

AD-ADR系列 高精度行星减速机

AD-ADR Series
High Precision Planetary Gearboxes



产品优势

AD系列能够在设计、装配和应用上提供最大的灵活性。其突出特点是功率密度高且回程间隙低，特别适合需要高效率 and 扭转刚度的高精度应用。

ADR系列能够在设计、装配和应用上提供最大的灵活性。其突出特点是功率密度高且回程间隙低，特别适合需要高效率 and 扭转刚度的高精度应用。

The AD series provides maximum flexibility in design, assembly, and application. Its prominent features are high power density and low return clearance, making it particularly suitable for high-precision applications that require high efficiency and torsional stiffness.

The ADR series provides maximum flexibility in design, assembly, and application. Its prominent features are high power density and low return clearance, making it particularly suitable for high-precision applications that require high efficiency and torsional stiffness.



将太阳齿轮输出轴承直接设臂架内，确保精度和同心度。
The sun gear output bearing is directly set inside the arm frame to ensure accuracy and concentricity.



太阳齿一体式设计，确保同心度和扭转刚性。
Integrated solar tooth design ensures concentricity and torsional rigidity.



锁紧环经动平衡分析，确保连续转动中，同心度和零滑差传递。
The dynamic balance analysis of the locking ring ensures the concentricity and zero slip transfer in the continuous rotation.



锁紧环经动平衡分析，确保连续转动中，同心度和零滑差传递。
The dynamic balance analysis of the locking ring ensures the concentricity and zero slip transfer in the continuous rotation.

技术参数

回程间隙 Return clearance	arcmin	1-9
速比 Speed ratio	i	4-100
额定输出力矩 Rated output torque	Nm	14-2000
使用温度 Cusing temperature	℃	-10-90
噪音 The noise	dB(A)	56-70
工作效率 The work efficiency	%	97
工作寿命 The working life	h	20000

产品型号

AD系列	-AD047	-AD142
	-AD064	-AD200
	-AD090	-AD255
	-AD110	
ADR系列	-ADR047	-ADR142
	-ADR064	-ADR200
	-ADR090	-ADR255
	-ADR110	

AG-AGR系列 高精度行星减速机

AG-AGR Series
High Precision Planetary Gearboxes



产品优势

与其他斜齿减速机相比，AG系列斜齿减速机性价比更高，不仅具有高精密款的回程间隙和稳定性，还更加的经济适用。它在很多领域都能提供满足需求的最经济解决方案。

AGR系列凭借低摩擦损耗轴承的设计和经过优化的润滑功能，使其运行更佳，更低的运行噪音，坚实的结构及其更为简单易安装的方式更加值得信赖。

Compared with other helical gear reducers, AG series helical gear reducers have higher cost-effectiveness, not only with high-precision backlash and stability, but also more economical and applicable. It can provide the most economical solutions that meet the needs in many fields.

The AGR series, with its low friction loss bearing design and optimized lubrication function, operates better, with lower operating noise, solid structure, and a simpler and easier installation method, making it more reliable.



输出法兰通孔设计，容易安装。
Output flange through hole design, easy to install.



输出轴一体化设计，确保精度和同心度。
Output shaft integrated design to ensure accuracy and concentricity.



出力轴为研磨光面处理，与油封搭配确保最低摩擦系数和启动负载。
The output shaft is treated with abrasive finish and matched with oil seal to ensure minimum friction coefficient and starting load.



用螺旋伞齿轮，高精度咬合，低背隙，低噪音。
With spiral bevel gear, high precision occlusion, low back clearance, low noise.

