



Helical Gear Reducers

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
- Excellent mechanical strength, particularly suitable to support high axial loads and high reliability
- Load capacity calculated to ISO6336 and verified according to AGMA 2001
- Painted with RAL 5010 blue epoxy-polyester powder
- ATEX versions available 2GD/3GD
- Accessories: output flange, backstop device, reinforced seals on output shaft and viton seals



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 ISO6336 and verified according to AGMA 2001
- Painted with RAL 5010 blue epoxy-polyester powder
- ATEX versions available 3GD



	Ø [mm]	Output Torque M ₂ [Nm]	Ratio _(ω)	
		Max	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	28-35-40	850	1,34	268,00
H080	38-40-50	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

- Power from 0,12 kW up to 45 kw
- Reduction ratios between 1,23 and 282,10
- Nominal torque 8.000 Nm
- Admissible radial loads max 55.000 N

NEW

- Reinforced input flanges for big cast iron motors
- Increased torsional rigidity thanks to the new cast iron inspection cover
- Metal plate for aggressive environments
- Oil-free gearbox to allow the most suitable choice of lubricant for every application requirement

n ₂ (rpm)	Viscosity index	
	Mineral oil	Synthetic oil
	0 ÷ +40 [°C]	-10 ÷ +50 [°C]
> 210	150	150
210 ÷ 20	150	220
20 ÷ 5	220	320
< 5	320	460



	Ø [mm]	Output Torque M ₂ [Nm]	Ratio _(ω)	
		Max	Min	Max
HA30	11-14-16-19-19,7-20	100	5,38	347,29
HA40	16-19-20-22-24-25-28	150	1,45	347,29
HA50	24-25-28-30-32-35	300	1,45	353,98
HA60	24-28-30-35-40	480	1,33	353,98

- Power from 0,12 kW up to 4.8 kw
- Reduction ratios between 1,33 e 353,98
- Nominal torque 480 Nm
- Admissible radial loads max 8.000 N



CAST IRON VERSIONS



HR...SINGLE STAGE
Foot mounting



HR...F SINGLE STAGE
Flange mounting



HR...M SINGLE STAGE
Foot mounting with low output
shaft centre



HR...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

SALES NETWORK



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