



## CUSCINETTI A RULLINI NEEDLE BEARINGS





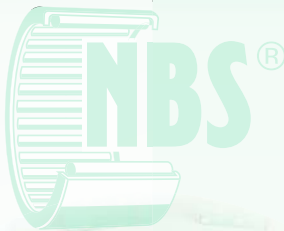
**LISTINO PREZZI - PRICE LIST**



**1.3.08**



Per ulteriori informazioni tecniche sui prodotti, potete richiedere il catalogo   
For further technical information about the products, please ask for  catalogue



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CUSCINETTI  
BEARINGS

CUSCINETTI  
PER APPLICAZIONI  
"BASSA RUMOROSITA"  
BEARINGS FOR  
"LOW NOISE" APPLICATIONS

CUSCINETTI A RULLINI  
NEEDLE BEARINGS

COMPONENTI PER LA  
MOVIMENTAZIONE LINEARE  
COMPONENTS FOR  
LINER MOTION

SUPPORTI  
AUTOLLINEANTI  
SELF-ALIGNING  
BEARING UNITS

SUPPORTI  
AUTOLLINEANTI  
SELF-ALIGNING  
BEARING UNITS

TESTE A SNOCCO  
SNODI SFERICI  
ROD ENDS  
SPHERICAL PLAIN BEARINGS

BUCCHIE  
BUSHES

CATENE  
CHAINS

CUSCINETTI  
BEARINGS

CUSCINETTI  
BEARINGS

## Programma Generale di Vendita

## General Sales Program



CUSCINETTI \*  
BEARINGS \*



SUPPORTI AUTOALLINEANTI  
SELF-ALIGNING BEARING UNITS



CUSCINETTI PER APPLICAZIONI "BASSA RUMOROSITÀ" \*  
BEARINGS FOR "LOW NOISE" APPLICATIONS \*



TESTE A SNODO - SNODI SFERICI \*  
ROD ENDS - SPHERICAL PLAIN BEARINGS \*



CUSCINETTI A RULLINI \*  
NEEDLE BEARINGS \*



BOCCOLE \*  
BUSHES \*



COMPONENTI PER LA MOVIMENTAZIONE LINEARE \*  
COMPONENTS FOR LINEAR MOTION \*



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SUPPORTI AUTOALLINEANTI \*  
SELF-ALIGNING BEARING UNITS \*

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con pronta consegna.

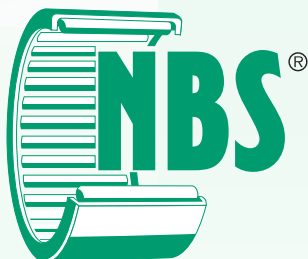
Big and full assortment with prompt  
delivery.



CUSCINETTI SKF - FAG  
SKF - FAG BEARINGS

Distributore / Distributor

## Listino prezzi - Price list



### **CUSCINETTI A RULLINI** ***NEEDLE BEARINGS***

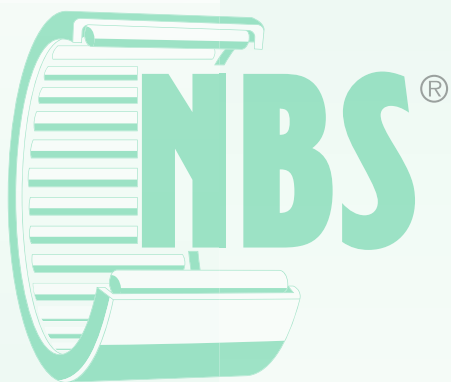
Il presente Listino Prezzi NBS® Cuscinetti a rullini 1.3.08, annulla e sostituisce i precedenti listini prezzi della stessa categoria. La decorrenza del presente, è valida per tutti gli ordini evasi dal 01.03.2008; ed i prezzi in esso riportati sono da intendersi validi fino alla prossima revisione e/o aggiornamento del presente Listino Prezzi.













All'interno sono riportati i prodotti più comunemente utilizzati nell'industria; per l'assortimento e la disponibilità d'ulteriori prodotti non presenti nel Listino, Vi preghiamo di contattare il Vs. Distributore Autorizzato preferenziale più vicino a Voi. Avendo prestato la massima attenzione ed accuratezza nella stesura del presente Listino Prezzi, speriamo di aver realizzato uno strumento valido e proficuo nello svolgimento delle Vs. attività commerciali.

















*This NBS® Needle Bearings Price List 1.3.08, cancels and substitutes all previous price lists of the same category. This Price List is in force all orders shipped after the 1<sup>st</sup> March 2008, and the prices are valid until the next review and/or update.*











*This Price List includes all items most frequently used in the industry; for range and availability of products not included, please contact the closest Authorised Distributor. We have paid our utmost attention in the preparation of this Price List and hope, therefore, to have worked out a valid and useful instrument for your commercial activities.*













**Non saranno evasi ordini con importi inferiori a € 100, al netto degli sconti.  
Minimum invoice value € 100,00 (transport cost excluded).**






























SIGLA - DESIGNATION	Pag.
<p>Gabbie a rullini, singola e doppia corona  <i>Needle roller and cage assemblies, single and double row</i></p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <span>K</span> <span>K..-ZW</span> </div>	<b>1</b>
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SIGLA - DESIGNATION		Pag.
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SIGLA - DESIGNATION	Pag.
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SIGLA - DESIGNATION	Pag.		
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SIGLA - DESIGNATION			Pag.
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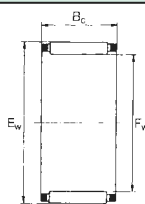


# Gabbie a rullini, singola e doppia corona

## Needle roller and cage assemblies, single and double row

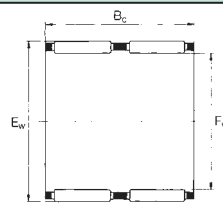
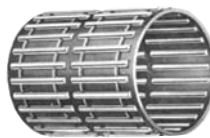


Equivalente INA *Equivalent* = K



**K** (singola corona - *single row*)

Equivalente INA *Equivalent* = K..-ZW



**K..-ZW** (doppia corona - *double row*)

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	Ew	Bc				Fw	Ew	Bc	
K 3x5x7 TN	2,86	3	5	7		K 12x16x8	*	12	16	8	
K 3x5x9 TN	2,93	3	5	9		K 12x16x10	*	12	16	10	
K 3x6x7 TN	2,89	3	6	7		K 12x16x13 TN	4,34	12	16	13	
K 4x7x7 TN	2,81	4	7	7		K 12x16x13 ACC.	*	12	16	13	
K 4x7x10 TN	3,99	4	7	10		K 12x17x13 TN	5,52	12	17	13	
K 5x8x8 TN	3,15	5	8	8		K 12x18x12 TN	6,52	12	18	12	
K 5x8x10 TN	3,23	5	8	10		K 13x17x10	*	13	17	10	
K 5x9x9 TN	*	5	9	9		K 13x18x15	*	13	18	15	
K 6x9x8 TN	3,15	6	9	8		K 13x22x15	*	13	22	15	
K 6x9x10 TN	3,23	6	9	10		K 14x17x10	*	14	17	10	
K 6x10x13 TN	6,49	6	10	13		K 14x17x17	*	14	17	17	
K 7x9x7 TN	3,78	7	9	7		K 14x18x10	4,07	14	18	10	
K 7x10x8 TN	3,15	7	10	8		K 14x18x13	4,34	14	18	13	
K 7x10x10 TN	3,41	7	10	10		K 14x18x14	*	14	18	14	
K 8x11x8 TN	3,83	8	11	8		K 14x18x15 TN	5,85	14	18	15	
K 8x11x10 TN	3,41	8	11	10		K 14x18x17	4,95	14	18	17	
K 8x11x13 TN	3,65	8	11	13		K 14x19x13	*	14	19	13	
K 8x12x10 TN	3,78	8	12	10		K 14x19x18	*	14	19	18	
K 9x12x10 TN	4,27	9	12	10		K 14x20x10	*	14	20	10	
K 9x12x13 TN	7,31	9	12	13		K 14x20x12	6,99	14	20	12	
K 10x13x10 TN	3,41	10	13	10		K 15x18x13	*	15	18	13	
K 10x13x13 TN	3,65	10	13	13		K 15x18x14	*	15	18	14	
K 10x13x16 TN	12,03	10	13	16		K 15x18x17 TN	6,18	15	18	17	
K 10x14x10 TN	4,07	10	14	10		K 15x19x10	4,34	15	19	10	
K 10x14x13 TN	4,07	10	14	13		K 15x19x13	4,69	15	19	13	
K 10x16x12 TN	6,11	10	16	12		K 15x19x17	5,40	15	19	17	
K 11x14x10	*	11	14	10		K 15x19x20	*	15	19	20	
K 12x15x9	*	12	15	9		K 15x19x24	*	15	19	24	
K 12x15x10 TN	3,78	12	15	10		K 15x20x13	12,59	15	20	13	
K 12x15x13 TN	4,34	12	15	13		K 15x21x15	7,55	15	21	15	
K 12x15x15	*	12	15	15		K 15x21x21	8,58	15	21	21	
K 12x15x20-ZW TN	22,20	12	15	20		K 15x25x18	*	15	25	18	