技术参数

回程间隙 Return clearance	arcmin	1-9
速比 Speed ratio	i	3-100
额定输出力矩 Rated output torque	Nm	40-2000
使用温度 Cusing temperature	℃	-10-90
噪音 The noise	dB(A)	56-70
工作效率 The work efficiency	%	97
工作寿命 The working life	h	20000

产品型号

AG系列	-AG060	-AG142
	-AG090	-AG180
	-AG115	-AG220
AGR系列	-AGR060	-AGR142
	-AGR090	-AGR180
	-AGR115	-AGR220

AE-AER系列 高精度行星减速机

AE-AER Series
High Precision Planetary Gearboxes



产品优势

与其他斜齿减速机相比，AE系列斜齿减速机性价比更高，不仅具有高精密款的回程间隙和稳定性，还更加的经济适用。它在很多领域都能提供满足需求的最经济解决方案。

AER系列凭借低摩擦损耗轴承的设计和经过优化的润滑功能，使其运行更佳，更低的运行噪音，坚实的结构及其更为简单易安装的方式更加值得信赖。

Compared with other helical gear reducers, AE series helical gear reducers have higher cost-effectiveness, not only with high-precision backlash and stability, but also more economical and applicable. It can provide the most economical solutions that meet the needs in many fields.

The AER series, with its low friction loss bearing design and optimized lubrication function, operates better, with lower operating noise, solid structure, and a simpler and easier installation method, making it more reliable.



输出法兰通孔设计，容易安装。

Output flange through hole design, easy to install.



输出轴一体化设计，确保精度和同心度。

Output shaft integrated design to ensure accuracy and concentricity.



出力轴为研磨光面处理，与油封搭配确保最低摩擦系数和启动负载。

The output shaft is treated with abrasive finish and matched with oil seal to ensure minimum friction coefficient and starting load.



用螺旋伞齿轮，高精度咬合，低背隙，低噪音。

With spiral bevel gear, high precision occlusion, low back clearance, low noise.

技术参数

回程间隙 Return clearance	arcmin	1-9
速比 Speed ratio	i	3-100
额定输出力矩 Rated output torque	Nm	40-2000
使用温度 Cusing temperature	℃	-10-90
噪音 The noise	dB(A)	56-70
工作效率 The work efficiency	%	97
工作寿命 The working life	h	20000

产品型号

AE系列	-AE070	-AE155
	-AE090	-AE205
	-AE115	-AE235
AER系列	-AER070	-AER120
	-AER090	-AER155

AFH-AFHR系列 高精度行星减速机

AFH-AFHR Series
High Precision Planetary Gearboxes



产品优势

精度特性

·背隙小于3弧分、定位精准。
Back clearance less than 3 arc minutes, precise positioning.

刚性、扭矩、负载特性

·使用整体式交叉滚子轴承，大大提高了刚性和扭矩实现高负载容量。
The use of integral cross roller bearings greatly improves rigidity and torque to achieve high load capacity.

轴向力特性

·两列圆锥滚子轴承，能提供更大的轴向力，使用于冲击力比较大的行业。
Two row tapered roller bearings can provide greater axial force and are used in industries with high impact forces.

行星轮特性

·行星轮齿面宽，模数大，实现高强度。
The planetary gear teeth have a wide surface and a large modulus, achieving high strength.



两列圆锥滚子轴承，能提供更大的轴向力，使用于冲击力比较大的行业。
Two rows of tapered roller bearings, which provide greater axial force, are used in high-impact industries.



优化的一体式齿圈设计保证最合理刚性。
Optimized one-piece gear design ensures optimum rigidity.



出力轴为研磨光面处理，与油封搭配确保最低摩擦系数和启动负载。
The output shaft is treated with abrasive finish and matched with oil seal to ensure minimum friction coefficient and starting load.



用螺旋伞齿轮，高精度咬合，低背隙，低噪音。

With spiral bevel gear, high precision occlusion, low back clearance, low noise.

技术参数

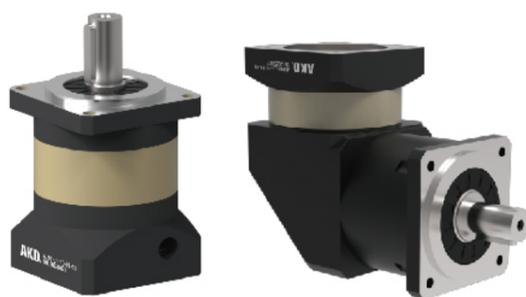
回程间隙 Return clearance	arcmin	1-7
速比 Speed ratio	i	3-100
额定输出力矩 Rated output torque	Nm	40-2000
使用温度 Cusing temperature	℃	-10-90
噪音 The noise	dB(A)	56-70
工作效率 The work efficiency	%	97
工作寿命 The working life	h	20000

