

PN SERIES: PARAGON™ PLANETARY GEARHEADS

SINGLE AND DOUBLE STAGE PRECISION GEARHEADS

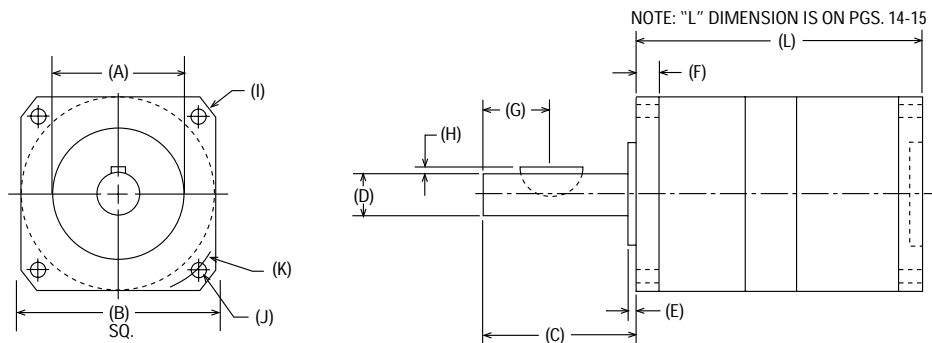
CONSTRUCTION FEATURES

- True planetary design
- Low backlash design
- Input pinion with balanced clamp collar
- Quick installation
- Strong, caged roller bearings
- Sealed ball bearings
- High efficiency design
- All gears are heat treated
- NEMA mounting standards
- 2 year warranty



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SINGLE, DOUBLE, TRIPLE STAGE PRECISION GEARHEADS



PART NUMBER	A PILOT DIAMETER (in.)	B SQUARE FLANGE (in.)	C SHAFT LENGTH (in.)	D SHAFT DIAMETER (in.)	E PILOT LENGTH (in.)	F FLANGE THICKNESS (in.)	G KEY LOCATION (in.)
017PNX	.864/.866	1.65	1.25	.4995/.5000	0.062	0.187	0.56
023PNX	1.498/1.500	2.25	1.25	.4995/.5000	0.062	0.250	0.56
034PNX	2.873/2.875	3.25	1.50	.7495/.7500	0.062	0.375	0.56
042PNX	2.185/2.187	4.20	2.00	.9995/1.0000	0.062	0.500	0.63
056PNX	4.498/4.500	5.75	2.50	1.4995/1.5000	0.125	0.750	0.94
075PNX	5.998/6.000	7.48	3.50	1.9995/2.0000	0.187	0.875	3.00 Lg

PART NUMBER	H KEY HEIGHT (in.)	I HOUSING DIAMETER (in.)	J BOLT HOLE DIAMETER (in.)	K BOLT HOLE CIRCLE (in.)	KEY WIDTH/ WOODRUFF KEY (in.)	RADIAL & AXIAL SHAFT LOADING (LBS.)
017PNX	0.063	2.05	0.125	1.725	0.125 / #404	SEE PAGE 17
023PNX	0.063	2.95	0.205	2.625	0.125 / #404	
034PNX	0.094	4.38	0.220	3.875	0.187 / #606	
042PNX	0.125	5.51	0.280	4.950	0.250 / #808	
056PNX	0.187	7.87	0.410	7.000	0.375 / #1212	
075PNX	0.157	9.64	0.560	8.465	3/8" x 5/8" RECT.	

AVAILABLE RATIOS	EFFICIENCY	SPECIFICATIONS
SINGLE STAGE : 3:1 / 4:1 / 5.5:1 / 7:1 / 10:1	90%	Input RPM: 5000 Max.
DOUBLE STAGE: 16:1 / 22:1 / 28:1 / 40:1 / 49:1 / 55:1 / 70:1 / 100:1	85%	Operating Temperature Range -60°F to +255°F Motor Mounting Hardware Supplied

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ALL SPECIFICATIONS SUBJECT TO CHANGE.



