

ULTAGE



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**SPHERICAL ROLLER BEARINGS**

Get bigger / Now up to 600 mm

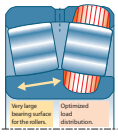


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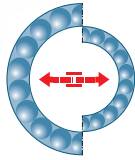


With You

## NOW YOU CAN BENEFIT FROM ALL THE ADVANTAGES OF THE ULTAGE GENERATION:



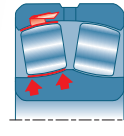
Surface optimisation



Improved performance  
-> reduced dimensions



Increased operating speeds



Reduced friction torque



Reduced power consumption



Reduced operating costs

**Designed for applications in extremely harsh operating environments (steelworks, paper mills, wind farms, mines and quarries, etc.), spherical roller bearings need to be able to withstand:**

- high loads and temperatures
- major misalignments
- polluted atmospheres
- impacts, vibrations.

All these conditions call for exceptional mechanical qualities.

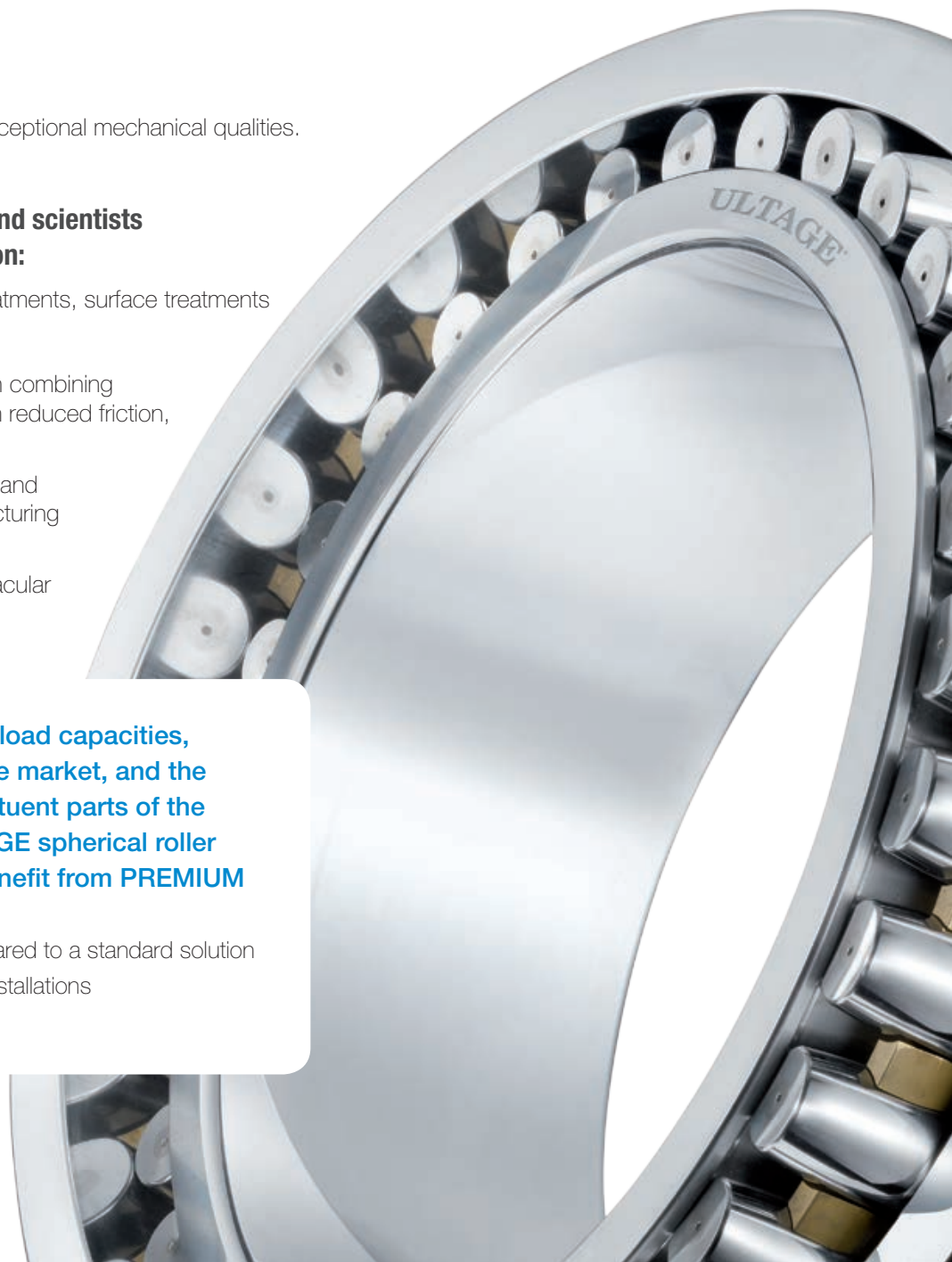
**The NTN-SNR engineers and scientists therefore work tirelessly on:**

