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# **Gear Units, YRM Series**

Edition 09/2009  
OIYCE 0103/0909

# **Operating Instructions**



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## 1 -How To Use This Manual

Take attention to the following safety and warning signs for proper understanding and quick reference.



Electric Hazard; Can cause severe or fatal injuries.



Mechanical Hazard; Can cause severe or fatal injuries.



Likely to be Hazardous; Can cause minor injuries



Damage Risk; Can damage the drive or environment



Important Information

The operating instructions contain important information to ensure;

- Trouble-free operation
- Fulfilment of any rights to claim under guarantee

The operating instruction must be kept close to the gearbox and must be available in case it is needed.

This operating instruction is written for YR series gear units and is applicable only for YR series. If any different type of gearbox is used please ask YILMAZ REDUKTOR for the operating instructions of that type.

This instruction can be used only for standard type geared units of YILMAZ REDUKTOR. For special application and modified gear units ask YILMAZ REDUKTOR for validity.

This manual does not cover the ATEX 100a (94/9/EC) compatible gearboxes. For ATEX 100a contact YILMAZ REDUKTOR.



## 2 -Unit Designation

### a- Detailed unit designation



Detailed YR series gear units designation for ordering

(This Designation is different from the short nameplate designation)

30kW - 29rpm - 48,86 - YRM3705 - L

Power (kW)	Output Speed(rpm)	Ratio (i)	Type	Mounting position (See picture below)
30	29	48,86	YRM3705	L

YRM- With solid output shaft  
 YRC- With double output shaft  
 YRD- With hollow output shaft  
 YRE- With extruder housing

Viewed from input side

L - Right Input, Left Output

R - Left Input, Right Output

UL- Left Input, Right Output

UR- Reight Input, Right Output

### Example

30-29-48,86-YRM3705

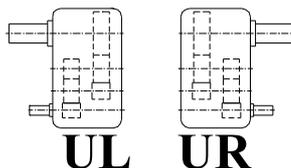
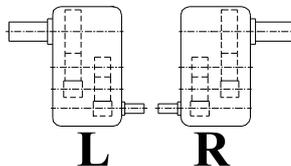
30 kW, 29rpm,  $i=48,86$  gear unit with output shaft , gearbox type: YRM4705

30-29-48,86-YRC3705

30 kW, 29rpm,  $i=48,86$  gear unit with double output shaft , gearbox type: YRM4705

11-29-48,86-YRE2240

11 kW, 29rpm,  $i=48,86$  gear unit with extruder housing, gearbox type: YRM2240





#### b- Nameplate, unit designation



Nameplate unit designation is a short abbreviation from the detailed designation

A sample name plate for K Series

	<b>YILMAZ REDÜKTÖR</b> www.yr.com.tr e.mail: yilmaz@yr.com.tr	
Type	: YRM1200-L	
Power	: 30 kW	
Speed	: 263 rpm.	
Ratio	: 5,33	
Serial N.	: 05/4743	
M. Pos.	: B3	Oil Qty: 14 lt.
OIL FILLED (MINERAL VG220)		

#### Abbreviations:

Serial N. : Serial Number

M.Pos. : Mounting Position

#### Type Designation;

YRM1200 - L

Type

Mounting position

**YRM-** With solid output shaft  
**YRC-** With double output shaft  
**YRD-** With hollow output shaft  
**YRE-** With extruder housing