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SINGLE, DOUBLE STAGE

MODEL	RATIO	TORQUE RATING		INERTIA		BACKLASH	GEARHEAD	L
		T _c IN LBS.	T _{PEAK} IN LBS.	INPUT PINION OZ IN SEC ²	GEARHEAD OZ IN SEC ²	STD/ LOW ARC MINUTES	WEIGHT LBS.	GEARHEAD LENGTH
017PNX	3:1	125	174	2.163E-04	1.669E-04	10 / 7	1.0	2.66
017PNX	4:1	119	165	1.352E-04	1.053E-04	10 / 7	1.0	2.66
017PNX	5.5:1	107	149	1.174E-04	5.870E-05	10 / 7	1.0	2.66
017PNX	7:1	89	124	1.143E-04	3.692E-05	10 / 7	1.0	2.66
017PNX	10:1	56	84	1.132E-04	1.833E-05	10 / 7	1.0	2.66
017PNX	16:1	127	176	1.352E-04	1.045E-04	14 / 9	1.6	3.32
017PNX	22:1	128	178	1.174E-04	5.830E-05	14 / 9	1.6	3.32
017PNX	28:1	129	179	1.143E-04	3.667E-05	14 / 9	1.6	3.32
017PNX	40:1	131	181	1.132E-04	1.821E-05	14 / 9	1.6	3.32
017PNX	49:1	95	132	1.143E-04	3.479E-05	14 / 9	1.6	3.32
017PNX	55:1	117	162	1.132E-04	1.755E-05	14 / 9	1.6	3.32
017PNX	70:1	96	134	1.132E-04	1.729E-05	14 / 9	1.6	3.32
017PNX	100:1	52	77	1.132E-04	1.708E-05	14 / 9	1.6	3.32
023PNX	3:1	285	396	1.194E-03	4.866E-04	10 / 7	2.0	3.06
023PNX	4:1	264	366	9.502E-04	3.113E-04	10 / 7	2.0	3.06
023PNX	5.5:1	238	330	8.969E-04	1.746E-04	10 / 7	2.0	3.06
023PNX	7:1	197	274	8.880E-04	1.100E-04	10 / 7	2.0	3.06
023PNX	10:1	119	179	8.846E-04	5.471E-05	10 / 7	2.0	3.06
023PNX	16:1	282	391	9.502E-04	3.287E-04	14 / 9	3.0	3.97
023PNX	22:1	285	396	8.969E-04	1.838E-04	14 / 9	3.0	3.97
023PNX	28:1	288	400	8.880E-04	1.157E-04	14 / 9	3.0	3.97
023PNX	40:1	291	405	8.846E-04	5.749E-05	14 / 9	3.0	3.97
023PNX	49:1	213	295	8.880E-04	1.098E-04	14 / 9	3.0	3.97
023PNX	55:1	260	362	8.846E-04	5.543E-05	14 / 9	3.0	3.97
023PNX	70:1	215	298	8.846E-04	5.460E-05	14 / 9	3.0	3.97
023PNX	100:1	110	164	8.846E-04	5.393E-05	14 / 9	3.0	3.97
034PNX	3:1	964	1339	4.901E-03	4.672E-03	10 / 7	7.0	4.56
034PNX	4:1	914	1270	2.522E-03	2.833E-03	10 / 7	7.0	4.56
034PNX	5.5:1	835	1160	2.040E-03	1.585E-03	10 / 7	7.0	4.56
034PNX	7:1	701	934	1.955E-03	9.983E-04	10 / 7	7.0	4.56
034PNX	10:1	507	704	1.923E-03	4.961E-04	10 / 7	7.0	4.56
034PNX	16:1	986	1370	2.522E-03	2.824E-03	14 / 9	8.0	5.83
034PNX	22:1	1000	1389	2.040E-03	1.580E-03	14 / 9	8.0	5.83
034PNX	28:1	1009	1402	1.955E-03	9.952E-04	14 / 9	8.0	5.83
034PNX	40:1	1023	1421	1.923E-03	4.946E-04	14 / 9	8.0	5.83
034PNX	49:1	762	1058	1.955E-03	9.417E-04	14 / 9	8.0	5.83
034PNX	55:1	924	1283	1.923E-03	4.759E-04	14 / 9	8.0	5.83
034PNX	70:1	770	1070	1.923E-03	4.684E-04	14 / 9	8.0	5.83
034PNX	100:1	507	761	1.923E-03	4.623E-04	14 / 9	8.0	5.83

