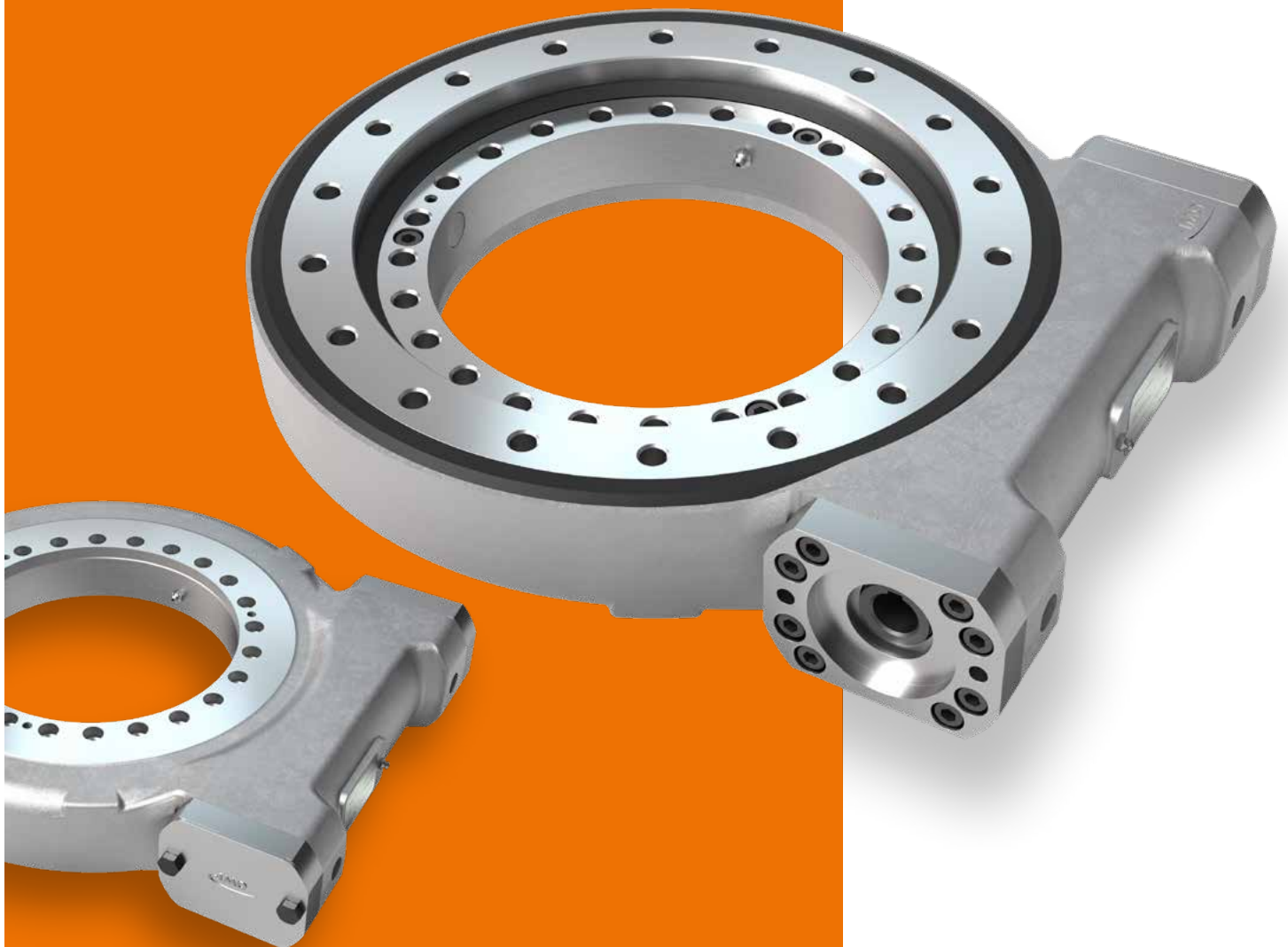


**More Power.  
Less Weight.**

WD-E 0343 **Alu Line**

**The Next  
Generation of  
Slew Drives**



In IMO development and research, engineers have implemented customer requirements and developed a new generation of the worm-driven slewing drive series: **The WD-E Alu Line series.**

Designed, calculated, and engineered using the finite element method. Subjected to a multitude of challenging tests on the test bench.