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

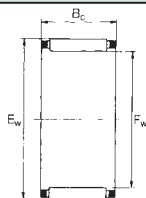
\* Disponibile su richiesta  
Available under request



# Gabbie a rullini, singola e doppia corona

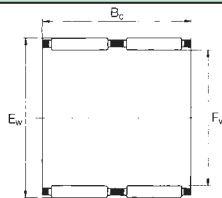
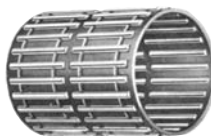
## Needle roller and cage assemblies, single and double row

Equivalente INA *Equivalent* = K



**K** (singola corona - *single row*)

Equivalente INA *Equivalent* = K..-ZW



**K..-ZW** (doppia corona - *double row*)

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	Ew	Bc				Fw	Ew	Bc	
K 16x20x10	4,34	16	20	10		K 20x26x12	8,26	20	26	12	
K 16x20x13	4,69	16	20	13		K 20x26x13	8,26	20	26	13	
K 16x20x17	5,40	16	20	17		K 20x26x17	8,81	20	26	17	
K 16x20x20	*	16	20	20		K 20x26x20	9,08	20	26	20	
K 16x21x27	*	16	21	27		K 20x28x16	10,51	20	28	16	
K 16x22x12	7,43	16	22	12		K 20x28x20	10,64	20	28	20	
K 16x22x13	18,56	16	22	13		K 20x28x25	11,32	20	28	25	
K 16x22x16	7,98	16	22	16		K 20x30x30	11,66	20	30	30	
K 16x22x20	8,58	16	22	20		K 21x25x13	6,75	21	25	13	
K 16x24x20	19,02	16	24	20		K 21x25x17	12,45	21	25	17	
K 17x21x10	9,37	17	21	10		K 22x26x10	5,40	22	26	10	
K 17x21x13	4,95	17	21	13		K 22x26x13	5,64	22	26	13	
K 17x21x17	8,54	17	21	17		K 22x26x17	9,84	22	26	17	
K 17x24x20	*	17	24	20		K 22x27x17	*	22	27	17	
K 18x22x8	*	18	22	8		K 22x28x17	9,08	22	28	17	
K 18x22x10	5,85	18	22	10		K 22x29x16	9,08	22	29	16	
K 18x22x13	7,40	18	22	13		K 22x30x15 TN	10,24	22	30	15	
K 18x22x17	5,68	18	22	17		K 22x32x24	13,27	22	32	24	
K 18x23x20	*	18	23	20		K 23x35x16 TN	*	23	35	16	
K 18x24x12	7,88	18	24	12		K 24x28x10	5,64	24	28	10	
K 18x24x13	24,60	18	24	13		K 24x28x13	11,51	24	28	13	
K 18x24x15	*	18	24	15		K 24x28x17	13,52	24	28	17	
K 18x24x20	9,90	18	24	20		K 24x29x13	*	24	29	13	
K 18x25x14	12,04	18	25	14		K 24x30x17	11,59	24	30	17	
K 18x25x22	9,15	18	25	22		K 24x30x31-ZW	36,75	24	30	31	
K 18x28x16	*	18	28	16		K 25x29x10	5,64	25	29	10	
K 19x23x13	5,40	19	23	13		K 25x29x13	5,93	25	29	13	
K 19x23x17	5,93	19	23	17		K 25x29x17	6,75	25	29	17	
K 20x24x10	4,95	20	24	10		K 25x30x13	11,46	25	30	13	
K 20x24x12	*	20	24	12		K 25x30x17	8,28	25	30	17	
K 20x24x13	5,40	20	24	13		K 25x30x20	8,56	25	30	20	
K 20x24x17	5,93	20	24	17		K 25x30x26-ZW	13,40	25	30	26	

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

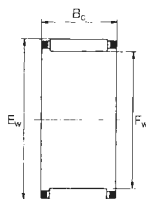
\* Disponibile su richiesta  
Available under request

# Gabbie a rullini, singola e doppia corona

## Needle roller and cage assemblies, single and double row

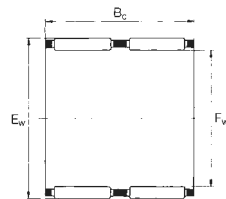
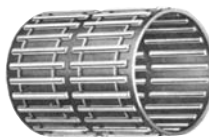


Equivalente INA Equivalent = K



**K** (singola corona - single row)

Equivalente INA Equivalent = K..-ZW



**K..-ZW** (doppia corona - double row)

Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.	Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.
		Fw	Ew	Bc				Fw	Ew	Bc	
K 25x31x17	9,47	25	31	17		K 30x37x13	*	30	37	13	
K 25x31x21	9,73	25	31	21		K 30x37x16	10,64	30	37	16	
K 25x32x16	9,47	25	32	16		K 30x37x18	10,64	30	37	18	
K 25x33x20	11,18	25	33	20		K 30x38x30	26,95	30	38	30	
K 25x33x24	11,91	25	33	24		K 30x40x18	14,65	30	40	18	
K 25x35x30	13,06	25	35	30		K 30x40x30	14,13	30	40	30	
K 25x38x28	*	25	38	28		K 30x42x26	*	30	42	26	
K 26x30x10	*	26	30	10		K 32x37x13	6,99	32	37	13	
K 26x30x13	7,78	26	30	13		K 32x37x17	9,08	32	37	17	
K 26x30x17	7,12	26	30	17		K 32x37x27	9,73	32	37	27	
K 26x30x22-ZW	11,14	26	30	22		K 32x37x28	*	32	37	28	
K 26x31x13	*	26	31	13		K 32x38x16	*	32	38	16	
K 26x34x22	*	26	34	22		K 32x38x20	11,05	32	38	20	
K 28x31x21	*	28	31	21		K 32x38x26	37,65	32	38	26	
K 28x33x13	6,52	28	33	13		K 32x39x16	10,95	32	39	16	
K 28x33x17	7,28	28	33	17		K 32x39x18	*	32	39	18	
K 28x33x27 TN	*	28	33	27		K 32x40x25	13,65	32	40	25	
K 28x34x17	*	28	34	17		K 32x40x36	*	32	40	36	
K 28x34x20	*	28	34	20		K 32x40x42-ZW TN	22,65	32	40	42	
K 28x35x16	10,31	28	35	16		K 32x46x32	28,45	32	46	32	
K 28x35x18	10,41	28	35	18		K 35x40x13	7,25	35	40	13	
K 28x35x27	*	28	35	27		K 35x40x17	7,55	35	40	17	
K 28x36x20	*	28	36	20		K 35x40x25	21,40	35	40	25	
K 28x40x18	32,10	28	40	18		K 35x40x26-ZW	17,37	35	40	26	
K 28x40x25	22,80	28	40	25		K 35x40x27 TN	10,28	35	40	27	
K 29x34x27	*	29	34	27		K 35x40x30-ZW	62,20	35	40	30	
K 30x34x13	15,98	30	34	13		K 35x40x32	*	35	40	32	
K 30x35x13	6,52	30	35	13		K 35x42x16	16,70	35	42	16	
K 30x35x17	7,28	30	35	17		K 35x42x18	11,18	35	42	18	
K 30x35x20 TN	14,06	30	35	20		K 35x42x20	14,06	35	42	20	
K 30x35x26	*	30	35	26		K 35x42x26	*	35	42	26	
K 30x35x27	9,08	30	35	27		K 35x42x30	12,21	35	42	30	

