

# Технические характеристики

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# Gearbox

Body Materials: cast iron

Transmission ratio: 24, 30, 50

Protection grade: IP65

## Introduction

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### Features:

Applicable environment: outdoor

Suitable temperature : -20-120 degrees Celsius

Application field : Municipal construction, water conservancy projects, water supply and drainage, water treatment, etc.

### Product advantages:

1. The protection grade of worm gear box reaches IP65.
2. The worm gear box shall be tested on the dustproof and spray proof type regularly to ensure the reliable protective performance of the product.

3. The strength test of the worm gear box is conducted. 890N force is added to the end edge of the hand wheel.
4. Lithium base grease, water and oil resistant, aging resistant, long life (high temperature 150 degrees, low temperature -20 degrees).The worm gear head warranty is 5 years.
5. Use NBR oil seal that conforms to national standards. The oil seal hole is processed by reamer with surface roughness up to Ra1.6.
6. The worm adopts the quality control of 45 steel, with good comprehensive mechanical properties and long service life.
7. Add ball bearing to the end of worm shaft, which can greatly reduce friction.
8. The connecting pin of worm and worm shaft is hardened by steel 45, with high strength and reliable connection.
9. The upper and lower shaft section of the worm wheel has o-ring seal groove, matching box body and box cover hole. The roughness reaches Ra1.6 with reamer processing. At the same time, the box cover side of the worm wheel hole with NBR sealing gasket, further improve the dustproof, waterproof capacity.
10. NBR sealing gasket is installed between the box cover and box body, with reliable protective performance.
11. The fasteners of the box cover and box body are made of hexagonal bolts, spring washer and flat washer components, which are easy to disassemble and assemble and reliable to connect.
12. The adjustment range of worm gear is large, most products in the market are  $\pm 5$  degrees, and the turbine head of general Germany is  $\pm 10$  degrees.
13. Jacking seal adopts combined gasket seal, with reliable sealing, good durability and long life.
14. Add protective cap on the outside of the top wire to increase the ability to prevent rust corrosion, and prevent the personnel of installation and maintenance from scratch.
15. The screw holes of the middle flange are in the form of blind holes to increase waterproof and dustproof performance.The arrangement of holes can meet the common connection form of countries in the world.
16. The connection between the worm wheel and the driven shaft is in the form of two shafts, but the circular keyhole connection has strong adaptability.
17. The indicator is made of stainless steel with good rigidity, which can prevent the deformation caused by collision and installation.
18. The worm gear adopts special worm gear hob machining, which is close and reliable, with wide contact surface and low friction. At the same time, the worm gear can be loaded and unloaded freely, which is convenient for installation.
19. The worm gear and worm adopt positive displacement, the tooth thickness is increased, the rigidity is good, the limit moment of transmission is big.

# Parameters

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Transmission Ratio	L1	L2	L3	L4	L5
24:1	149	146	105	70	35
30:1	206	210	153	90	41
50:1	217	215	156	92	49



# Waterproof Worm Gear Box

Body Materials: HT200

Transmission ratio: 24:1

Protection grade: IP65

## Introduction

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### Features:

Applicable environment: Outdoor

Suitable temperature : -20°C ~ 120°C

Application field : Water supply and drainage, water treatment, water conservancy projects, etc

### Product advantages:

1.High protection level of turbine box

The protection grade of turbine box reaches IP65.

## 2. Reliable protection performance

Worm gear box regularly do dust and anti - spray type test to ensure that the product protection performance is reliable.

## 3. Five years warranty

Lithium base grease, water and oil resistant, not easy to aging, long life (high temperature 150 degrees, low temperature -20 degrees), worm wheel head warranty for 5 years.

## 4. The comprehensive mechanical properties of worm are good

Worm adopts 45 steel quenched and tempered treatment, with good comprehensive mechanical properties and long service life.

