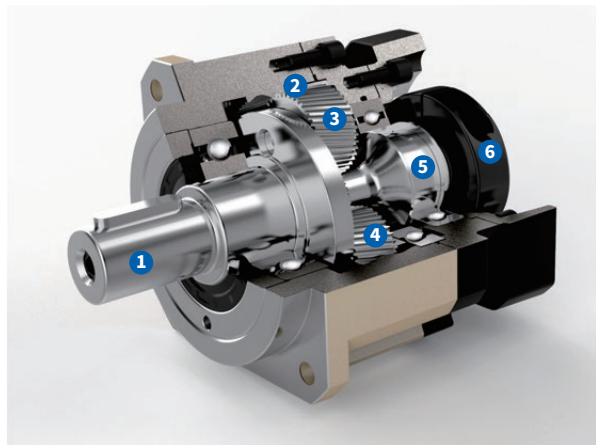


PRECISION PLANETARY GEARBOX

High Accuracy High Torque Low Backlash



Characteristics:

1



Integrated double-support structural design to ensure maximum torsional rigidity.

2



Helical gear design, twice tooth meshing rate than spur gears. with smooth operation, low noise, high output torque and low backlash.

3



Solid uncaged needle roller bearings, provides maximum contact points to increase stiffness and generates high output torque.

4



High-quality alloy steel and carbon and ammonia co-infiltration to obtain the best gear resistance and toughness.

5



Integrated sun gear and input shaft to ensure maximum torsional rigidity and zero backlash at high input speeds.

6



A collet-type locking mechanism and dynamic balance analysis to ensure the concentricity of the interface and power transmission with zero-backlash at high input speeds.

Features:

- Low noise
- High efficiency
- High output torque
- High rigidity
- Low backlash
- High input speed
- High stability
- Long service life

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PRECISION PLANETARY GEARBOX

ZHEJIANG SANKAI MECHANICAL AND ELECTRICAL CO., LTD
WWW.CHINASANKAI.COM

Parameters:

FAB Series



Available in 7 sizes		042, 060, 090, 115, 142, 180, 220
Rated output torque		14Nm—2000Nm
Ratio	Single stage	3, 4, 5, 6, 7, 8, 10
	Dual stages	12, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 100
Backlash	Single stage	P0 ≤1 arcmin; P1 ≤3 arcmin; P2 ≤5 arcmin
	Dual stages	P0 ≤3 arcmin; P1 ≤5 arcmin; P2 ≤7 arcmin

FAF Series



Available in 6 sizes		060, 075, 100, 140, 180, 220
Rated output torque		40Nm—2000Nm
Ratio	Single stage	3, 4, 5, 6, 7, 8, 10
	Dual stages	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 100
Backlash	Single stage	P0 ≤1 arcmin; P1 ≤3 arcmin; P2 ≤5 arcmin
	Dual stages	P0 ≤3 arcmin; P1 ≤5 arcmin; P2 ≤7 arcmin

FE Series



Available in 6 sizes		070, 090, 120, 155, 205, 235
Rated output torque		40Nm—2000Nm
Ratio	Single stage	3, 4, 5, 6, 7, 8, 10
	Dual stages	12, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 100
Backlash	Single stage	≤5 arcmin
	Dual stages	≤7 arcmin

FABR Series



Available in 7 sizes		042, 060, 090, 115, 142, 180, 220
Rated output torque		14Nm—2000Nm
Ratio	Single stage	3, 4, 5, 6, 7, 8, 10, 14, 20
	Dual stages	12, 15, 20, 25, 30, 40, 50, 60, 70, 80, 100, 120, 140, 160, 200
Backlash	Single stage	P0 ≤2 arcmin; P1 ≤4 arcmin; P2 ≤6 arcmin
	Dual stages	P0 ≤4 arcmin; P1 ≤7 arcmin; P2 ≤9 arcmin

FAFR Series



Available in 6 sizes		060, 075, 100, 140, 180, 220
Rated output torque		40Nm—2000Nm
Ratio	Single stage	3, 4, 5, 6, 7, 8, 10, 14, 20
	Dual stages	12, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 100, 120, 140, 160, 200
Backlash	Single stage	P0 ≤2 arcmin; P1 ≤4 arcmin; P2 ≤6 arcmin
	Dual stages	P0 ≤4 arcmin; P1 ≤7 arcmin; P2 ≤9 arcmin

FER Series



Available in 6 sizes		070, 090, 120, 155, 205, 235
Rated output torque		40Nm—2000Nm
Ratio	Single stage	3, 4, 5, 6, 7, 8, 10, 14, 20
	Dual stages	12, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 100, 120, 140, 160, 200
Backlash	Single stage	≤10 arcmin
	Dual stages	≤12 arcmin

FAD Series



Available in 7 sizes		047, 064, 090, 110, 140, 200, 255
Rated output torque		14Nm—2000Nm
Ratio	Single stage	4, 5, 6, 7, 8, 10
	Dual stages	20, 25, 35, 40, 50, 60, 70, 80, 100
Backlash	Single stage	P0 ≤1 arcmin; P1 ≤3 arcmin; P2 ≤5 arcmin
	Dual stages	P0 ≤3 arcmin; P1 ≤5 arcmin; P2 ≤7 arcmin

FB Series



Available in 7 sizes		042, 060, 090, 115, 142, 180, 220
Rated output torque		14Nm—2000Nm
Ratio	Single stage	3, 4, 5, 6, 7, 8, 10
	Dual stages	12, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 100
Backlash	Single stage	≤5 arcmin
	Dual stages	≤7 arcmin

FGA Series



Available in 5 sizes		040, 060, 080, 120, 160
Rated output torque		14Nm—650Nm
Ratio	Single stage	3, 4, 5, 6, 7, 8, 10
	Dual stages	12, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 100
Backlash	Single stage	≤8 arcmin
	Dual stages	≤10 arcmin

FADR Series



Available in 7 sizes		047, 064, 090, 110, 140, 200, 255
Rated output torque		14Nm—2000Nm
Ratio	Single stage	4, 5, 6, 7, 8, 10, 14, 20
	Dual stages	20, 25, 35, 40, 50, 60, 70, 80, 100, 120, 140, 200
Backlash	Single stage	P0 ≤2 arcmin; P1 ≤4 arcmin; P2 ≤6 arcmin
	Dual stages	P0 ≤4 arcmin; P1 ≤7 arcmin; P2 ≤9 arcmin

FBR Series



Available in 7 sizes		042, 060, 090, 115, 142, 180, 220
Rated output torque		19Nm—2000Nm
Ratio	Single stage	3, 4, 5, 6, 7, 8, 10, 14, 20
	Dual stages	12, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 100, 120, 140, 160, 200
Backlash	Single stage	≤10 arcmin
	Dual stages	≤12 arcmin

FGAR Series



Available in 4 sizes		060, 080, 120, 160
Rated output torque		14Nm—650Nm
Ratio	Single stage	3, 4, 5, 6, 7, 8, 10, 14, 20
	Dual stages	12, 15, 20, 25, 30, 40, 50, 60, 70, 80, 100, 120, 140, 160, 200
Backlash	Single stage	≤13 arcmin
	Dual stages	≤15 arcmin

Applications:



Industrial Manufacturing



Communication Device



Warehousing Logistics



Industrial Robot



Aerospace Equipment



Medical Device