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

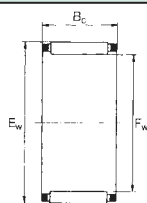
\* Disponibile su richiesta  
Available under request



# Gabbie a rullini, singola e doppia corona

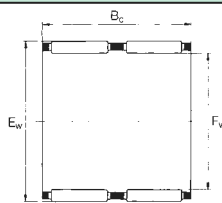
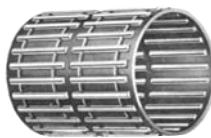
## Needle roller and cage assemblies, single and double row

Equivalente INA *Equivalent* = K



**K** (singola corona - *single row*)

Equivalente INA *Equivalent* = K..-ZW



**K..-ZW** (doppia corona - *double row*)

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	Ew	Bc				Fw	Ew	Bc	
K 35x43x18	*	35	43	18		K 42x47x30-ZW	16,12	42	47	30	
K 35x45x20	17,37	35	45	20		K 42x49x17	*	42	49	17	
K 35x45x30	19,56	35	45	30		K 42x50x18	*	42	50	18	
K 35x45x49	47,85	35	45	49		K 42x50x20	15,05	42	50	20	
K 36x42x16	*	36	42	16		K 43x48x17	9,74	43	48	17	
K 37x42x13	*	37	42	13		K 43x48x27	12,96	43	48	27	
K 37x42x17	8,14	37	42	17		K 43x50x13	*	43	50	13	
K 37x42x27	*	37	42	27		K 43x50x18	*	43	50	18	
K 37x43x26	*	37	43	26		K 45x49x19	25,40	45	49	19	
K 37x44x18	*	37	44	18		K 45x50x13	*	45	50	13	
K 37x45x26	*	37	45	26		K 45x50x17	10,10	45	50	17	
K 38x43x17	16,50	38	43	17		K 45x50x27	13,60	45	50	27	
K 38x43x27	27,60	38	43	27		K 45x50x32 TN	36,85	45	50	32	
K 38x46x20	13,25	38	46	20		K 45x51x36	*	45	51	36	
K 38x46x32	19,09	38	46	32		K 45x52x18	15,05	45	52	18	
K 39x44x24	*	39	44	24		K 45x52x21 TN	*	45	52	21	
K 39x44x26-ZW	23,10	39	44	26		K 45x53x20	16,91	45	53	20	
K 40x44x13	*	40	44	13		K 45x53x21	*	45	53	21	
K 40x45x13	9,93	40	45	13		K 45x53x22	21,40	45	53	22	
K 40x45x17	8,52	40	45	17		K 45x53x28	19,09	45	53	28	
K 40x45x19	*	40	45	19		K 45x55x18	*	45	55	18	
K 40x45x21	*	40	45	21		K 45x59x18 TN	*	45	59	18	
K 40x45x27	11,71	40	45	27		K 45x59x32	35,30	45	59	32	
K 40x45x30	*	40	45	30		K 45x59x36	*	45	59	36	
K 40x46x17	*	40	46	17		K 46x51x18	*	46	51	18	
K 40x47x18	13,60	40	47	18		K 46x56x18	*	46	56	18	
K 40x47x20	25,40	40	47	20		K 47x52x17	11,05	47	52	17	
K 40x48x20	14,13	40	48	20		K 47x52x27	28,30	47	52	27	
K 42x47x13	11,40	42	47	13		K 47x53x25	43,65	47	53	25	
K 42x47x17	9,53	42	47	17		K 47x55x26	*	47	55	26	
K 42x47x25 TN	*	42	47	25		K 47x55x28	50,70	47	55	28	
K 42x47x27	*	42	47	27		K 48x53x17	*	48	53	17	

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

\* Disponibile su richiesta

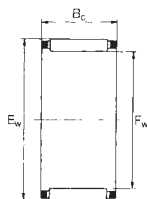
Available under request

# Gabbie a rullini, singola e doppia corona

## Needle roller and cage assemblies, single and double row

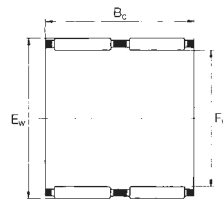
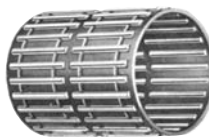


Equivalente INA *Equivalent* = K



**K** (singola corona - *single row*)

Equivalente INA *Equivalent* = K..-ZW



**K..-ZW** (doppia corona - *double row*)

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	Ew	Bc				Fw	Ew	Bc	
K 48x54x19	*	48	54	19		K 60x68x25	27,70	60	68	25	
K 50x55x13,5	20,75	50	55	13,5		K 60x68x27	50,40	60	68	27	
K 50x55x17	14,46	50	55	17		K 60x68x30-ZW	*	60	68	30	
K 50x55x20	12,08	50	55	20		K 60x68x34	*	60	68	34	
K 50x55x30	14,79	50	55	30		K 60x75x42	71,60	60	75	42	
K 50x57x18	16,24	50	57	18		K 62x70x40-ZW	*	62	70	40	
K 50x58x20	19,09	50	58	20		K 63x70x21	82,20	63	70	21	
K 50x58x25	21,95	50	58	25		K 64x70x16	*	64	70	16	
K 52x57x12	25,20	52	57	12		K 65x70x20	21,55	65	70	20	
K 52x57x17	*	52	57	17		K 65x70x30	25,80	65	70	30	
K 52x58x19 TN	20,90	52	58	19		K 65x73x23	72,20	65	73	23	
K 55x60x20	15,25	55	60	20		K 65x73x30	32,40	65	73	30	
K 55x60x27	21,05	55	60	27		K 68x74x20	22,90	68	74	20	
K 55x60x30	18,45	55	60	30		K 68x74x30	27,80	68	74	30	
K 55x62x18	19,89	55	62	18		K 68x74x35-ZW	48,55	68	74	35	
K 55x63x13	*	55	63	13		K 68x75x32	*	68	75	32	
K 55x63x15	*	55	63	15		K 70x76x20	25,10	70	76	20	
K 55x63x17	*	55	63	17		K 70x76x30	31,05	70	76	30	
K 55x63x20	21,70	55	63	20		K 70x78x23 TN	38,85	70	78	23	
K 55x63x25	22,95	55	63	25		K 70x78x25	*	70	78	25	
K 55x63x32	28,05	55	63	32		K 70x78x30	35,80	70	78	30	
K 56x61x20	*	56	61	20		K 70x78x46-ZW	124,50	70	78	46	
K 58x63x17	20,25	58	63	17		K 70x80x30	*	70	80	30	
K 58x64x19	38,70	58	64	19		K 72x80x20	35,80	72	80	20	
K 58x65x18	26,95	58	65	18		K 73x79x20	27,80	73	79	20	
K 58x65x36-ZW	*	58	65	36		K 75x81x20	30,25	75	81	20	
K 60x65x20	17,64	60	65	20		K 75x81x30	38,20	75	81	30	
K 60x65x30	21,85	60	65	30		K 75x83x23	39,75	75	83	23	
K 60x66x33-ZW	35,65	60	66	33		K 75x83x30	77,00	75	83	30	
K 60x66x40-ZW	*	60	66	40		K 75x83x35-ZW	*	75	83	35	
K 60x68x20	27,20	60	68	20		K 75x83x40-ZW	*	75	83	40	
K 60x68x23	27,70	60	68	23		K 80x86x20	35,30	80	86	20	

