

PARALLEL HELICAL CLINCHER

PERFORMANCE SPECIFICATIONS

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Configuration : offset parallel
 Integral motor HP (min/ max) : 0.16 / 200
 Integral motor kW (min/ max) : 0.12 / 160
 Typical efficiency : 97%
 Number of gear reductions : 2 to 6

MOUNTING STYLES

Shaft mount housing style : standard
 Integral torque tab : standard
 B5 flange outside diameter range [in] : 5.51 to 25.98
 B5 flange outside diameter range [mm] : 140 to 660
 Footed housing style available
 B14 flange outside diameter range [in] : 3.94 to 17.72
 B14 flange outside diameter range [mm] : 100 to 450

OPTIONS

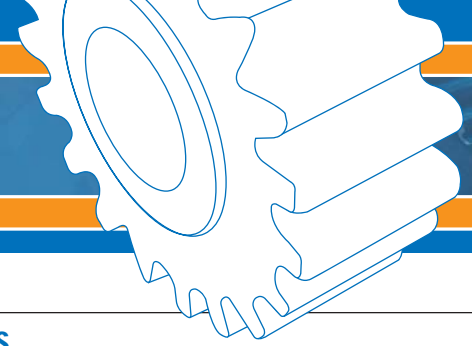
NEMA or IEC input
 Custom adapter flange
 Flange pilot removed
 Shock dampeners
 Effective drywell with flange



RATIO AND SPEED

Minimum standard ratio : 4.03:1
 Maximum standard ratio : 6616.79 (compound assembly)
 Minimum output speed from 1750 rpm motor : 0.26 rpm
 Maximum output speed from 1750 rpm motor : 434 rpm

| Unit Size | Torque Max. | | Ratio Range min.-max. | Keyed Hollow Shaft Dia. | | | | | Solid Shaft Dia. | | Shrink Disc Shaft Dia. | |
|------------|-------------|--------|--------------------------|-------------------------|-----------|-----------|-----------|------|------------------|------|------------------------|------|
| | [lb-in] | [Nm] | | Std-[in] | Opt.-[in] | Opt.-[in] | Opt.-[in] | [mm] | [in] | [mm] | [in] | [mm] |
| SK 0182 NB | 1,027 | 116 | 4.24 - 81.71 | 0.750 | 0.500 | - | - | 25 | 0.750 | 25 | - | - |
| SK 0282 NB | 1,460 | 165 | 4.03 - 139.16 | 1.000 | 1.1875 | 0.750 | - | 30 | 1.000 | 25 | 1.188 | 30 |
| SK 1282 | 2,620 | 296 | 4.79 - 109.50 | 1.188 | 1.250 | 1.000 | .0750 | 30 | 1.250 | 30 | 1.250 | 30 |
| SK 1382 NB | 3,275 | 370 | 16.28 - 381.45 | 1.375 | 1.4375 | 1.250 | - | 35 | 1.250 | 30 | 1.500 | 35 |
| SK 2282 | 4,983 | 563 | 4.51 - 127.51 | 1.438 | 1.500 | 1.375 | 1.250 | 35 | 1.375 | 35 | 1.500 | 35 |
| SK 2382 | 4,983 | 563 | 82.22 - 763.41 | 1.438 | 1.500 | 1.375 | 1.250 | 35 | 1.375 | 35 | 1.500 | 35 |
| SK 3282 | 8,983 | 1,015 | 4.48 - 112.23 | 1.625 | 1.500 | 1.438 | - | 40 | 1.875 | 45 | 1.625 | 40 |
| SK 3382 | 9,195 | 1,039 | 89.60 - 1022.42 | 1.625 | 1.500 | 1.438 | - | 40 | 1.875 | 45 | 1.625 | 40 |
| SK 4282 | 17,700 | 2,000 | 4.70 - 155.40 | 2.062 | 2.000 | 1.938 | 1.688 | 50 | 2.250 | 55 | 2.000 | 50 |
| SK 4382 | 18,381 | 2,077 | 66.68 - 1585.08 | 2.062 | 2.000 | 1.938 | 1.688 | 50 | 2.250 | 55 | 2.000 | 50 |
| SK 5282 | 28,630 | 3,235 | 4.32 - 134.03 | 2.438 | 2.375 | 2.188 | - | 60 | 2.500 | 65 | 2.500 | 60 |
| SK 5382 | 28,320 | 3,200 | 82.72 - 1367.08 | 2.438 | 2.375 | 2.188 | - | 60 | 2.500 | 65 | 2.500 | 60 |
| SK 6282 | 40,152 | 4,537 | 4.39 - 80.33 | 2.750 | 2.938 | 2.438 | - | 70 | 3.000 | 75 | 3.000 | 70 |
| SK 6382 | 53,100 | 6,000 | 24.42 - 551.58 | 2.750 | 2.938 | 2.438 | - | 70 | 3.000 | 75 | 3.000 | 70 |
| SK 7282 | 57,266 | 6,471 | 4.26 - 69.73 | 3.188 | 3.250 | 2.938 | - | 80 | 3.500 | 90 | 3.188 | 80 |
| SK 7382 | 73,455 | 8,300 | 23.46 - 338.79 | 3.188 | 3.250 | 2.938 | - | 80 | 3.500 | 90 | 3.188 | 80 |
| SK 8282 | 93,969 | 10,618 | 4.52 - 72.71 | 4.062 | 4.000 | 3.938 | 3.438 | 100 | 4.250 | 110 | 4.000 | 100 |
| SK 8382 | 116,820 | 13,200 | 30.92 - 386.68 | 4.062 | 4.000 | 3.938 | 3.438 | 100 | 4.250 | 110 | 4.000 | 100 |
| SK 9282 | 158,681 | 17,930 | 5.34 - 34.38 | 4.750 | 4.938 | 4.438 | - | 120 | 5.250 | 140 | 4.750 | 125 |
| SK 9382 | 224,790 | 25,400 | 35.61 - 352.36 | 4.750 | 4.938 | 4.438 | - | 120 | 5.250 | 140 | 4.750 | 125 |
| SK 10282 | 283,200 | 32,000 | 5.20 - 18.24 | - | - | - | - | 160 | 6.250 | 160 | 6.250 | 160 |
| SK 10382 | 329,220 | 37,200 | 21.00 - 357.40 | - | - | - | - | 160 | 6.250 | 160 | 6.250 | 160 |
| SK 11282 | 371,700 | 42,000 | 7.67 - 34.85 | - | - | - | - | 180 | 7.000 | 180 | 7.000 | 180 |
| SK 11382 | 610,650 | 69,000 | 31.96 - 224.76 | - | - | - | - | 180 | 7.000 | 180 | 7.000 | 180 |
| SK 12382 | 796,500 | 90,000 | 69.12 - 201.75 | - | - | - | - | 180 | 7.000 | 180 | 7.000 | 180 |



