
Rated torque	Nm	7.2	7.2	9	9.5	14	16	17	17	17.9	16.7	17.9	17	
Accel. torque	Nm (2)	9	9	11	15.8	18	33	32	32.9	32.7	33	35.9	25.5	
GENERAL C	HARAC1	TERIS	TICS											
Inertia	Kgm ² x10 ^{-5 (3)}	4.3	3.5	3.27	3.04	2.93	3.2	3	3.16	3	2.9	2.9	2.9	
Max. backlash	arc-min.						15 or 5							
Efficiency	% (4)			96			91							
Expected life time	Hours						20 000							
Weight	Kg			3						4				
Radial load	N ⁽⁵⁾						750							
Axial load	N						30	00						

¹⁾ Other ratios are possible, do not hesitate to contact us

NOTE: Emergency stop torque is 2.5 times rated output torque for 1000 times max during the life of the gearhead.



^{*}Depends upon ratio and motor / Product range can be subject to changes without notice

²⁾ S5 duty service

³⁾ On the motorside

⁴⁾ Gear efficiency at rated torque

⁵⁾ Load applied in the middle of the ouput shaft at 300rpm

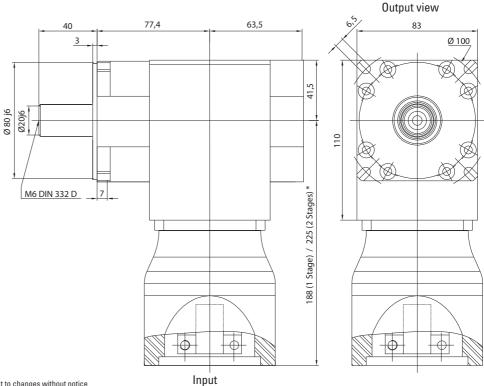
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Technical characteristics

Number of	1 - Stage						2 · Stages							
Ratio (1)		3	4	5	7	10	16	20	25	35	40	50	70	100
INPUT														
Rated / max speed	rpm		3 500 / 6 000 (consult us if you require higher input speed)											
Rated power	Kw	9.2	9.2	7.4	3.8	2.2	2.5	1.9	1.6	1.2	0.9	0.8	0.5	0.2
Rated torque	Nm	22.1	22.1	17.7	9	5.2	5.9	4.7	3.7	2.7	2.4	1.9	1.1	0.5
Accel. torque	Nm (2)	29	29	19	11	6	9	7	6	4	3.5	2.8	1.6	0.9
OUTPUT														
Rated torque	Nm	66	85	85	61	50	86	85	85	86	86	86	70	50
Accel. torque	Nm (2)	83	110	90	70	58	125	127	130	134	127	127	100	80
GENERAL C	HARACI	TERIS	TICS											
Inertia	Kgm ² x10 ^{-5 (3)}	13.6	10.86	9.81	9.13	8.73	10.24	10.18	9.48	8.91	8.64	8.63	8.62	8.61
Max. backlash	arc-min.							10 or 5						
Efficiency	% (4)			96			91							
Expected life time	Hours							20 000						
Weight	Kg			8						1	0			
Radial load	N ⁽⁵⁾							1 600						
Axial load	N							650						

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³⁾ On the motorside
4) Gear efficiency at rated torque

⁵⁾ Load applied in the middle of the ouput shaft at 300rpm

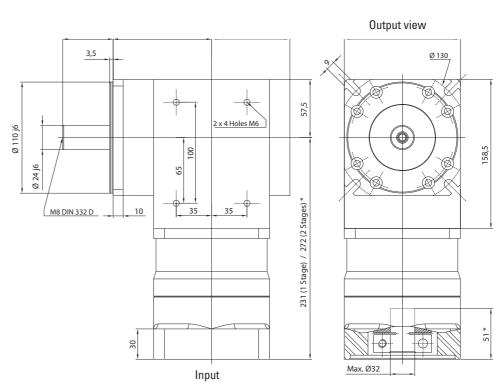
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Technical characteristics

Number of	1 - Stage						2 - Stages								
Ratio (1)		3 4 5 7 10					16	20	25	35	40	50	70	100	
INPUT															
Rated / max speed	rpm		3 000 / 6 000 (consult us if you require higher input speed)												
Rated power	Kw	31.4	31.4	22	12.6	6.3	8.3	6.7	5	3.8	2.5	2.1	1.7	1.4	
Rated torque	Nm	62	47	38	27	15	12	10	8	5	4	4	2	2	
Accel. torque	Nm (2)	86	65	52	29	20	17	13	11	7	7	6	4	3	
OUTPUT															
Rated torque	Nm	178	181	182	182	144	175	182	182	160	182	165	137	172	
Accel. torque	Nm (2)	250	250	250	195	195	250	250	250	250	250	250	250	250	
GENERAL C	HARAC1	ERIS	TICS												
Inertia	Kgm ² x10 ^{-5 (3)}	55.3	44.4	40.4	36.8	35.1	42.3	42	38.9	36	35	34.7	34.5	34.5	
Max. backlash	arc-min.							10 or 5							
Efficiency	% (4)			96			91								
Expected life time	Hours							20 000							
Weight	Kg			13						2	5				
Radial load	N ⁽⁵⁾							2 400							
Axial load	N							1 000							