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

\* Disponibile su richiesta

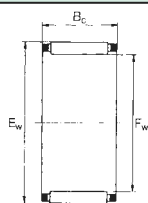
Available under request



# Gabbie a rullini, singola e doppia corona

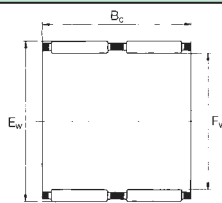
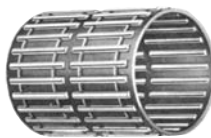
## Needle roller and cage assemblies, single and double row

Equivalente INA *Equivalent* = K



**K** (singola corona - *single row*)

Equivalente INA *Equivalent* = K..-ZW



**K..-ZW** (doppia corona - *double row*)

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	Ew	Bc				Fw	Ew	Bc	
K 80x86x30	64,80	80	86	30		K 185x195x37	358,00	185	195	37	
K 80x88x30	*	80	88	30		K 195x205x37	625,00	195	205	37	
K 80x88x40-ZW	*	80	88	40		K 210x220x42	*	210	220	42	
K 80x88x46-ZW	*	80	88	46		K 220x230x42	*	220	230	42	
K 85x92x20	38,60	85	92	20		K 240x250x42	995,00	240	250	42	
K 90x97x20	47,60	90	97	20		K 265x280x50	1.171,00	265	280	50	
K 90x98x27	136,50	90	98	27							
K 90x98x30	70,90	90	98	30							
K 95x103x30	82,20	95	103	30							
K 95x103x40-ZW	*	95	103	40							
K 100x107x21	67,60	100	107	21							
K 100x108x27	92,80	100	108	27							
K 100x108x30	201,00	100	108	30							
K 105x112x21	83,60	105	112	21							
K 105x113x30	*	105	113	30							
K 110x117x24	94,10	110	117	24							
K 110x118x30	131,50	110	118	30							
K 115x123x27	135,00	115	123	27							
K 120x127x24	118,50	120	127	24							
K 120x127x34	*	120	127	34							
K 125x133x35	179,00	125	133	35							
K 130x137x24	137,50	130	137	24							
K 135x143x35	191,50	135	143	35							
K 145x153x26	175,50	145	153	26							
K 145x153x36	*	145	153	36							
K 150x160x46	269,00	150	160	46							
K 155x163x26	205,50	155	163	26							
K 155x163x36	*	155	163	36							
K 160x170x46	310,00	160	170	46							
K 165x173x26	359,50	165	173	26							
K 170x180x46	*	170	180	46							
K 175x183x32	299,00	175	183	32							

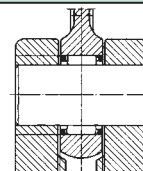
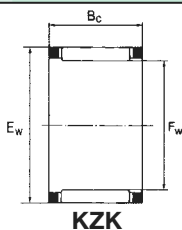
\* Disponibile su richiesta  
Available under request

# Gabbie a rullini per imbiellaggi, supporto bottone di manovella

## Needle roller and cage assemblies for crank pin of connecting rod



Equivalente INA *Equivalent* = KZK



**KZK**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	Ew	Bc				Fw	Ew	Bc	
KZK 8x12x8	*	8	12	8		KZK 19x28x14	*	19	28	14	
KZK 10x14x10	*	10	14	10		KZK 20x25x16	*	20	25	16	
KZK 12x15x13	*	12	15	13		KZK 20x26x12	<b>11,45</b>	20	26	12	
KZK 12x16x10	<b>7,12</b>	12	16	10		KZK 20x26x14	*	20	26	14	
KZK 12x16x11	*	12	16	11		KZK 20x26x17	*	20	26	17	
KZK 12x17x10	<b>6,18</b>	12	17	10		KZK 22x28x13	<b>18,50</b>	22	28	13	
KZK 12x18x10	*	12	18	10		KZK 22x28x14	*	22	28	14	
KZK 14x18x10	<b>14,25</b>	14	18	10		KZK 22x28x15	*	22	28	15	
KZK 14x19x10	*	14	19	10		KZK 22x28x16	*	22	28	16	
KZK 14x19x12	*	14	19	12		KZK 22x29x15	*	22	29	15	
KZK 14,4x20,4x10	<b>9,15</b>	14,4	20,4	10		KZK 22x29x16	<b>12,81</b>	22	29	16	
KZK 15x19x9	*	15	19	9		KZK 22x30x16	*	22	30	16	
KZK 15x19x10	*	15	19	10		KZK 23x29x13	*	23	29	13	
KZK 15x20x10	*	15	20	10		KZK 23x30x14	*	23	30	14	
KZK 15x21x10	*	15	21	10		KZK 23x30x16	*	23	30	16	
KZK 15x21x11	*	15	21	11		KZK 23,1x28,1x14	*	23,1	28,1	14	
KZK 15,2x22,2x12	*	15,2	22,2	12		KZK 24x30x15	*	24	30	15	
KZK 16x20x10	*	16	20	10		KZK 24x30x16	*	24	30	16	
KZK 16x20x24	*	16	20	24		KZK 25x30x28	*	25	30	28	
KZK 16x21x10	<b>6,18</b>	16	21	10		KZK 25x31x12	*	25	31	12	
KZK 16x22x12	<b>10,36</b>	16	22	12		KZK 25x31x17	*	25	31	17	
KZK 16x22x14	*	16	22	14		KZK 25x31x20	*	25	31	20	
KZK 17x21x10	*	17	21	10		KZK 25x32x16	*	25	32	16	
KZK 17x23x11	*	17	23	11		KZK 25,1x30,1x14	*	25,1	30,1	14	
KZK 18x22x10	*	18	22	10		KZK 26x34x16	*	26	34	16	
KZK 18x22x24	*	18	22	24		KZK 28x33x14	*	28	33	14	
KZK 18x24x11,6	*	18	24	11,6		KZK 28x34x14	*	28	34	14	
KZK 18x24x12	<b>21,95</b>	18	24	12		KZK 28x35x15	*	28	35	15	
KZK 18x24x13,3	*	18	24	13,3		KZK 28x35x16	*	28	35	16	
KZK 18x24x13,5	*	18	24	13,5		KZK 28x38x13,6	*	28	38	13,6	
KZK 18x24x15	*	18	24	15		KZK 30x36x16	*	30	36	16	
KZK 19x25x16	*	19	25	16		KZK 30x37x16	*	30	37	16	

\* Disponibile su richiesta  
*Available under request*

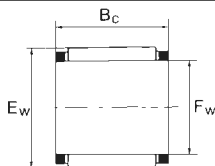


# Gabbie a rullini per imbiellaggi, supporto spinotto

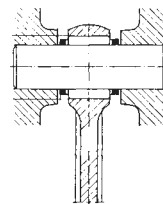
## Needle roller and cage assemblies for piston pin of connecting rod



