

UNICASE HELICAL-WORM SERIES



Performance Specifications

Integral Motor kW: (min/max) 0.12 to 22.0

Integral Motor HP: (min/max) 0.16 to 30.0

Number of Gear Reductions: 2 and 3

Mounting Styles

Footed housing style:

- through holes as standard

B5 flange outside diameter range: [mm] 120 - 450

B5 flange outside diameter range: [in] 4.72 - 17.75

B14 flange bolt circle diameter range: [mm] 75 - 265

B14 flange bolt circle diameter range: [in] 2.95 - 10.43

Ratio and Speed

Minimum standard ratio: 5.37:1

Maximum standard ratio: 7095.12:1

Output speed (50Hz): 0.20 to 270.00

Output speed (60Hz): 0.25 to 326.00

Compound gear units possible

Options

IEC, NEMA or solid shaft input

B5 flanges with through holes

Hollow shaft options:

- Shrink disc
- GRIPMAXX™

Solid output shaft (single or double sided)

Torque Arm

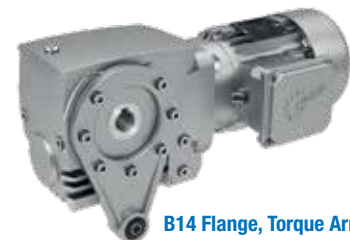
Type	Ratio Range	Input Power Range Max*		Torque Max*		Hollow Shaft		Solid Shaft	
		[kW]	[HP]	[Nm]	[lb-in]	[mm]	[in]	[mm]	[in]
SK 02040.1	5.37 – 330.00	1.10	1.50	100	885	20	0.750 1.000	20x40	0.750
SK 02050	7.13 – 3019.29	2.20	3.00	208	1 840	25, 30	1.000 1.1875 1.250	25x50	1.000
SK 12063 SK 13063	7.43 – 3631.55	2.20	3.00	380	3 360	30, 35	1.375 1.4375	30x60	1.250
SK 12080 SK 13080	7.55 – 3356.66	4.00	5.00	770	6 815	40, 45	1.4375 1.500 1.750 1.8125	30x70	1.375
SK 32100 SK 33100	7.19 – 5875.95	7.50	10.00	1 590	14 070	50, 60	2.000 2.375 2.4375	45x90	1.875
SK 42125 SK 43125	7.29 – 7095.12	22.00	30.00	3 058	27 065	60, 70	2.375 2.750 2.9375	60x120	2.375



**B14 Flange, Solid Shaft,
Integral Motor**

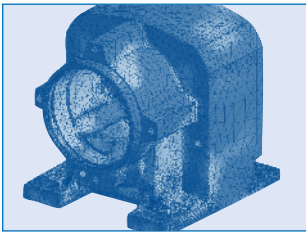


**B5 Flange, Hollow Shaft,
Integral Motor**



**B14 Flange, Torque Arm,
Hollow Shaft, Integral Motor**

UNICASE HELICAL-WORM SERIES



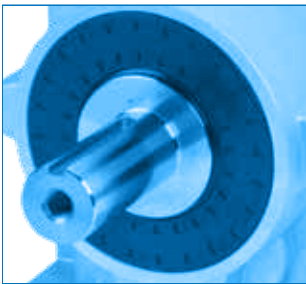
Housings

- One piece housing (UNICASE / BLOCK concept)
- Corrosion resistant aluminum alloy
- EN-GJL-HB 215 (Class 35) gray iron
- Precision machined - single setup
- Accurate bearing seats
- Precise alignment of shafts and gears



Gearing

- Up to AGMA Class 13 gear quality
- High quality hardening inhouse
- 275% momentary overload capacity
- Case-hardened steel
- 58 Rockwell C/720 HV typical gear hardness



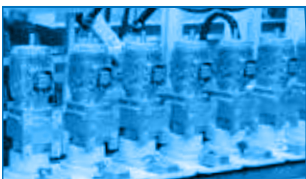
Shafts

- AISI 1015 or 4140 input & output shaft material
- Metric shaft key dimensions according to DIN 6885
- Inch shaft key dimensions according to AISI B17
- Standard output shaft drill & tap
- Fixing element and shrink disc optional
- Optional custom shaft designs and materials



Bearings

- ABEC1 / P0 quality bearings
- Oversized output bearings
- High radial and axial load capabilities
- Optional heavy-duty output ball bearings



Internal Parts Assembly

- Positive and non-positive torque transmission
- Standard reversing duty

Product Options

Motors

- Input power: 0.12 - 22 kW / 0.16 - 30.0 HP
- IEC adapter: IEC 63 - IEC 160
- NEMA adapter: 56C - 250TC
- Custom motor adapters & coupling diameters

Lubrication

- Factory filled ISO 680 synthetic oil
- Food grade & synthetic oil optional
- Drain plugs & inspection options

Sealing

- Nitrile rubber oil seals
- Flourinated rubber oil seals optional
- Double lip output seals
- Long term storage preparation

Environmental Protection

- Water based resin paints
- C1 to C5 paint options
- Severe/washdown options
- Shaft seal covers
- nsd tupH surface conversion

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