### 30% Higher Performance\*



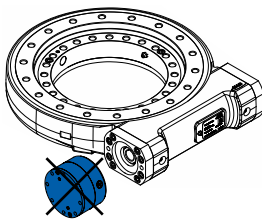
### 20% Less Weight



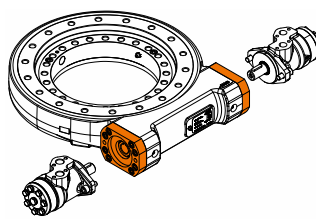
### 300% Longer Gear Life\*



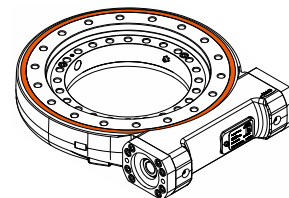
### No Brake Necessary\*\*



### Symmetrical Drive Input



### Optimized Sealing



\* at reference base 10,150 Nm nom. torque  
\*\* applies to the single start version

## Comparison in Detail

Details not listed are congruent. The WD-E slew drive replaces the WD-L without design changes.

#### Performance

Max. / Nom. Torque  
Max. Holding Torque

#### Housing

#### Weight (without Motor)

#### Gearing Operational Life Time (Safety factor against wear $S_w = 1$ at $n = 1 \text{ min}^{-1}$ )

#### Shock Resistance Worm Bearing

#### Symmetrical Drive Input

#### Self-locking

#### Position of the output shaft

#### Sealing

#### WD-E series Alu Line 0343 Single Start

13.000 / 13.000 Nm  
15.000 Nm

Aluminum

51,5 kg

1577 Hours at 10.150 Nm  
960 Hours at 13.000 Nm

+++++

Yes

Yes.  
No brake necessary.

Vertical

Optimized

#### WD-E series Alu Line 0343 Dual Start

13.000 / 13.000 Nm  
15.000 Nm

Aluminum

51,5 kg

2080 Hours at 10.150 Nm  
1266 Hours at 13.000 Nm

+++++

Yes

No.  
Additional brake necessary.

Freely to choose

Optimized

#### WD-L series 0343 Standard

12.905 Nm / 10.150 Nm  
12.905 Nm

Cast Iron

62 kg

500 Hours at 10.150 Nm

++++

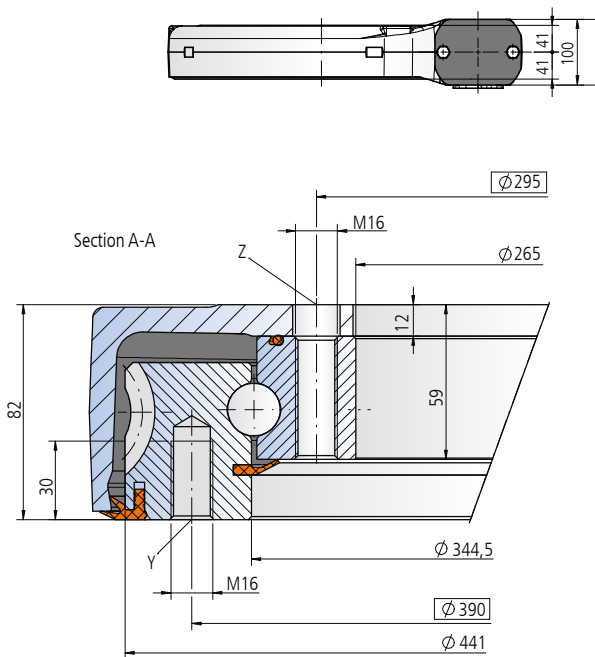
No

No.  
Additional brake necessary.

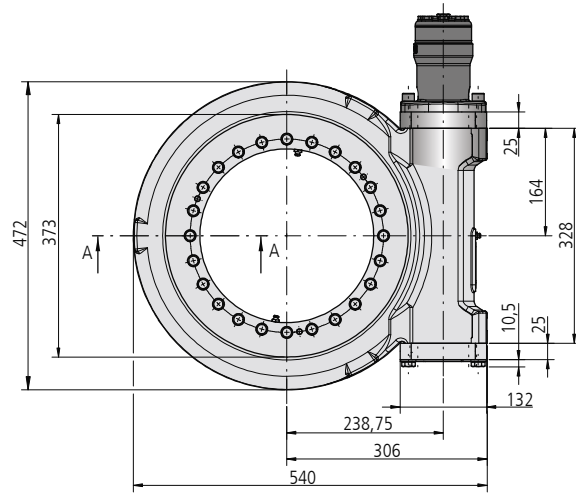
Freely to choose

Standard

## Size WD-E 0343 / ALU Housing / 1 Row / One Start / Dual Start / 1 Drive



The mounting structure must support the housing to at least  $\phi 343$  and at most to  $\phi 449$



