

## HELICAL IN-LINE

### PERFORMANCE SPECIFICATIONS

- configuration: concentric
- integral motor HP (min. / max.): 0.16 / 200
- integral motor kW (min. / max.): 0.12 / 160
- typical efficiency: 98.5%
- # of gear reductions: 1 to 6

### RATIO AND SPEED

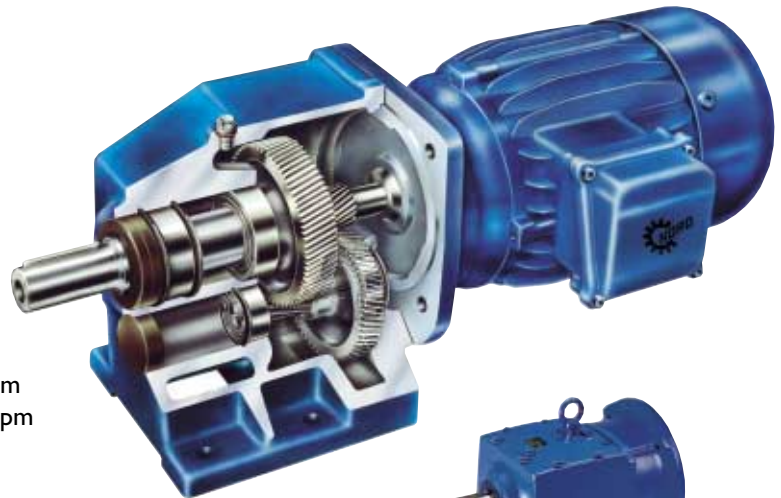
- minimum standard ratio: 1.24:1
- maximum standard ratio: 13304.45:1
- minimum output speed from 1750 rpm motor: 0.13 rpm
- maximum output speed from 1750 rpm motor: 1411 rpm

### MOUNTING STYLES

- footed housing style: standard
- B5 flange outside diameter range [in]: 4.72 to 21.65
- B5 flange outside diameter range [mm]: 120 to 550
- B14 flange outside diameter range [in]: 3.54 to 7.87
- B14 flange outside diameter range [mm]: 90 to 200

### OPTIONS

- custom adapter flange
- flange pilot removed



| Unit Size | Torque Max. |        | Ratio Range<br>min.-max. | Shaft Dia. |      |
|-----------|-------------|--------|--------------------------|------------|------|
|           | [lb-in]     | [Nm]   |                          | [in]       | [mm] |
| SK 02     | 876         | 99     | 2.95 - 73.06             | 0.750      | 20   |
| SK 03     | 974         | 110    | 65.50 - 313.11           |            | 20   |
| SK 11     | 513         | 58     | 1.35 - 9.11              | 1.000      | 25   |
| SK 12     | 1,628       | 184    | 2.96 - 72.63             |            | 25   |
| SK 13     | 1,717       | 194    | 68.40 - 420.83           | 1.250      | 30   |
| SK 21     | 681         | 77     | 1.46 - 10.20             |            | 30   |
| SK 22     | 3,310       | 374    | 2.79 - 86.30             | 1.625      | 40   |
| SK 23     | 3,009       | 340    | 64.80 - 516.65           |            | 40   |
| SK 31     | 1,637       | 185    | 1.33 - 10.20             | 1.375      | 35   |
| SK 32     | 6,284       | 710    | 2.96 - 81.27             |            | 35   |
| SK 33     | 5,947       | 672    | 88.18 - 740.37           | 1.875      | 45   |
| SK 41     | 2,567       | 290    | 1.41 - 14.80             |            | 45   |
| SK 42     | 11,009      | 1,244  | 3.02 - 105.08            | 1.625      | 40   |
| SK 43     | 11,497      | 1,299  | 40.98 - 1071.82          |            | 40   |
| SK 51     | 4,354       | 492    | 1.24 - 13.27             | 2.250      | 55   |
| SK 52     | 17,912      | 2,024  | 2.78 - 86.92             |            | 55   |
| SK 53     | 19,753      | 2,232  | 58.94 - 728.20           | 2.500      | 65   |
| SK 62     | 27,612      | 3,120  | 2.97 - 48.73             |            | 65   |
| SK 63     | 32,745      | 3,700  | 17.37 - 372.21           | 3.000      | 75   |
| SK 72     | 41,666      | 4,708  | 2.76 - 43.71             |            | 75   |
| SK 73     | 50,003      | 5,650  | 18.00 - 205.61           | 3.500      | 90   |
| SK 82     | 64,127      | 7,246  | 2.89 - 48.82             |            | 90   |
| SK 83     | 81,243      | 9,180  | 21.04 - 216.61           | 4.250      | 110  |
| SK 92     | 95,359      | 10,775 | 3.51 - 35.47             |            | 110  |
| SK 93     | 123,900     | 14,000 | 19.12 - 187.89           | 5.250      | 130  |
| SK 102    | 153,698     | 17,367 | 4.28 - 38.81             |            | 130  |
| SK 103    | 204,966     | 23,160 | 21.19 - 207.47           |            |      |

