

- **Compatible with NEMA 42 Motors**
- **Backlash as Low as 8 arc-min**
- **Thirteen Gear Ratios From 3 to 64**
- **Patented Precision Clamping System**
- **Lifetime Lubrication**
- **High Durability**
- **30,000 Hours Design Life**
- **96% Efficient**



The GBPN-110x-FS Series Planetary Gearbox offers you the precision you need at the prices you want! This Planetary Gearbox is designed with the highest torque density possible for motion control, automation, and robotic applications requiring a compact solution. This planetary gearbox series is an ideal match for the NEMA 42 frame size as well as your servo, stepper, brushless, AC or DC 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. You will find online prices on this website along with all the information you need to know to select the perfect Planetary Gearbox for your applications.

Model #	Gear Ratio (X:1)	Rated Output Torque (oz-in)	Max Output Torque (oz-in)	Rated Input Speed (RPM)	Max Input Speed (RPM)	Stages	Backlash Maximum (arcmin)	L2 Length (mm)	Weight (lbs)
GBPN-1101-FS-003-xxxx-yyy	3	16288	26054	4000	6500	1	8	78	15.4
GBPN-1101-FS-004-xxxx-yyy	4	21952	35117	4000	6500	1	8	78	15.4
GBPN-1101-FS-005-xxxx-yyy	5	27616	44179	4000	6500	1	8	78	15.4
GBPN-1101-FS-008-xxxx-yyy	8	16992	27187	4000	6500	1	8	78	15.4
GBPN-1102-FS-009-xxxx-yyy	9	33984	54374	4000	6500	2	12	105	19.8
GBPN-1102-FS-012-xxxx-yyy	12	36816	58906	4000	6500	2	12	105	19.8
GBPN-1102-FS-015-xxxx-yyy	15	32560	52108	4000	6500	2	12	105	19.8
GBPN-1102-FS-016-xxxx-yyy	16	36816	58906	4000	6500	2	12	105	19.8
GBPN-1102-FS-020-xxxx-yyy	20	36816	58906	4000	6500	2	12	105	19.8
GBPN-1102-FS-025-xxxx-yyy	25	32560	52109	4000	6500	2	12	105	19.8
GBPN-1102-FS-032-xxxx-yyy	32	36186	58906	4000	6500	2	12	105	19.8
GBPN-1102-FS-040-xxxx-yyy	40	32560	52108	4000	6500	2	12	105	19.8
GBPN-1102-FS-064-xxxx-yyy	64	16992	27187	4000	6500	2	12	105	19.8

Part numbers are based on the specifications of the motor being matched to the gearbox.

-xxxx denotes motor pilot, -yyy denotes input shaft diameter.

