SWS Bearings LTD -----

Your Reliable Bearings Factory



Email:sales@sws-bearings.com
Https://www.sws-bearings.com



SWS Bearings LTD is one of the most reliable bearings factories and exporters in China. We mainly supply roller and ball bearings.

SWS was founded in 2007, located in Changzhou city,jiangsu Province It just takes around 2 hours from Changzhou
to Shanghai by car, and very convenient transportation.

In 2009, SWS has invested three factories in Shandong, and Dalian city. Our products sell worldwide.
Our products and service include:

●Miniature and middle-large size deep groove ball bearing
●Double-row self-aligning roller bearing
●Four-row heavy type cylindrical roller bearing
●Self-aligning roller bearing
●Axial thrust ball bearing, thrust ball and roller bearing
●Single and double taper roller bearing
●Needle roller bearing
●High precision spindle bearing
●Pillow block bearing, bush, steel balls
●Technical support
●Maintenance
●Products training

Bore size range:3mm~6.5m
Weight range:10.5g~2.6ton

SWS bearings are widely used in railway, mining, mechanical equipment, automobile, ship, metallurgy, petrifaction,
electric power, agriculture, textile and aviation, etc.

SWS products have sell to Europe, Asia, America, south-east Asia, which are our most important market. We have spent much time on developing new products, and also produce top quality products. We are very popular in domestic and abroad.

Welcome your inquiry and Look forward our cooperation in the future.

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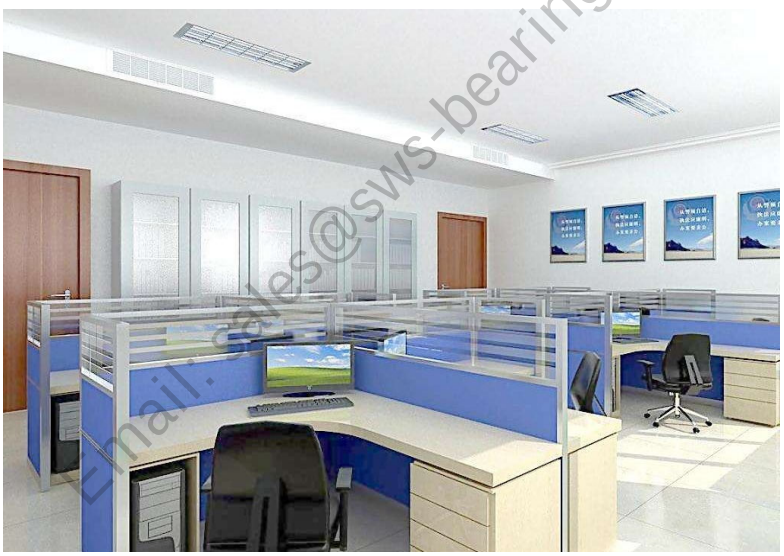
Factory



Equipment



Workshop



Office



Product



Product

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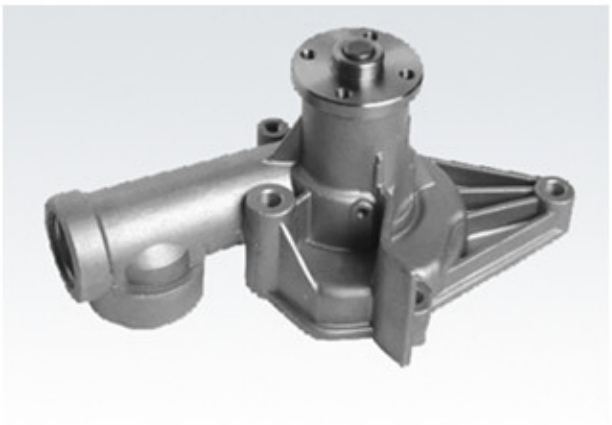






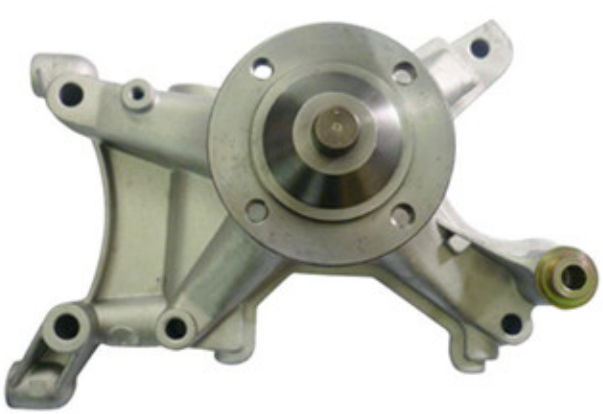


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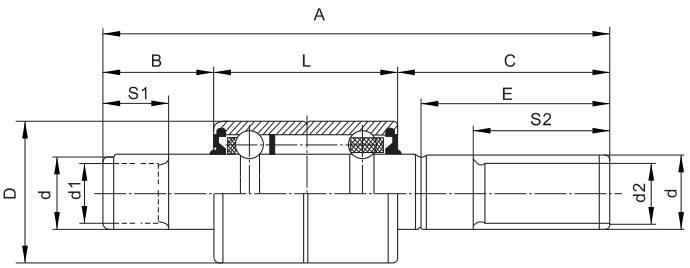




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Arrangement Ball-Ball "WB" Series



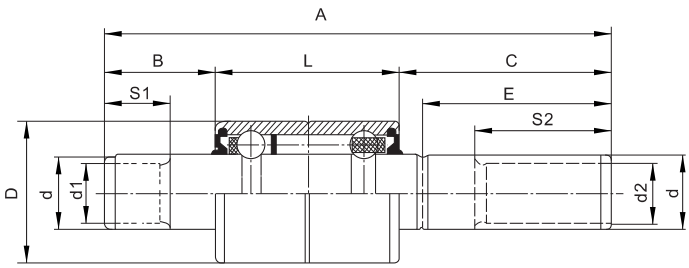


SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WB1224080	24.00	27.00	80.00	12.008	16.50	36.50					
WB1224080-1	24.00	27.00	80.20	12.037	17.40	35.80					
WB1224082	24.00	27.00	81.50	12.000	16.50	38.00					
WB1224085	24.00	27.00	85.00	12.037	21.00	37.00					
WB1224106	24.00	27.00	106.00	12.038	25.20	53.80					
WB1224084	24.00	33.38	83.90	12.037	28.32	22.20					
WB1224080-2	24.00	33.40	79.60	12.038	16.10	30.10					
WB1324080	24.00	33.40	80.00	12.738	14.20	32.40					
WB1224083	24.00	33.40	82.80	12.038	16.00	33.40					
WB1324083	24.00	33.40	83.44	12.738	16.19	33.85					
WB1224085-1	24.00	33.40	84.50	12.000	16.10	35.00					
WB1324101	24.00	33.40	100.84	12.738	25.03	42.41					
WB1324107	24.00	33.40	107.19	12.738	31.40	42.39					
WB1226080	26.00	27.00	80.00	12.000	16.50	36.50					
WB1226082	26.00	27.00	82.00	12.000	16.50	38.50					
WB1226089	26.00	30.00	89.00	12.000	18.00	41.00					
WB1226086	26.00	39.00	86.00	12.000	12.00	35.00					
WB1226090	26.00	39.00	89.50	12.000	16.50	34.00					
WB1226090-1	26.00	39.00	90.00	12.000	14.00	37.00					
WB1226092-1	26.00	39.00	92.00	12.000	19.00	34.00					
WB1226093	26.00	39.00	92.51	12.000	16.50	37.01					
WB1226095-1	26.00	39.00	94.49	12.050	21.38	34.11					
WB1226095	26.00	39.00	94.50	12.000	21.50	34.00					
WB1226098	26.00	39.00	98.00	12.000	21.00	38.00					
WB1226103	26.00	39.00	102.50	12.000	21.50	42.00					
WB1226104	26.00	39.00	103.50	12.000	21.50	43.00					
WB1226104-2	26.00	39.00	103.50	12.000	17.50	47.00					
WB1226104-1	26.00	39.00	104.00	12.000	22.00	43.00					
WB1226106	26.00	39.00	105.50	12.000	16.50	50.00					
WB1226092	26.00	40.00	92.00	12.006	17.00	35.00					
WB1226102	26.00	40.00	102.00	12.000	27.00	35.00					
WB1730075D	30.00	20.07	74.71	17.118	12.94	41.70		15.918		39.70	
WB1630065D	30.00	22.00	65.00	15.918	14.20	28.80		10.000		27.40	
WB1630074D	30.00	22.00	74.00	16.000	12.40	39.60		10.000		38.95	

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Arrangement Ball-Ball "WB" Series



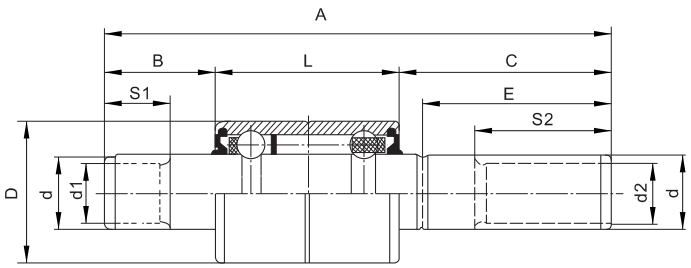


SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WB1630075	30.00	22.00	75.00	16.000	18.00	35.00					
WB1630078D	30.00	22.00	77.80	15.918	15.50	40.30		12.000		37.30	
WB1730071D	30.00	23.00	71.20	17.200	13.50	34.70		12.000		31.70	
WB1630073D	30.00	23.00	72.50	15.918	13.50	36.00		12.000		33.00	
WB1730075D-1	30.00	23.00	75.00	17.200	13.90	38.10		12.000		36.50	
WB1730075D-2	30.00	23.00	75.01	17.201	13.50	38.51		12.000		36.50	
WB1730078D	30.00	23.00	77.80	17.200	15.50	39.30		12.000		32.70	
WB1730078D-1	30.00	23.00	77.80	17.200	15.49	39.31		12.000		33.30	
WB1730079D	30.00	23.00	79.00	17.200	14.00	42.00		12.000		39.50	
WB1730080D	30.00	23.00	79.80	17.200	15.50	41.30		12.000		38.40	
WB1630082D-3	30.00	23.00	81.80	15.918	17.50	41.30		12.000		38.40	
WB1730093D	30.00	23.00	92.53	17.170	15.44	54.09		12.000		51.31	
WB1530067D	30.00	24.00	66.50	15.000	10.00	32.50		12.000		30.00	
WB1630071D	30.00	24.00	71.00	15.918	12.50	34.50		12.006		33.50	
WB1630083	30.00	25.00	83.15	15.918	16.05	42.10					
WB1630076D	30.00	27.00	75.50	15.918	18.50	30.00		12.000		28.00	
WB1630078D-1	30.00	27.00	77.75	15.918	18.75	32.00		12.000		30.00	
WB1630078D-3	30.00	27.00	78.40	15.918	16.20	35.20		12.000		34.00	
WB1630079D	30.00	27.00	78.50	15.918	15.00	36.50		12.000		34.00	
WB1630079D-1	30.00	27.00	78.90	15.918	15.50	36.40		12.000		33.40	
WB1630079	30.00	27.00	79.10	15.918	13.60	38.50					34.70
WB1630080	30.00	27.00	80.04	15.918	15.75	37.29					
WB1630081	30.00	27.00	81.00	16.000	18.00	36.00					
WB1630082D	30.00	27.00	81.50	15.918	18.00	36.50		12.008		34.50	
WB1630082D-1	30.00	27.00	81.75	15.918	17.24	37.51		12.038		35.15	
WB1630082D-2	30.00	27.00	81.84	15.918	17.35	37.49		12.037		35.33	
WB1630083-1	30.00	27.00	82.80	15.918	17.19	38.61					33.83
WB1630083-2	30.00	27.00	82.80	15.977	17.19	38.61					33.83
WB1630083D	30.00	27.00	83.30	15.918	18.78	37.52		12.008		28.72	
WB1630084	30.00	27.00	84.00	15.918	16.00	41.00					
WB1630084-1	30.00	27.00	84.00	16.000	14.00	43.00					
WB1630084D	30.00	27.00	84.30	15.918	20.80	36.50		12.008		34.50	
WB1630084D-1	30.00	27.00	84.38	15.918	20.57	36.81		12.088		35.00	
WB1630085-1	30.00	27.00	84.51	15.918	17.25	40.26					37.26