SHAFT DATA

- AISI 1045 or 4140 input and output shaft material
- Input and output shaft key dimensions are according to AISI B17 [in]
- Input and output shaft key dimensions are according to DIN 747 [mm]
- Standard output shaft drill and tap
- 2 hollow shaft keys
- Shrink disc size range [in] : 1.188 to 7.000
- Shrink disc size range [mm] : 30 to 180
- Minimum gripping safety factor range [h6 fit] : 2.2 to 5.9

SHAFT DATA OPTIONS

Double solid output shaft, Shaft fixing element, Custom shaft diameters, Hollow spline per DIN 5480, Custom spline, Cross drilled holes, 304 stainless steel

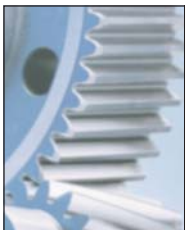


MOTOR MOUNTING

- 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

MOTOR MOUNTING OPTIONS

Custom motor adapter, Custom coupling diameter



GEARING

- Up to AGMA Class 13 gear quality rating
- 58 Rockwell C minimum gear hardness
- Ground or skive hobbed hard gear teeth finishing
- Standard drop forged gear blanks
- 275% momentary overload capacity
- Standard hunting tooth ratios



HOUSING

- Class 35 gray iron housing material
- Single setup machining method
- UNICASE™ one piece housing design
- Seals directly contact main housing
- Exceptional housing torsional stiffness
- Thick housing wall section
- Castings are dip sealed



BEARINGS

- ABEC-1 quality bearings
- Standard output ball bearings
- Tapered or spherical heavy-duty output bearings



LUBRICANT & SEALING COMPONENTS

- Factory filled ISO 220 mineral oil
- Standard AUTOVENT™ breather style
- QUADRILIP™ output seal design
- 1 double lip & 1 single lip output shaft oil seals
- Nitrile rubber oil seals

LUBRICANT & SEALING OPTIONS

Custom synthetic lubricating oil, Custom temperature lubricating oil, Fluid grease lubricant, Food grade lubricating oil, Long term storage preparation, Magnetic drain plug, Bulls eye sight glass, Custom drain plug, Fluorinated rubber oil seal material, Custom oil seals



INTERNAL PARTS ASSEMBLY

- Heavy press fit assembly method
- Standard reversing duty
- Typical backlash range [arc minutes] : 6 to 11

INTERNAL PARTS ASSEMBLY OPTIONS

Internal backstop



ENVIRONMENTAL PROTECTION

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

ENVIRONMENTAL OPTIONS

NSD+ protection, Custom paint, Shaft seal covers, High pressure washdown IP66 oil seals