**Viewed from input side**

**L** - Right Input, Left Output

**R** - Left Input, Right Output

**UL**- Left Input, Right Output

**UR**- Right Input, Right Output

#### Serial Number Designation;

04

/

25520

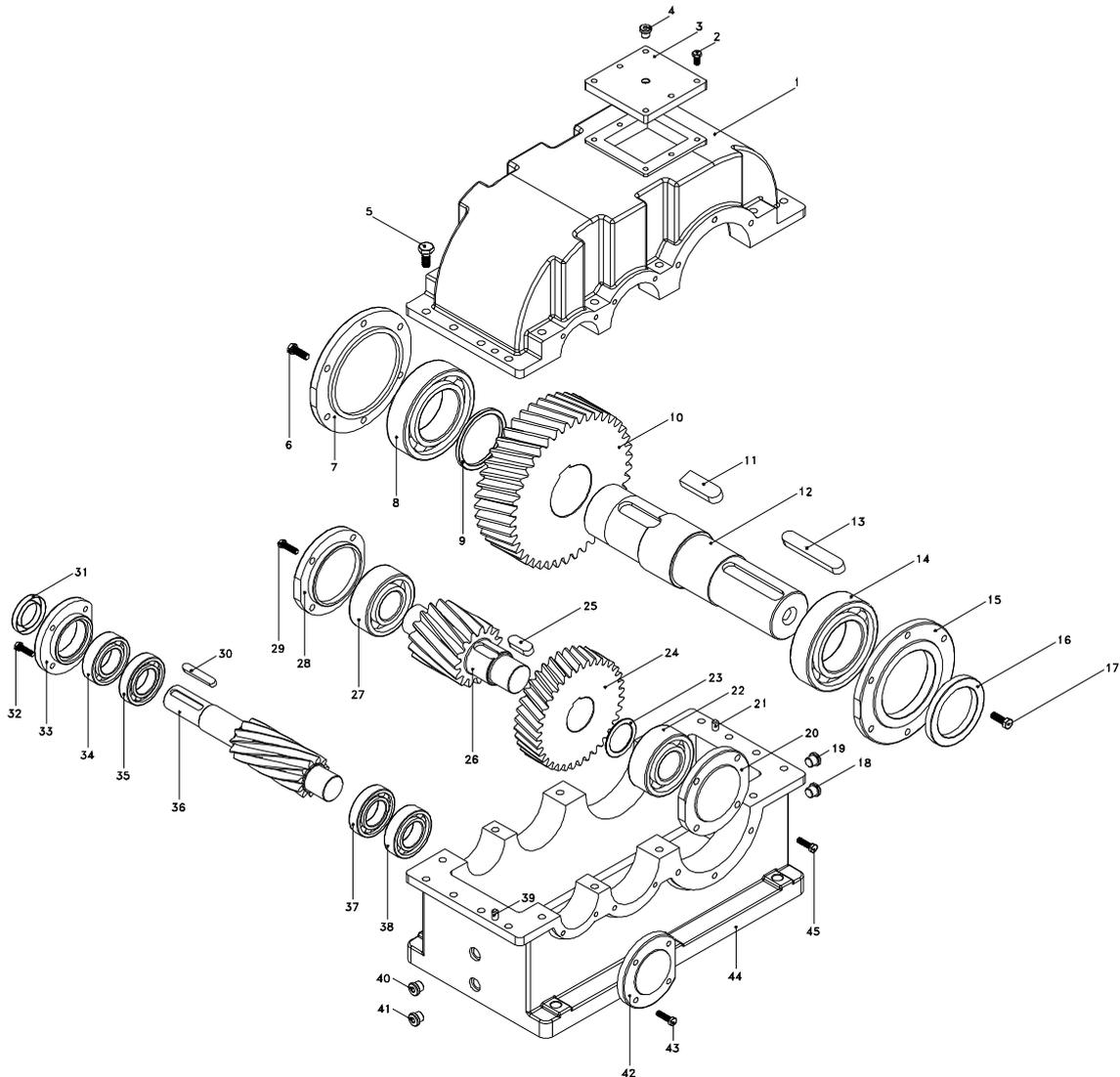
Year of manufacturing

Order Number



### 3- Part List of Standard Type Gear Units

#### a- YRM... Types



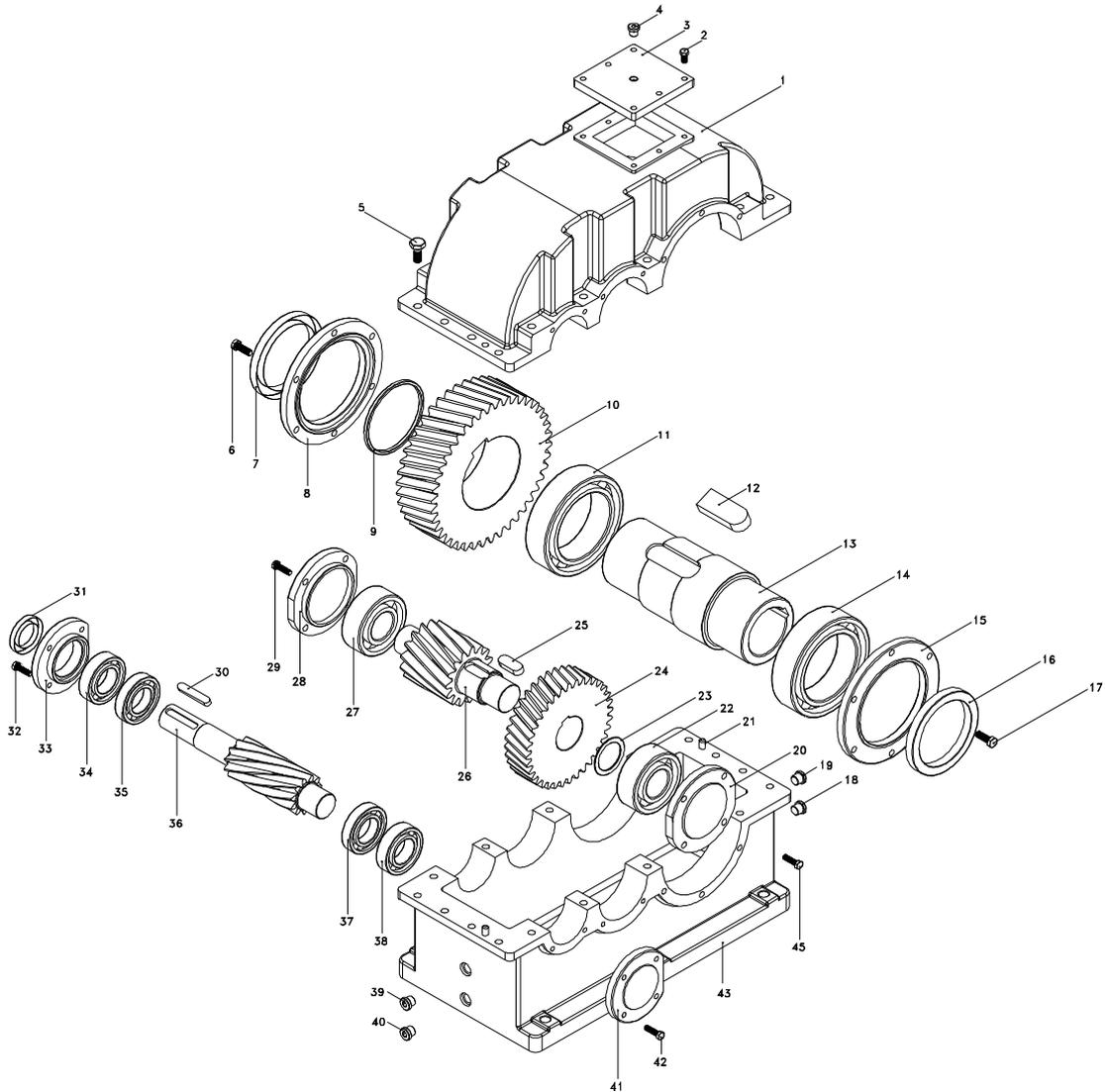
*Standard YRM.... type basic part diagram. Parts may differ for special applications.*

#### Standard Part List

1- Uper Housing Part	10- Gear	19- Plug	28- Closed Side Cover	37- Bearing
2- Bolt	11- Key	20- Closed Side Cover	29- Bolt	38- Bearing
3- Cover Plate	12- Output Shaft	21- Centering Pin	30- Key	39- Centering Pin
4- Plug	13- Key	22- Bearing	31- Oil Seal	40- Plug
5- Bolt	14- Bearing	23- Spacer Ring	32- Bolt	41- Plug
6- Bolt	15- Seal Cover	24- Gear	33- Side Cover	42- Closed Side Cover
7- -Closed Side Cover	16- Oil Seal	25- Key	34- Bearing	43- Bolt
8- Bearing	17- Bolt	26- Pinion Shaft	35- Bearing	44- Bottom Housing Part
9- Spacer Ring	18- Plug	27- Bearing	36- Pinion Shaft	45- Bolt



**b- YRD... Types**



*Standard YRC... type basic part diagram. Parts may differ for special applications.*

**Standard Part List**

1- Uper Housing Part	10- Gear	19- Plug	28- Closed Side Cover	37- Bearing
2- Bolt	11- Bearing	20- Closed Side Cover	29- Bolt	38- Bearing
3- Cover Plate	12- Key	21- Centering Pin	30- Key	39- Plug
4- Plug	13- Hollow Shaft	22- Bearing	31- Oil Seal	40- Plug
5- Bolt	14- Bearing	23- Spacer Ring	32- Bolt	41- Closed Side Cover
6- Bolt	15- Seal Cover	24- Gear	33- Side Cover	42- Bolt
7- -Closed Side Cover	16- Oil Seal	25- Key	34- Bearing	43- Bottom Housing Part
8- Bearing	17- Bolt	26- Pinion Shaft	35- Bearing	45- Bolt
9- Spacer Ring	18- Plug	27- Bearing	36- Pinion Shaft	



#### 4 -Thinks to Check Before the Gear Unit or Geared Motor is Installed



If gearedmotors are used, please also refer to the manual of the motor manufacturer.

Before you install the gearbox you have to be sure that the gearbox is arrived with the all necessary equipment and without damage. Thinks to take into consideration before you start to install the unit;

- You have received the correct operation manual of the your product.
- The gearbox and all its parts are transported without damage.
- The gearbox is stored correctly according the instructions in this manual

##### a) Transportation

When the goods arrive, first check for any damage. If some damage observed, immediately contact the transport company and inform about the damage. Contact YILMAZ for the damage and do not start to install the unit until it is agreed that the damage has no affect of operation.



Use the supplied eyebolts or lifting holes for lifting up the gear unit. The eyebolts are capable to carry the weight of gearboxes only. Do not hang additional loads.

##### b) Storage

If the geared unit or gearedmotor will be stored up to 3 years refer to the following instructions;

###### **With Packing;**

-Use corrosion protection oil for the output shaft and connection surfaces like flange surface or foot assembling surface. Seal the unit in a plastic wrap and pack it in container. A moisture indicator should be placed around the container to observe the moisture. Relative atmospheric humidity should not exceed 50%. The container should be kept under roof which protects from snow and rain. Under this condition the gear unit can be stored up to 3 year with regular check.