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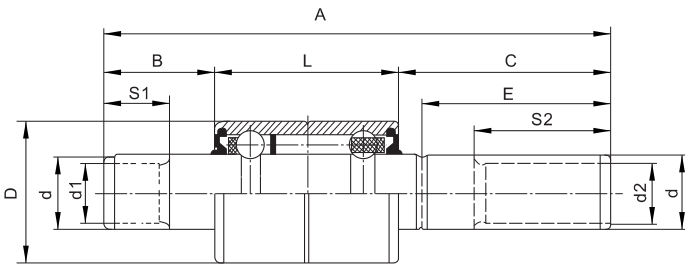


SWS NO.	Boundary dimension(mm)										
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WB1630085-4	30.00	27.00	84.51	15.977	17.25	40.26					
WB1630085D	30.00	27.00	84.63	15.918	17.27	40.36		12.038		38.36	
WB1630085D-7	30.00	27.00	84.63	15.969	17.27	40.36		12.088		38.36	
WB1630085	30.00	27.00	85.00	15.918	15.00	43.00					
WB1630085D-1	30.00	27.00	85.00	16.000	17.00	41.00		12.052		39.50	
WB1630085D-2	30.00	27.00	85.00	15.918	21.00	37.00		12.038		35.30	
WB1630085D-3	30.00	27.00	85.00	15.918	17.00	41.00		12.000		38.50	
WB1630085D-4	30.00	27.00	85.00	15.918	17.00	41.00		12.038		35.00	
WB1630086D	30.00	27.00	86.20	15.918	19.30	39.90		12.000		36.90	
WB1630088-1	30.00	27.00	88.00	15.918	18.00	43.00					
WB1630088-1-OS	30.00	27.00	88.00	15.976	18.00	43.00					
WB1630088D	30.00	27.00	88.00	15.918	18.00	43.00	12.000		7.50		
WB1630089D-1	30.00	27.00	89.30	15.918	21.00	41.30		12.000		38.00	
WB1630090D-1	30.00	27.00	90.00	15.918	15.50	47.50		12.000		42.50	
WB1630091-1	30.00	27.00	91.00	15.918	41.00	43.00					
WB1630094D-1	30.00	27.00	94.00	15.918	16.00	51.00		12.038		45.00	
WB1630094D-2	30.00	27.00	94.00	15.918	16.00	51.00		12.038		49.00	
WB1630096	30.00	27.00	96.00	15.918	17.00	52.00					
WB1630096D	30.00	27.00	96.00	15.918	15.00	54.00		12.000		40.00	
WB1630108	30.00	27.00	107.80	15.918	25.25	55.55					48.29
WB1630084-2	30.00	27.50	84.30	15.918	15.30	41.50					
WB1630085D-5	30.00	27.90	85.00	15.918	17.00	40.10		12.000		36.00	
WB1630085-2	30.00	27.94	84.51	15.918	17.37	39.20					33.32
WB1630091	30.00	27.94	90.88	15.918	15.67	47.27					40.00
WB1630108-1	30.00	27.94	107.80	15.918	24.31	55.55					48.29
WB1630090D-4	30.00	28.45	89.81	15.918	45.87	15.49	12.042		38.10		
WB1630084D-3	30.00	30.00	84.00	15.918	16.50	37.50		12.000		35.00	
WB1630086D-1	30.00	30.00	86.00	15.918	16.50	39.50		12.000		37.00	
WB1630086	30.00	30.00	86.20	15.918	16.30	39.90					
WB1630087	30.00	30.00	86.50	15.918	12.30	44.20				41.20	
WB1630087D	30.00	30.00	87.00	15.918	15.00	42.00		12.000		39.50	
WB1630088D-3	30.00	30.00	88.20	15.92	15.00	43.20		12.00		40.00	
WB1630089D	30.00	30.00	88.60	15.918	14.20	44.40		12.038		39.00	
WB1630089D-2	30.00	30.00	88.80	15.918	14.30	44.50		12.052		42.70	
WB1630094D-3	30.00	30.00	94.18	15.918	16.38	47.80		12.000		45.01	

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Arrangement Ball-Ball "WB" Series



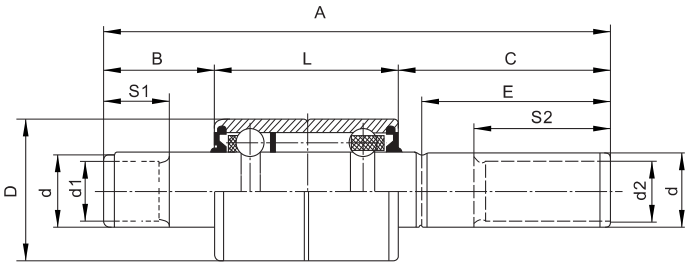


SWS NO.	Boundary dimension(mm)										
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WB1630084D-2	30.00	32.70	83.60	15.918	17.15	33.75		12.000		31.75	
WB1630083D-1	30.00	32.72	83.44	15.918	16.79	33.93		12.738		32.13	
WB1630091D-1	30.00	33.00	91.00	15.918	19.80	38.20		12.000		34.50	
WB1630080D	30.00	33.40	79.60	15.918	16.10	30.10		12.038		39.10	
WB1630083D-2	30.00	33.40	82.50	15.918	15.10	34.00		12.000		33.00	
WB1630080D-1	30.00	33.45	79.60	15.923	16.05	30.10		12.038		29.00	
WB1630083D-3	30.00	33.45	83.40	15.918	16.15	33.80		12.738		30.50	
WB1630085-3	30.00	33.45	85.40	16.000	16.15	35.80					
WB1530088	30.00	36.00	87.50	15.000	37.90	13.60					
WB1630088D-2	30.00	36.00	87.50	15.918	13.50	38.00		12.000		34.25	
WB1530088-2	30.00	36.00	88.00	15.008	17.00	35.00					
WB1630088D-4	30.00	36.00	88.00	15.918	14.00	38.00		12.000		36.00	
WB1630089	30.00	36.00	88.75	16.000	19.25	33.50					
WB1530088-3	30.00	36.50	87.50	15.000	16.60	34.40					
WB1630088D-1	30.00	36.50	88.00	15.918	14.00	37.50		12.000		36.00	
WB1630108-2	30.00	36.52	108.00	15.951	23.48	48.00					45.80
WB1630112	30.00	36.52	112.00	15.951	28.48	47.00					40.00
WB1630068	30.00	38.90	68.40	15.918	25.00	4.50					
WB1630073	30.00	38.90	73.40	15.918	4.00	30.50					
WB1630083-3	30.00	38.90	82.61	15.918	4.06	39.65					
WB1630084-3	30.00	38.90	84.33	15.918	14.34	31.09				23.83	
WB1630085D-8	30.00	38.90	84.99	15.977	12.99	33.10		12.050		30.00	
WB1630085D-6	30.00	38.90	85.20	15.918	31.10	15.20	12.042		29.20		
WB1630088	30.00	38.90	87.60	15.918	13.70	35.00					
WB1630088-2	30.00	38.90	88.00	15.918	12.50	36.60					
WB1630089D-3	30.00	38.90	89.15	15.918	16.72	33.53	11.95		6.10		
WB1630090D-2	30.00	38.90	90.00	15.963	14.10	37.00		12.057		35.50	
WB1630090	30.00	38.90	90.12	15.918	14.86	36.36					31.14
WB1630090D-3	30.00	38.90	90.17	15.918	15.46	35.81		12.037		33.78	
WB1630090D	30.00	38.90	90.35	15.918	34.30	17.15		12.000		15.10	
WB1630091D	30.00	38.90	91.00	15.963	12.10	40.00		12.057		38.50	
WB1630092D	30.00	38.90	91.80	15.918	36.90	16.00	12.675		34.50		
WB1630092D-1	30.00	38.90	91.85	15.918	20.37	32.58		12.675		31.00	
WB1530092DD	30.00	38.90	92.00	15.000	17.00	36.10	12.003	12.003	16.00	35.00	
WB1630092	30.00	38.90	92.00	16.000	15.50	37.50					34.50
WB1630092DD	30.00	38.90	92.40	15.918	16.40	37.10	12.000	12.000	14.50	35.00	

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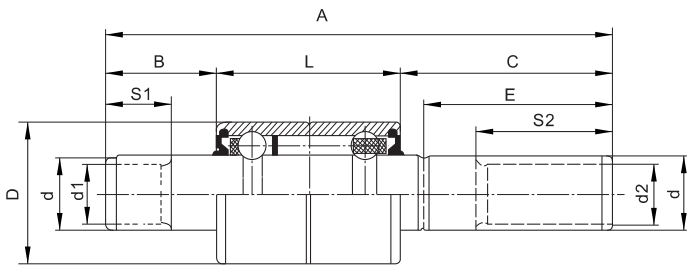


SWS NO.	Boundary dimension(mm)										
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WB1630092DD-1	30.00	38.90	92.40	15.918	16.40	37.10	12.000	12.000	14.50	35.00	
WB1630093D	30.00	38.90	92.46	15.918	16.48	37.08		12.037		34.54	
WB1630093D-1	30.00	38.90	92.50	15.918	16.50	37.10		12.000		34.50	
WB1630093DD	30.00	38.90	92.50	15.918	16.50	37.10	12.000	12.000	14.00	34.50	
WB1630093DD-1	30.00	38.90	92.51	15.918	16.60	37.01	12.000	12.000	15.00	34.49	
WB1630093D-2	30.00	38.90	92.58	15.918	16.42	37.26		12.000		34.80	
WB1630093	30.00	38.90	92.99	15.918	18.48	35.61					
WB1630094	30.00	38.90	93.90	15.918	15.14	39.86					32.25
WB1630094D	30.00	38.90	93.90	15.918	16.00	39.00		12.038		37.50	
WB1630094-1	30.00	38.90	94.35	15.918	17.50	37.95					
WB1630095DD	30.00	38.90	94.49	15.918	21.49	34.10	12.738	12.738	19.81	32.13	
WB1630095D	30.00	38.90	94.50	16.000	16.00	39.60		12.006		38.00	
WB1630096-1	30.00	38.90	95.45	15.918	14.23	42.32					39.12
WB1630096D-1	30.00	38.90	95.50	15.963	13.60	43.00		12.090		41.50	
WB1530097D-1	30.00	38.90	96.49	15.008	39.85	17.74	12.052		35.43		
WB1630079	30.00	38.90	96.60	16.000	17.90	39.80	15.008	12.052	16.90	35.50	
WB1530097D	30.00	38.90	97.00	15.008	20.00	38.10		12.738		37.10	
WB1530098	30.00	38.90	97.50	15.006	23.50	35.10					
WB1630098	30.00	38.90	97.50	15.918	16.60	42.00					
WB1630098D	30.00	38.90	97.66	15.918	20.00	38.76		12.030		36.80	
WB1530098-1	30.00	38.90	98.00	15.000	20.00	39.10					
WB1630098-1	30.00	38.90	98.00	16.000	18.00	41.00					38.00
WB1630098-2	30.00	38.90	98.00	15.918	42.09	17.01					
WB1630098-3	30.00	38.90	98.00	15.918	20.00	39.10					
WB1630098-4	30.00	38.90	98.00	15.918	18.00	41.10					
WB1630098-5	30.00	38.90	98.00	15.977	17.01	42.09					
WB1630098D-1	30.00	38.90	98.00	15.918	16.50	42.60		12.000		40.11	
WB1630098D-2	30.00	38.90	98.00	16.000	18.10	41.00		12.000		39.00	
WB1630098D-3	30.00	38.90	98.43	15.918	22.47	37.06		12.008		33.93	
WB1630098D-4	30.00	38.90	98.43	15.969	22.47	37.06		12.057		33.93	
WB1630099D	30.00	38.90	98.50	15.918	22.44	37.16		12.000		33.76	
WB1630099D-1	30.00	38.90	99.00	15.918	21.00	39.10		12.000		35.50	
WB1630100DD	30.00	38.90	99.50	15.918	16.50	44.10	12.000	12.000	14.00	41.50	
WB1530100	30.00	38.90	100.00	15.000	19.80	41.30					
WB1630100D	30.00	38.90	100.00	15.918	23.99	37.11		12.000		35.08	

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Arrangement Ball-Ball "WB" Series



