

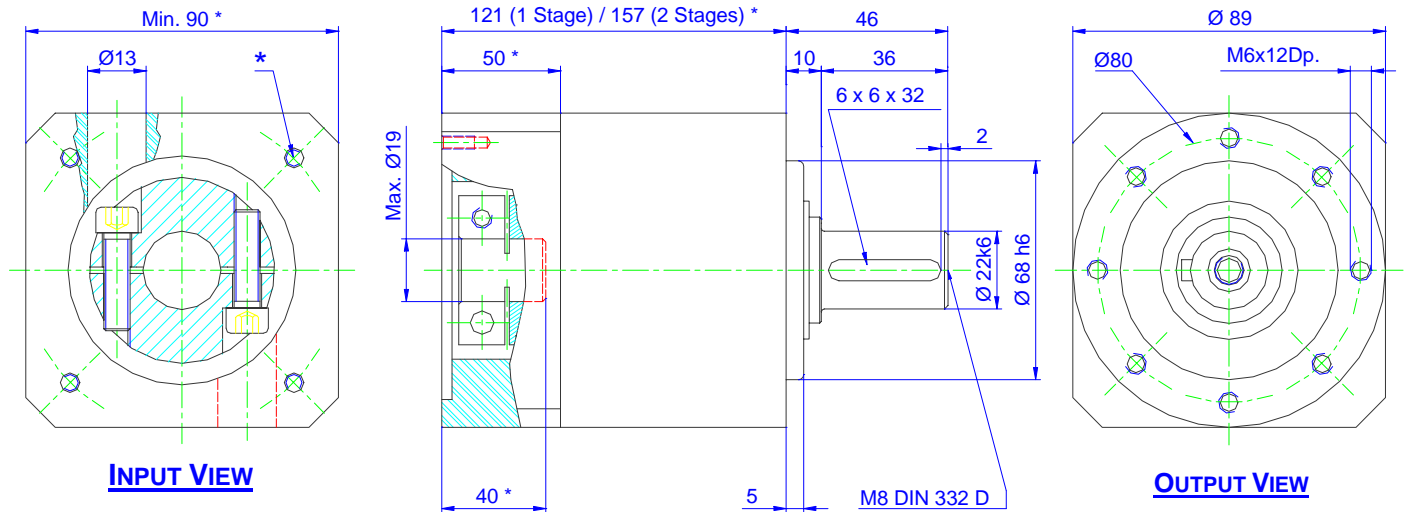
Characteristics

No. Of Stages Ratio ⁽¹⁾		1 - Stage					2 - Stages								
		3	4	5	7	10	16	20	25	35	40	50	70	100	
INPUT															
Rated speed / Max speed	rpm	3 500 / 6 000													
Rated Power	Kw	6,2	4,7	4	2,5	1,2	1,3	1	0,7	0,5	0,5	0,4	0,3	0,1	
Rated torque	Nm	17	13	11	7	3	3,5	2,8	1,8	1,5	1,3	1	0,6	0,3	
Accel torque.	Nm ⁽²⁾	28	21	17	11	7,5	5,5	4,5	3,5	2,5	2	2	1	0,8	
OUTPUT															
Rated Speed	rpm	1167	875	700	500	350	219	175	140	100	87,5	70	50	35	
Rated Torque	Nm	50	50	50	45	35	50	50	50	50	50	50	35	35	
Accel Torque	Nm ⁽²⁾	80	80	80	72	72	80	80	80	80	80	80	72	72	
GENERAL DATA															
Inertia	Kg-m ² x10 ⁻⁵ ⁽³⁾	5,2	5,2	5,1	4,8	4,6	5	5	5	4,7	4,7	4,5	4,3	4,3	
Max. backlash	arc-min.	10					12								
Efficiency	% ⁽⁴⁾	96					91								
Life time	H	15 000													
Weight	Kg	3					4								
Radial Load	N ⁽⁵⁾	2 500													
Axial Load	N	2 000													

- (1) Please enquire if a desired ratio is not shown.
 (2) S5 duty service.
 (3) On the motor side.
 (4) Theoretical gear efficiency value.
 (5) Load applied in the middle of the output shaft at 300 rpm.