###### **Without Packing;**

-Use protection oil for the output shaft and connection surfaces like flange surface or foot assembling surface. If no packing is used and the gearbox is stored without packing, the ambient temperature should be between 5 to 60 Celsius degrees. The gearbox must be kept under enclosed roof with constant temperature and constant humidity not exceeding 50%. The storage should be free of dust and dirt and ventilated with filter. If the gearbox is stored without packing it is recommended not to store more than 2 years and regular check during this time is recommended.

If stored in open protect against insect damage.



## 5- Installing The Gear Unit

### a) Before you start;

- Observe the gear unit for damages of storage or transportation. If any damage please contact YILMAZ REDUKTOR.
- Be sure that you have all the equipment necessary for installing like; Spanners, torque wrench, shims and distance rings, fixing devices for input and output elements, lubricant, bolt adhesive etc.



*- This manual is not for ATEX 100a (94/9/EC) conforming gear units. For ATEX 100a (94/9/EC) conforming gear units refer to the ATEX range manual. ATEX 100a conforming gear units have name plates indicating the zone and the temperature class and are different from standard type geared units. Therefore Standard units can not be installed on Potentially explosive atmospheres.*

### b) Check the shaft dimensions to fit;

Type	Hollow Shaft Diameter	Hollow Shaft Tolerance (H8)	Output Shaft Diameter	Output Shaft Tolerance (DIN748) Up to 50mm k6 Over 50mm m6
YR.1125...	-	-	55	+0.03 +0.01
YR.1160...	-	-	70	+0.03 +0.01
YR.1200	-	-	90	+0.03 +0.01
YR.2195 YR.2240	50	+0.04 0	65	+0.03 +0.01
YR.2275 YR.3355	60	+0.05 0	75	+0.03 +0.01
YR.2305 YR.3395 YR.4395	85	+0.06 0	85	+0.04 +0.02
YR.2340 YR.3440 YR.4440	90	+0.06 0	95	+0.04 +0.02
YR.2385 YR.3500 YR.4500	95	+0.06 0	100	+0.04 +0.02
YR.2430 YR.3555 YR.4555	110	+0.06 0	110	+0.04 +0.02
YR.2480 YR.3620 YR.4620	140	+0.07 0	130	+0.04 +0.02
YR.2545 YR.3705 YR.4705	150	+0.07 0	140	+0.04 +0.02



**c) Check the ambient temperature;**

The ambient temperature must be in accordance with the oil tables given on this manual. If different contact YILMAZ REDUKTOR for special solutions.

**d) Check the voltage supply;**

The standard gearedmotors are supplied with 230/400 V 50/60Hz. up to 3kW including 3kW and 400/690 V 50/60 Hz. over 3kW and is indicated on the name plate unless it is differently ordered. In case of only gear unit is supplied from YILMAZ please observe the name plate of the electric motor and the instructions of the supplier. Check the basic electric connection diagrams below. Use experienced electric technician.



Using wrong connection or voltage can damage the electric motor or environment.

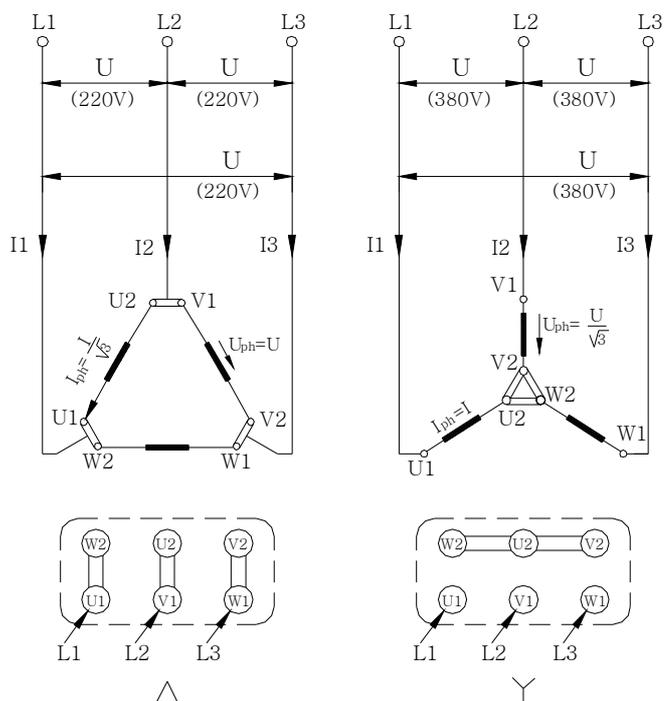
The following wiring diagram is for standart 230/400 V 50Hz AC electric motors. For different voltages please contact YILMAZ REDUKTOR. For gear units supplied without motor, refer to the motor manufacturers user manuel



The elctric connection must be done by experienced electric technician.

Pole Number	Nominal Powers at 400V, 50Hz	
	230V ( $\Delta$ ) / 400 V ( Y )	400V ( $\Delta$ )
2 or 4	$\leq 3$ kW	$\geq 4$ kW
6	$\leq 2,2$ kW	$\geq 3$ kW
8	$\leq 1,5$ kW	$\geq 2,2$ kW
Starting Principle	Direct	Direct or Y/ $\Delta$

**Basic motor connection wiring diagram**

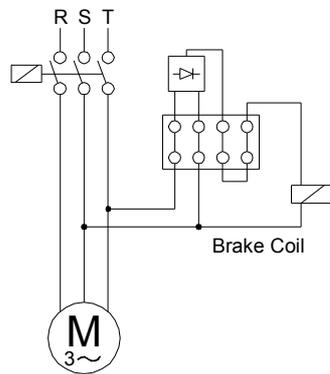




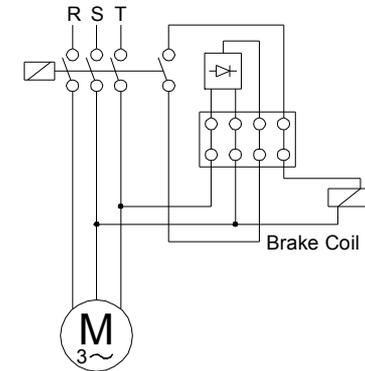
### Standard type brakes basic wiring diagram

*The electric connection must be done by experienced electric technician.*

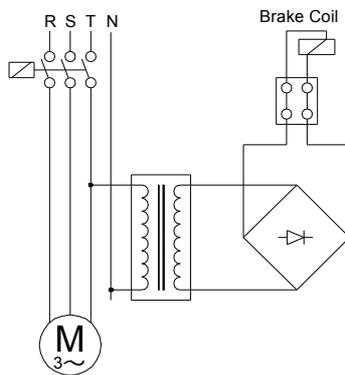
Delayed Running Brake ( 380 V )



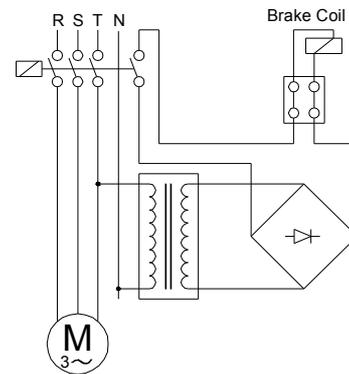
Sudden Brake (380 V)



Delayed Running Brake 4 ( 24 V )



Sudden Brake (24 V)





**e) Check the mounting position;**

The mounting position must be in accordance with the mounting position mentioned on the name plate. If different please contact YILMAZ REDUKTOR for possibilities of using in a different mounting position. Refer to the mounting positions and oil quantities on this manual and adjust the oil level accordingly with the recommended oil types given on this manual.