- materials selection, heat treatments, surface treatments
- product design
- kinematics of bearings when combining the effects of lubrication with reduced friction, wear & tear and pollution
- manufacturing technologies and improvement of the manufacturing processes.

All this effort generates spectacular results.

**Thanks to their dynamic load capacities, among the highest on the market, and the optimisation of all constituent parts of the bearing, NTN-SNR ULTAGE spherical roller bearings allow you to benefit from PREMIUM performance:**

- double the service life compared to a standard solution
- improved reliability for your installations
- reduced costs of use.



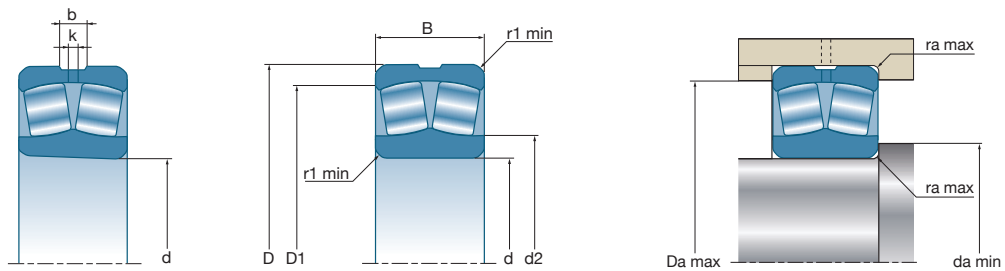
# ULTAGE SPHERICAL ROLLER BEARINGS ARE NOW UP TO 600 MM OUTSIDE DIAMETER

NTN-SNR has extended its premium quality to include larger size bearings.

Previously, Ultage Spherical Roller bearings were available with outside diameter up to 420mm. You can now benefit from all the advantages of the Ultage generation on larger size SRB with outside diameters up to 600mm.

The new range is fitted with massive brass cages. Some Spherical Roller bearings are also available with steel cages. They can be ordered with cylindrical or tapered bore. In case of tapered bore, a comprehensive range of adapter sleeves and withdrawal sleeves is available.