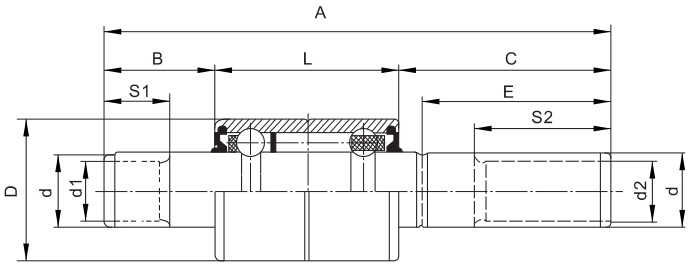


SWS NO.	Boundary dimension(mm)										
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WB1630100D-1	30.00	38.90	100.00	15.918	24.10	37.00		12.000		33.85	
WB1630101D	30.00	38.90	101.00	15.918	25.00	37.10		12.000		35.50	
WB1630101DD	30.00	38.90	101.00	16.000	21.10	41.00	12.006	12.006	19.00	40.00	
WB1630102	30.00	38.90	101.50	15.939	17.49	45.11					
WB1630102-1	30.00	38.90	101.50	15.918	22.60	40.00					
WB1630102-2	30.00	38.90	101.50	15.989	17.49	45.11					38.76
WB1630102D	30.00	38.90	101.50	15.989	17.49	45.11		12.089		43.30	
WB1630103	30.00	38.90	102.49	15.918	17.87	45.72					38.46
WB1630103DH	30.00	38.90	102.50	15.918	19.50	44.10		12.000		40.50	
WB1630103D	30.00	38.90	102.62	15.918	22.45	41.27		12.675		38.10	
WB1630103-1	30.00	38.90	102.80	16.000	18.10	45.80					42.90
WB1630103D-1	30.00	38.90	102.87	15.918	22.57	41.40		12.675		38.23	
WB1630103-2	30.00	38.90	102.90	15.918	23.10	40.90					38.35
WB1630103D-2	30.00	38.90	103.00	15.918	16.50	47.60		12.000		43.00	
WB1630103-3	30.00	38.90	103.17	15.918	22.99	41.28					
WB1630103-4	30.00	38.90	103.18	15.918	23.40	40.88					32.88
WB1630103-5	30.00	38.90	103.20	15.918	23.40	40.90					36.10
WB1630103-6	30.00	38.90	103.20	15.976	23.40	40.90					36.10
WB1630104D-1	30.00	38.90	103.50	15.963	17.10	47.50		12.037		46.00	
WB1630104D	30.00	38.90	104.00	15.918	20.00	45.10		12.000		43.00	
WB1630105D-2	30.00	38.90	105.00	15.963	30.10	36.00		12.022		34.50	
WB1630105D	30.00	38.90	105.10	15.918	31.00	35.20		12.000		32.60	
WB1630105-1	30.00	38.90	105.20	15.918	23.83	42.47					
WB1630105	30.00	38.90	105.40	15.918	20.30	46.20					41.40
WB1630105-2	30.00	38.90	105.40	15.977	20.30	46.20					41.40
WB1630105D-1	30.00	38.90	105.41	15.918	23.33	43.18		12.037		39.62	
WB1630106D-1	30.00	38.90	105.51	15.918	23.51	43.10		12.007		40.49	
WB1630106DD	30.00	38.90	105.90	15.92	15.90	51.10	12.00	12.00	13.00	46.00	
WB1630106	30.00	38.90	105.97	15.918	20.64	46.43					40.84
WB1630106D	30.00	38.90	105.99	15.918	29.99	37.10		12.007		33.50	
WB1630106H	30.00	38.90	106.00	16.000	26.10	41.00				38.00	
WB1630106D-2	30.00	38.90	106.17	15.918	24.87	42.40		12.738		38.86	
WB1630106D-3	30.00	38.90	106.20	15.918	18.50	48.80		12.000		41.00	
WB1630106D-4	30.00	38.90	106.20	15.918	42.20	25.10	12.738		38.90		
WB1630106-1	30.00	38.90	106.25	15.994	26.22	41.13					

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Arrangement Ball-Ball "WB" Series



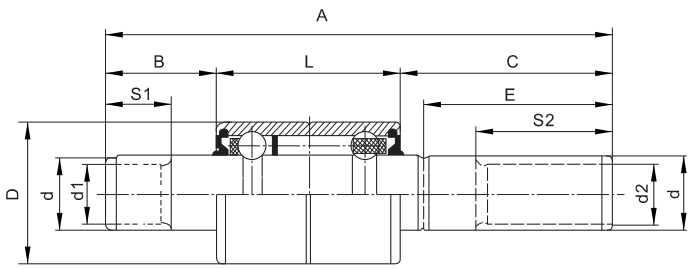


SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WB1530107	30.00	38.90	106.50	15.008	20.10	47.50					
WB1530107D	30.00	38.90	106.50	15.008	39.90	27.70	12.052		38.00		
WB1630107D	30.00	38.90	106.50	15.918	22.00	45.60		12.000		43.50	
WB1630107H	30.00	38.90	106.50	16.000	20.10	47.50					
WB1630107D-1	30.00	38.90	107.00	15.918	29.00	39.10		12.000		36.50	
WB1630107D-2	30.00	38.90	107.00	15.918	25.00	43.10		12.000		40.00	
WB1630108D	30.00	38.90	108.00	16.000	26.00	43.10		12.000		39.50	
WB1630109D	30.00	38.90	108.74	15.918	42.86	26.98	12.789		33.32		
WB1630110D-1	30.00	38.90	109.45	15.918	25.25	45.30		12.008		41.70	
WB1630110D	30.00	38.90	109.50	15.918	25.12	45.48		12.038		42.22	
WB1630110-3	30.00	38.90	109.52	15.918	14.68	55.94					
WB1630110-1	30.00	38.90	110.00	15.918	28.94	42.16					37.30
WB1630110-4	30.00	38.90	110.21	15.918	23.76	47.55					
WB1630110-2	30.00	38.90	110.40	15.918	21.36	50.14					41.00
WB1630110-6	30.00	38.90	110.40	15.977	21.36	50.14					41.00
WB1630112-1	30.00	38.90	111.51	15.918	23.79	48.82					42.47
WB1630112-4	30.00	38.90	111.57	15.918	23.85	48.82					
WB1630112-2	30.00	38.90	111.76	15.918	29.20	43.66					38.86
WB1630112-3	30.00	38.90	111.99	15.918	46.08	27.01					
WB1630112D	30.00	38.90	112.00	16.000	30.00	43.10		12.000		39.50	
WB1630113H	30.00	38.90	113.10	15.918	31.70	42.50					36.10
WB1630113	30.00	38.90	113.11	15.918	31.72	42.49					36.14
WB1630113-3	30.00	38.90	113.11	15.969	31.72	42.49					36.14
WB1630113D	30.00	38.90	113.20	15.918	30.20	44.10		12.766		35.20	
WB1630113-1	30.00	38.90	113.21	15.918	42.38	31.93					
WB1630113-2	30.00	38.90	113.40	15.918	33.00	41.50					
WB1630114-2	30.00	38.90	113.49	15.918	27.37	47.22					39.37
WB1630114	30.00	38.90	113.51	15.918	27.39	47.22					42.44
WB1630114-3	30.00	38.90	113.51	15.977	27.39	47.22					42.44
WB1630114D-2	30.00	38.90	113.60	15.92	27.40	47.30		12.68		43.00	
WB1630114D	30.00	38.90	114.00	15.918	19.10	56.00		12.000		46.00	
WB1630114D-1	30.00	38.90	114.00	16.000	32.00	43.10		12.000		39.50	
WB1630114-1	30.00	38.90	114.30	15.918	31.99	43.41					34.26
WB1630115D-1	30.00	38.90	115.00	15.918	16.50	59.60		12.000		36.00	
WB1630115D	30.00	38.90	115.01	15.918	16.48	59.63		12.037		40.01	

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Arrangement Ball-Ball "WB" Series



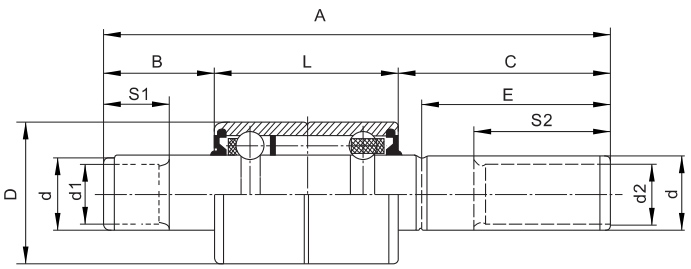


SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WB1630116-3	30.00	38.90	115.49	15.918	20.48	56.11					
WB1630116-4	30.00	38.90	115.49	15.969	20.48	56.11					
WB1530116	30.00	38.90	115.50	15.008	36.70	39.90					33.55
WB1630116-1	30.00	38.90	115.75	15.918	26.85	50.00					
WB1630116-2	30.00	38.90	115.85	15.918	26.96	49.99					45.39
WB1530116-1	30.00	38.90	116.00	15.008	27.10	50.00					
WB1630116	30.00	38.90	116.00	15.918	27.14	49.96					
WB1630118D	30.00	38.90	118.00	15.918	30.00	49.10		12.000		44.50	
WB1530119	30.00	38.90	118.50	15.008	15.50	64.10					
WB1630119-1	30.00	38.90	119.00	15.918	37.10	43.00					
WB1630119-2	30.00	38.90	119.05	15.977	37.30	42.85					
WB1630119	30.00	38.90	119.10	15.918	37.30	42.90					36.50
WB1630119-3	30.00	38.90	119.10	16.000	41.10	41.10					
WB1630121	30.00	38.90	120.65	15.918	29.35	52.40					46.05
WB1630121-1	30.00	38.90	120.65	15.918	35.64	46.11					
WB1630121-2	30.00	38.90	120.90	15.918	29.50	52.50					
WB1630122D	30.00	38.90	121.92	15.918	50.33	32.69	12.703		44.70		
WB1630122-1	30.00	38.90	122.20	15.918	33.90	49.40					44.60
WB1630122	30.00	38.90	122.24	15.918	28.55	54.79					49.20
WB1630122-2	30.00	38.90	122.25	15.939	40.17	43.18					38.28
WB1630122-3	30.00	38.90	122.25	15.989	40.17	43.18					38.28
WB1630122D-1	30.00	38.90	122.43	15.918	26.25	57.28		12.037		44.17	
WB1630122D-2	30.00	38.90	122.43	15.969	26.25	57.28		12.050		44.17	
WB1630123	30.00	38.90	123.01	15.918	19.01	65.10					
WB1630123-1	30.00	38.90	123.19	15.918	19.27	65.02					60.25
WB1630124	30.00	38.90	123.67	15.918	31.73	53.04					44.45
WB1630124-1	30.00	38.90	123.67	15.969	31.73	53.04					44.45
WB1630124D	30.00	38.90	124.00	16.000	42.00	43.10		12.000		39.50	
WB1630124D-1	30.00	38.90	124.00	15.918	42.00	43.10		12.007		40.49	
WB1630124D-2	30.00	38.90	124.00	15.918	42.00	43.10		12.000		41.00	
WB1630125	30.00	38.90	125.40	15.918	23.50	63.00				60.00	
WB1630125-1	30.00	57.15	125.00	15.918	24.35	43.50					
WB1630126	30.00	38.90	126.00	16.000	27.10	60.00					
WB1630126-1	30.00	38.90	126.24	15.918	36.74	50.60					44.25
WB1630127	30.00	38.90	127.00	15.918	25.40	62.70					

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Arrangement Ball-Ball "WB" Series