Do not mix synthetic oils with mineral oils which can cause serious damage on the gear unit.

**f) Use of breather plug;**

Breather plugs are not needed for K series under normal ambient and working conditions (Up to 30 degree Celsius ambient temperature and up to 8 hours per day) . If heavy ambient conditions and long time working hours then breather plug are recommended by YILMAZ REDUKTOR and delivered with the gearbox together. Replace the breather plug with the most top plug according to your mounting position.



Some plug positions are not machined according mounting position. If no mounting position is mentioned by ordering the standard B3 position plugs are machined.

**g) Check the oil level ;**

On the mounting position tables the oil level plug is shown. Please refer to those tables and be sure that the oil level is correct according the mounting position by screwing half way out the level plug and see if oil comes out from that plug. If oil comes out tighten the plug again. If no oil comes out take out the filling plug and add oil until oil comes out from the level plug and tighten both plugs after finish. Be sure you are using the correct oil mentioned on the oil tables on this manual.



Do not mix synthetic oils with mineral which can cause serious damage on the gear unit.

**h) Check shaft ends and mounting faces;**

Before you start to installing be sure that all the connection elements are free of oil and dust. The output shaft may be protected by anti-corrosion oil. Please remove this using available solvents on your market. By using this do not touch sealing lips or painting of the housing.

**i) Cover abrasive ambient;**

If the gear unit will be placed on a abrasive ambient be sure that the output seals are covered so that no abrasive material, chemicals or water touches the seals. Any pressure coming from outside over the seals can cause that the out staying substances to enter the gearbox and cause serious damage to the gear unit. If pressure or abrasive material can not be prevented from coming over the sealing, contact YILMAZ for solutions.



Abrasive material, chemicals, water, positive or negative pressure exceeding 0,2 bar can affect or damage the sealing lip or output shaft. Inside entering substances from the seals can cause serious damage to the gear unit.



**j) Check accessibility to filling, breather and drain plugs;**

The filling, breather and drain plugs must be freely accessible for further checking and service.

**6- Mechanical Installation**

The mounting plate must be rigid enough not allowing torsions, flat enough to prevent strains by tightening the bolts and stable enough not allowing vibrations. By using chain drives this becomes much more important because of the polygon effect on chain drives. According to your connection elements the maximal permitted radial and axial load of the gear unit must be in accordance with your application. Check the product catalogue for permitted radial loads and calculation.



*If the output or input shaft is overloaded by radial or axial loads it can cause serious damage to the gear unit.*

Secure the gear unit using 8.8 or higher quality bolts.



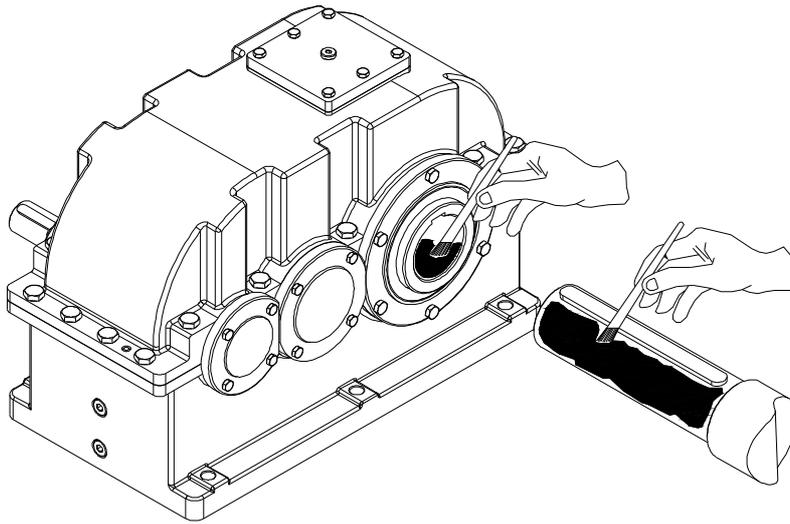
*Cover all the turning parts from human entering or touching. Turning parts can cause severe or fatal injuries.*

For different kind of basic installations refer to the following illustrations.

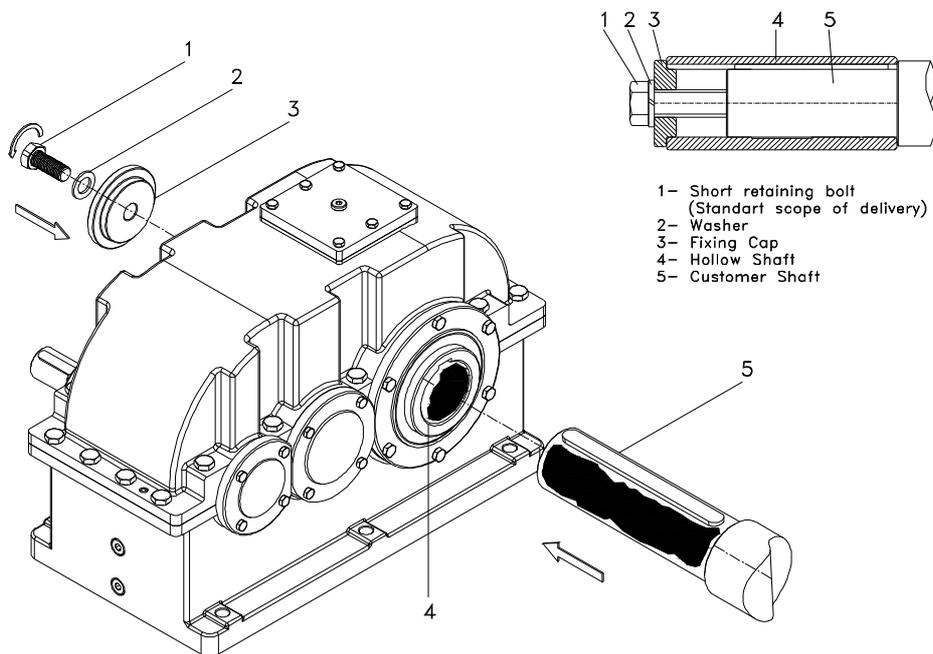


**a- Installing customer shaft with shoulder**

a1- Use anti-seize assembling paste available on your market. Use a brush to apply the paste.



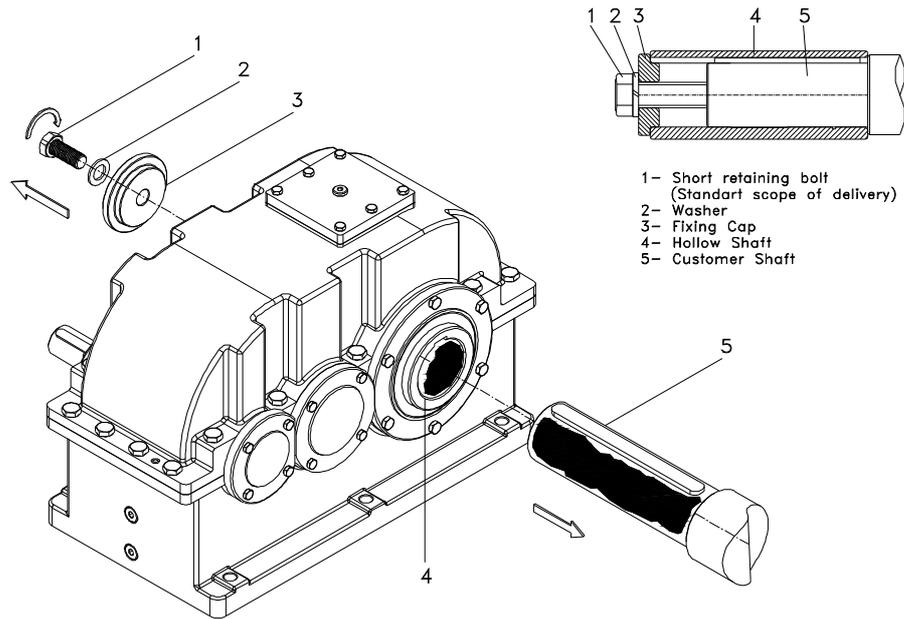
a2 -Fasten the bolt as shown below.