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SINGLE, DOUBLE STAGE

MODEL	RATIO	TORQUE RATING		INERTIA		BACKLASH	GEARHEAD	L
		T _c IN LBS.	T _{PEAK} IN LBS.	INPUT PINION OZ IN SEC ²	GEARHEAD OZ IN SEC ²	STD/ LOW ARC MINUTES	WEIGHT LBS.	GEARHEAD LENGTH
042PNX	3:1	1726	2398	1.680E-02	1.641E-02	10 / 7	12.0	5.20
042PNX	4:1	1646	2287	1.032E-02	1.049E-02	10 / 7	12.0	5.20
042PNX	5.5:1	1516	2106	8.997E-03	5.878E-03	10 / 7	12.0	5.20
042PNX	7:1	1283	1782	8.766E-03	3.704E-03	10 / 7	12.0	5.20
042PNX	10:1	936	1300	8.680E-03	1.841E-03	10 / 7	12.0	5.20
042PNX	16:1	1784	2478	1.032E-02	1.101E-02	14 / 9	18.0	6.80
042PNX	22:1	1810	2515	8.997E-03	6.156E-03	14 / 9	18.0	6.80
042PNX	28:1	1829	2540	8.766E-03	3.875E-03	14 / 9	18.0	6.80
042PNX	40:1	1855	2577	8.680E-03	1.925E-03	14 / 9	18.0	6.80
042PNX	49:1	1400	1945	8.766E-03	3.706E-03	14 / 9	18.0	6.80
042PNX	55:1	1688	2344	8.680E-03	1.866E-03	14 / 9	18.0	6.80
042PNX	70:1	1417	1969	8.680E-03	1.843E-03	14 / 9	18.0	6.80
042PNX	100:1	1024	1423	8.680E-03	1.823E-03	14 / 9	18.0	6.80
056PNX	3:1	3877	5385	5.794E-02	7.141E-02	10 / 7	28.0	8.16
056PNX	4:1	3710	5153	3.123E-02	4.524E-02	10 / 7	28.0	8.16
056PNX	5.5:1	3425	4758	2.564E-02	2.527E-02	10 / 7	28.0	8.16
056PNX	7:1	2916	4051	2.470E-02	1.590E-02	10 / 7	28.0	8.16
056PNX	10:1	2143	2977	2.435E-02	7.899E-03	10 / 7	28.0	8.16
056PNX	16:1	4047	5622	3.123E-02	4.702E-02	14 / 9	43.0	10.30
056PNX	22:1	4111	5711	2.564E-02	2.621E-02	14 / 9	43.0	10.30
056PNX	28:1	4157	5774	2.470E-02	1.648E-02	14 / 9	43.0	10.30
056PNX	40:1	4220	5862	2.435E-02	8.184E-03	14 / 9	43.0	10.30
056PNX	49:1	3204	4451	2.470E-02	1.576E-02	14 / 9	43.0	10.30
056PNX	55:1	3845	5341	2.435E-02	7.932E-03	14 / 9	43.0	10.30
056PNX	70:1	3246	4509	2.435E-02	7.830E-03	14 / 9	43.0	10.30
056PNX	100:1	2361	3279	2.435E-02	7.746E-03	14 / 9	43.0	10.30
075PNX	3:1	10005	36975	1.936E-01	2.930E-01	10 / 7	66.0	10.41
075PNX	4:1	9535	13245	6.554E-02	1.889E-01	10 / 7	66.0	10.41
075PNX	5.5:1	9574	13300	4.015E-02	1.062E-01	10 / 7	66.0	10.41
075PNX	7:1	8107	11261	3.574E-02	6.702E-02	10 / 7	66.0	10.41
075PNX	10:1	5959	8277	3.410E-02	3.335E-02	10 / 7	66.0	10.41
075PNX	16:1	11474	15938	6.554E-02	1.928E-01	14 / 9	105.0	13.29
075PNX	22:1	11671	161212	4.015E-02	1.083E-01	14 / 9	105.0	13.29
075PNX	28:1	11810	16405	3.574E-02	6.831E-02	14 / 9	105.0	13.29
075PNX	40:1	12005	16676	3.410E-02	3.398E-02	14 / 9	105.0	13.29
075PNX	49:1	8976	12469	3.574E-02	6.523E-02	14 / 9	105.0	13.29
075PNX	55:1	10848	15069	3.410E-02	3.291E-02	14 / 9	105.0	13.29
075PNX	70:1	9100	12641	3.410E-02	3.247E-02	14 / 9	105.0	13.29
075PNX	100:1	6447	9184	3.410E-02	3.212E-02	14 / 9	105.0	13.29

