

ULTAGE

ULTAGE Series

Thrust Spherical Roller Bearings



Shaft washer

- Optimal curvature

Cage

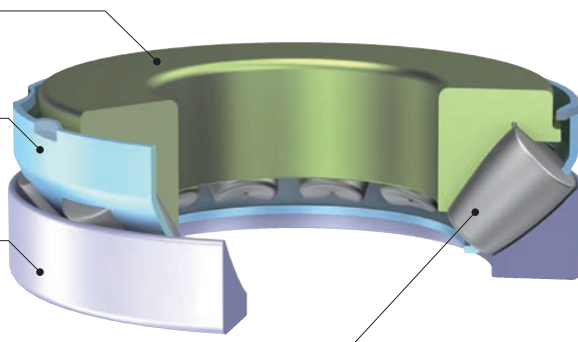
- Window-type pressed steel cage

Housing washer

- Optimal curvature

Roller

- Larger rollers
- Maximum number of rollers



Long operating life

- World's highest standard high-load capacity
- Extended maintenance cycle
- Heat resistant to 200°C

Enhanced high-speed performance

- World's highest standard maximum shaft speed
- Simple pressed steel pocket-type cage

Improved handling

- Easy to lubricate design
- Compatible with oil or grease lubrication

Features

● World's highest standard high-load capacity

Long operating life with high-load capacity has been achieved by maximizing the size and number of rollers.

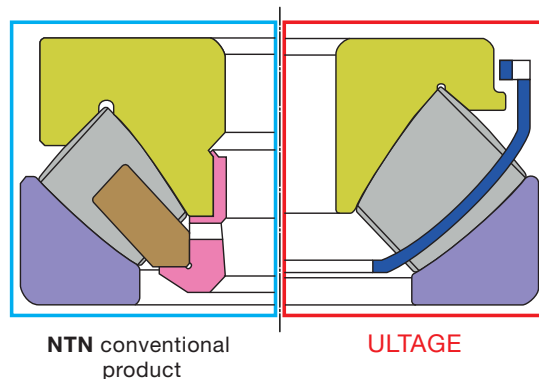
Basic dynamic load rating :
Up to **70% higher**
(compared to NTN conventional products)

Operating life :
Up to **6 times longer**
(compared to NTN conventional products)

● World's highest standard maximum shaft speed

High shaft speed has been achieved by using a new pressed steel cage.

Up to **20% higher**
(compared to NTN conventional products)



● Specifications for pressed steel pocket-type cage

Usage with lubrication by oil and grease has been made possible by using a simplified pressed steel cage-type cage, expanding the usage range.

● Heat resistant up to 200°C

Using a special heat treatment as standard, excellent dimensional stability in high-temperature applications yields a longer operating life.

Size Charts

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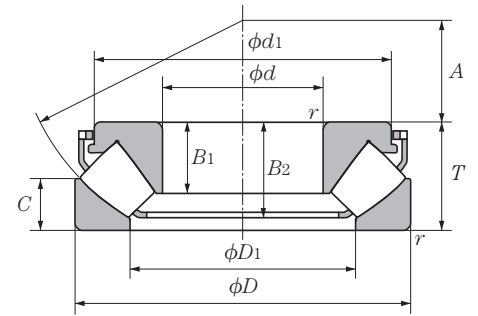
Bearing Number

294	20	E
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└ Bearing type code

└ Inside diameter

└ Bearing series (type code + height series code + diameter series code.)



Part Number	Basic Dimensions				Basic Dynamic Load Rating	Basic Static Load Rating	Basic Dynamic Load Rating	Basic Static Load Rating	Permitted Rotational Speed	
	mm				kN		kgf		min ⁻¹	
	<i>d</i>	<i>D</i>	<i>T</i>	<i>r</i> _{s min} ^①	<i>C</i> _a	<i>C</i> _{0a}	<i>C</i> _a	<i>C</i> _{0a}	Oil Lubrication	Grease Lubrication
29412E	60	130	42	0.5	451	928	45 900	94 700	3 050	1 650
29413E	65	140	45	2	531	1 120	54 200	114 000	2 850	1 530
29414E	70	150	48	2	608	1 290	62 000	132 000	2 650	1 420
29415E	75	160	51	2	675	1 470	68 800	150 000	2 500	1 330
29416E	80	170	54	2.1	788	1 690	80 400	173 000	2 350	1 250
29417E	85	180	58	2.1	820	1 860	83 600	190 000	2 200	1 170
29418E	90	190	60	2.1	934	2 050	95 200	209 000	2 100	1 110
29420E	100	210	67	3	1 170	2 570	119 000	262 000	1 850	1 000
29422E	110	230	73	3	1 380	3 100	141 000	316 000	1 700	900
29424E	120	250	78	4	1 520	3 550	155 000	362 000	1 550	830
29426E	130	270	85	4	1 770	4 270	181 000	435 000	1 450	760
29428E	140	280	85	4	1 850	4 350	188 000	443 000	1 400	710
29430E	150	300	90	4	2 200	5 270	225 000	537 000	1 300	660
29432E	160	320	95	5	2 410	5 790	246 000	590 000	1 200	620

① Indicates the minimum allowed chamfer dimension *r*.