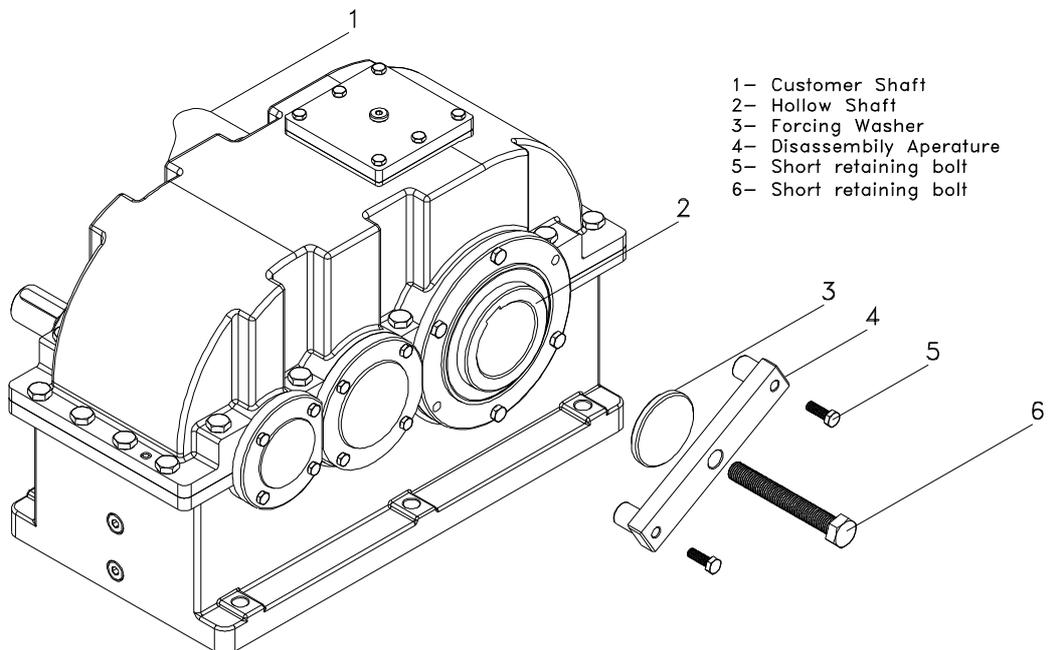


**e- Disassembling customer shaft with shoulder**

e1- Disassemble the bolt and take out the parts as shown

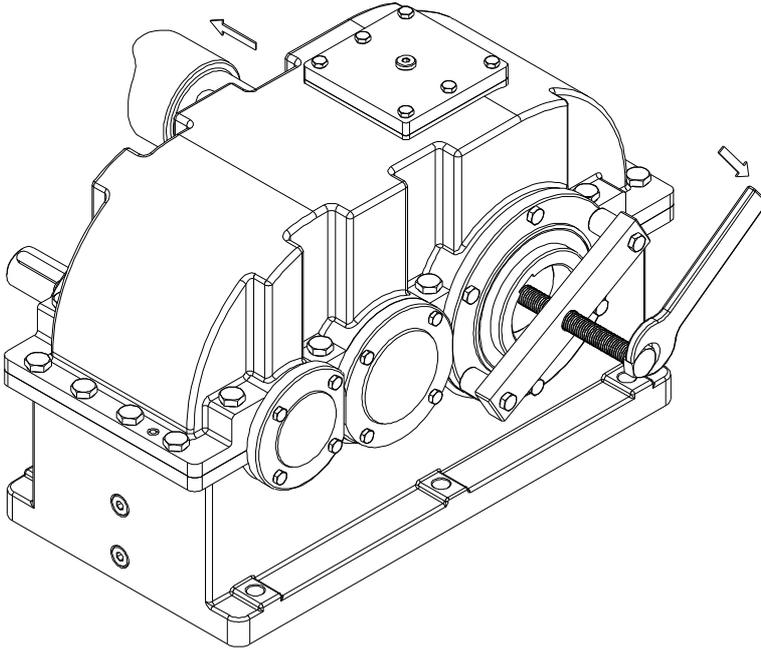


e2 -Use the disassemble set from YILMAZ and fasten the bold as shown bellow to take out the output shaft.





e3- Push the output shaft using disassemble set and tightening tne screw as shown on the following isustration.

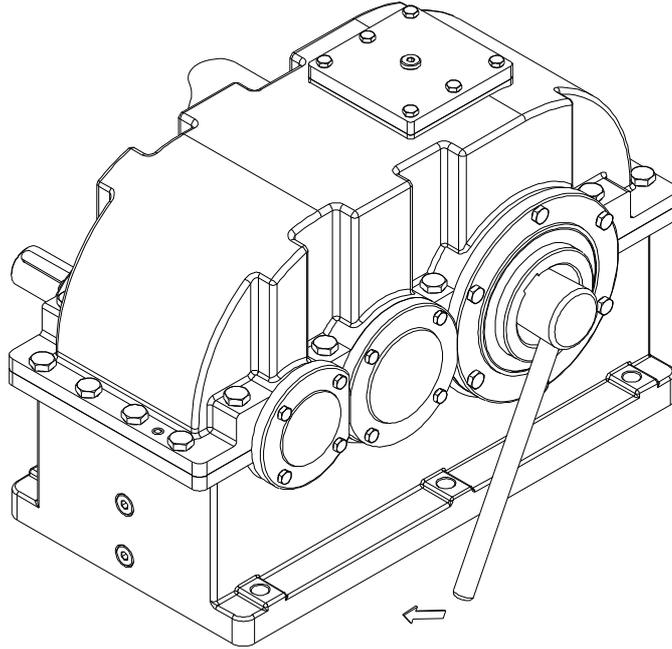






**e- Shaft tightening torques**

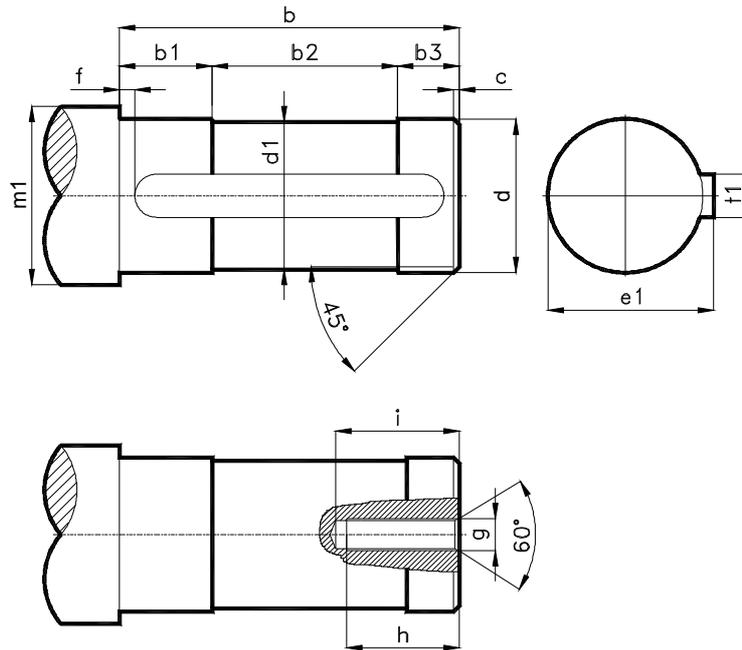
Use the following table for shaft tightening torques.