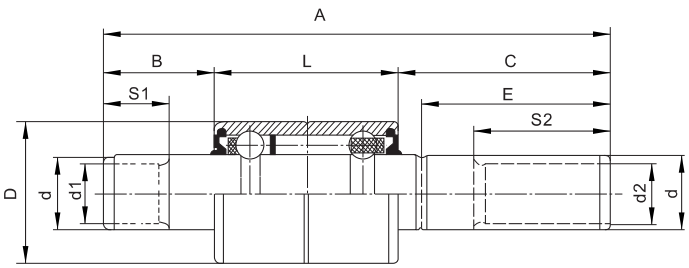


SWS NO.	Boundary dimension(mm)										
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WB1630127D	30.00	38.90	127.00	15.918	28.41	59.69		12.000		48.26	
WB1630129	30.00	38.90	128.98	15.918	31.74	58.34					53.57
WB1630132	30.00	38.90	132.13	15.938	40.17	53.06					48.26
WB1630132-1	30.00	38.90	132.16	15.918	50.41	42.85					36.50
WB1630133	30.00	38.90	132.64	15.938	29.77	63.97					59.21
WB1630133-1	30.00	38.90	133.10	15.918	38.70	55.50					50.61
WB1630135D	30.00	38.90	134.90	16.000	26.00	70.00		12.000		39.50	
WB1630135	30.00	38.90	135.00	15.918	24.94	71.16					
WB1630135-1	30.00	38.90	135.28	15.918	50.79	45.59					40.77
WB1630136	30.00	38.90	136.00	15.918	67.10	30.00					
WB1630136-1	30.00	38.90	136.40	15.918	39.10	58.40					48.24
WB1630136-2	30.00	38.90	136.40	15.918	39.03	58.47					48.97
WB1630136-3	30.00	38.90	136.40	15.918	39.10	58.40					53.60
WB1630137	30.00	38.90	136.50	15.918	39.70	57.90					
WB1630137-1	30.00	38.90	136.66	15.918	39.17	58.59					49.00
WB1630137-2	30.00	38.90	136.66	15.918	39.17	58.59					
WB1630137D	30.00	38.90	136.66	16.000	39.17	58.59		12.100		56.59	
WB1630138	30.00	38.90	138.10	15.918	58.33	40.87					34.54
WB1630139	30.00	38.90	139.32	15.918	35.04	65.38					56.24
WB1630139-1	30.00	38.90	139.32	15.977	35.04	65.38					56.24
WB1630142H	30.00	38.90	142.00	15.918	39.60	63.50					55.50
WB1630143	30.00	38.90	142.89	15.918	40.08	63.91					57.56
WB1630143-1	30.00	38.90	142.89	15.977	40.08	63.91					57.56
WB1630146	30.00	38.90	146.00	15.918	61.70	45.40					
WB1630146-1	30.00	38.90	146.05	15.918	61.71	45.44					40.69
WB1630146-2	30.00	38.90	146.20	15.918	61.71	45.59					40.770
WB1630148	30.00	38.90	148.00	15.918	28.50	80.60					
WB1630154	30.00	38.90	154.20	15.938	29.80	85.50					79.20
WB1630154-1	30.00	38.90	154.20	15.989	29.80	85.50					79.20
WB1630156	30.00	38.90	155.45	15.918	69.84	46.71					41.96
WB1630162	30.00	38.90	161.92	15.918	58.34	64.68					59.13
WB1630104	30.00	38.91	103.50	15.918	25.80	38.80					
WB1630128	30.00	38.91	127.78	15.918	25.80	63.10					56.75
WB1630067	30.00	39.00	67.00	16.000	26.00	2.00					
WB1530091	30.00	39.00	91.00	15.008	17.00	35.00					

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Arrangement Ball-Ball "WB" Series



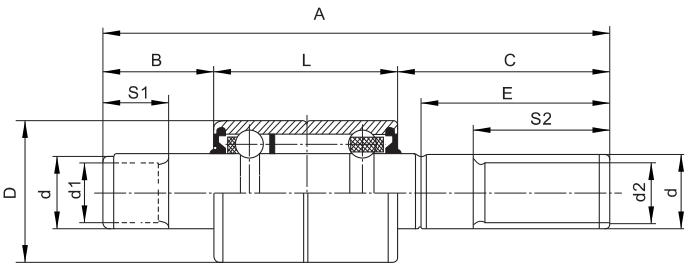


SWS NO.	Boundary dimension(mm)										
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WB1630099	30.00	39.00	98.50	15.918	18.50	41.00					
WB1230105	30.00	39.00	105.00	12.000	16.00	50.00					
WB1630106H	30.00	39.00	106.00	16.000	26.00	41.00					38.00
WB1630108-3	30.00	39.00	108.00	16.000	26.00	43.00					40.00
WB1630115H	30.00	39.00	115.00	16.000	26.00	50.00					43.00
WB1630120D	30.00	39.90	120.12	15.918	27.82	53.40		12.000		48.00	
WB1630119D	30.00	41.00	119.00	15.918	30.50	47.50		12.000		45.50	
WB1630110-5	30.00	45.00	109.50	15.918	20.50	44.00					
WB1530109	30.00	52.00	109.25	15.008	17.75	39.50					36.00
WB1630110	30.00	52.00	109.50	15.918	18.00	39.50					36.00
WB1630110-OS	30.00	52.00	109.50	15.976	18.00	39.50					36.00
WB1530121	30.00	52.00	120.50	15.008	16.20	52.00					
WB1530124	30.00	52.00	124.00	15.008	16.50	55.50					
WB1630123-2	30.00	57.00	123.40	15.918	25.80	40.60					
WB1630126DD	30.00	57.15	125.50	15.918	17.75	50.60	15.000	15.000	15.25	48.10	
WB1630142	30.00	57.15	141.98	15.918	32.12	52.71					
WB1734074D	34.00	30.00	74.00	17.000	15.50	28.50		12.000		25.50	
WB1835086D	35.00	29.90	85.50	17.501	15.49	40.11		12.000		37.49	
WB1835086D-1	35.00	29.90	85.50	17.551	15.49	40.11		12.050		37.49	
WB1835086DD	35.00	29.90	85.50	17.501	15.49	40.11	15.918	12.000	14.30	37.49	
WB1835088D	35.00	29.90	88.00	17.500	15.60	42.50		12.000		39.25	
WB1835089D	35.00	29.90	89.10	17.501	15.49	43.71		12.000		41.99	
WB1835092D	35.00	29.90	91.95	17.511	15.39	46.66		12.000		45.00	
WB1635092D	35.00	30.00	91.95	15.918	15.39	46.56		12.000		45.00	
WB1835091D	35.00	38.89	91.00	17.500	15.00	37.11		12.000		33.95	
WB1635093D	35.00	38.90	92.50	15.976	16.60	37.00		12.052		35.50	
WB1635096D	35.00	38.90	95.86	15.918	15.76	41.20		12.000		38.30	
WB1635101D	35.00	38.90	100.97	15.918	25.07	37.00		12.007		34.50	
WB1635101D-1	35.00	38.90	101.00	15.923	25.10	37.00		12.022		35.50	
WB1635114D	35.00	38.90	113.97	15.918	25.07	50.00		12.007		47.70	
WB1835105DD	35.00	39.00	105.00	18.000	25.00	41.00	15.918	12.000	23.50	38.00	
WB1835114DD-1	35.00	39.00	113.50	18.000	26.00	48.50	15.918	12.000	24.00	45.00	
WB1835119DD	35.00	39.00	119.00	18.000	26.50	53.50	15.918	12.000	24.50	51.00	
WB1835134D	35.00	39.00	134.00	18.000	32.50	62.50		12.000		59.50	
WB1635101D-2	35.00	46.00	101.00	15.923	19.00	36.00		12.014		34.50	

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Arrangement Ball-Ball "WB" Series



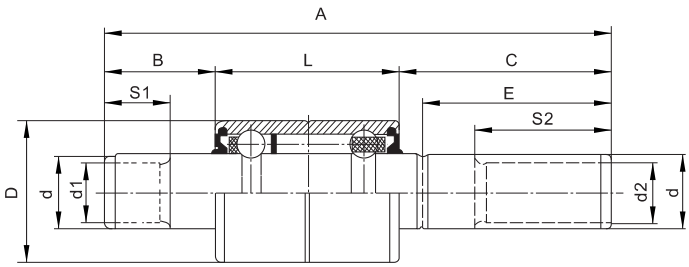


SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WB1835144DD	35.00	46.00	144.00	18.00	44.00	54.00	15.92	12.00	8.00	51.30	
WB2036112D	36.00	30.00	112.00	20.000	20.00	62.00		12.000		46.00	
WB2036096DD	36.00	37.00	96.00	20.000	17.00	42.00	15.918	15.918	17.00	41.60	
WB1736091D	36.00	38.90	90.70	17.008	14.00	37.80		15.008		34.00	
WB1736091D-1	36.00	38.90	90.70	17.000	14.00	37.80		15.918		34.09	
WB1736091D-2	36.00	38.90	90.70	17.059	14.00	37.80		15.057		34.00	
WB1736093D	36.00	38.90	92.51	17.008	17.81	35.80		15.008		32.00	
WB1736093D-1	36.00	38.90	92.51	17.008	17.81	35.80		15.008		34.49	
WB1736095D	36.00	38.90	95.00	17.000	18.10	38.00		12.000		35.50	
WB1636135	36.00	38.90	135.00	15.918	24.94	71.16					
WB1936091DD	36.00	39.00	91.00	18.961	37.80	14.20	15.000	34.000			
WB1736092D	36.00	39.00	92.00	17.000	15.00	38.00		15.000		35.50	
WB1736092D-1	36.00	38.90	92.00	17.000	15.10	38.00		12.000		35.50	
WB1936093DD	36.00	39.00	92.50	18.961	17.80	35.70	17.000	15.000	16.80	34.70	
WB1936100DD	36.00	39.00	100.00	19.012	18.00	43.00	15.000	15.000	16.70	42.00	
WB2036129DD	36.00	54.05	129.30	20.000	30.25	45.00	18.961	15.000	29.30	44.00	
WB1936134D	36.00	54.05	134.10	18.963	49.70	30.35	15.923		48.25		
WB1936144D	36.00	54.05	143.48	19.000	30.76	58.67		16.000		50.55	
WB1938118DD	38.00	41.10	118.00	19.000	29.80	47.10	15.918	15.918	27.30	44.60	
WB1638135	38.10	38.90	135.00	15.918	24.94	71.16					
WB1938112DD	38.10	41.28	112.00	18.961	25.13	45.59	15.918	12.038	22.63	42.48	
WB1938113D	38.10	41.28	112.67	18.961	42.86	28.53	15.918		39.62		
WB1938113DD	38.10	41.28	112.67	18.961	28.59	42.80	15.918	15.918	24.13	39.62	
WB1938113DD-1	38.10	41.28	112.67	18.961	28.59	42.80	15.918	12.038	24.13	39.62	
WB1938113DD-2	38.10	41.28	112.67	19.012	28.59	42.80	15.969	15.969	24.13	39.62	
WB1938117D	38.10	41.28	117.20	18.961	24.71	51.21		15.918		47.50	
WB1938117D-1	38.10	41.28	117.20	19.012	24.71	51.21		15.968		47.50	
WB1938119D	38.10	41.28	119.05	18.961	26.59	51.18		15.918		48.01	
WB1938121D-2	38.10	41.28	120.65	18.961	30.58	48.79		15.918		43.31	
WB1938121DD	38.10	41.28	120.65	18.961	33.35	46.02	15.918	15.918	15.88	43.26	
WB1938122D	38.10	41.28	121.68	18.961	30.08	50.32		12.038		45.24	
WB1938115D	38.10	54.00	115.31	18.961	23.47	37.84		15.918		35.50	
WB1938121D	38.10	54.00	120.65	18.961	24.20	42.45		15.918		39.68	
WB1938126DD	38.10	54.00	125.73	18.961	30.86	40.87	15.918	15.918	27.43	37.34	
WB1938127DD	38.10	54.00	127.38	18.961	42.90	30.48	15.918	15.918	39.67	27.76	

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Arrangement Ball-Ball "WB" Series