Equivalente INA *Equivalent* = KBK



KBK



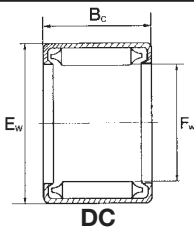
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	Ew	Bc				Fw	Ew	Bc	
KBK 8x11x10	*	8	11	10		KBK 12x17x14,8	*	12	17	14,8	
KBK 8x12x10	*	8	12	10		KBK 13x17x14,5	*	13	17	14,5	
KBK 9x12x11,5	*	9	12	11,5		KBK 13x17x17,5	*	13	17	17,5	
KBK 9x12x13	*	9	12	13		KBK 14x18x10	*	14	18	10	
KBK 9x12x14	*	9	12	14		KBK 14x18x12	*	14	18	12	
KBK 9x13x12	*	9	13	12		KBK 14x18x13	*	14	18	13	
KBK 9x13x12,5	6,15	9	13	12,5		KBK 14x18x14	*	14	18	14	
KBK 9x13x13	*	9	13	13		KBK 14x18x14,5	*	14	18	14,5	
KBK 10x13x8	*	10	13	8		KBK 14x18x15	*	14	18	15	
KBK 10x13x10	*	10	13	10		KBK 14x18x16,5	*	14	18	16,5	
KBK 10x13x14,5	6,25	10	13	14,5		KBK 14x18x17	*	14	18	17	
KBK 10x13x16	*	10	13	16		KBK 14x18x20	*	14	18	20	
KBK 10x14x10	*	10	14	10		KBK 14x18x21	*	14	18	21	
KBK 10x14x11	*	10	14	11		KBK 14x18x22	*	14	18	22	
KBK 10x14x12	*	10	14	12		KBK 14x19x17	*	14	19	17	
KBK 10x14x12,5	*	10	14	12,5		KBK 15x19x10	*	15	19	10	
KBK 10x14x13	6,30	10	14	13		KBK 15x19x18	*	15	19	18	
KBK 10x17x14	*	10	17	14		KBK 15x19x19	*	15	19	19	
KBK 11x15x17	*	11	15	17		KBK 15x19x20	9,22	15	19	20	
KBK 12x15x13	*	12	15	13		KBK 15x20x24	*	15	20	24	
KBK 12x15x14,3	*	12	15	14,3		KBK 16x20x19	*	16	20	19	
KBK 12x15x15	7,28	12	15	15		KBK 16x20x20	14,70	16	20	20	
KBK 12x15x16,6	*	12	15	16,6		KBK 16x20x21	*	16	20	21	
KBK 12x15x17	*	12	15	17		KBK 16x20x22	*	16	20	22	
KBK 12x15x17,5	7,89	12	15	17,5		KBK 16x21x19	*	16	21	19	
KBK 12x16x13	6,75	12	16	13		KBK 17,5x22x16	*	17,5	22	16	
KBK 12x16x15	*	12	16	15		KBK 18x22x22	13,60	18	22	22	
KBK 12x16x15,5	*	12	16	15,5		KBK 18x22x23,5	*	18	22	23,5	
KBK 12x16x16	*	12	16	16		KBK 18x22x24	17,57	18	22	24	
KBK 12x16x17	*	12	16	17		KBK 18x22x25	*	18	22	25	
KBK 12x17x14	*	12	17	14		KBK 18x23x21	*	18	23	21	
KBK 12x17x14,3	*	12	17	14,3		KBK 18x23x23	*	18	23	23	

\* Disponibile su richiesta  
Available under request



# Gabbie a rullini

## Needle roller and cage assemblies



Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.	Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.
		Fw	Ew	Bc				Fw	Ew	Bc	
DC 12x16x47	*	12	16	47							
DC 12x16x48	*	12	16	48							
DC 14x16x31	*	14	16	31							
DC 14x16x32	*	14	16	32							

\* Disponibile su richiesta  
Available under request

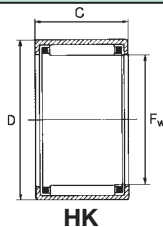


# Astucci a rullini aperti

## Drawn cup needle roller bearings with open ends



Equivalente INA *Equivalent* = HK



HK

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C				Fw	D	C	
HK 0306 TN	3,72	3	6,5	6		HK 2016	5,44	20	26	16	
HK 0408 TN	3,72	4	8	8		HK 2020	6,03	20	26	20	
HK 0509	3,60	5	9	9		HK 2030	8,28	20	26	30	
HK 0606	*	6	10	6		HK 2210	7,89	22	28	10	
HK 0608	3,60	6	10	8		HK 2212	5,24	22	28	12	
HK 0609	3,60	6	10	9		HK 2216	5,76	22	28	16	
HK 0709	3,60	7	11	9		HK 2220	6,18	22	28	20	
HK 0808	3,72	8	12	8		HK 2512	5,56	25	32	12	
HK 0810	3,72	8	12	10		HK 2516	6,02	25	32	16	
HK 0908	3,72	9	13	8		HK 2520	6,44	25	32	20	
HK 0910	3,72	9	13	10		HK 2524	*	25	32	24	
HK 0912	3,76	9	13	12		HK 2526	7,38	25	32	26	
HK 1010	3,76	10	14	10		HK 2538	10,24	25	32	38	
HK 1012	3,99	10	14	12		HK 2816	6,35	28	35	16	
HK 1015	4,21	10	14	15		HK 2820	6,75	28	35	20	
HK 1210	3,99	12	16	10		HK 3012	6,06	30	37	12	
HK 1212	4,21	12	18	12		HK 3016	6,75	30	37	16	
HK 1311	*	13	19	11		HK 3020	7,15	30	37	20	
HK 1312	4,28	13	19	12		HK 3022	*	30	37	22	
HK 1412	4,43	14	20	12		HK 3026	8,26	30	37	26	
HK 1512	4,48	15	21	12		HK 3038	11,66	30	37	38	
HK 1516	4,71	15	21	16		HK 3220	*	32	39	20	
HK 1522	5,82	15	21	22		HK 3224	*	32	39	24	
HK 1612	4,57	16	22	12		HK 3512	7,35	35	42	12	
HK 1616	4,90	16	22	16		HK 3516	7,98	35	42	16	
HK 1622	6,41	16	22	22		HK 3520	8,46	35	42	20	
HK 1712	4,71	17	23	12		HK 4012	8,95	40	47	12	
HK 1718	*	17	23	18		HK 4016	9,50	40	47	16	
HK 1812	4,86	18	24	12		HK 4020	10,20	40	47	20	
HK 1816	5,25	18	24	16		HK 4512	12,79	45	52	12	
HK 2010	4,99	20	26	10		HK 4516	10,70	45	52	16	
HK 2012	4,99	20	26	12		HK 4520	11,71	45	52	20	

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

\* Disponibile su richiesta

Available under request

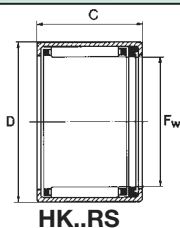


# Astucci a rullini con anelli di tenuta

## Sealed drawn cup needle roller bearings

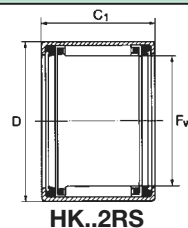


Equivalente INA *Equivalent* = HK..RS



**HK..RS**

Equivalente INA *Equivalent* = HK..2RS



**HK..2RS**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
HK 0810 RS	5,08	8	12	10	
HK 0812 RS	*	8	12	12	
HK 1012 RS	5,20	10	14	12	
HK 1214 RS	5,74	12	18	14	
HK 1414 RS	6,08	14	20	14	
HK 1514 RS	6,11	15	21	14	
HK 1518 RS	7,98	15	21	18	
HK 1614 RS	6,25	16	22	14	
HK 1814 RS	6,64	18	24	14	
HK 2018 RS	7,38	20	26	18	
HK 2214 RS	7,19	22	28	14	
HK 2218 RS	7,80	22	28	18	
HK 2512 RS	*	25	32	12	
HK 2518 RS	8,14	25	32	18	
HK 2818 RS	8,60	28	35	18	
HK 3012 RS	*	30	37	12	
HK 3018 RS	9,08	30	37	18	
HK 3518 RS	10,64	35	42	18	
HK 4018 RS	12,49	40	47	18	
HK 4518 RS	15,25	45	52	18	
HK 5022 RS	17,11	50	58	22	