Tip	Civata	Sıkma M omenti [Nm]
YRD2240	M16	40
YRD2275	M20	80
YRD2305	M20	80
YRD2340	M24	200
YRD2385	M24	200
YRD2430	M24	200
YRD2480	M30	400
YRD2545	M30	400
YRD3355	M20	80
YRD3395	M20	80
YRD3440	M24	200
YRD3500	M24	200
YRD3555	M24	200
YRD3620	M30	200
YRD3705	M30	400
YRD4395	M20	80
YRD4440	M24	200
YRD4500	M24	200
YRD4555	M24	200
YRD4620	M30	400
YRD4705	M24	200



**f- Recommended shaft dimensions and disassembling nut dimensions**  
 Use the following part number for ordering the disassembling nut.



Tip	d	d1	b	b1	b2	b3	c	m1	f	h	i	g	e1	t1
YRD2240	50	49	240	65	125	50	3	68	5	36	45	M16	54	14
YRD2275	60	59	260	95	85	80	3	78	5	42	53	M20	64	16
YRD2305	85	84	320	110	115	95	4	117	5	42	53	M20	90	22
YRD2340	90	89	355	115	140	100	4	117	5	50	63	M24	95	25
YRD2385	95	94	355	125	120	110	4	127	5	50	63	M24	100	25
YRD2430	110	109	390	115	175	100	5	147	5	50	63	M24	116	28
YRD2480	140	139	470	165	155	150	5	176	5	60	77	M30	148	36
YRD2545	150	149	535	155	240	140	5	184	5	60	77	M30	158	36
YRD3355	60	59	260	95	85	80	3	78	5	42	53	M20	64	16
YRD3395	85	84	320	110	115	95	4	117	5	42	53	M20	90	22
YRD3440	90	89	355	120	130	105	4	117	5	50	63	M24	95	25
YRD3500	95	94	355	125	120	110	4	127	5	50	63	M24	100	25
YRD3555	110	109	390	115	175	100	5	147	5	50	63	M24	116	28
YRD3620	140	139	470	165	155	150	5	176	5	60	77	M30	148	36
YRD3705	150	149	535	155	240	140	5	184	5	60	77	M30	158	36
YRD4395	85	84	320	110	115	95	4	117	5	42	53	M20	90	22
YRD4440	90	89	335	120	110	105	4	117	5	50	63	M24	95	25
YRD4500	95	94	355	125	120	110	4	127	5	50	63	M24	100	25
YRD4555	110	109	390	115	175	100	5	147	5	50	63	M24	116	28
YRD4620	140	139	470	165	155	150	5	176	5	60	77	M30	148	36
YRD4705	150	149	535	155	240	140	5	184	5	60	77	M30	158	36



**g-Assembling customer shaft with shrink disk**  
g1- Loosen the bolts of the shrink disk

g2-Use a solvent available in your market to clean all the dirt and oil from the shaft and shrink disk hollow. The surfaces must be free from oil or any dirt. The solvent must be removed from the surfaces as well.



g3- Insert the shaft and tighten the bolts as shown. Be sure that there is a clearance between the shrink disk shoulder and the hollow shaft shoulder of the gearbox.



**h- Disassembling customer shaft with shrink disk**

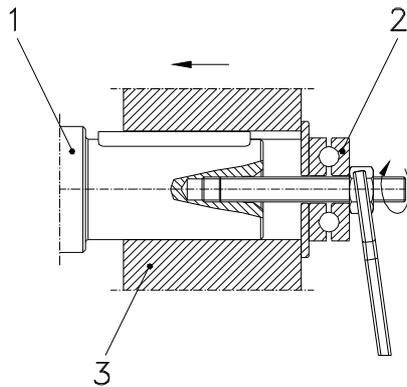
h1- Loosen the bolts of the shrink disk and take out the shaft.





**j- Fitting outputshaft elements**

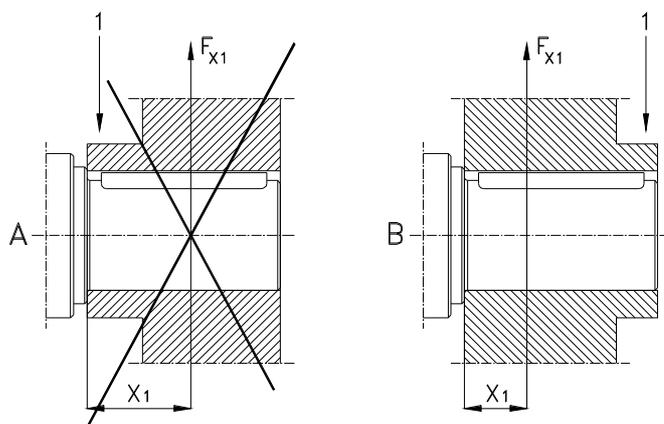
Use the following illustration to assemble output shaft units



- 1) Gear shaft end
- 2) Thrust bearing
- 3) Coupling hub

**k- Correct position of outputshaft elements**

The Output Shaft unit (transmission elements) must be placed as close as possible to the gear unit so that the radial load is as closest as possible to the gear unit.

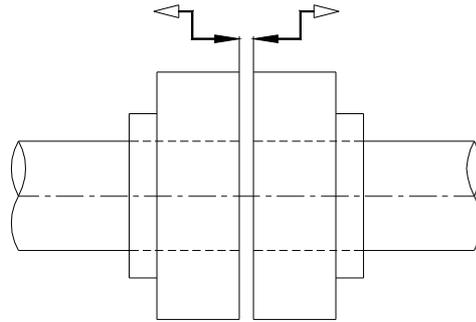


- 1) Hub

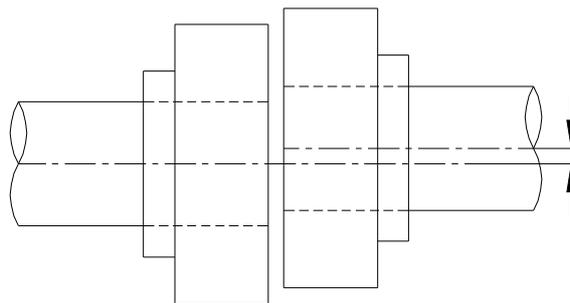


**1- Fitting Couplings**

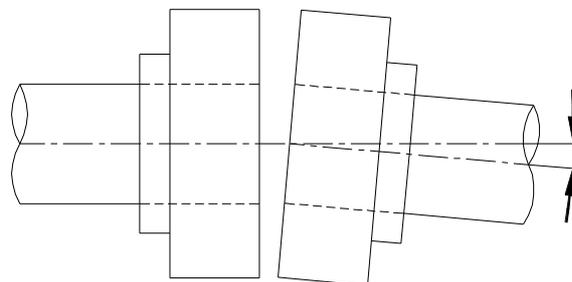
11-By fitting couplings be sure that there is some clearanve between the two elements



12-By fitting couplings be sure that there is no exantricity between the two shafts.