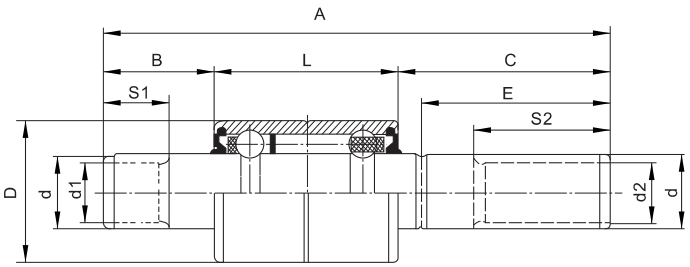


SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WB1938129DD	38.10	54.00	129.00	18.961	32.50	42.50	17.000	15.918	30.00	39.50	
WB1938136D	38.10	54.00	135.64	18.961	31.88	49.76		15.918		47.24	
WB1938136D-1	38.10	54.00	135.64	19.012	31.88	49.76		15.969		47.24	
WB1938136DD	38.10	54.00	136.40	18.961	36.17	46.23	15.918	15.918	12.32	43.43	
WB1938136DD-2	38.10	54.00	136.40	19.012	36.17	46.23	15.918	19.969	12.32	43.43	
WB1938137DD	38.10	54.00	136.65	18.961	36.70	45.95	15.918	15.918	33.02	42.42	
WB1938142D-1	38.10	54.00	141.89	18.961	31.63	56.26		15.918		51.94	
WB1938142D-2	38.10	54.00	141.89	19.012	31.63	56.26		15.977		51.94	
WB1938143D	38.10	54.00	143.16	19.012	35.44	53.72		15.977		49.40	
WB1938144D	38.10	54.00	143.46	18.961	30.84	58.62		15.918		50.55	
WB1938144DD	38.10	54.00	143.50	18.961	30.84	58.66	15.918	15.918	12.24	50.54	
WB1938144DD-2	38.10	54.00	143.50	19.012	30.84	58.66	15.918	15.977	12.24	50.54	
WB1938146DD	38.10	54.00	146.05	18.961	36.32	55.73	15.918	15.918	30.10	51.56	
WB1938146DD-2	38.10	54.00	146.05	18.961	36.30	55.75	15.918	15.918	13.72	50.67	
WB1938146DD-3	38.10	54.00	146.05	19.012	36.32	55.73	15.969	15.969	30.10	51.56	
WB1938149D	38.10	54.00	149.00	18.961	53.34	41.66		15.918		38.10	
WB1938151D	38.10	54.00	150.50	18.961	35.05	61.45		15.918		58.29	
WB1938153D	38.10	54.00	153.40	18.961	45.75	53.65		15.918		50.50	
WB1938154DD	38.10	54.00	154.20	18.961	29.77	70.43	15.938	15.938	8.64	57.15	
WB1938154DD-1	38.10	54.00	154.20	19.012	29.77	70.43	15.938	15.989	8.64	57.15	
WB1938155DD	38.10	54.00	154.94	19.012	36.32	64.62	15.918	15.918	33.00	60.45	
WB1938155DD-1	38.10	54.00	154.94	19.012	36.32	64.62	15.918	15.918	13.70	60.50	
WB1938157D	38.10	54.00	156.59	18.961	39.62	62.97		15.918		59.82	
WB1938157D-1	38.10	54.00	156.59	19.012	39.62	62.97		15.969		59.82	
WB1938159DD	38.10	54.00	158.75	19.012	36.32	68.43	15.918	15.918	13.70	60.50	
WB1938162DD	38.10	54.00	161.95	18.961	35.56	72.39	15.918	15.918	15.14	70.05	
WB1938162DD-1	38.10	54.00	161.95	19.012	35.56	72.39	15.918	15.969	15.14	70.05	
WB1938176DD	38.10	54.00	175.70	19.000	53.00	68.70	16.000	16.000	14.00	64.00	
WB1938100	38.10	54.10	99.70	18.961	44.10	1.50					
WB1938111	38.10	54.10	111.00	18.961	12.65	44.25					
WB1938118D	38.10	54.10	118.20	18.961	23.10	41.00		15.918		39.50	
WB1938121D-1	38.10	54.10	120.50	18.961	25.68	40.72		12.032		39.09	
WB1938121D-3	38.10	54.10	120.50	18.961	25.68	40.72		15.918		38.99	
WB1938121D-4	38.10	54.10	120.50	18.961	25.68	40.72		12.037		39.09	
WB1938121D-5	38.10	54.10	120.50	19.012	25.68	40.72		12.088		39.09	

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Arrangement Ball-Ball "WB" Series



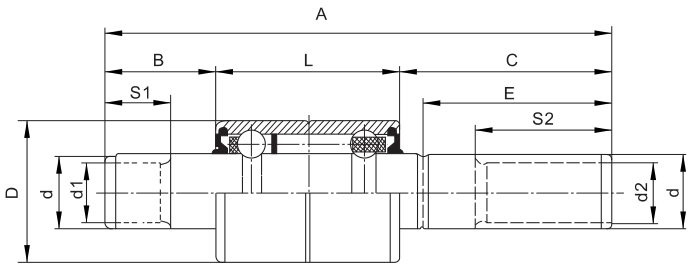


SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WB1938122D-1	38.10	54.10	121.92	18.961	24.43	43.39		12.037		41.58	
WB1938123DD	38.10	54.10	123.11	18.961	30.91	38.10	15.918	15.918	13.97	35.46	
WB1938123DD-1	38.10	54.10	123.11	18.961	30.91	38.10	15.918	15.918	13.97	33.10	
WB1938125D	38.10	54.10	125.00	18.961	25.50	45.40		15.918		42.00	
WB1938126	38.10	54.10	125.48	18.961	67.82	3.56					
WB1938126DD-1	38.10	54.10	125.48	18.961	26.17	45.21	15.918	15.918	22.86	40.64	
WB1938127D	38.10	54.10	127.00	18.961	31.24	41.66		15.918		38.10	
WB1938127D-2	38.10	54.10	127.00	19.012	31.24	41.66		15.977		38.10	
WB1938127DD-1	38.10	54.10	127.00	18.961	26.54	46.36	15.918	15.918	11.68	43.82	
WB1938127DD-2	38.10	54.10	127.00	18.961	26.54	46.36	15.939	15.939	8.89	43.69	
WB1938127D-1	38.10	54.10	127.25	18.961	29.00	44.15		15.918		40.21	
WB1938128DD	38.10	54.10	127.48	18.961	30.91	42.47	15.918	15.918	14.35	39.30	
WB1938128DD-1	38.10	54.10	127.48	19.012	30.91	42.47	15.918	15.969	14.35	39.30	
WB1938132D	38.10	54.10	131.60	18.961	24.50	53.00		15.918		48.10	
WB1938132D-1	38.10	54.10	131.80	18.961	24.50	53.20		15.918		49.20	
WB1938132D-2	38.10	54.10	131.80	18.961	28.60	49.10		15.918		45.30	
WB1938132DD	38.10	54.10	132.08	18.961	29.72	48.26	15.918	15.918	12.32	43.18	
WB1938132DD-1	38.10	54.10	132.08	19.012	29.72	48.26	15.918	15.969	12.32	43.18	
WB1938133D	38.10	54.10	133.35	18.961	24.21	55.04		15.918		49.28	
WB1938134D	38.10	54.10	134.11	18.961	49.66	30.35	15.918		47.24		
WB1938135DD	38.10	54.10	134.62	18.961	31.62	48.90	18.961	15.918	7.11	44.70	
WB1938135D	38.10	54.10	134.87	18.961	36.70	44.07		15.977		16.87	38.40
WB1938135D-1	38.10	54.10	134.88	18.961	37.22	43.56		15.918		41.02	
WB1938135D-2	38.10	54.10	134.88	19.012	37.22	43.56		15.969		41.02	
WB1938136DD-1	38.10	54.10	135.86	18.961	30.71	51.05	15.918	15.918	12.24	42.93	
WB1938137DD-1	38.10	54.10	136.70	18.961	40.13	42.47	15.918	15.918	14.35	39.29	
WB1938137DD-2	38.10	54.10	137.39	18.961	30.71	52.58	15.918	15.918	12.24	44.45	
WB1938138D	38.10	54.10	138.02	18.961	42.52	41.40		15.918		36.96	
WB1938140DD	38.10	54.10	139.70	18.961	35.43	50.17	15.918	15.918	15.39	47.75	
WB1938142D	38.10	54.10	141.73	18.961	43.81	43.82		15.918		40.77	
WB1938143DD	38.10	54.10	142.62	18.961	39.37	49.15	15.918	15.918	30.86	45.59	
WB1938144DD-1	38.10	54.10	143.48	18.961	30.71	58.67	15.918	15.918	12.24	45.09	
WB1938144D-1	38.10	54.10	143.51	18.961	31.50	57.91	15.918		11.70		41.22
WB1938145D	38.10	54.10	144.53	18.961	31.60	58.83		15.918		44.45	
WB2038146DD	38.10	54.10	146.00	19.980	44.40	47.50	18.950	15.910	42.80	44.00	

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Arrangement Ball-Ball "WB" Series



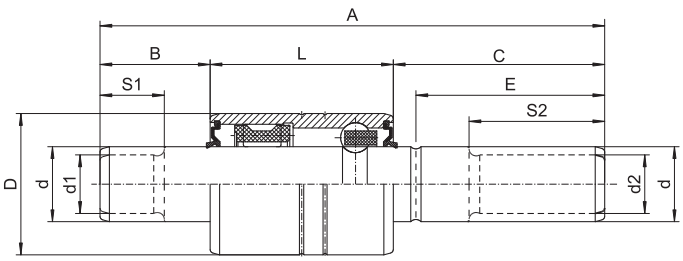


SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WB1938146D	38.10	54.10	146.05	18.961	44.32	47.63		15.918		44.50	
WB1938146DD-1	38.10	54.10	146.05	18.961	36.32	55.73	15.918	15.918	13.72	51.56	
WB1938146DD-4	38.10	54.10	146.05	19.012	36.32	55.73	15.918	15.969	13.72	51.56	
WB1938147DD	38.10	54.00	146.50	18.961	36.25	56.25	15.918	15.918	33.05	54.00	
WB1938149DD	38.10	54.10	148.84	18.961	40.89	53.85	15.918	15.918	34.93	49.66	
WB1938151DD	38.10	54.10	151.38	18.961	30.99	66.29	15.918	15.918	12.19	55.37	
WB1938151DD-1	38.10	54.10	151.43	18.961	30.71	66.62	15.918	15.918	12.27	53.49	
WB1938151DD-2	38.10	54.10	151.43	19.012	30.71	66.62	15.918	15.977	12.24	64.59	
WB1938152DD	38.10	54.10	152.40	18.961	35.43	62.87	15.918	15.918	15.27	58.39	
WB1938153DD	38.10	54.10	152.91	18.961	46.23	52.58	15.918	15.918	28.58	43.26	
WB1938153DD-1	38.10	54.10	152.91	19.012	46.26	52.55	15.918	15.977	28.50	43.05	
WB1938155D	38.10	54.10	155.10	18.961	37.40	63.60		12.700		45.00	
WB1938158DD	38.10	54.10	157.99	18.961	46.61	57.28	15.918	15.918	14.78	52.83	
WB1938158DD-1	38.10	54.10	158.24	18.961	43.05	61.09	15.918	15.918	14.10	56.64	
WB1938158DD-2	38.10	54.10	158.24	19.012	43.05	61.09	15.918	15.977	14.10	56.64	
WB1938160D	38.10	54.10	160.20	18.961	44.19	61.91		15.918		58.61	
WB2038161DD	38.10	54.10	160.60	19.980	44.40	62.10	18.950	15.910	42.80	58.50	
WB1938161DD	38.10	54.10	161.04	18.961	46.61	60.33	15.918	15.918	33.15	55.88	
WB1938161DD-1	38.10	54.10	161.04	19.012	46.61	60.33	15.977	15.977	33.15	55.88	
WB1938163D	38.10	54.10	162.56	18.961	35.69	72.77	15.918		14.73		68.02
WB1938175DD	38.10	54.10	174.75	18.961	52.40	68.25	15.918	14.10	63.75		
WB1940111D	40.00	46.00	111.20	19.000	28.00	37.20		12.000		35.00	
WB1740117D	40.00	46.00	117.00	17.030	30.00	41.00		12.067		39.50	
WB2040143DH	40.00	50.00	143.00	20.000	30.70	62.30		16.000		54.70	
WB2570181D	47.63	69.85	181.10	25.400	49.15	62.10		15.918		58.93	

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Arrangement Ball-Roller "WR" Series