RS: Tenuta ad un lato / *Sealed on one side*

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C <sub>1</sub>	
HK 0810 2RS	*	8	12	10	
HK 0812 2RS	5,74	8	12	12	
HK 1012 2RS	*	10	14	12	
HK 1014 2RS	5,78	10	14	14	
HK 1214 2RS	*	12	16	14	
HK 1216 2RS	6,38	12	18	16	
HK 1416 2RS	6,75	14	20	16	
HK 1516 2RS	6,83	15	21	16	
HK 1520 2RS	8,90	15	21	20	
HK 1614 2RS	*	16	22	14	
HK 1616 2RS	7,01	16	22	16	
HK 1620 2RS	7,36	16	22	20	
HK 1816 2RS	7,40	18	24	16	
HK 2016 2RS	7,68	20	26	16	
HK 2020 2RS	8,21	20	26	20	
HK 2216 2RS	8,03	22	28	16	
HK 2220 2RS	8,62	22	28	20	
HK 2516 2RS	8,46	25	32	16	
HK 2520 2RS	9,01	25	32	20	
HK 2524 2RS	11,91	25	32	24	
HK 2530 2RS	10,70	25	32	30	
HK 2820 2RS	9,48	28	35	20	
HK 3016 2RS	9,16	30	37	16	
HK 3020 2RS	10,00	30	37	20	
HK 3024 2RS	10,49	30	37	24	
HK 3516 2RS	10,80	35	42	16	
HK 3520 2RS	11,60	35	42	20	
HK 4016 2RS	12,71	40	47	16	
HK 4020 2RS	13,40	40	47	20	
HK 4520 2RS	14,85	45	52	20	
HK 5024 2RS	18,02	50	58	24	

2RS: Tenuta ad entrambi i lati / *Sealed on both sides*

\* Disponibile su richiesta  
*Available under request*

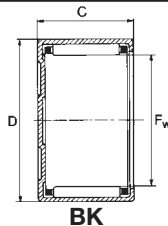


# Astucci a rullini aperti, con fondello

## Drawn cup needle roller bearings with closed end



Equivalente INA *Equivalent* = BK



Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C				Fw	D	C	
BK 0306 TN	4,09	3	6,5	6		BK 2512	*	25	32	12	
BK 0408 TN	4,09	4	8	8		BK 2516	*	25	32	16	
BK 0509	3,98	5	9	9		BK 2520	8,84	25	32	20	
BK 0609	3,98	6	10	9		BK 2526	8,14	25	32	26	
BK 0709	3,98	7	11	9		BK 2538	11,26	25	32	38	
BK 0808	4,09	8	12	8		BK 2816	*	28	35	16	
BK 0810	4,09	8	12	10		BK 2820	*	28	35	20	
BK 0910	4,09	9	13	10		BK 3012	*	30	37	12	
BK 0912	4,12	9	13	12		BK 3016	14,85	30	37	16	
BK 1010	4,12	10	14	10		BK 3020	9,87	30	37	20	
BK 1012	5,49	10	14	12		BK 3026	9,96	30	37	26	
BK 1015	6,93	10	14	15		BK 3038	12,81	30	37	38	
BK 1210	4,39	12	16	10		BK 3512	*	35	42	12	
BK 1212	4,63	12	18	12		BK 3516	*	35	42	16	
BK 1312	*	13	19	12		BK 3520	13,98	35	42	20	
BK 1412	4,92	14	20	12		BK 4012	*	40	47	12	
BK 1512	6,15	15	21	12		BK 4016	*	40	47	16	
BK 1516	5,20	15	21	16		BK 4020	11,18	40	47	20	
BK 1522	*	15	21	22		BK 4516	*	45	52	16	
BK 1612	6,30	16	22	12		BK 4520	*	45	52	20	
BK 1616	5,33	16	22	16		BK 5020	*	50	58	20	
BK 1622	17,57	16	22	22		BK 5025	*	50	58	25	
BK 1712	*	17	23	12		BK 5520	*	55	63	20	
BK 1812	15,98	18	24	12		BK 5528	*	55	63	28	
BK 1816	8,69	18	24	16		BK 6012	*	60	68	12	
BK 2012	*	20	26	12		BK 6020	*	60	68	20	
BK 2016	7,43	20	26	16		BK 6032	*	60	68	32	
BK 2020	9,94	20	26	20							
BK 2030	*	20	26	30							
BK 2212	*	22	28	12							
BK 2216	9,44	22	28	16							
BK 2220	*	22	28	20							

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

\* Disponibile su richiesta  
Available under request

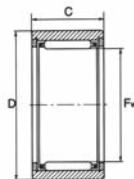


# Cuscinetti a rullini senza anello interno, serie leggera

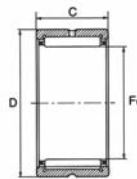
## Needle roller bearings without inner ring, light series



Equivalente INA *Equivalent* = NK



NK ( $F_w \leq 10$  mm)



NK ( $F_w \geq 12$  mm)

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		F <sub>w</sub>	D	C				F <sub>w</sub>	D	C	
NK 5/12 TN	10,20	5	10	12		NK 24/16	17,17	24	32	16	
NK 6/10 TN	10,51	6	12	10		NK 24/20	19,09	24	32	20	
NK 6/12 TN	10,51	6	12	12		NK 25/16	17,17	25	33	16	
NK 7/10 TN	10,51	7	14	10		NK 25/20	19,42	25	33	20	
NK 7/12 TN	10,51	7	14	12		NK 26/16	17,97	26	34	16	
NK 8/12 TN	10,51	8	15	12		NK 26/20	19,42	26	34	20	
NK 8/16 TN	11,20	8	15	16		NK 28/20	19,42	28	37	20	
NK 9/12 TN	10,94	9	16	12		NK 28/30	22,90	28	37	30	
NK 9/16 TN	11,20	9	16	16		NK 29/20	20,45	29	38	20	
NK 10/12 TN	10,94	10	17	12		NK 29/30	23,85	29	38	30	
NK 10/16 TN	11,49	10	17	16		NK 30/16	*	30	40	16	
NK 12/12	11,36	12	19	12		NK 30/20	20,45	30	40	20	
NK 12/16	11,66	12	19	16		NK 30/30	24,45	30	40	30	
NK 14/16	11,97	14	22	16		NK 32/20	21,05	32	42	20	
NK 14/20	14,13	14	22	20		NK 32/30	25,10	32	42	30	
NK 15/12	*	15	23	12		NK 35/20	22,10	35	45	20	
NK 15/16	12,37	15	23	16		NK 35/30	26,00	35	45	30	
NK 15/20	14,38	15	23	20		NK 37/20	23,40	37	47	20	
NK 16/16	13,05	16	24	16		NK 37/30	28,30	37	47	30	
NK 16/20	15,19	16	24	20		NK 38/20	23,65	38	48	20	
NK 17/16	13,40	17	25	16		NK 38/30	36,35	38	48	30	
NK 17/20	15,45	17	25	20		NK 40/20	24,50	40	50	20	
NK 18/16	13,79	18	26	16		NK 40/30	30,25	40	50	30	
NK 18/20	15,45	18	26	20		NK 42/20	26,25	42	52	20	
NK 19/16	14,13	19	27	16		NK 42/30	32,30	42	52	30	
NK 19/20	15,71	19	27	20		NK 43/20	27,25	43	53	20	
NK 20/16	14,38	20	28	16		NK 43/30	33,70	43	53	30	
NK 20/20	16,50	20	28	20		NK 45/20	29,05	45	55	20	
NK 21/16	15,45	21	29	16		NK 45/30	35,15	45	55	30	
NK 21/20	17,33	21	29	20		NK 47/20	30,95	47	57	20	
NK 22/16	*	22	30	16		NK 47/30	37,15	47	57	30	
NK 22/20	18,02	22	30	20		NK 50/25	33,25	50	62	25	