NOTE-- Emergency Stop Torque is 2.5 times Rated Output Torque for 1000 times max during the service life of the gearhead.

Dimensions [mm]



M105 - 12/2001

* Depends on gear ratio and / or on the motor dimension

Specifications are subject to change without notice

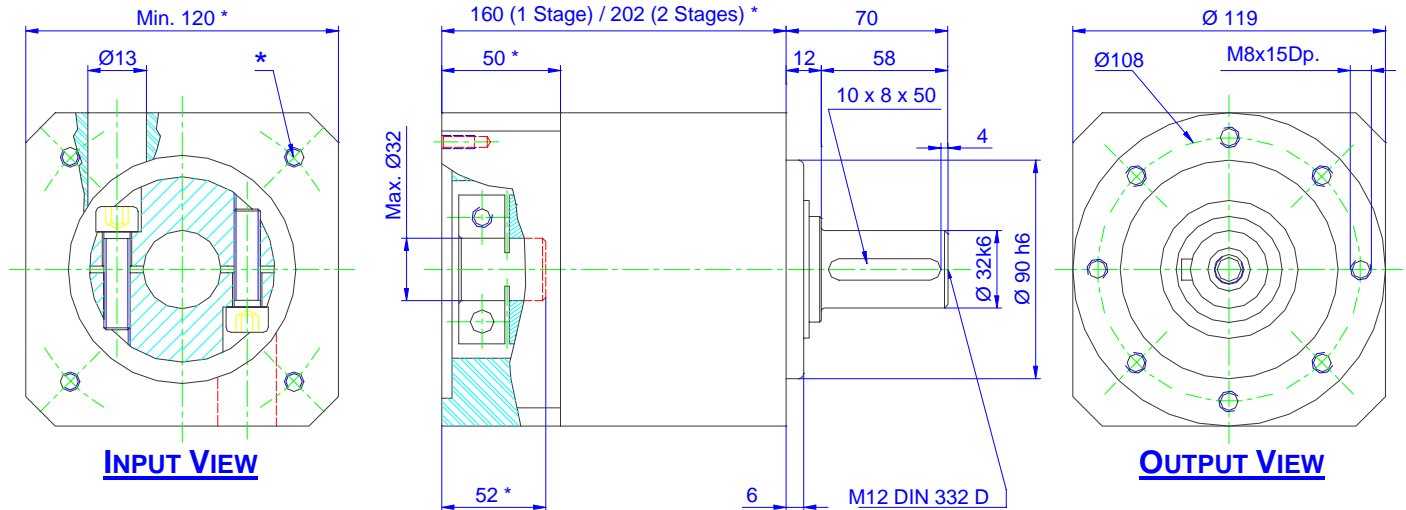
Characteristics

No. Of Stages Ratio ⁽¹⁾		1 - Stage					2 - Stages								
		3	4	5	7	10	16	20	25	35	40	50	70	100	
INPUT															
Rated speed / Max speed	rpm	3 000 / 5 000													
Rated Power	Kw	15	12	8,5	5	3	3	2,5	2	1,5	1	0,8	0,6	0,3	
Rated torque	Nm	54	42	30	18	9	11	9	7	5	4	3	2	1	
Accel torque	Nm ⁽²⁾	69	52	41	47	19	14	13	11	8	6	5	3	2	
OUTPUT															
Rated speed	rpm	1333	1000	800	571	400	250	200	160	114	100	80	57	57	
Rated torque	Nm	155	160	145	120	90	160	163	159	159	145	136	127	91	
Accel torque	Nm ⁽²⁾	200	200	200	180	180	205	235	250	255	215	225	180	180	
GENERAL DATA															
Inertia	Kg-m ² x10 ⁻⁵ ⁽³⁾	17,6	17,6	16,6	16,5	15,8	16,9	16,8	16,6	16,2	16,2	15,6	15,6	15,6	
Max. backlash	arc-min.	10					12								
Efficiency	% ⁽⁴⁾	96					91								
Life time	H	15 000													
Weight	Kg	7					9								
Radial Load	N ⁽⁵⁾	4 500													
Axial Load	N	4 000													

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NOTE-- Emergency Stop Torque is 2.5 times Rated Output Torque for 1000 times max during the service life of the gearhead.