### Mounting holes

Y = 18 drill holes M16-30 deep, evenly distributed

Z = 24 drill holes  $\phi 18$ -12 deep / M16, evenly distributed

### Lubricating ports

2 conical grease nipples on internal diameter

2 conical grease nipples on housing exterior

Slew drive supplied pre-lubricated

Drawing number WD-E 0343/3-13622

Drawing number WD-E 0343/3-13621

Module	<b>m</b>	[mm]	4,5	4,5
Number of starts wormshaft		[ - ]	1	2
Gear ratio	<b>i</b>	[ - ]	95	47,5
Self-locking gears			Yes**	No**
Max. torque	<b>M<sub>d max</sub></b>	[Nm]	13.000	13.000
Nom. torque at $n = 1 \text{ min}^{-1}$	<b>M<sub>d nom</sub></b>	[Nm]	13.000	13.000
Max. holding torque (static)	<b>M<sub>h max</sub></b>	[Nm]	15.000	15.000*
Static load, radial	<b>C<sub>o rad</sub></b>	[kN]	338	338
Static load, axial	<b>C<sub>o ax</sub></b>	[kN]	905	905
Dynamic load, radial	<b>C<sub>rad</sub></b>	[kN]	157	157
Dynamic load, axial	<b>C<sub>ax</sub></b>	[kN]	183	183
Weight, incl. 6 kg for hydraulic motor MPY160		[kg]	57,5	57,5

\* Optionally with brake

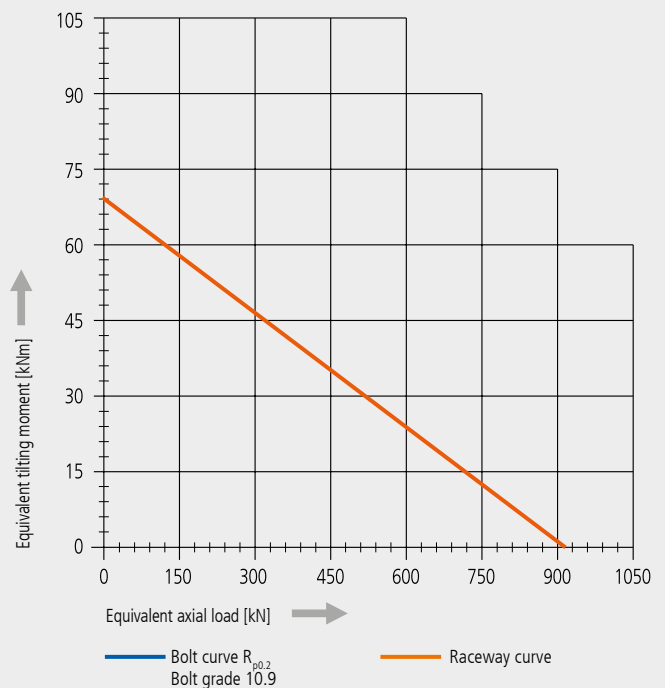
\*\* See: Technical information, section *Self-locking* in Catalog

Selection example:

Performance data with two hydraulic motor

			MPY160	HWF300
Pressure differential	<b><math>\Delta p</math></b>	[bar]	155	115
Oil flow	<b>Q</b>	[l/min]	20	30
Output speed	<b>n</b>	[min <sup>-1</sup> ]	1	1
Max. achievable torque	<b>M<sub>d</sub></b>	[Nm]	13.000	13.000

## Limiting load diagram for compressive loads



Please always observe the technical information in the catalog!



## Variety of Applications:

Examples of  
IMO WD-E 0343  
Alu Line



**IMO**

**IMO GmbH & Co. KG**

Imostrasse 1  
91350 Gremsdorf  
Germany

Telephone: +49 9193 6395-0  
Telefax: +49 9193 6395-1140  
sales@imo.de

[www.imo.de](http://www.imo.de)