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

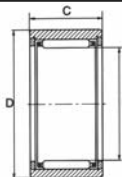
\* Disponibile su richiesta

Available under request

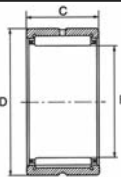


## Cuscinetti a rullini senza anello interno, serie pesante Needle roller bearings without inner ring, heavy series

Equivalente INA *Equivalent* = NK



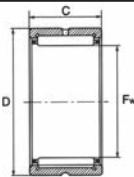
**NK** ( $F_w \leq 10 \text{ mm}$ )



**NK** ( $F_w \geq 12 \text{ mm}$ )

Serie leggera / *Light series*

Equivalente INA *Equivalent* = NKS



**NKS** ( $F_w \geq 14 \text{ mm}$ )

Serie pesante / *Heavy series*

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		F <sub>w</sub>	D	C	
NK 50/35	40,05	50	62	35	
NK 55/25	40,85	55	68	25	
NK 55/35	48,80	55	68	35	
NK 60/25	46,70	60	72	25	
NK 60/35	55,60	60	72	35	
NK 65/25	51,60	65	78	25	
NK 65/35	64,00	65	78	35	
NK 68/25	56,40	68	82	25	
NK 68/35	68,30	68	82	35	
NK 70/25	60,40	70	85	25	
NK 70/35	74,30	70	85	35	
NK 73/25	69,70	73	90	25	
NK 73/35	85,50	73	90	35	
NK 75/25	73,70	75	92	25	
NK 75/35	111,50	75	92	35	
NK 80/25	77,50	80	95	25	
NK 80/35	96,80	80	95	35	
NK 85/25	89,50	85	105	25	
NK 85/35	105,50	85	105	35	
NK 90/25	102,00	90	110	25	
NK 90/35	124,50	90	110	35	
NK 95/26	117,00	95	115	26	
NK 95/36	136,00	95	115	36	
NK 100/26	132,00	100	120	26	
NK 100/36	150,50	100	120	36	
NK 105/26	150,50	105	125	26	
NK 105/36	215,50	105	125	36	
NK 110/30	176,00	110	130	30	
NK 110/40	195,50	110	130	40	
NK 120/40	*	120	140	40	
NK 155/32	*	155	180	32	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		F <sub>w</sub>	D	C	
NKS 8	*	8	16	13	
NKS 10	*	10	19	13	
NKS 12	*	12	22	16	
NKS 14	*	14	25	16	
NKS 15	*	15	26	16	
NKS 16	*	16	24	22	
NKS 18	*	18	30	16	
NKS 20	25,30	20	32	20	
NKS 22	69,00	22	35	20	
NKS 24	31,80	24	37	20	
NKS 25	26,25	25	38	20	
NKS 28	28,45	28	42	20	
NKS 30	31,25	30	45	22	
NKS 32	32,75	32	47	22	
NKS 35	36,75	35	50	22	
NKS 37	39,00	37	52	22	
NKS 40	42,60	40	55	22	
NKS 43	45,50	43	58	22	
NKS 45	46,95	45	60	22	
NKS 50	50,40	50	65	22	
NKS 55	*	55	72	22	
NKS 60	60,00	60	80	28	
NKS 65	74,90	65	85	28	
NKS 70	78,90	70	90	28	
NKS 75	92,10	75	95	28	
NKS 80	154,00	80	100	28	
NKS 90	*	90	110	32	
NKS 95	*	95	115	32	
NKS 100	*	100	120	32	
NKS 105	*	105	125	32	
NKS 110	*	110	130	32	
NKS 115	333,00	115	135	32	
NKS 135	756,00	135	160	40	

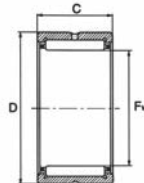
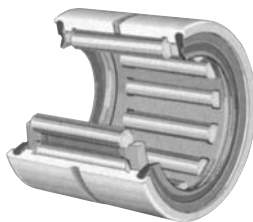
\* Disponibile su richiesta  
*Available under request*

# Cuscinetti a rullini senza anello interno

## Needle roller bearings without inner ring



Equivalente INA *Equivalent* = RNA 48..



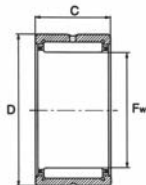
RNA 48-49

Equivalente INA *Equivalent* = RNA 49..

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
RNA 4822	210,00	120	140	30	
RNA 4824	247,00	130	150	30	
RNA 4826	306,50	145	165	35	
RNA 4828	337,00	155	175	35	
RNA 4830	456,00	165	190	40	
RNA 4832	524,00	175	200	40	
RNA 4834	601,00	185	215	45	
RNA 4836	744,00	195	225	45	
RNA 4838	816,00	210	240	50	
RNA 4840	1.007,00	220	250	50	
RNA 4844	1.220,00	240	270	50	
RNA 4848	1.413,00	265	300	60	
RNA 4852	1.914,00	285	320	60	
RNA 4856	2.389,00	305	350	69	
RNA 4860	3.644,00	330	380	80	
RNA 4864	4.009,00	350	400	80	
RNA 4868	5.231,00	370	420	80	
RNA 4872	4.746,00	390	440	80	
RNA 4876	5.738,00	415	480	100	

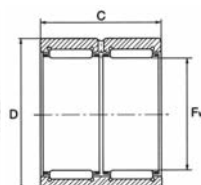
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
RNA 4900	16,18	14	22	13	
RNA 4901	17,17	16	24	13	
RNA 4902	18,02	20	28	13	
RNA 4903	19,61	22	30	13	
RNA 4904	21,15	25	37	17	
RNA 49/22	23,40	28	39	17	
RNA 4905	23,85	30	42	17	
RNA 49/28	26,40	32	45	17	
RNA 4906	27,70	35	47	17	
RNA 49/32	30,15	40	52	20	
RNA 4907	31,80	42	55	20	
RNA 4908	35,30	48	62	22	
RNA 4909	39,50	52	68	22	
RNA 4910	42,95	58	72	22	
RNA 4911	52,00	63	80	25	
RNA 4912	64,60	68	85	25	
RNA 4913	81,60	72	90	25	
RNA 4914	96,80	80	100	30	
RNA 4915	105,50	85	105	30	
RNA 4916	117,00	90	110	30	
RNA 4917	146,00	100	120	35	
RNA 4918	165,00	105	125	35	
RNA 4919	186,50	110	130	35	
RNA 4920	223,50	115	140	40	
RNA 4922	249,50	125	150	40	
RNA 4924	286,00	135	165	45	
RNA 4926	331,50	150	180	50	
RNA 4928	382,00	160	190	50	

Equivalente INA *Equivalent* = RNA 69..



