



Helical Gear Reducers



MOTOVARIO®

HEART OF MOTION

Features



H-series gear units have been designed to be highly **reliable** even under heavy working conditions, and are particularly suited for applications involving **high radial loads**. The H-series includes a **large number** of extremely **versatile models**, available in cast iron from size 030 to size 140 and in aluminium from size A30 to size A60.



H - PH
Fitted for motor coupling -
Coupling with flexible
coupling



CH
With compact motor



IH
With input shaft

CAST IRON

Sizes:

030-040-050-060-080-100-125-140

- Casing with feet, flange F or universal U
- Gearing with 1, 2 and 3 reduction stages
- Gears hardened and tempered with shaved or ground profile
- Cases in G200 grey cast iron for high strength and optimized with FEM analysis
- Load capacity calculated to ISO 6336 and verified according to AGMA 2001
- Painted with RAL 5010 blue epoxy-polyester powder according to DIN 1843
- ATEX versions available 2GD/3GD
- Accessories: output flange, backstop device, reinforced output



HA
Fitted for motor coupling



CHA
With compact motor



IHA
With input shaft

ALUMINIUM

Sizes:

A30-A40-A50-A60

- Casing with feet, flange F or universal U
- Gearing with 1, 2 and 3 reduction stages
- Gears hardened and tempered with shaved or ground profile
- Cases in die-cast aluminium alloy
- Excellent mechanical strength while being and particularly lightweight
- Load capacity calculated to ISO 6336 and verified according to AGMA 2001
- Painted with RAL 5010 blue epoxy-polyester powder according to DIN 1843
- ATEX versions available 3GD

Cast Iron Versions



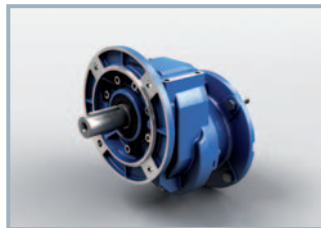
H... Single Stage

Foot mounting



H...F Single Stage

Flange mounting



H...M Single Stage

Foot mounting with low output shaft centre



H...U Single Stage

Foot/flange mounting



H... 2/3 Stages

Foot mounting



H...F 2/3 Stages

Flange mounting



H...U 2/3 Stages

Foot/flange mounting



Aluminium Versions



HA.. Single Stage

Foot mounting



HA..F Single Stage

Flange mounting



HA.. 2 Stages

Foot mounting



HA.. 3 Stages

Foot mounting



HA..F 2 Stages

Flange mounting



HA..F 3 Stages

Flange mounting



HA..U 2/3 Stages

Foot/flange mounting



Range



	*Ø [mm]	Output Torque M ₂ [Nm]	Ratio	
			Min	Max
H030	25	200	4,70	245,70
H040	19 - 30	300	1,44	282,10
H050	24 - 35	500	1,27	267,65
H060	28 - 40	850	1,34	268,00
H080	38 - 50	1.800	1,30	222,78
H100	48 - 60	3.600	1,29	242,59
H125	55 - 70	5.000	1,23	230,92
H140	90	8.000	5,27	206,08

* The diameter of the low speed shaft can change according to the number of stages of the gear reducer

- Power from 0,12 kW up to 45 kW with three phase 4 pole motors
- Reduction ratios between 1,23 and 282,10
- Torque max 8.000 Nm
- Admissible radial loads max 55.000 N



	*Ø [mm]	Output Torque M ₂ [Nm]	Ratio	
			Min	Max
HA30	11-14-16-19-19,7-20	100	2,55	347,29
HA40	16-19-24-25	155	1,45	347,29
HA50	24-30-35	300	1,45	353,98
HA60	28-30-40	500	1,33	353,98

* The diameter of the low speed shaft can change according to the number of stages of the gear reducer

- Power from 0,12 kW up to 4,8 kW with three phase 4 pole motors
- Reduction ratios between 1,33 e 353,98
- Torque max 500 Nm
- Admissible radial loads max 8.000 N

Worldwide

DP-H-EN/2013/REV.0



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