Dimensions [mm]



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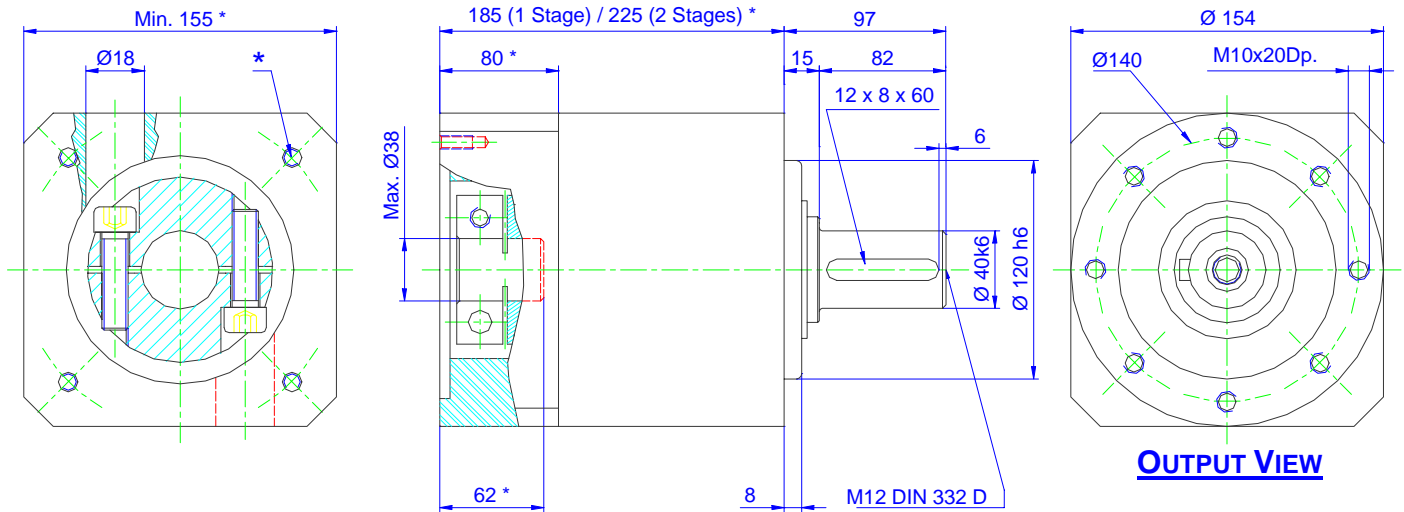
Characteristics

No. Of Stages Ratio ⁽¹⁾		1 - Stage					2 - Stages								
		3	4	5	7	10	16	20	25	35	40	50	70	100	
INPUT															
Rated speed / Max speed	rpm	2 000 / 3 500													
Rated Power	Kw	15	16	13	8	4	4	3,5	3	2	1,5	1,5	0,8	0,4	
Rated torque	Nm	73	76	61	38	18	20	16	13	9	7	6	4	2	
Accel torque	Nm ⁽²⁾	139	104	83	52	33	27	22	17	12	11	8	5	3	
OUTPUT															
Rated speed	rpm	666	500	400	285	200	125	100	80	57	50	40	28	20	
Rated torque	Nm	210	290	290	255	170	290	290	290	270	250	250	230	170	
Accel torque	Nm ⁽²⁾	400	400	400	350	320	400	400	400	400	400	400	320	320	
GENERAL DATA															
Inertia	Kg-m ² x10 ⁻⁵ ⁽³⁾	38	35	35	31	29	37	37	34	32	30	28	28	28	
Max. backlash	arc-min.	10					12								
Efficiency	% ⁽⁴⁾	96					91								
Life time	H	15 000													
Weight	Kg	10					15								
Radial Load	N ⁽⁵⁾	7 500													
Axial Load	N	6 000													

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 (2) S5 duty service.
 (3) On the motor side.
 (4) Theoretical gear efficiency value.
 (5) Load applied in the middle of the output shaft at 300 rpm.