13-By fitting couplings be sure that the two shafts are not angular miss-aligned.

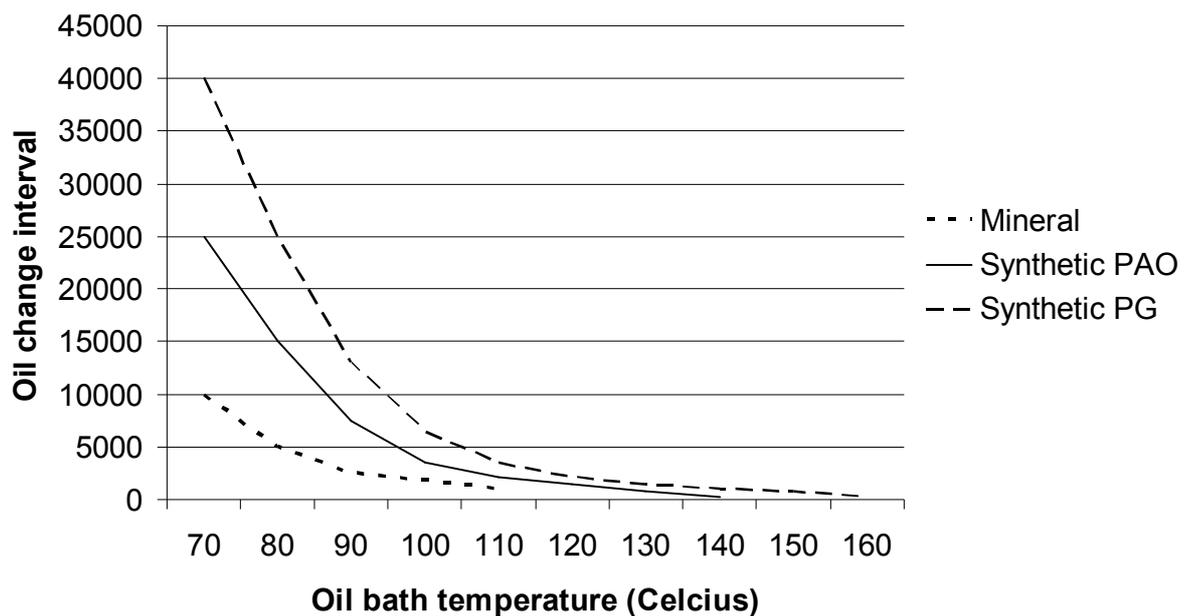




## 7- Inspections

Under normal ambient and working conditions the gear unit should be checked according the following intervals. (For definition of normal working conditions refer to the product catalogue: “Selecting Gearbox” section);

Item to check / replace	Every 3.000 working hours or every 6 months	Every 10.000 working hours or every 3 years	Every 25.000 working hours
Check for oil leakage	x		
Check for oil level	x		
Check oil leakage from seal	x		
Check Rubber buffer	x (Change if necessary)		
Change Mineral Oil		x (See Below for details)	
Change Synthetic-PAO Oil			x (See Below for details)
Change Sealing			x
Change Bearing Grease			x
Change Bearings			x
Check for noise Changes			x



*For normal ambient conditions 70 degrees Celcius Should be taken as reference*

\* For K series Mineral oil is used unless it is differently ordered. For oil type and quantities refer to the following tables.



## 9- Lubrication

### 9.1- Oil Types

Lubricant	Usage Temperature	ISO Viscosity Class	ARAL	bp	Castrol	KLOBER	Mobil	Shell	Castrol
Mineral Oil	0 ... +100	ISO VG 680	Degol BG 680	Energol GR-XP680	Spartan EP 680	GEM 1 680	Mobilgear 636	Omala 680	Alpha SP 680
	0 ... +100	ISO VG 460	Degol BG 460	Energol GR-XP460	Spartan EP 460	GEM 1 460	Mobilgear 634	Omala 460	Alpha SP 460
	0 ... +100	<b>ISO VG 320</b>	<b>Degol BG 320</b>	<b>Energol GR-XP320</b>	<b>Spartan EP 320</b>	<b>GEM 1 320</b>	<b>Mobilgear 632</b>	<b>Omala 320</b>	<b>Alpha SP 320</b>
	-5 ... +100	ISO VG 220	Degol BG 220	Energol GR-XP220	Spartan EP 220	GEM 1 220	Mobilgear 630	Omala 220	Alpha SP 220
	-5...+100	ISO VG 150	Degol BG 150	Energol GR-XP150	Spartan EP 150	GEM 1 150	Mobilgear 629	Omala 150	Alpha SP 150
	-5...+100	ISO VG 100	Degol BG100	Energol GR-XP100	Spartan EP 100	GEM 1 100	Mobilgear 627	Omala 100	Alpha SP 100
Synthetic Oil	-20 ... +140	ISO VG 680	Degol GS 680	Energol SG-XP680		Syntheso D 680 EP	Gylgoyle HE 680		
	-20 ... +140	ISO VG 460	Degol GS 460	Energol SG-XP460	Glycolube 460	Syntheso D 460 EP	Gylgoyle HE 460	Tivela SD	Alphasyn PG 460
	<b>-25 ... +140</b>	<b>ISO VG 320</b>	<b>Degol GS 320</b>	<b>Energol SG-XP320</b>	<b>Glycolube 320</b>	<b>Syntheso D 320 EP</b>	<b>Gylgoyle HE 320</b>		<b>Alphasyn PG 320</b>
	-25 ... +140	ISO VG 220	Degol GS 220	Energol SG-XP220		Syntheso D 220 EP	Gylgoyle HE 220	Tivela WB	Alphasyn PG 220
	-30 ... +140	ISO VG 150	Degol GS 150	Energol SG-XP 150		Syntheso D 150 EP			Alphasyn PG 150
	-30 ... +140	ISO VG 100		Energol SG-XP 100		Syntheso D 150 EP			
Mineral Grease	-20 ... +120		Aralup HL 3	Energol LS 3	Beacon 3	Centoplex 2	Mobilux 2	Alvania R3	Spheerol APT 3
Synthetic Grease	-30 ... +100					ISOFLEX Topas L152	Mobiltemp SHC 100	Cassida RLS 00	

### 9.2- Changing the oil

Refer to the nameplate to find out the correct oil filled inside the gearbox.



*-Do not mix sythetic oils with mineral oils which will cause serious damage to the gear unit. The oil change must be done by using the filling, draining and level plugs according the mounting position illustrated in section 9.4.*



*- Extended, intensive contact with oils can lead to skin irritations.*  
Avoid extended contact with oil, and clean oil off skin thoroughly.



*- Hot oil can cause scalding.*  
When changing oil, protect yourself against contacting hot oil.