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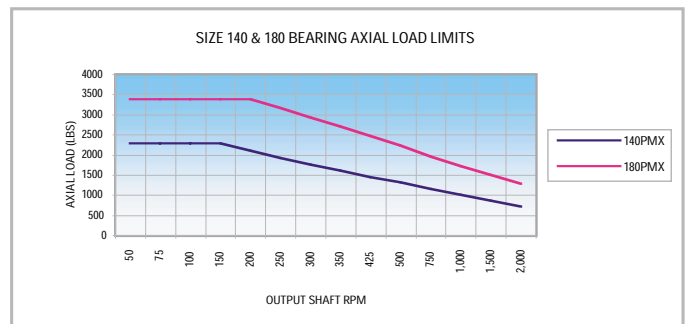
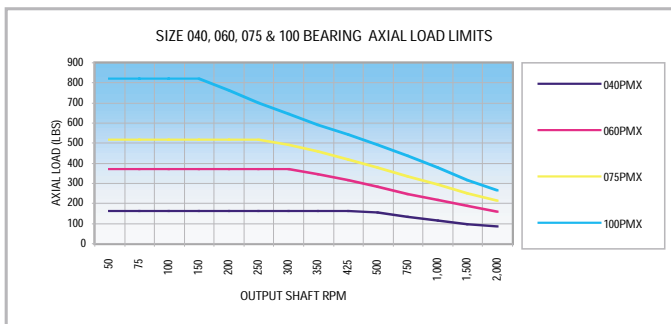
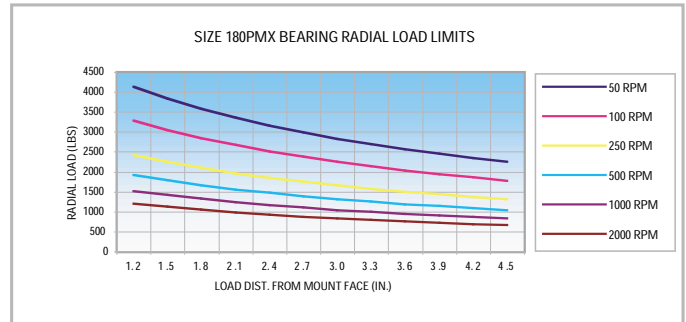
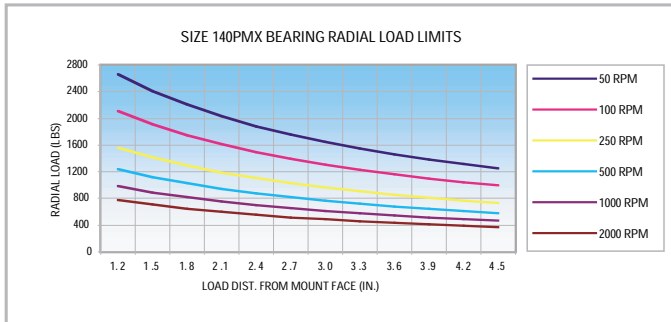
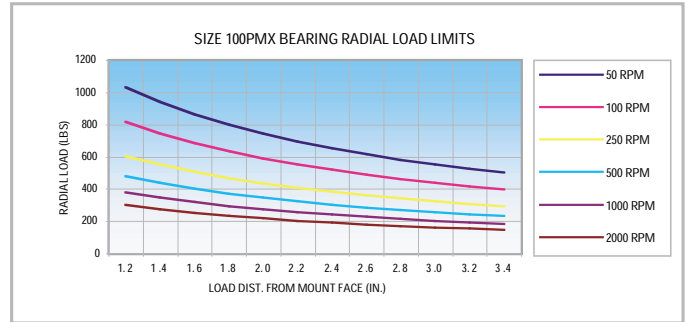
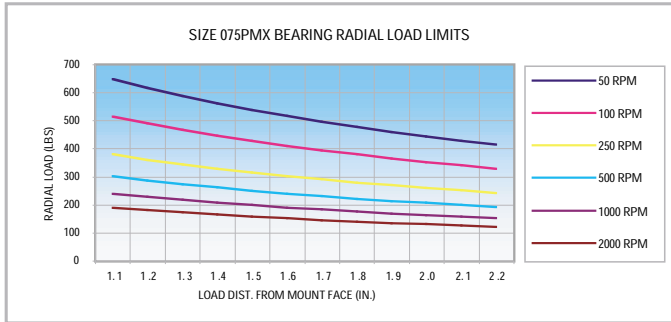
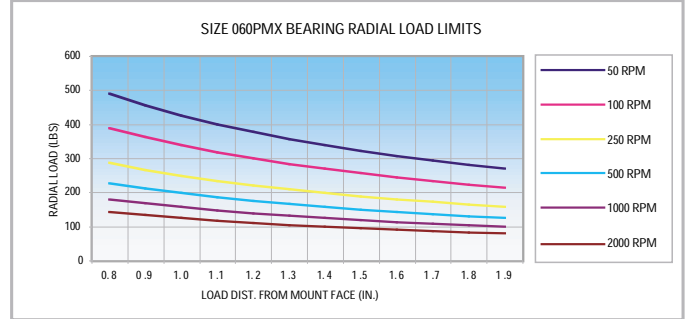
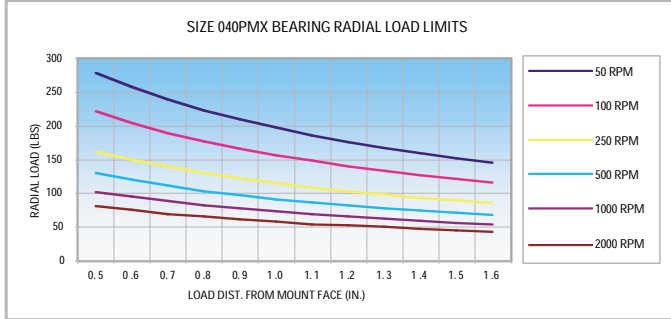
NOTES: Other ratios are also available, consult factory.
 T_c: Output torque is rated at 3000 RPM, and a minimum life of 10,000 hours.
 Bearing load ratings are based on a minimum life of 10,000 hours.



RADIAL & AXIAL LOAD SPECIFICATIONS

PRIMETRIC

These graphs display the allowable radial load (lbs.) at a given distance (in.) from the mount face based on an L₁₀ life of 20,000 hours.



RADIAL & AXIAL LOAD SPECIFICATIONS

PRIME & PARAGON

These graphs display the allowable radial load (lbs.) at a given distance (in.) from the mount face based on an L₁₀ life of 10,000 hours.