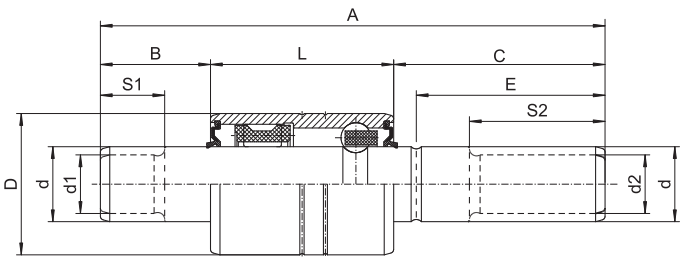


SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WR1530085D	30.00	38.90	85.00	15.008	13.10	33.00		12.038		32.00	
WR1530087D	30.00	38.90	87.00	15.008	15.00	33.10		12.055		30.20	
WR1530088	30.00	36.00	87.50	15.008	16.50	35.00					
WR1530088D	30.00	36.00	87.50	15.008	16.50	35.00		12.000		34.00	
WR1530090D	30.00	38.90	90.00	15.008	18.00	33.10		12.000		32.00	
WR1530091D	30.00	38.90	90.50	15.008	12.10	39.50		12.038		35.50	
WR1530094	30.00	38.90	94.40	15.008	15.60	39.90					
WR1530094-1	30.00	38.90	94.40	15.008	15.60	39.90					36.40
WR1530095D	30.00	38.90	94.50	15.008	14.50	41.10		12.000		40.00	
WR1530096D	30.00	38.90	96.40	15.008	18.00	39.50		12.067		36.60	
WR1530098	30.00	38.90	97.50	15.006	23.50	35.10					33.00
WR1530103	30.00	38.90	103.20	15.000	23.40	40.90					
WR1530106	30.00	52.00	105.75	15.008	14.25	39.50					36.00
WR1530106D	30.00	38.90	106.00	15.007	27.60	39.50		12.067		35.80	
WR1530109	30.00	52.00	109.25	15.008	17.75	39.50					36.00
WR1530109D	30.00	52.00	109.10	15.000	19.00	38.10		12.000		35.20	
WR1530116	30.00	52.00	115.75	15.000	17.75	46.00					
WR1530119D	30.00	52.00	119.00	15.008	23.50	43.50		12.052		36.50	
WR1530119D-1	30.00	56.00	119.00	15.008	23.50	39.50		12.067		38.50	
WR1530122D	30.00	52.00	121.50	15.000	32.00	37.50		12.038		36.00	
WR1530125	30.00	52.00	125.00	15.008	17.50	55.50					42.00
WR1530125-1	30.00	52.00	125.00	15.008	24.50	48.50					
WR1530125D	30.00	52.00	125.25	15.008	18.00	55.50		12.000		42.00	
WR1530125D-1	30.00	52.00	125.25	15.008	24.75	48.50		12.055		47.50	42.00
WR1630074	30.00	34.50	74.00	15.918	5.00	34.50					
WR1630074D	30.00	27.00	73.75	15.918	14.65	32.10		12.038		28.10	
WR1630076D	30.00	27.00	76.00	15.918	16.31	32.69		12.037		30.30	
WR1630076D-1	30.00	27.00	76.00	15.918	16.31	32.69		12.037		30.70	
WR1630076D-2	30.00	27.00	76.00	15.969	16.31	32.69		12.088		30.30	
WR1630079D	30.00	30.00	79.26	15.918	13.50	35.76		12.038		33.76	
WR1630080	30.00	27.00	80.00	16.000	15.50	37.50					
WR1630080-1	30.00	27.00	80.04	15.918	15.75	37.29					
WR1630083D	30.00	33.40	83.40	15.918	16.20	33.80		12.738		32.00	
WR1630083D-1	30.00	30.00	82.50	15.918	16.50	36.00		12.000		34.50	
WR1630083D-2	30.00	33.40	82.50	15.918	15.10	34.00		12.000		33.00	

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Arrangement Ball-Roller "WR" Series



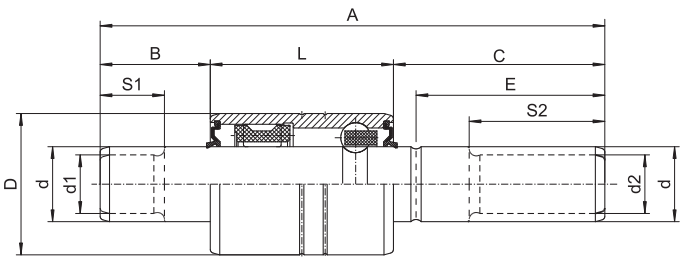


SWS NO.	Boundary dimension(mm)										
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WR1630083D-3	30.00	33.40	83.00	15.918	15.60	34.00		12.083		33.00	
WR1630084D	30.00	30.00	83.82	15.918	15.77	38.05		12.000		35.46	
WR1630084D-1	30.00	30.00	84.00	16.000	15.50	38.50		12.000		36.50	
WR1630085D	30.00	27.00	85.10	15.918	14.16	43.94		12.038		41.48	
WR1630085D-1	30.00	27.00	85.34	15.918	15.62	42.72		12.000		38.53	
WR1630085D-2	30.00	38.90	85.20	15.918	15.20	31.10		12.042		29.20	
WR1630086D	30.00	27.00	85.85	15.918	17.45	41.40		12.037		39.37	
WR1630086D-1	30.00	27.00	85.90	15.918	14.15	43.94		12.037		41.48	
WR1630086D-2	30.00	30.00	85.82	15.918	14.50	41.32		12.038		39.32	
WR1630087	30.00	27.00	87.30	15.918	14.53	45.77					37.57
WR1630087-1	30.00	30.00	87.30	15.918	14.53	42.77					37.57
WR1630087D	30.00	30.00	87.25	15.918	15.25	42.00		12.038		39.50	
WR1630087D-1	30.00	38.90	86.50	15.918	13.50	34.10		12.038		32.2	
WR1630087D-2	30.00	32.00	86.80	15.918	13.30	41.50		12.038		38.00	
WR1630088	30.00	36.50	87.50	15.918	16.50	34.50					
WR1630088D	30.00	36.00	87.50	15.918	13.50	38.00		12.000		34.25	
WR1630089	30.00	36.50	88.75	16.000	19.25	33.00					31.00
WR1630089D	30.00	27.00	88.80	15.918	42.70	19.10	12.030		40.00		
WR1630089D-1	30.00	27.00	88.47	15.918	19.43	42.04		12.037		39.75	
WR1630089D-2	30.00	27.00	88.49	15.918	19.22	42.27		12.037		39.75	
WR1630090D	30.00	31.48	89.66	15.918	16.45	41.73		12.037		39.75	
WR1630090D-1	30.00	31.55	89.66	15.918	16.43	41.68		12.037		39.75	
WR1630090D-2	30.00	38.90	89.50	15.918	12.10	38.50		12.000		34.50	
WR1630090D-3	30.00	38.90	90.20	15.918	15.49	35.81		12.000		33.86	
WR1630090D-4	30.00	40.00	89.70	15.918	15.70	34.00		12.000		33.00	
WR1630091D	30.00	34.00	91.00	15.918	20.00	37.00		12.380		34.50	
WR1630091D-1	30.00	38.90	91.31	15.918	13.45	38.96		12.000		36.45	
WR1630092H	30.00	38.90	92.00	16.000	15.60	37.50					34.50
WR1630093	30.00	38.90	92.99	15.918	18.64	35.45					29.74
WR1630093-1	30.00	38.90	93.00	15.918	18.50	35.60					
WR1630093-2	30.00	38.90	93.35	15.918	16.76	37.69					31.98
WR1630093D	30.00	38.90	92.50	15.918	25.10	28.50		12.038		27.00	
WR1630093D-1	30.00	38.90	92.51	15.918	25.12	28.49		12.037		24.49	
WR1630093D-2	30.00	38.90	92.61	15.918	16.54	37.17		12.000		35.56	
WR1630093D-3	30.00	38.90	92.99	15.918	18.81	35.28	12.000		16.20		29.51

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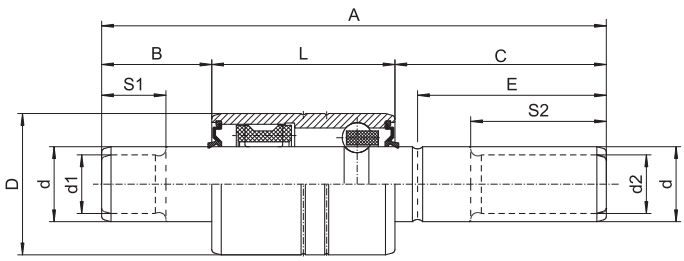


SWS NO.	Boundary dimension(mm)										
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WR1630093D-4	30.00	38.90	93.00	15.918	18.60	35.50		12.006		34.50	
WR1630093DD	30.00	38.90	92.50	15.918	16.20	37.40	12.000	12.000	15.00	34.50	
WR1630094D	30.00	27.00	94.00	15.918	16.00	51.00		12.038		49.00	
WR1630094D-1	30.00	30.00	94.30	15.918	16.30	48.00		12.000		45.00	
WR1630095	30.00	38.90	94.80	16.000	12.90	43.00					
WR1630095D	30.00	38.90	94.50	15.918	16.00	39.60		12.01		38.00	
WR1630095D-1	30.00	38.90	94.45	15.918	14.23	42.32		12.038		40.32	
WR1630095D-2	30.00	38.90	94.51	15.918	19.08	36.53	12.002		16.00		30.86
WR1630095D-3	30.00	44.00	95.00	15.918	20.00	31.00		11.000		21.00	
WR1630093D-5	30.00	38.90	93.00	15.918	14.00	40.10		12.038		39.10	
WR1630096	30.00	38.90	95.45	15.918	14.32	42.32					39.32
WR1630096D	30.00	33.40	96.25	15.918	14.94	47.91		12.000		45.40	
WR1630096D-1	30.00	33.80	96.30	15.918	14.60	47.90		12.038		46.40	
WR1630096D-2	30.00	38.90	95.50	15.918	14.18	42.42		12.037		40.39	
WR1630096D-3	30.00	38.90	95.63	15.918	17.53	39.20		12.000		34.90	
WR1630096D-4	30.00	38.90	96.00	15.918	15.00	42.10		12.038		37.50	
WR1630096D-5	30.00	38.90	96.40	15.918	18.00	39.50		12.052		36.60	
WR1630097D	30.00	38.90	96.49	15.918	16.44	41.15		12.000		38.51	
WR1630097D-1	30.00	38.90	96.50	15.918	15.35	42.25		12.738		40.00	
WR1630098	30.00	38.90	98.00	15.918	17.00	42.10					38.00
WR1630098-1	30.00	38.90	98.00	16.000	18.10	41.00					38.00
WR1630098D	30.00	38.90	97.51	15.918	19.51	39.10		12.037		37.31	
WR1630098D-1	30.00	38.90	98.00	15.918	17.00	42.10		12.000		40.00	
WR1630099	30.00	34.50	99.10	15.918	18.90	45.70					
WR1630099D-1	30.00	38.90	98.78	15.918	18.42	41.46		12.052		38.90	
WR1630099D-2	30.00	38.90	98.79	15.918	18.43	41.46		12.038		39.46	
WR1630100D	30.00	38.90	99.85	15.918	10.50	50.45		12.038		43.30	
WR1630100D-1	30.00	38.90	99.85	15.918	10.81	50.14		12.037		43.31	
WR1630100D-2	30.00	46.00	99.54	15.918	16.89	36.65		12.000		33.55	
WR1630100DD	30.00	38.90	99.49	15.918	16.47	44.12	12.000	12.000	14.61	41.28	
WR1630101	30.00	38.90	100.85	15.918	16.00	45.95					
WR1630101-1	30.00	38.90	100.99	15.918	25.25	36.84					31.14
WR1630101D	30.00	27.00	101.00	15.918	31.80	42.20		12.000		40.70	
WR1630101D-1	30.00	38.90	100.51	15.918	18.01	43.60		12.000		33.50	
WR1630101D-2	30.00	38.90	101.00	15.918	24.99	37.11		12.000		34.98	