## List of large size Ultage double-row spherical roller bearings already available



Overall dimensions	d	D	B	ULTAGE	Designations	Load limit fatigue $C_u$	Basic capacity		Calcul factor				Limit speed	Weight	Number of holes	Dimensions					Fitting dimensions			
							Dynamic C	Static $C_0$	e	$Y_1$	$Y_2$	$Y_0$				tr/min	kg	b	k	$r_1$ min	$d_2$	$D_1$	$d_s$ min	$D_s$ max
mm	mm	mm	mm		Cylindrical bore	kN	kN								mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
220	460	145	*		22344EMW33	265	3 270	3 680	0,31	2,15	3,2	2,1	1 400	116	8	22,3	12	5	294,3	399,8	240	440	4	
240	400	160	*		24148EAW33	207	2 860	3 990	0,35	1,92	2,86	1,88	1 300	77	3	19,37	12	4	269	348,1	257	383	3	
	440	120	*		22248EMW33	234	2 500	3 550	0,25	2,74	4,08	2,68	1 800	84	8	21,07	12	4	323,5	390,1	257	423	3	
	440	160	*		23248EMW33	240	3 260	4 480	0,35	1,95	2,9	1,9	1 300	107	8	27	16	4	306,4	382,1	257	423	3	
	500	155	*		22348EMW33	307	3 800	4 310	0,31	2,18	3,24	2,13	1 300	147	8	20	12	5	319,9	435,4	260	480	4	
260	400	140	*		24052EAW33	203	2 520	3 820	0,31	2,16	3,22	2,12	1 600	62	3	19,3	8	4	286,2	353,9	275	385	3	
	440	144	*		23152EMW33	233	2 930	4 340	0,3	2,25	3,34	2,2	1 400	91	8	20,15	12	4	322,9	388,9	277	423	3	
	440	180	*		24152EMW33	253	3 690	5 230	0,39	1,72	2,56	1,68	1 200	111	8	28,73	16	4	304	376,7	277	423	3	
	480	174	*		23252EMW33	288	3 940	5 340	0,35	1,92	2,86	1,88	1 300	141	8	27	16	5	328,5	414,1	280	460	4	
280	460	146	*		23156EMW33	257	3 100	4 710	0,29	2,35	3,5	2,3	1 400	97	8	20	12	5	343,3	409,3	300	440	4	
	500	176	*		23256EMW33	302	4 040	5 510	0,33	2,03	3,02	1,98	1 200	148	8	28,9	16	5	350	437,6	300	480	4	
300	460	118	*		23060EMW33	251	2 420	4 230	0,22	3,07	4,57	3	1 500	75	8	16	10	4	369,3	420,1	315	445	3	
	460	160	*		24060EMW33	271	3 390	5 310	0,32	2,11	3,15	2,07	1 300	96	8	27	16	4	345	409,7	315	445	3	
	500	160	*		23160EMW33	303	3 770	5 350	0,29	2,28	3,39	2,23	1 300	127	8	27	16	5	361,6	443,5	320	480	4	
	500	200	*		24160EMW33	314	4 600	6 810	0,38	1,76	2,62	1,72	1 000	157	8	34,8	20	5	350,9	430,5	320	480	4	
320	540	192	*		23260EMW33	356	4 850	6 820	0,34	1,98	2,94	1,93	1 100	195	8	27	16	5	374,1	467,4	320	520	4	
	480	121	*		23064EMW33	274	2 420	4 000	0,24	2,84	4,23	2,78	1 400	80	8	20	12	4	381,6	440	335	465	3	
	480	121	*		23064EAW33	274	2 420	4 000	0,24	2,84	4,23	2,78	1 400	77	8	20	12	4	369,5	440	335	465	3	
340	540	176	*		23164EMW33	350	4 370	6 730	0,3	2,25	3,34	2,2	1 200	170	8	27	16	5	394,2	473,2	340	520	4	
	520	133	*		23068EMW33	334	3 220	4 970	0,23	2,9	4,31	2,83	1 400	105	8	20	12	5	401,8	474,9	358	502	4	
	580	190	*		23168EMW33	398	5 100	7 770	0,31	2,18	3,24	2,13	1 100	215	8	27	16	5	417,6	506,6	360	560	4	
360	540	134	*		23072EMW33	353	3 250	5 070	0,21	3,14	4,67	3,07	1 300	110	8	20	12	5	419,8	492,1	378	522	4	
	600	192	*		23172EMW33	407	5 150	8 160	0,3	2,28	3,39	2,23	1 000	226	8	27	16	5	445,8	531,7	380	580	4	
380	560	135	*		23076EMW33	373	3 380	5 620	0,22	3,07	4,57	3	1 200	118	8	20	12	5	442,6	512,5	398	542	4	
400	600	148	*		23080EMW33	417	4 010	6 680	0,22	3,01	4,48	2,94	1 200	153	8	20	12	5	470,4	546,8	418	582	4	

Bearings available with cylindrical or tapered bore. All types of clearances are available on stock or on request. \*NTN-SNR ULTAGE bearing. All other Ultage Spherical Roller Bearings from 420mm up to 650mm OD are available upon request.



# ULTAGE

## SPHERICAL ROLLER BEARINGS

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