

GBPH-180x-NP Series



FEATURES

- Backlash as low as 5 arc-min
- Gear ratios from 3 to 100
- Available in 1 and 2 stage models
- Patented precision clamping system
- Lifetime lubrication
- High Durability



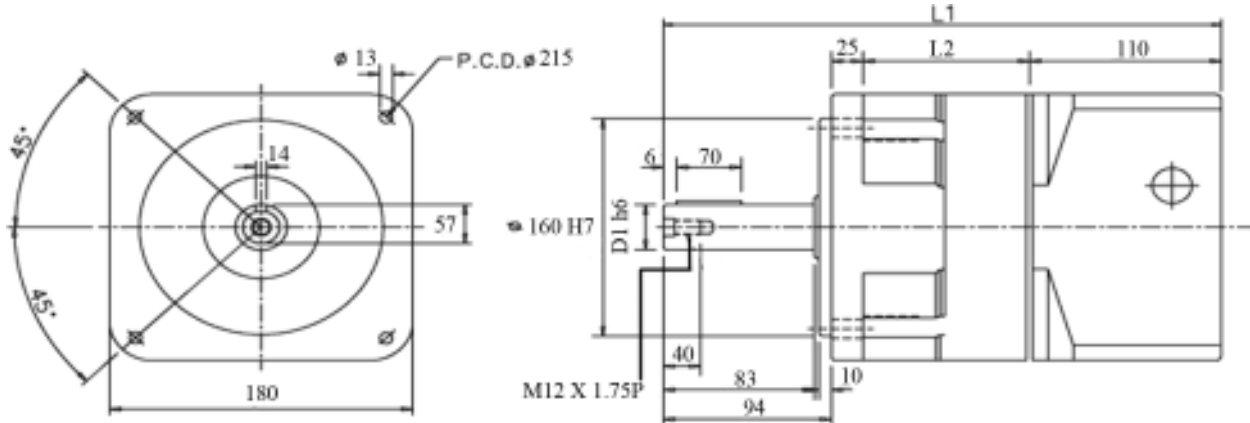
DESCRIPTION

The GBPH-180-NP Series Planetary Gearbox offers you the precision you need at the prices you want! This Planetary Gearbox is designed with very low backlash for motion control, automation, and robotic applications requiring precise position requirements. This Planetary Gearbox will match your servo or stepping motor and is ideal for 170 - 200mm motors. Built with the design goal of offering a cost effective product without sacrificing quality, you will find that this Planetary Gearbox offers you an extraordinary value.

SPECIFICATIONS

Model #	Gear Ratio (X:1)	Rated Output Torque (oz-in)	Max. Output Torque (oz-in)	Maximum Input Speed (RPM)	Stages	Backlash Maximum (arcmin)	L1 Length (mm)	L2 Length (mm)	D1 Diameter (mm)	Weight (lbs)
GBPH-1801-NP-003-xxxx-yyy	3	167810	503430	2000	1	5	319	90	50	79
GBPH-1801-NP-004-xxxx-yyy	4	167810	503430	2000	1	5	319	90	50	79
GBPH-1801-NP-005-xxxx-yyy	5	167810	503430	2000	1	5	319	90	50	79
GBPH-1801-NP-007-xxxx-yyy	7	167810	503430	2000	1	5	319	90	50	79
GBPH-1801-NP-010-xxxx-yyy	10	167810	503430	2000	1	5	319	90	50	79
GBPH-1802-NP-009-xxxx-yyy	9	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-012-xxxx-yyy	12	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-015-xxxx-yyy	15	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-016-xxxx-yyy	16	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-020-xxxx-yyy	20	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-021-xxxx-yyy	21	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-025-xxxx-yyy	25	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-028-xxxx-yyy	28	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-030-xxxx-yyy	30	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-035-xxxx-yyy	35	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-040-xxxx-yyy	40	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-049-xxxx-yyy	49	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-050-xxxx-yyy	50	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-070-xxxx-yyy	70	167810	503430	3000	2	10	401	172	55	100
GBPH-1802-NP-100-xxxx-yyy	100	167810	503430	3000	2	10	401	172	55	100

* xxxx denotes motor matched, yyy denotes input shaft diameter, see "Matching the Gearbox to Your Motor" on the next page. L010487



*All units are in mm

Radial Load:	4946 lbs - Force	Axial Load:	4496 lbs - Force
Operating Temperature:	14° to 194° F	Noise Level:	64 dB
Efficiency:	92%	IP Rating:	IP65
Locking Torque:	5664.47 oz-in.		

Matching the Gearbox to Your Motor

There are a few details that you need to consider before purchasing a gearbox. The gearbox must be manufactured to match the motor's bolt hole circle, pilot diameter, shaft diameter, and shaft length. This is handled by a code in the last two sections of the part number. For instance, in the part number GBPH-1801-NP-003-xxxxx-yyy, the "xxxxx" is for an specific motor pilot and shaft length. The "yyy" is for the shaft diameter of yyy". Contact the factory for the complete part number for your motor.

Parameter	Range
Input Shaft Diameter	48mm to 55mm
Input Shaft Length	95mm max
Pilot	95mm to 166mm
Bolt Hole Circle	115mm to 145mm

DIMENSION

SPECIFICATIONS