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³⁾ On the motorside 4) Gear efficiency at rated torque

⁵⁾ Load applied in the middle of the ouput shaft at 300rpm

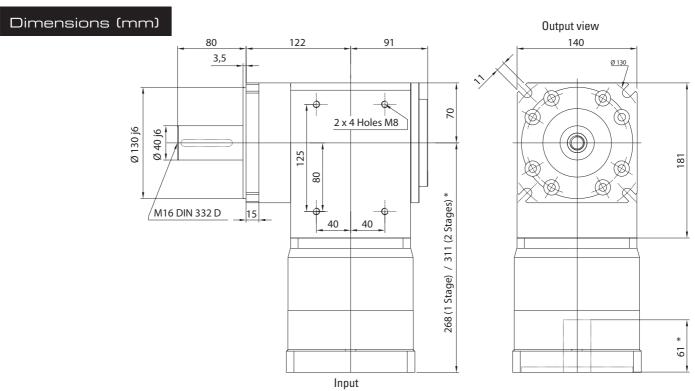
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Technical characteristics

Number of	1 - Stage						2 · Stages							
Ratio (1)		3	3 4 5 7 10				16	20	25	35	40	50	70	100
INPUT														
Rated / max speed	rpm		2 000 / 4 000 (consult us if you require higher input speed)											
Rated power	Kw	33	25	20	14	10	7	5	4	3	3	2	1	1
Rated torque	Nm	80	60	48	34	24	16	13	10	7	6	5	3	2
Accel. torque	Nm (2)	138	104	83	44	31	27	22	17	12	11	8	6	4
OUTPUT														
Rated torque	Nm	230	230	230	230	230	230	230	230	230	230	230	230	230
Accel. torque	Nm (2)	400	400	400	300	300	400	400	400	400	400	400	400	400
GENERAL C	HARAC1	reris	TICS											
Inertia	Kgm ² x10 ^{-5 (3)}	173	128	112	100	94	112	104	102	95	91	91	91	91
Max. backlash	arc-min.							10 or 5						
Efficiency	% (4)			96			91							
Expected life time	Hours							20 000						
Weight	Kg			20						3	0			
Radial load	N ⁽⁵⁾							6 000						
Axial load	N							3 000						

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 $^{^{2)}\,} S5$ duty service

³⁾ On the motorside
4) Gear efficiency at rated

⁴⁾ Gear efficiency at rated torque

⁵⁾ Load applied in the middle of the ouput shaft at 300rpm

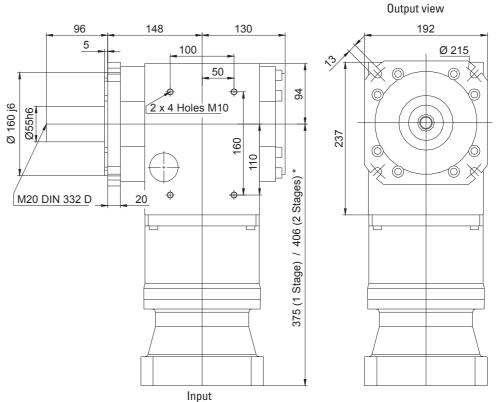
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Technical characteristics

Number of	1 - Stage						2 · Stages								
Ratio (1)		3 4 5 7 10					16	20	25	35	40	50	70	100	
INPUT															
Rated / max speed	rpm		2 000 / 4 000 (consult us if you require higher input speed)												
Rated power	Kw	51	38	31	22	15	10	8	7	5	4	3	3	2	
Rated torque	Nm	121	91	73	52	36	24	19	15	11	9	8	6	4	
Accel. torque	Nm (2)	139	104	83	59	41	27	22	18	13	11	9	7	5	
OUTPUT															
Rated torque	Nm	350	350	350	350	350	350	350	350	350	350	350	350	350	
Accel. torque	Nm (2)	600	600	600	600	600	600	600	600	600	600	600	600	600	
GENERAL C	HARACI	TERIS	TICS												
Inertia	Kgm ² x10 ^{-5 (3)}	422	262	207	162	138	226	223	182	148	132	132	132	131	
Max. backlash	arc-min.							10 or 5							
Efficiency	% (4)			96			91								
Expected life time	Hours							20 000							
Weight	Kg			60						9	0				
Radial load	N ⁽⁵⁾							9 000							
Axial load	N							5 000							

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²⁾ S5 duty service

³⁾ On the motorside
4) Gear efficiency at rated to

⁴⁾ Gear efficiency at rated torque

⁵⁾ Load applied in the middle of the ouput shaft at 300rpm