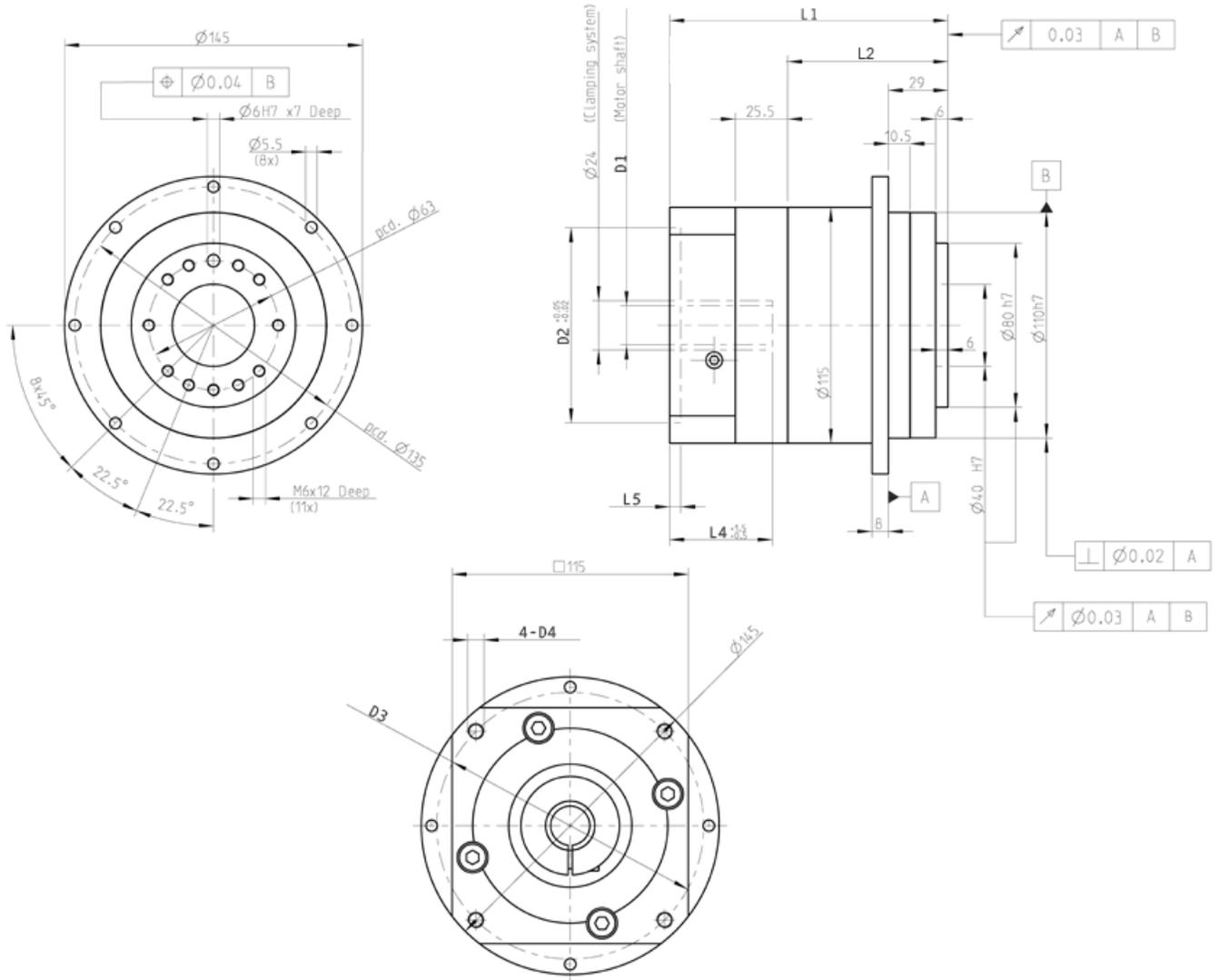
Refer to *Matching the Gearbox to Your Motor* on the second page for more information, or contact an Anaheim Automation Applications Engineer for assistance.

Radial Load:	540 lbs - Force	Axial Load:	473 lbs - Force
Operating Temperature:	-13° C - 194°F	Iso Output:	9409
Efficiency:	94-96%	IP Rating:	IP 54/55
Lubrication:	Synthetic Grease Kluberplex BEM 34-132"	Noise Level:	60 dBA

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 GBPN-0901-FS-003-AA341-500, the "AA341" is for an Anaheim Automation NEMA 23 Motor pilot and the shaft length. The "250" is for the shaft diameter of 0.250". For non-standard requirements, contact Anaheim Automation, Inc.

Parameter	Range	Typical
Input Shaft Diameter	13mm to 19mm	"500" - 12.7mm shaft diameter
Input Shaft Length	40mm max	"AA341" - 31.75mm
Pilot	50mm to 80mm	"AA341" - 73.02mm
Bolt Hole Circle	70mm to 100mm	"AA341" - 98.42mm



ITEM	DESCRIPTION	MOTOR INTERFACE		
		AA421-750	BLK42-748	EM130-866
D1	Input Shaft Diameter	19.05	19.05	22
L4	Max Shaft Length	56	50	55
D2	Pilot Diameter	56	95	110
L5	Pilot Depth	4.65	5.4	10.4
D3	Mounting Bolt Hole Circle	125.8	130	145
D4	Bolt Hole Size	M8x20	M8x20	M8x20
L1	Overall Length (1-Stage)	140.5	134.5	139.5
L1	Overall Length (2-Stage)	168.5	162.5	167.5

***1-Stage Models:** Gear Ratios 3-8

***2-Stage Models:** Gear Ratios 9-64