产品型号

AFH系列	-AFH060	-AFH142
	-AFH075	-AFH180
	-AFH100	-AFH210

AL直齿系列行星减速机 ALR直齿转角系列行星减速机

AL Straight tooth series planetary reducer
ALR Straight tooth Angle series planetary reducer



产品优势

采用直齿齿轮传动，经渗碳淬火处理，齿向齿廓修形处理，确保运行平稳，噪音小；

结构简单，可大批量生产，且交货期快性价比高；

减速机种类齐全，可以满足市场上绝大多数减速机的替换配合；

维护方便：在产品寿命期内无需更换润滑脂，安装更便捷。

Adopting spur gear transmission, after carburizing and quenching treatment, the tooth profile is modified to ensure smooth operation and low noise;

Simple structure, capable of mass production, fast delivery time, and high cost-effectiveness;

The variety of reducers is complete, which can meet the replacement and matching needs of the vast majority of reducers in the market;

Easy maintenance: No need to replace lubricating grease during the product's lifespan, making installation more convenient.

产品型号

AL系列

- AL042
- AL060
- AL080
- AL090
- AL120
- AL160

ALR系列

- ALR060
- ALR090
- ALR120
- ALR160

技术参数

回程间隙 Return clearance	arcmin	8-15
速比Speed ratio	i	3-100
额定输出力矩 Rated output torque	Nm	20-250
使用温度Cusing temperaturec	℃	-10-90
噪音The noise	dB(A)	58-68
工作效率The work efficiency	%	97
工作寿命The working life	h	20000

ALE直齿系列行星减速机 ALER直齿转角系列行星减速机

ALE Straight tooth series planetary reducer
ALER Straight tooth Angle series planetary reducer



产品优势

采用直齿齿轮传动，经渗碳淬火处理，齿向齿廓修形处理，确保运行平稳，噪音小；

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Easy maintenance: No need to replace lubricating grease during the product's lifespan, making installation more convenient.

产品型号

ALE系列

- ALE060
- ALE090
- ALE120

ALER系列

- ALER060
- ALER090
- ALER120

技术参数

回程间隙 Return clearance	arcmin	8-15
速比Speed ratio	i	3-100
额定输出力矩 Rated output torque	Nm	20-250
使用温度Cusing temperaturec	℃	-10-90
噪音The noise	dB(A)	58-68
工作效率The work efficiency	%	97
工作寿命The working life	h	20000

高精度伺服 直交轴减速机

High precision servo
Direct axis reducer



产品优势

■ 高强度、高精度螺旋伞齿轮

· 齿轮采用强力渗碳合金钢，研磨精密符合AGMA12级标准以内。
The gears are made of strong carburizing carbon alloy steel, and the grinding precision meets the AGMA12 level standard.

■ 低背隙

· 使用Gleason参数齿轮加工设备，加工研磨等级的螺旋伞齿轮，确保低背隙、低噪音，背隙最小可达6弧分以内。
Using Gleason parameter gear machining equipment, process spiral bevel gears of grinding grade to ensure low backlash and low noise, with a minimum backlash of up to 6 arc minutes.

■ 高扭矩密度

· 一体式齿箱体确保最大刚性与耐蚀性，结构紧凑，富有刚性的设计保证了在小体积、重量轻的情况下能够达到最高扭矩。
The integrated gearbox body ensures maximum rigidity and corrosion resistance, with a compact structure and a rigid design that ensures the ability to operate in a small volume and light weight Achieve maximum torque.

■ 多方位安装

· 多重精密加工表面易于安装，适用于任意安装方向。
Multiple precision machined surfaces are easy to install and suitable for any installation direction.