## SHAFT DATA

- input and output shaft material: ASI 1045 or 4140
- input and output shaft key dimensions [in]: according to ANSI B17
- input and output shaft key dimensions [mm]: according to DIN 747
- output shaft drill and tap: standard

### OPTIONS

- custom shaft diameters
- custom spline
- cross drilled holes
- 304 stainless steel

## MOTOR MOUNTING

- integral motor: 1/6 to 250 HP
- C-face adapter frame size range: 56C to 360TC
- IEC adapter (B5) frame size range: IEC 63 to IEC 315
- sugar scoop motor availability: 56 to 365T
- top mount platform motor availability: 56 to 405T

### OPTIONS

- custom motor adapter
- custom coupling diameter

## GEARING

- quality rating on gears: up to AGMA Class 13
- minimum hardness of steel gears: 58 Rockwell C
- hard finishing of gear teeth: grinding or skive hob
- drop forged gear blanks: standard
- momentary overload capacity: 275%
- hunting tooth ratios: standard

## HOUSING

- typical housing material: Class 35 gray iron
- machining method: single setup
- main housing design: UNICASE™ one piece
- seal carrier: direct to main housing
- housing torsional stiffness: exceptional
- housing wall section: thick
- casting sealing method: dip seal

## BEARINGS

- bearing quality: ABEC-1
- standard output bearing: ball or spherical
- heavy-duty output bearing: heavy-duty spherical

## LUBRICANT AND SEALING COMPONENTS

- factory filled lubricant type: ISO 220 mineral oil
- typical breather vent style: AUTOVENT
- output seal design: QUADRILIP™ Seal System
- output shaft oil seals: 1 double lip and 1 single lip
- oil seal lip material: nitrile rubber
- oil seal to housing gasket: nitrile rubber

### OPTIONS

- custom synthetic lubricating oil
- custom temperature lubricating oil
- fluid grease lubricant
- food grade lubricating oil
- long term storage preparation
- magnetic drain plug
- bullseye sight glass
- custom drain plug
- fluorinated rubber oil seal material
- custom oil seals

## INTERNAL PARTS ASSEMBLY

- assembly method: heavy press fit
- reversing duty: standard
- typical backlash range [arc minutes]: 10 to 17

## ENVIRONMENTAL PROTECTION

- exterior primer coverage: all metal exterior surfaces
- paint type: Water Based Resin
- paint additive: 316 stainless steel flakes
- USDA incidental contact exposure: H1

### OPTIONS

- NSD+ protection
- custom paint
- high pressure washdown IP66 oil seals: custom order
- shaft seal covers: custom order

## MECHANICAL VARIABLE SPEED COMPATIBILITY

- HP range with TITAN™ belt box: 0.33 to 150
- speed range with TITAN™ belt box: 8.9 to 1308
- HP range with NORDISC® traction drive: 0.25 to 7.5
- speed range with NORDISC® traction drive: 0.5 to 1621

## THE INTELLIGENT CHOICE

### NORD Gear Corporation

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