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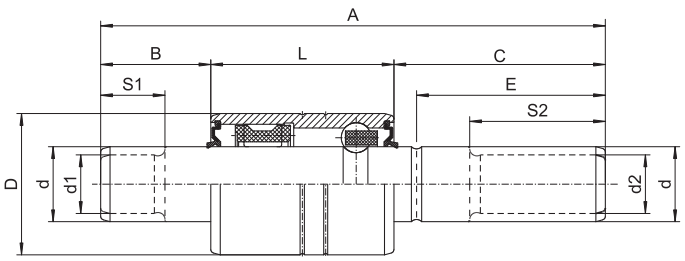
SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WR1630101DD	30.00	38.90	101.09	15.918	22.84	39.35	12.002	12.042	19.84	38.61	
WR1630102	30.00	36.50	101.50	15.951	20.00	45.00					
WR1630102-1	30.00	38.90	102.00	15.918	17.00	46.10					41.30
WR1630102-2	30.00	36.50	101.50	15.918	26.00	39.00					
WR1630102D	30.00	34.00	101.55	15.918	22.05	45.50		12.000		43.38	
WR1630102D-1	30.00	38.90	102.24	15.918	23.72	39.62		12.000		38.10	
WR1630102D-2	30.00	38.90	101.50	15.918	16.00	46.60		12.000		42.80	
WR1630103	30.00	38.90	103.00	16.000	27.10	37.00					
WR1630103-1	30.00	38.90	103.12	15.918	27.92	36.30					31.47
WR1630103-2	30.00	38.90	103.00	15.918	27.60	36.50					31.30
WR1630103D	30.00	38.90	103.00	15.918	16.50	47.60		12.000		45.30	
WR1630103D-1	30.00	38.90	103.02	15.918	16.54	47.58		12.000		44.86	
WR1630103D-2	30.00	38.90	103.33	15.918	18.54	45.89		12.738		43.79	
WR1630104	30.00	34.50	104.20	15.918	19.00	50.70					
WR1630104D	30.00	38.90	103.50	15.918	19.50	45.10		12.038		43.16	
WR1630104D-1	30.00	38.90	103.99	15.918	16.99	48.10		12.000		46.69	
WR1630104D-2	30.00	38.90	104.00	15.918	20.00	45.10		12.038		42.50	
WR1630104D-3	30.00	38.90	104.00	15.918	19.70	45.40		12.000		43.00	
WR1630105	30.00	38.90	105.41	15.918	20.31	46.20					41.40
WR1630105D	30.00	38.90	104.55	15.939	20.93	44.72		12.037		42.62	
WR1630105D-1	30.00	38.90	105.00	15.918	30.70	35.40		12.000		32.00	
WR1630106	30.00	38.90	105.97	15.918	21.06	46.01					40.79
WR1630106-1	30.00	38.90	106.00	16.000	26.10	41.00					38.00
WR1630106-2	30.00	38.90	106.12	15.918	29.69	37.53					30.78
WR1630106H	30.00	38.90	106.00	16.000	20.10	47.00					
WR1630106D	30.00	38.90	106.00	15.918	23.05	44.05		12.038		39.60	
WR1630106D-1	30.00	38.90	106.17	15.918	25.13	42.14		12.738		40.00	
WR1630106D-2	30.00	38.90	106.20	15.918	18.43	48.87		12.000		41.00	
WR1630106DD	30.00	38.90	105.50	15.918	16.50	50.10	12.000	12.000	14.50	48.40	
WR1630107	30.00	38.90	106.50	16.000	20.10	47.50					
WR1630107-1	30.00	38.90	106.50	15.918	20.10	47.50					
WR1630107-2	30.00	38.90	107.39	15.918	23.05	45.44					44.04
WR1630107D	30.00	38.90	106.50	15.918	17.50	50.10		12.000		48.00	
WR1630107D-1	30.00	38.90	106.50	15.918	21.96	45.64		12.037		43.64	
WR1630107D-2	30.00	38.90	107.39	15.918	18.67	49.82		12.000		45.14	

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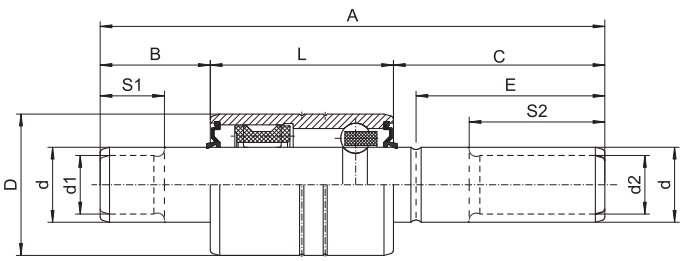


SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WR1630108D	30.00	38.90	108.30	15.918	18.40	51.00		12.038		48.00	
WR1630109D	30.00	38.90	108.60	15.918	18.50	51.20		12.038		48.20	
WR1630110	30.00	38.90	110.39	15.918	21.35	50.14					41.00
WR1630110-1	30.00	38.90	110.39	15.918	21.41	50.08					45.49
WR1630110D	30.00	38.90	109.50	15.918	25.12	45.48		12.037		42.83	
WR1630110D-1	30.00	38.90	110.39	15.918	21.35	50.14		12.037		46.96	
WR1630110DD	30.00	38.90	109.50	15.918	16.15	54.45	12.000	12.000	14.30	51.80	
WR1630111	30.00	38.90	110.90	15.918	25.12	46.88					
WR1630111D	30.00	38.90	110.90	15.918	25.10	46.90		12.000		45.90	
WR1630111D-1	30.00	38.90	111.00	16.000	29.90	42.20		12.000		39.70	
WR1630111DD	30.00	52.00	110.60	16.000	18.80	39.80	15.009	12.052	17.90	35.50	
WR1630112	30.00	38.90	112.00	16.000	32.10	41.00					38.00
WR1630112-1	30.00	38.90	112.34	15.918	23.70	49.74					44.04
WR1630112-2	30.00	38.90	111.51	15.918	23.79	48.82					
WR1630114	30.00	38.00	113.50	15.920	28.50	47.00					
WR1630114-1	30.00	38.90	114.30	15.918	31.99	43.41					34.29
WR1630114D	30.00	38.90	114.00	15.918	19.10	56.00		12.00		46.00	
WR1630115	30.00	38.90	115.00	16.000	26.10	50.00					46.00
WR1630115H	30.00	38.90	115.00	16.000	26.10	50.00					43.00
WR1630116	30.00	38.90	115.49	15.918	20.48	56.11					
WR1630116-1	30.00	38.90	115.72	15.918	20.96	55.86					50.17
WR1630116-2	30.00	38.90	115.85	15.918	27.93	49.02					44.20
WR1630116-3	30.00	38.90	115.85	15.918	28.32	48.63					44.32
WR1630116-4	30.00	52.00	115.75	16.000	17.75	46.00					
WR1630117	30.00	38.90	117.00	16.000	26.10	52.00					47.00
WR1630117-1	30.00	38.90	117.27	15.918	33.87	44.50					39.62
WR1630117-2	30.00	38.90	117.27	15.918	34.26	44.11					38.40
WR1630117D	30.00	38.90	117.30	15.918	18.11	60.29		12.038		58.29	
WR1630119	30.00	38.90	119.05	15.918	37.30	42.85					36.50
WR1630119-1	30.00	38.90	119.05	15.918	30.11	50.04					45.26
WR1630119D	30.00	38.90	119.00	15.918	17.50	62.20		12.008		45.00	
WR1630120	30.00	38.90	119.89	15.918	36.96	44.03					38.07
WR1630120D	30.00	27.00	120.23	15.918	29.06	64.17		12.037		57.71	
WR1630121	30.00	38.90	120.68	15.918	27.93	53.85				49.02	
WR1630122	30.00	38.90	122.20	15.918	33.90	49.40					44.60

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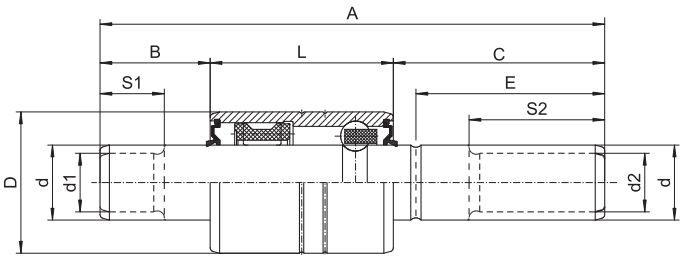


SWS NO.	Boundary dimension(mm)										
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WR1630122-1	30.00	38.90	122.25	15.939	28.64	54.71					49.20
WR1630123	30.00	38.90	123.01	15.918	19.01	65.10					
WR1630123-1	30.00	38.90	123.01	15.918	19.28	64.83					59.61
WR1630123D	30.00	38.90	122.68	15.918	27.20	56.58		12.042		44.20	
WR1630124	30.00	38.90	123.50	15.918	20.50	64.10					57.50
WR1630124-1	30.00	38.90	123.67	15.918	32.13	52.64					46.94
WR1630125	30.00	52.00	125.00	15.918	17.50	55.50					42.00
WR1630127	30.00	38.90	127.00	16.000	26.10	62.00					57.00
WR1630127-1	30.00	38.90	127.43	15.918	21.98	66.55					61.72
WR1630128D	30.00	38.90	127.80	15.918	23.30	65.60		12.040		48.60	
WR1630128D-1	30.00	38.90	127.90	15.918	23.50	65.50		12.050		48.50	
WR1630129	30.00	38.90	129.03	15.918	31.71	58.42					
WR1630131DD	30.00	52.00	130.50	16.000	33.00	45.50	15.002	12.055	31.50	41.00	
WR1630132	30.00	38.90	132.13	15.939	40.17	53.06					48.29
WR1630136	30.00	38.90	136.40	15.918	39.04	58.47					48.97
WR1630139	30.00	38.90	138.99	15.918	23.10	76.99					72.16
WR1630141	30.00	38.90	141.00	15.918	31.00	71.10					
WR1630146D	30.00	56.00	146.05	15.918	27.00	63.05		12.037		53.85	
WR1630151D	30.00	60.00	151.00	15.918	25.13	65.87		12.038		63.00	
WR1630154	30.00	38.90	154.23	15.939	29.76	85.57					79.22
WR1635112D	35.00	38.90	112.18	15.918	29.98	43.30		12.000		40.60	
WR1728075D	28.00	27.00	74.60	17.201	13.10	41.50		12.000		39.50	
WR1730078D	30.00	30.00	77.70	17.200	12.10	35.60		12.000		33.60	
WR1835100DD	35.00	38.90	100.30	18.000	16.40	45.00	15.918	12.000	14.40	43.00	
WR1835101DD	35.00	39.00	101.00	18.000	25.00	37.000	15.918	12.000	23.50	33.80	
WR1835103DD	35.00	38.90	103.00	18.000	26.30	37.80	15.918	12.000	24.70	35.30	
WR1835112D	35.00	38.90	112.00	17.500	27.00	46.10		12.038		43.50	
WR1835114D	35.00	46.00	114.00	18.000	26.30	41.70		12.000		37.00	
WR1930115D	30.00	54.10	115.30	18.961	21.65	39.55		15.918		38.50	
WR1935093DD	35.00	38.90	92.50	19.012	16.50	37.10	15.918	12.000	14.00	34.75	
WR1935093DD-1	35.00	38.90	92.70	18.000	16.20	37.60	17.000	12.00	14.30	34.80	
WR1935100DD	35.00	38.90	100.41	19.012	16.59	44.92	15.918	12.000	14.00	42.04	
WR1935101DD	35.00	46.00	100.50	18.961	18.00	36.50	15.918	12.000	16.50	34.00	
WR1935103DD	35.00	38.90	103.43	19.012	16.47	48.06	15.918	12.000	15.00	45.72	
WR1935109DD	35.00	38.90	108.89	19.012	21.93	48.06	15.918	12.000	20.50	45.72	

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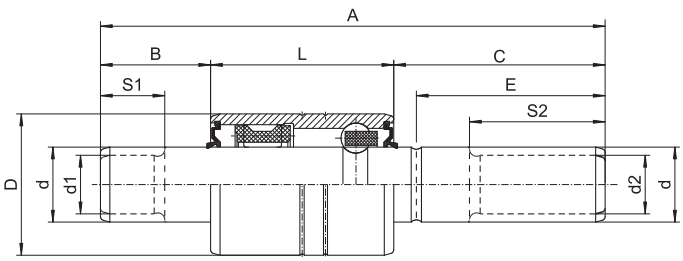


SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WR1935126DD	35.00	56.00	126.00	18.961	28.50	41.50	15.918	12.000	26.49	38.96	
WR1936088D	36.00	40.00	88.00	19.012	13.50	34.50		12.000		33.50	
WR1936100DD	36.00	46.00	100.00	18.961	18.00	36.00	15.918	12.000	16.00	34.00	
WR1936100DD-1	36.00	46.00	100.00	18.961	18.00	36.00	16.000	12.000	16.00	34.00	
WR1936105DD	36.00	44.00	104.50	19.012	20.00	40.50	15.918	15.008	19.00	38.50	
WR1936109DD	36.00	40.00	109.40	18.961	13.50	55.90	15.918	12.008	12.50	54.50	
WR1936110DD	36.00	44.00	110.00	19.012	25.50	40.50	15.918	12.000	24.50	38.50	
WR1936121D	36.00	52.00	120.50	19.012	25.50	43.00		15.000		42.00	
WR1936122DD	36.00	52.00	122.00	19.012	29.00	41.00	15.918	12.000	28.00	40.00	
WR1936126DD	36.00	52.00	125.50	19.012	25.25	48.25	15.002	15.002	22.50	44.50	
WR1936126DD-1	36.00	56.00	126.00	18.961	28.50	41.50	15.918	12.000	26.50	37.00	
WR1936131DD	36.00	52.00	130.50	19.012	33.00	45.50	15.002	12.055	32.00	41.00	
WR1936131DD-1	36.00	52.00	130.70	19.012	33.00	45.70	15.008	12.055	32.00	42.70	
WR1938075D	38.10	47.00	75.00	18.961	25.70	2.30	15.918		24.00		
WR1938091	38.10	54.10	90.90	18.961	33.20	3.60					
WR1938100	38.10	54.10	99.70	18.961	44.10	1.50					
WR1938108	38.10	54.00	108.20	18.961	3.53	50.67					
WR1938112DD	38.00	41.10	112.20	18.900	32.40	38.70	16.000	16.000	29.30	35.50	
WR1938115D	38.10	54.10	115.32	18.961	23.35	37.87		12.037		35.71	
WR1938115D-1	38.10	54.10	115.32	19.012	23.47	37.87		12.088		35.71	
WR1938116D	38.10	50.00	116.00	18.961	19.00	47.00		15.918		46.00	
WR1938117DD	38.10	54.10	116.84	18.961	26.92	35.82	15.939	12.037	8.89	33.78	
WR1938118DD	38.00	41.10	118.00	18.900	29.80	47.10	15.918	15.918	27.30	44.60	
WR1938121D	38.10	41.28	120.65	18.961	33.40	45.97		15.918		43.69	
WR1938121D-1	38.10	54.10	120.50	18.961	25.68	40.72		15.918		39.00	
WR1938121D-2	38.10	54.10	120.50	18.961	25.68	40.72		12.032		39.09	
WR1938121D-3	38.10	54.10	120.50	18.961	26.19	40.21		15.918		35.46	
WR1938123DD	38.10	54.10	123.11	18.961	30.91	38.10	15.918	15.918	13.97	34.11	
WR1938125D	38.10	54.10	124.50	18.961	24.78	45.62		15.918		43.18	
WR1938125D-1	38.10	54.10	124.72	18.961	25.00	45.62		15.918		43.02	
WR1938125D-2	38.10	54.10	125.00	18.950	28.40	42.00		15.875		39.30	
WR1938125D-3	38.10	54.10	125.40	18.961	28.83	42.47		15.918		39.03	
WR1938126D	38.10	54.10	125.98	18.961	28.00	43.88		12.038		40.70	
WR1938128D	38.10	54.10	127.51	18.961	27.94	45.47		15.918		42.93	
WR1938129D	38.10	54.10	128.88	18.961	24.10	50.68		12.038		48.26	

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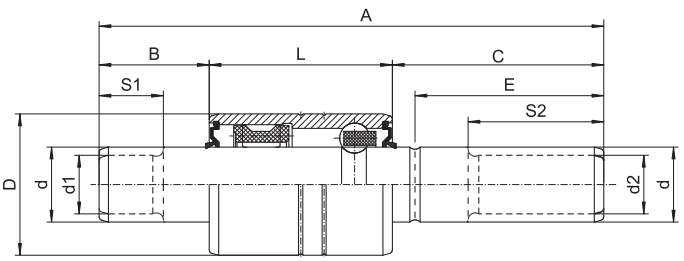


SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WR1938129D-1	38.10	54.10	129.06	18.961	31.40	43.56		15.918		41.02	
WR1938130DDF	38.10	54.00	130.40	18.961	39.60	36.80	16.000	15.92	13.30	36.20	
WR1938132D	38.10	54.10	131.80	18.961	24.00	53.70		15.918		49.40	
WR1938133D	38.10	54.10	133.30	18.961	32.41	46.79		12.037		44.04	
WR1938135D	38.10	54.10	134.60	18.961	31.50	49.00		15.918		44.70	
WR1938135D-1	38.10	54.10	134.87	18.961	29.97	50.80		15.918		48.26	
WR1938135D-2	38.10	54.10	134.87	18.961	29.97	50.80		12.037		48.31	
WR1938135DD	38.10	54.10	134.62	18.961	31.62	48.90	15.918	15.918	7.11	44.70	
WR1938136D	38.10	54.10	135.64	18.961	31.76	49.78		15.918		47.24	
WR1938136D-1	38.10	54.10	136.00	18.961	22.25	59.65		15.918		57.25	
WR1938136DD	38.10	54.10	136.40	18.961	36.07	46.23	15.918	15.918	12.45	43.43	
WR1938137DD	38.10	54.10	137.41	18.961	30.73	52.58	15.918	15.918	12.19	39.62	
WR1938138D	38.10	54.10	137.92	18.961	33.02	50.80		15.918		48.26	
WR1938138D-1	38.10	54.10	137.92	18.961	33.02	50.80		12.037		48.26	
WR1938138D-2	38.10	54.10	138.02	18.961	42.52	41.40		15.918		36.96	
WR1938142DD	38.10	54.10	141.86	18.961	36.20	51.56	15.918	15.918	12.32	43.43	
WR1938144D	38.10	54.00	144.00	18.940	32.60	57.40		12.00		55.30	
WR1938144DD	38.10	54.10	143.48	18.961	30.71	58.67	15.918	15.918	12.24	50.55	
WR1938144DD-1	38.10	54.10	143.48	18.961	30.71	58.67	15.918	15.918	12.24	45.09	
WR1938145D	38.10	54.10	144.53	18.961	31.60	58.83		15.918		44.45	
WR1938145D-1	38.10	54.10	144.78	18.961	32.77	57.91		15.918		54.23	
WR1938146D	38.10	54.10	146.05	18.961	44.32	47.63		15.918		44.50	
WR1938146DD	38.10	54.10	146.05	18.961	36.20	55.75	15.918	15.918	13.72	51.56	
WR1938149D	38.10	54.10	148.59	18.961	45.59	48.90		15.918		45.72	
WR1938151	38.10	54.00	150.50	18.961	35.05	61.45			15.92	58.29	
WR1938151D	38.10	54.10	150.50	18.961	34.93	61.47		15.918		58.29	
WR1938151DD	38.10	54.00	150.50	18.961	35.05	61.45	15.918	15.918	12.88	58.29	
WR1938151DD-1	38.10	54.10	150.50	18.961	34.93	61.47	15.918	15.918	12.88	58.29	
WR1938151DD-2	38.10	54.10	151.43	18.961	30.71	66.62	15.918	15.918	12.27	53.49	
WR1938152D	38.10	54.10	152.27	18.961	40.51	57.66		15.918		55.12	
WR1938153DD	38.10	54.10	152.91	18.961	46.23	52.58	15.918	15.918	28.58	43.27	
WR1938155D	38.10	54.10	155.04	18.961	37.67	63.27		12.700		45.09	
WR1938155D-1	38.10	54.10	155.05	18.961	37.66	63.29		12.038		45.09	
WR1938157D	38.10	54.10	156.59	18.961	39.50	62.99		15.918		59.82	
WR1938157D-1	38.10	54.10	156.59	18.961	39.62	62.87		15.918		59.54	

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Arrangement Ball-Ball "WR" Series



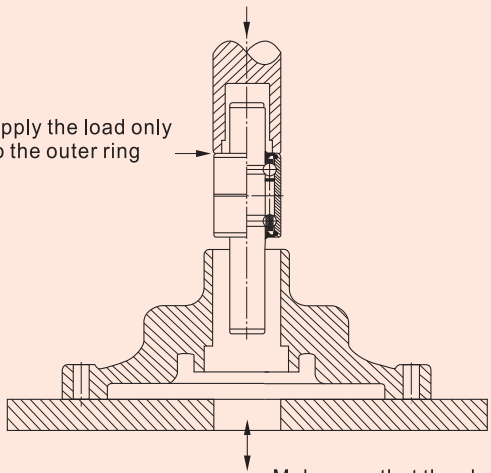


SWS NO.	Boundary dimension(mm)										
	D	L	A	d	B	C	d1	d2	S1	S2	E
WR1938158DD	38.10	54.00	158.00	18.961	46.74	57.26	15.918	15.918	14.78	52.83	
WR1938158DD-1	38.10	54.10	157.99	18.961	46.00	57.89	15.918	15.977	15.06	24.89	52.30
WR1938158DD-2	38.10	54.10	158.24	18.961	43.05	61.09	15.918	15.918	14.10	56.64	
WR1938158DD-3	38.10	54.10	158.40	18.961	34.78	69.52	15.918	15.918	12.80	60.30	
WR1938159DD	38.10	54.10	158.67	18.961	34.92	69.65	15.918	15.918	12.88	61.90	
WR1938161D	38.10	54.10	160.53	18.961	44.33	62.10		15.918		58.93	
WR1938161DD	38.10	54.10	161.04	18.961	46.61	60.33	15.918	15.918	33.15	55.88	
WR1938162DD	38.10	54.10	161.93	18.961	35.44	72.39	15.918	15.918	15.14	70.05	
WR1938175D	38.10	52.60	174.80	18.961	52.91	69.29		12.037		42.88	
WR1938175D-1	38.10	54.10	174.75	18.961	52.41	68.24		12.038		43.00	
WR1938175D-2	38.10	54.10	174.80	18.961	52.40	68.30		12.037		43.00	
WR1938175DD	38.10	54.10	174.75	18.961	52.40	68.25	15.918	15.918	14.10	63.75	
WR1938175DD-1	38.10	54.10	174.75	18.961	35.00	85.65	15.918	12.037	14.12	59.84	
WR1938175DD-2	38.10	54.10	174.75	18.961	52.53	68.12	15.918	12.038	14.10	43.00	
WR1938176DD	38.10	54.00	175.70	19.00	53.00	68.70	16.000	16.000	14.00	64.00	
WR1940112D	40.00	50.00	112.00	19.000	29.00	33.00		12.000		32.00	
WR1940117D	40.00	46.00	117.00	18.961	29.30	41.70		15.918		39.10	
WR1940122D	40.00	50.00	122.00	19.000	22.00	50.00		12.000		46.00	
WR2040105	40.00	50.00	104.50	20.004	47.50	7.00					
WR2040112D	40.00	50.00	112.00	20.004	18.00	44.00		16.000		40.00	
WR2040143D	40.00	50.00	143.00	20.000	31.50	61.50		15.918		54.50	
WR2040143D-1	40.00	50.00	143.00	20.004	31.50	61.50		16.000		55.00	
WR2042131DD	42.00	45.90	130.50	20.004	23.60	61.00	19.000	12.000	22.60	59.00	
WR2241088DD	41.00	38.90	88.20	22.000	13.60	35.70	20.000	12.000	12.60	34.31	
WR2242095D	42.00	32.00	95.30	22.000	15.70	47.60		12.000		43.60	
WR2242098D	42.00	32.00	97.64	22.000	15.70	49.94		12.000		46.94	
WR2242106DD	42.00	46.00	105.50	22.000	16.50	43.00	18.00	13.00	15.00	38.50	
WR2242111DD	42.00	46.00	110.50	22.000	23.60	40.90	19.000	12.000	22.60	39.00	
WR2242115DD	42.00	41.50	115.00	22.000	29.80	43.70	15.918	15.918	8.50	41.70	
WR2242116DD	42.00	46.00	115.50	22.000	26.50	43.000	18.00	13.00	24.00	38.50	
WR2242118D	42.00	46.00	118.00	22.000	28.00	44.00		12.000		40.50	
WR2555124D	55.00	60.00	124.00	25.000	22.00	42.00		15.918		41.00	
WR2555127D	55.00	60.00	127.00	25.061	25.00	42.00		16.056		41.00	
WR2555146DD	55.00	60.00	145.54	25.061	31.88	53.66	18.961	15.918	28.70	50.50	

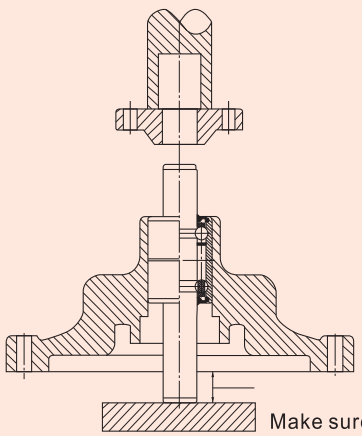
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Mounting

Pressing bearing into housing



Pressing hub onto shaft of mounting bearing



Identification Code

Example: WB 16 30 088 D D H - 1

- WB: Ball - Ball series
  WR: Ball - Roller series
- Shaft Diameter
- Outside Diameter of outer ring
- Internal Code
- The shaft with hole
- D: With One Step on One Side of Shaft
  DD: With Steps on Both Sides of Shaft
- Length of shaft

Size Range of KML Production Programme

Dimension Range (mm)	Min	Max
Shaft diameter (d)	12	32
Outside diameter of outer ring (D)	24	60
Length of shaft (A)	65	180

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