## 5. Wide range of worm gear adjustment

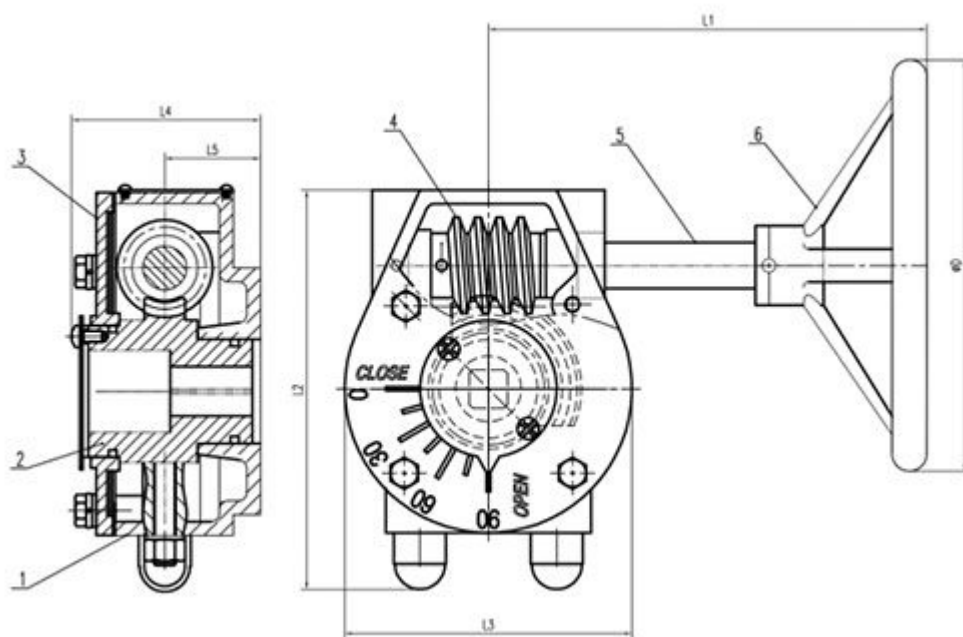
Worm gear adjustment range is large, most of the products on the market is + 5 degrees, as the worm head is + 10 degrees.

## 6. The indicator is strong and not easily deformed

The indicator is made of stainless steel with good rigidity, which can prevent the deformation caused by collision and installation.

# Parameters

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Parts	1	2	3	4	5	6
Name	Body	Turbine	Lid	Worm	Worm shaft	Handwheel
Material	HT200	QT450-10	QT450-10	45	45	DI
Size		Matching drive flange code		Overall dimensions		
DN	NPS ( inch )					
50	2"	F05		L1	149	
65	2 1/2"			L2	146	
80	3"			L3	105	
100	4"	F07		L4	70	
125	5"			L5	35	
150	6"			ΦD	150	



# Cast Iron Worm Gear Box

Body Materials: HT200

Transmission ratio: 30:1

Protection grade: IP65

## Introduction

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### Features:

Applicable environment: Outdoor

Suitable temperature : -20°C ~ 120°C

Application field : Water supply and drainage, water treatment, water conservancy projects, etc

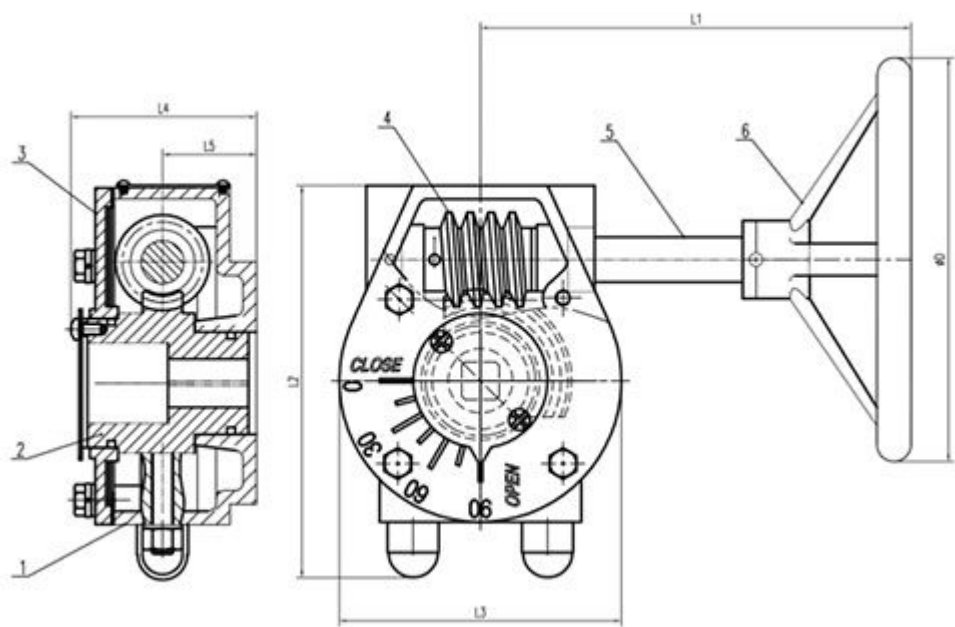
### Product advantages:

1. The protection grade of worm gear box reaches IP65.
- 2, worm gear box regularly do dust and anti-spray type test, to ensure that the product protection performance is reliable.