NOTE-- Emergency Stop Torque is 2.5 times Rated Output Torque for 1000 times max during the service life of the gearhead.

Dimensions [mm]



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* Depends on gear ratio and / or on the motor dimension

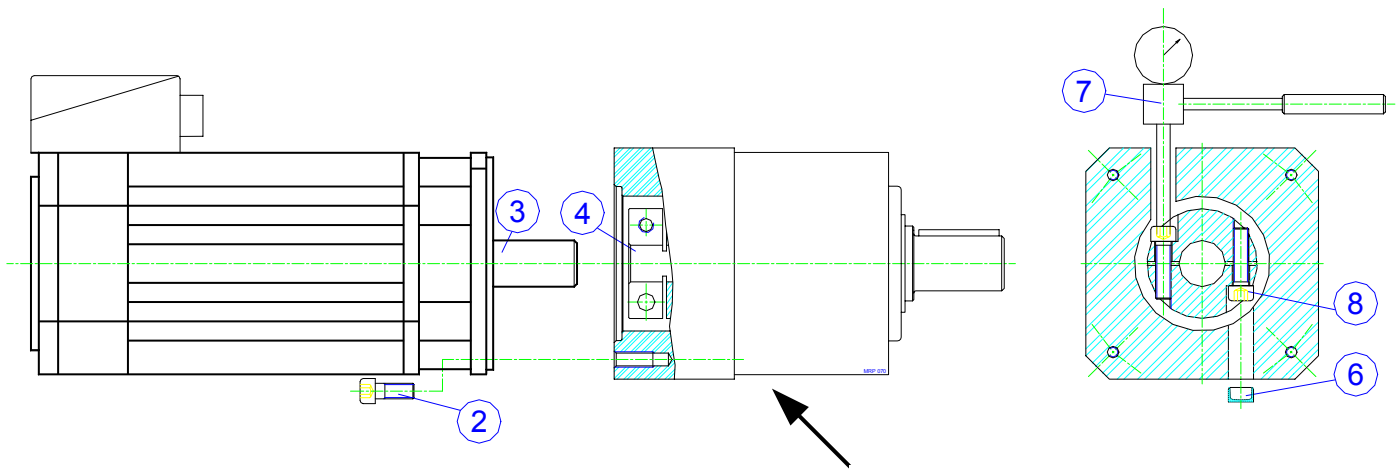
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ASSEMBLY INSTRUCTIONS: TYPE MRP (ALL SIZES)

1. Remove the two access hole plugs (6) from the gearhead adaptor flange to enable insertion of a long hexagonal wrench. See the drawing below showing item 7 connecting to item 8 for location of these access plugs. Next, manually rotate the input pinion to align the clamping screws (8) such that the hexagonal wrench can fit into the screw head sockets.
2. Degrease the motor shaft (3) and input pinion (4) bore with an appropriate solvent.
3. Slip the gearhead onto the motor shaft. **(See the helpful hint below).**
4. Fasten the gearhead to the motor using the 4 screws (2). Apply a low tightening torque for this initial fitting.
5. By means of a torque wrench (7) inserted in the flange access holes, tighten the 2 input pinion clamping screws (8) with a torque of:
 - 5 Nm for MRP 050 and 070.
 - 16 Nm for MRP 090.
 - 39 Nm for MRP 120 and 155.
6. Loosen the 4 screws (2) connecting the motor and the gearbox and then final-tighten them **(important for alignment).**
7. Insert the 2 plugs (6) into the radial flange holes.



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Do not remove or loosen these four screws. Gearbox lubrication will leak.

HELPFUL HINT : It may be easier to assemble with the motor and gearhead in a vertical position. A thick piece of wood with a hole for the gearhead output shaft can work well. Use caution to prevent the assembly from tipping on its side