产品型号

AT065L	AT075L	AT090L	AT110L	AT140L	AT170L	AT210L	AT240L	AT280L
AT065 L1	AT075 L1	AT090 L1	AT110 L1	AT140 L1	AT170 L1	AT210 L1	AT240 L1	AT280 L1
AT065H	AT075H	AT090H	AT110H	AT140H	AT170H	AT210H	AT240H	AT280H
AT065C	AT075C	AT090C	AT110C	AT140C	AT170C	AT210C	AT240C	AT280C
AT065 R1	AT075 R1	AT090 R1	AT110 R1	AT140 R1	AT170 R1	AT210 R1	AT240 R1	AT280 R1

技术参数

回程间隙 Return clearance	arcmin	3-6
速比Speed ratio	i	1/2
额定输出力矩 Rated output torque	Nm	12-3200
使用温度Cusing temperaturec	℃	-10-90
噪音The noise	dB(A)	68-83
工作效率The work efficiency	%	97
工作寿命The working life	h	20000

■ AT轴输入转向器 减速比1/1



AT-F 输入法兰型系列

AT-F Input Flange series



产品优势

■ 高强度、高精度螺旋伞齿轮

· 齿轮采用强力渗碳合金钢，研磨精密符合AGMA12级标准以内。
The gears are made of strong carburizing carbon alloy steel, and the grinding precision meets the AGMA12 level standard.

■ 低背隙

· 使用Gleason参数齿轮加工设备，加工研磨等级的螺旋伞齿轮，确保低背隙、低噪音，背隙最小可达6弧分以内。
Using Gleason parameter gear machining equipment, process spiral bevel gears of grinding grade to ensure low backlash and low noise, with a minimum backlash of up to 6 arc minutes.

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· 一体式齿箱体确保最大刚性与耐蚀性，结构紧凑，富有刚性的设计保证了在小体积、重量轻的情况下能够达到最高扭矩。
The integrated gearbox body ensures maximum rigidity and corrosion resistance, with a compact structure and a rigid design that ensures the ability to operate in a small volume and light weight Achieve maximum torque.

■ 多方位安装

· 多重精密加工表面易于安装，适用于任意安装方向。
Multiple precision machined surfaces are easy to install and suitable for any installation direction.

产品型号

AT065FL	AT075FL	AT090FL	AT110FL	AT140FL	AT170FL	AT210FL	AT240FL	AT280FL
AT065FL1	AT075FL1	AT090FL1	AT110FL1	AT140FL1	AT170FL1	AT210FL1	AT240FL1	AT280FL1
AT065FH	AT075FH	AT090FH	AT110FH	AT140FH	AT170FH	AT210FH	AT240FH	AT280FH
AT065FC	AT075FC	AT090FC	AT110FC	AT140FC	AT170FC	AT210FC	AT240FC	AT280FC
AT065FR1	AT075FR1	AT090FR1	AT110FR1	AT140FR1	AT170FR1	AT210FR1	AT240FR1	AT280FR1

技术参数

回程间隙 Return clearance	arcmin	6-10
速比Speed ratio	i	1-200
额定输出力矩 Rated output torque	Nm	12-3200
使用温度Cusing temperaturec	℃	-10-90
噪音The noise	dB(A)	71-84
工作效率The work efficiency	%	97
工作寿命The working life	h	20000

■ AT轴输入转向器 减速比1/1



ATX-AS精密型 输入带行星直角减速器

ATX-AS precision
input with planetary right Angle reducer



产品优势

■ 高强度、高精密螺旋伞齿轮

· 齿轮采用强力渗碳合金钢，研磨精度符合AGMA12级标准以内。
The gears are made of strong carburizing carbon alloy steel, and the grinding precision meets the AGMA12 level standard.

■ 低背隙

· 使用Gleason参数齿轮加工设备，加工研磨等级的螺旋伞齿轮，确保低背隙、低噪音，背隙最小可达6弧分以内。
Using Gleason parameter gear machining equipment, process spiral bevel gears of grinding grade to ensure low backlash and low noise, with a minimum backlash of up to 6 arc minutes.

■ 高扭矩密度

· 一体式箱体确保最大刚性与耐蚀性，结构紧凑，富有刚性的设计保证了在小体积、重量轻的情况下能够达到最高扭矩。
The integrated gearbox body ensures maximum rigidity and corrosion resistance, with a compact structure and a rigid design that ensures the ability to operate in a small volume and light weight. Achieve maximum torque.

