

RW series Operating Instructions

Thank you for choosing WUMA reducer. In order to properly install and keep the maintenance, please read this manual.

Model Description

- The input type of reducers includes hollow shaft input, solid shaft input and extension worm shaft type.
- The output type includes hollow shaft output, single shaft output and double shaft output.

Installation

- Several installation types can be applied subject to the actual requirements. All of six sides can be used for installation.
- The installation must be firm and reliable.

- The operating mechanism of prime mover and reducer shall be aligned carefully. The deviation shall not exceed the allowable compensation of coupling.

- After installation, the machine shall be agile without jamming when manually turned.

Application and replacement of lubricant

- For worm pairs after running for 150~400 hours since the first usage or newly replaced, the lubricant shall be replaced, and the subsequent lubricant change period shall be less than or equal to 4000 hours.

- The operating ambient temperature of reducer is between $-40^{\circ}\text{C} \sim +40^{\circ}\text{C}$.

- When the ambient temperature is below 0°C , the lubricant shall be heated above 0°C before startup or apply the lubricant with low freezing point.

- The volume of filled shall follow the requirement tabulated. It is forbidden to mix the oil of different brands, while the mixture of oil of the same brand but different viscosities is allowed.

- Check the volume and quality of oil regularly, keep sufficient lubricant and timely replace the oil mixed with impurities or transformed.

Precautions

- Please change breather vent before startup. RW25~RW75, we have added appropriate amount of synthetic oil, it is no need to change the breather vent.
RW90~RW185, we have added worm oil, so it is necessary to change breather vent.

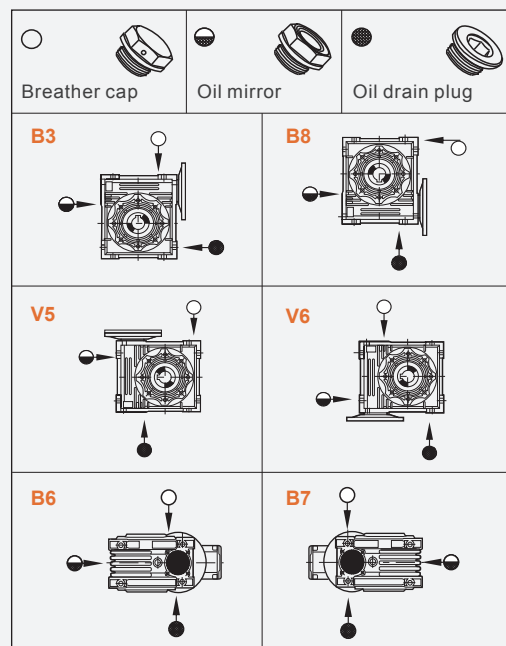
- Do not hammer the housing of reducer to avoid damage.

- Regularly check whether the mounting base, sealing elements and transmission shaft are normal.

- Under normal operation, the highest temperature of reducer shall be lower than 85°C . If the oil temperature rises unusually and causes abnormal noises, please immediately, stop the machine for trouble shooting, don't use until the malfunction is excluded.

- The newly-replaced spare parts can not be officially put into use before running in and load test.

Installation type of reducer and the corresponding breather vent, oil mirror and oil drain plug



Oil volume of reducer (L)

Mounting position Model	B3	B6	B7	B8	V5	V6
RW25	0.02					
RW30	0.03					
RW40	0.08					
RW50	0.15					
RW63	0.30					
RW75	0.55				0.75	
RW90	1.0				1.25	
RW110	3	2.5	2.5	2.5	3.5	3.5
RW130	5	3.5	3.5	3.5	5.5	5.5
RW150	7	5.4	5.4	5.4	7.5	7.5
RW185	11	8	8	8	11	11

Lubricant

Type	RV25,RV30,RV40,RV50,RV63,RV75	
Lubricant	Oil sintetice synthetic oil	
Ambient Temperature	$-25^{\circ}\text{C} \sim +50^{\circ}\text{C}$	
ISO	VG320	
Used in interior	WA460	
Used in foreign countries	AGIP	TELIUM VSF320
	SHELL	TIVELA S320
	ESSO	S220
	MOBIL	GLYGOYLE 30
	CASTROL	ALPHASYN PG320
	BP	ENERGOLSG-XP 320

Type	RV90,RV110,RV130,RV150,RV185		
Lubricant	Oil sintetice synthetic oil	Oil minerale mineral oil	
Ambient Temperature	$-25^{\circ}\text{C} \sim +50^{\circ}\text{C}$	$-25^{\circ}\text{C} \sim +50^{\circ}\text{C}$	$-25^{\circ}\text{C} \sim +50^{\circ}\text{C}$
ISO	VG320	VG460	VG320
Used in interior	WA460		
Used in foreign countries	AGIP	TELIUM VSF320	BLASIA 460
	SHELL	TIVELA S320	OMALA OIL 460
	ESSO	S220	SPART AN EP 460
	MOBIL	GLYGOYLE 30	MOBIL GEAR 634
	CASTROL	ALPHASYN PG 320	ALPHASYN MAX 460
	BP	ENERGOLSG-XP 320	ENERGOLSG-XP 460

Common malfunctions analysis

Malfunction	Possible reasons	Solution
Oil leakage	Flange junction	Bolt looseness Retighten
		Flat sealant failure Reapply sealant
	Oil seal place of worm shaft	Oil seal is damaged Change oil seal
	Output shaft place	Oil seal is damaged Change oil seal
Abnormal noise	Oil plug place	Loose Fastening
	Breather vent place	Too much oil Correct oil level
		Frequent cold start (the oil produced foam) To replace the breather vent with exhaust valve
	Regular impact noise	Bad gear mesh Please contact us after checking
Stable grinding noise	Bearing is damaged	Please contact us after checking
Irregular noise	Oil deterioration or lack of oil	Replace or add lubricant
Motor in operation but output shaft doesn't run	Key damaged or gears are badly worn	Please contact us after checking

Warranty

- We guarantee to provide creditable products as contracted and strictly execute the warranty, and ensure the supply of fittings when it exceeds our warranty period.
- We will make the reply within 24 hours after receiving the user's complaints on quality; the repairman will be dispatched to customer's sites within 48 hours if required, until the trouble is solved.
- We will well organize customer consultations and provide the best pre-sale and after-sale service.