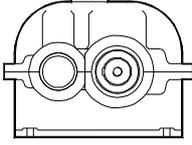
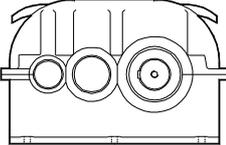
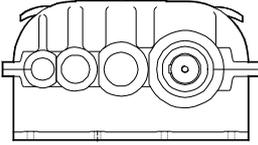
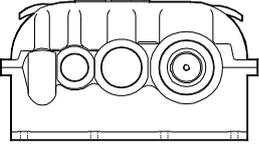
# Operating Instruction

## YR Series

### Oil Quantities



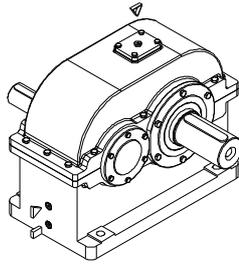
#### b- Oil Quantities. (lt)

Type				
YRM1125	5,0			
YRM1160	8,0			
YRM1200	14			
YRM2195		3,5		
YRM2240 / YRE2240		8,0 / 9,0		
YRM2275 / YRE2275		12 / 13		
YRM2305 / YRE2305		17 / 18		
YRM2340 / YRE2340		22 / 23		
YRM2385 / YRE2385		29 / 30		
YRM2430 / YRE2430		40 / 41		
YRM2480 / YRE2480		48 / 49		
YRM2545 / YRE2545		55 / 56		
YRM3355			13	
YRM3395			17	
YRM3440			25	
YRM3500			30	
YRM3555			46	
YRM3620			65	
YRM3705			93	
YRM4395				17
YRM4440				25
YRM4500				30
YRM4555				46
YRM4620				65
YRM4705				93

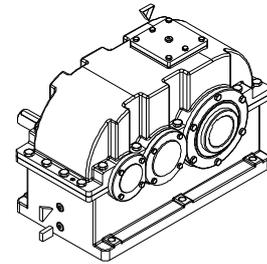
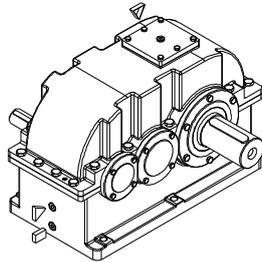


c- Mounting Positions

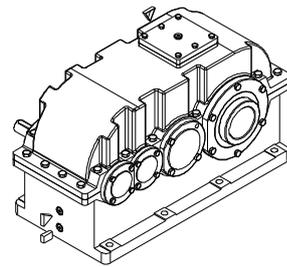
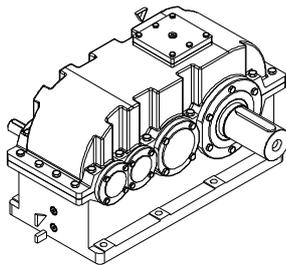
YR.1



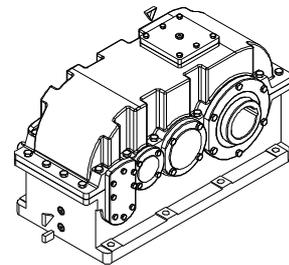
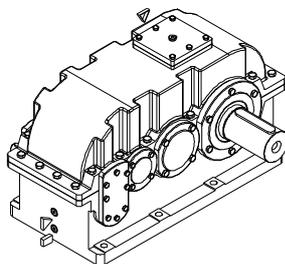
YR.2



YR.3



YR.4



Symbols :



: Drain plug



: Vent plug



: Oil level



: Only upon request



**Yilmaz Reduktor San. ve Tic. A.S.**

**Head Office:** Maltepe Gumussuyu Cad. Bestekar Medeni Aziz Efendi Sok. No:54 P.K.34020 Topkapi/Istanbul-TURKEY

Tel: +90 (0) 212 567 93 82/83 , Fax: +90 (0) 212 567 99 75

**Factory:** ATATURK mah. Lozan Cad. No:17 P.K.34522 Esenyurt-Istanbul- TURKIYE

Telefon: +90 (0) 212 886 90 01 - 6hat , Fax: +90 (0) 212 886 54 57

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**DECLARATION BY THE MANUFACTURER**

We **YILMAZ REDUKTOR Sanayi ve Ticaret A.S.**  
ATATÜRK mah. Lozan Cad. No:17 P.K.34522  
Esenyurt-İstanbul- TURKIYE  
Telefon: +90 (0) 212 886 90 01 - 6hat , Fax: +90 (0) 212 886 54 57

herewith declare, on our own responsibility, that the following products

**YR Series Gear Units and Geared Motors**

which this declaration refers to, is to be incorporated into machinery or assembled with other machinery to constitute machinery covered by the Machinery Directive is in conformity with the following standards

**EN 292-1, January 1996**  
**EN 292-2, January 1996**  
**IEC 34**

**The product this declaration refers to must not be put into service until the machinery into which it is to be incorporated has been declared in conformity with the provisions of the relevant European Directives.**

**TURKEY / Istanbul**  
**Date :**

**Authorized Person**

This declaration is not guarantee of charecteristics in the sense of the product liability law. The safety regulations of the maintenance instructions have to be observed.



## Warranty Conditions:

1. The geared motors and gear units are warranted for two year except the electric motor. For motor warranty please refer to the manual of the electric motor manufacturer or the warranty document of the motor manufacturer. This warranty is valid only if the gearbox is assembled and started up according our operating instructions and is used under the allowed conditions for the appropriate gearbox type in our catalogue.
2. The warranty time starts from the start up time written on the warranty document and last for two years. If the start-up time is more then three months after the billing time, the total warranty time is limited to 27 months starting from billing time. If the warranty document is not send to our company after start-up, the total warranty time will be limited to 24 months after the billing time.
3. Any time during the warranty for maintenance, repair or change will be added to the warranty time. This time starts from the date which the company or representative was made aware of the problem and ends on the date of the re-start-up.
4. If the product fails to operate because of a manufacturing or assembly failure during the warranty time, the product will be repaired free of charge.
5. If the product fails to operate because of a manufacturing or assembly failure during the warranty time and it is not possible to repair it, the product will be changed with a new one according to the report from our service department mentioning that the hazard can not be repaired.
6. Costumers must inform the manufacturer if there are some problems after the service and repair of the failed product.
7. The extra costs like stopped plant, physical or mental injuries etc. by the costumer side are not covered by this warranty except the product itself.

### **Yılmaz Redüktör San. ve Tic. A.Ş.**

**Head Office:** Maltepe Gümüşsuyu Cad. Bestekar Medeni Aziz Efendi Sok. No:54 P.K.34020 TOPKAPI-İSTANBUL-TURKEY Phone: +90 (0) 212 567 93 82/83 , Fax: +90 (0) 212 567 99 75

**Factory :** ATATÜRK mah. Lozan Cad. No:17 P.K.34522 Esenyurt-İstanbul- TURKİYE  
Telefon: +90 (0) 212 886 90 01 - 6hat , Fax: +90 (0) 212 886 54 57



## **Warranty**

YILMAZ REDÜKTÖR products are **warranted for 2 (Two) years** covering all parts and materials used in products and their production errors unless they are started-up and used according our service manual and is not modified or disassembled without an acknowledgement from our company.

The warranty covers all costs like repair, service, spare parts etc. and no charge will be asked under any name. The time for repair, service will be added to the warranty time.

For detailed warranty conditions please refer the back side of this page.

**Serial No:**

**Type:**

**Manufacturer:**

Company : YILMAZ REDÜKTÖR SANAYİ VE TİCARET A.Ş.

Address : Gümüşsuyu Cad. Bes.Medeni Aziz Efendi Sok. No:54  
Topkapı / Maltepe / İsyabul / TURKEY

Phone : +90 (0) 212 567 93 82 / 83 - +90 (0) 212 886 50 43/44

Fax : +90 (0) 212 567 99 75 - +90 (0) 212 886 54 57

**Stamp and Signature**

**Supplier / End User:**

Name:

Billing Date/ Bill No.:

Start-Up Place / Date:

Address:

Phone - Fax:

**Supplier/ End User Stamp and Signature**