■ 多方位安装

· 多重精密加工表面易于安装，适用于任意安装方向。
Multiple precision machined surfaces are easy to install and suitable for any installation direction.

产品型号

ATX070AS-FL	ATX080AS-FL	ATX110AS-FL	ATX135AS-FL	ATX165AS-FL	ATX200AS-FL
ATX070AS-FL1	ATX080AS-FL1	ATX110AS-FL1	ATX135AS-FL1	ATX165AS-FL1	ATX200AS-FL1
ATX070AS-FH	ATX080AS-FH	ATX110AS-FH	ATX135AS-FH	ATX165AS-FH	ATX200AS-FH
ATX070AS-FC	ATX080AS-FC	ATX110AS-FC	ATX135AS-FC	ATX165AS-FC	ATX200AS-FC
ATX070AS-CR	ATX080AS-CR	ATX110AS-CR	ATX135AS-CR	ATX165AS-CR	ATX200AS-CR

技术参数

回程间隙 Return clearance	arcmin	3-8
速比Speed ratio	i	6-200
额定输出力矩 Rated output torque	Nm	49-2150
使用温度Cusing temperature	℃	-10-90
噪音The noise	dB(A)	62-76
工作效率The work efficiency	%	97
工作寿命The working life	h	20000

■ AT轴输入转向器 减速比1/1



ARG 系列 中空旋转平台

ARG Series
Hollow rotating platform



产品优势

重复定位精度高；

采用高精度交叉斜角滚柱轴承，体积小、结构紧凑，可同时承载径向及轴向负荷；

中空旋转平台减速机采用硬齿面磨齿结构，具有运转平稳，高输出扭矩低噪音等特点；

旋转盘本体使用铝合金材料，全闭环高精度五轴CNC加工，及检测设备，确保各部之精密度；

齿轮经渗碳热处理及齿轮研磨，精密度达DIN6级以内，齿面硬度达HRC58-60度。

High precision in repeated positioning;

Adopting high-precision cross angled roller bearings, with small volume and compact structure, it can simultaneously bear radial and axial loads;

The hollow rotating platform reducer adopts a hard tooth surface grinding structure, which has the characteristics of smooth operation, high output torque, and low noise;

The rotating disc body is made of aluminum alloy material, fully closed-loop high-precision five axis CNC machining, and testing equipment to ensure the precision of each part;

The gears undergo carburizing heat treatment and gear grinding, with a precision of up to DIN6 level and a tooth surface hardness of HRC58-60 degrees.

技术参数

回程间隙 Return clearance	arcsec	15
速比Speed ratio	i	5-100
额定输出力矩 Rated output torque	Nm	5.2-120
使用温度Cusing temperature	℃	-10-90

中空旋转平台	型号	规格 (mm)	中空直径 (mm)	减速比
	ARG60-05k	60	28	5
	ARG60-10k			10
	ARG85-05k	85	33	5
	ARG85-10k			10
	ARG110-05k	110	35	5
	ARG110-10k			10
	ARG130-06k	130	62	6
	ARG130-10k			10
	ARG130-18k			18
	ARG170-10k	170	72	10
	ARG170-18k			18
	ARG200-10k	200	100	10
ARG200-18k	18			
ARG280-10k	280	150	10	

一体机(中空+行星)	一体机型号	中空型号	行星型号	中空行星总速比
	ARG85A	ARG85	AG060	25,35,50,70,100
	ARG110A	ARG110	AG060	25,50,70,100
	ARG130A	ARG130	AG060	30,50,70,100
	ARG170A	ARG170	AG090	30,50,70,100
	ARG200A	ARG200	AG090	30,50,70,100
	ARG280A	ARG280	AG115	30,50,70,100

一体机(中空+直角)	一体机型号	中空型号	行星型号	中空行星总速比
	ARG60Z	ARG60	AR042	10,15
	ARG85Z	ARG85	AR060	10,15,20,30
	ARG130Z	ARG130	AR060	20,30
	ARG170Z	ARG170	AR090	20,30,50
	ARG200Z	ARG200	AR090	20,30,50
	ARG280Z	ARG280	AR120	20,30,50