- 3, lithium base grease, water and oil resistant, not easy to aging, long life (high temperature 150 degrees, low temperature -20 degrees), worm head warranty for 5 years.
4. The worm adopts 45 steel quenched and tempered treatment, with good comprehensive mechanical properties and long service life.
- 5, the range of worm gear regulation is large, most of the products on the market is + 5 degrees, as the worm head is + 10 degrees.
6. The indicator is made of stainless steel with good rigidity, which can prevent the deformation caused by collision and installation.

## Parameters



Parts	1	2		3		4	5		6
Name	Body	Turbine		Lid		Worm	Worm shaft		Handwheel
Material	HT200	QT450-10		QT450-10		45	45		DI
Transmission ratio	Size		Matching drive flange code	Overall dimensions ( 24:1 )		Overall dimensions ( 30:1 )		Overall dimensions ( 50:1 )	
	DN	NPS ( inch )		L1	149	L1	206	L1	217
24 : 1	50	2"	F05						

	65	2 1/2"		L2	14 6	L2	210	L2	215
	80	3"							
	100	4"	F07	L3	10 5	L3	153	L3	156
	125	5"							
	150	6"		L4	70	L4	90	L4	92
30:1	200	8"	F010						
	250	10"		L5	35	L5	41	L5	49
50:1	300	12							
	350	14		ΦD	15 0	ΦD	200	ΦD	250



# Waterproof Cast Iron Worm Gear Box

Body Materials: HT200

## Introduction

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### Features:

Applicable environment: Outdoor

Suitable temperature : -20°C ~ 120°C

Application field : Water supply and drainage, water treatment, water conservancy projects, etc

### Product advantages:

1. The protection grade of worm gear box reaches IP65.
- 2, worm gear box regularly do dust and anti-spray type test, to ensure that the product protection

performance is reliable.

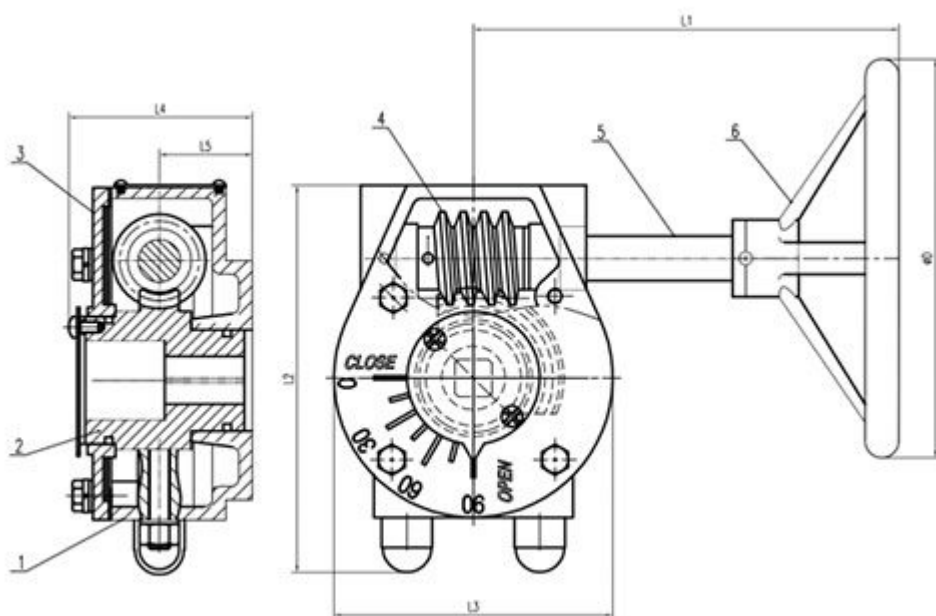
3, lithium base grease, water and oil resistant, not easy to aging, long life (high temperature 150 degrees, low temperature -20 degrees), worm head warranty for 5 years.

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## Parameters



Parts	1	2		3		4	5		6
Name	Body	Turbine		Lid		Worm	Worm shaft		Handwheel
Material	HT200	QT450-10		QT450-10		45	45		DI
Transmission ratio	Size		Matching drive flange code	Overall dimensions ( 24:1 )		Overall dimensions ( 30:1 )		Overall dimensions ( 50:1 )	

	DN	NPS ( inch )		L1	149	L1	206	L1	217
24 : 1	50	2"	F05						
	65	2 1/2"		L2	146	L2	210	L2	215
	80	3"							
	100	4"	F07	L3	105	L3	153	L3	156
	125	5"							
	150	6"		L4	70	L4	90	L4	92
30:1	200	8"	F010						
	250	10"		L5	35	L5	41	L5	49
50:1	300	12							
	350	14		ΦD	150	ΦD	200	ΦD	250

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