**RNA 69**

Equivalente INA *Equivalent* = RNA 69..-ZW



**RNA 69**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
RNA 6901	19,61	16	24	22	
RNA 6902	21,15	20	28	23	
RNA 6903	22,10	22	30	23	
RNA 6904	36,05	25	37	30	
RNA 69/22	37,80	28	39	30	
RNA 6905	39,75	30	42	30	
RNA 69/28	46,50	32	45	30	
RNA 6906	50,30	35	47	30	

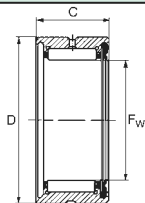
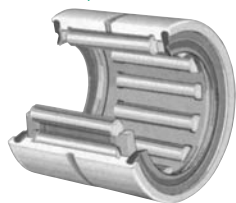
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
RNA 69/32	52,80	40	52	36	
RNA 6907	56,40	42	55	36	
RNA 6908	64,30	48	62	40	
RNA 6909	74,90	52	68	40	
RNA 6910	88,20	58	72	40	
RNA 6911	103,50	63	80	45	
RNA 6912	122,50	68	85	45	
RNA 6913	142,50	72	90	45	
RNA 6914	165,00	80	100	54	
RNA 6915	185,50	85	105	54	
RNA 6916	213,50	90	110	54	
RNA 6917	238,00	100	120	63	
RNA 6918	343,00	105	125	63	
RNA 6919	343,00	110	130	63	

# Cuscinetti a rullini senza anello interno, con anelli di tenuta

## Sealed needle roller bearings without inner ring

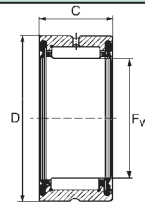


Equivalente INA *Equivalent* = RNA 49..RSR



**RNA 49..RS**

Equivalente INA *Equivalent* = RNA 49..2RSR



**RNA 49..2RS**

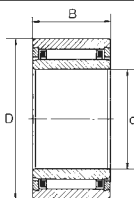
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		F <sub>w</sub>	D	C	
RNA 4900 RS	20,60	14	22	13	
RNA 4901 RS	21,75	16	24	13	
RNA 4902 RS	22,90	20	28	13	
RNA 4903 RS	24,60	22	30	13	
RNA 4904 RS	26,25	25	37	17	
RNA 4905 RS	29,20	30	42	17	
RNA 4906 RS	33,80	35	47	17	
RNA 4907 RS	38,10	42	55	20	
RNA 4908 RS	42,20	48	62	22	
RNA 4909 RS	46,10	52	68	22	
RNA 4910 RS	50,00	58	72	22	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		F <sub>w</sub>	D	C	
RNA 4900 2RS	25,10	14	22	13	
RNA 4901 2RS	26,40	16	24	13	
RNA 4902 2RS	27,70	20	28	13	
RNA 4903 2RS	29,65	22	30	13	
RNA 4904 2RS	31,15	25	37	17	
RNA 4905 2RS	34,90	30	42	17	
RNA 4906 2RS	39,75	35	47	17	
RNA 4907 2RS	44,45	42	55	20	
RNA 4908 2RS	48,65	48	62	22	
RNA 4909 2RS	52,80	52	68	22	
RNA 4910 2RS	57,20	58	72	22	

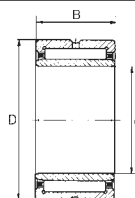


## Cuscinetti a rullini con anello interno, serie leggera Needle roller bearings with inner ring, light series

Equivalente INA *Equivalent* = NKI



NKI



NKI (d ≥ 9 mm)

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B				d	D	B	
NKI 5/12 TN <sup>1)</sup>	14,33	5	15	12		NKI 40/20	40,85	40	55	20	
NKI 5/16 TN <sup>1)</sup>	18,84	5	15	16		NKI 40/30	50,70	40	55	30	
NKI 6/12 TN <sup>1)</sup>	14,65	6	16	12		NKI 42/20	43,65	42	57	20	
NKI 6/16 TN <sup>1)</sup>	15,44	6	16	16		NKI 42/30	53,70	42	57	30	
NKI 7/12 TN <sup>1)</sup>	14,58	7	17	12		NKI 45/25	46,95	45	62	25	
NKI 7/16 TN <sup>1)</sup>	19,59	7	17	16		NKI 45/35	58,10	45	62	35	
NKI 9/12	15,25	9	19	12		NKI 50/25	56,60	50	68	25	
NKI 9/16	15,86	9	19	16		NKI 50/35	70,30	50	68	35	
NKI 10/16	17,37	10	22	16		NKI 55/25	64,90	55	72	25	
NKI 10/20	19,82	10	22	20		NKI 55/35	78,90	55	72	35	
NKI 12/16	18,56	12	24	16		NKI 60/25	78,20	60	82	25	
NKI 12/20	21,10	12	24	20		NKI 60/35	94,10	60	82	35	
NKI 15/16	19,42	15	27	16		NKI 65/25	92,10	65	90	25	
NKI 15/20	21,50	15	27	20		NKI 65/35	114,00	65	90	35	
NKI 17/16	21,50	17	29	16		NKI 70/25	107,50	70	95	25	
NKI 17/20	23,30	17	29	20		NKI 70/35	130,00	70	95	35	
NKI 20/16	22,95	20	32	16		NKI 75/25	123,50	75	105	25	
NKI 20/20	26,10	20	32	20		NKI 75/35	146,00	75	105	35	
NKI 22/16	24,95	22	34	16		NKI 80/25	137,00	80	110	25	
NKI 22/20	27,40	22	34	20		NKI 80/35	169,00	80	110	35	
NKI 25/20	28,25	25	38	20		NKI 85/26	162,50	85	115	26	
NKI 25/30	32,30	25	38	30		NKI 85/36	191,50	85	115	36	
NKI 28/20	29,10	28	42	20		NKI 90/26	190,50	90	120	26	
NKI 28/30	35,30	28	42	30		NKI 90/36	225,50	90	120	36	
NKI 30/20	31,05	30	45	20		NKI 95/26	214,00	95	125	26	
NKI 30/30	38,60	30	45	30		NKI 95/36	260,00	95	125	36	
NKI 32/20	33,25	32	47	20		NKI 100/30	250,00	100	130	30	
NKI 32/30	41,50	32	47	30		NKI 100/40	295,50	100	130	40	
NKI 35/20	35,15	35	50	20		NKI 110/40	*	110	140	40	
NKI 35/30	44,95	35	50	30		NKI 140/32	882,00	140	180	32	
NKI 38/20	38,10	38	53	20							
NKI 38/30	47,75	38	53	30							

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

\* Disponibile su richiesta  
Available under request

<sup>1)</sup> = Con anelli di chiusura, senza foro e gola di lubrificazione  
With closing rings, without hole and lubrication groove

TN = Plastic cage; temperature allowed: 80°C (continuous working)

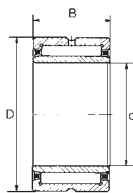




## Cuscinetti a rullini con anello interno

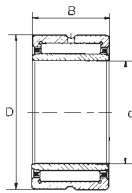
### Needle roller bearings with inner ring

Equivalente INA *Equivalent* = NA 48..



**NA 48**

Equivalente INA *Equivalent* = NA 49..



**NA 49**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
NA 4822	265,50	110	140	30	
NA 4824	306,50	120	150	30	
NA 4826	367,50	130	165	35	
NA 4828	415,00	140	175	35	
NA 4830	547,00	150	190	40	
NA 4832	619,00	160	200	40	
NA 4834	763,00	170	215	45	
NA 4836	897,00	180	225	45	
NA 4838	1.041,00	190	240	50	
NA 4840	1.303,00	200	250	50	
NA 4844	1.639,00	220	270	50	
NA 4848	1.939,00	240	300	60	
NA 4852	2.550,00	260	320	60	
NA 4856	3.128,00	280	350	69	
NA 4860	4.876,00	300	380	80	
NA 4864	5.422,00	320	400	80	
NA 4868	6.099,00	340	420	80	
NA 4872	6.776,00	360	440	80	
NA 4876	8.445,00	380	480	100	

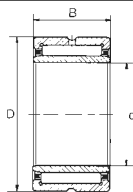
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
NA 4900	21,85	10	22	13	
NA 4901	22,65	12	24	13	
NA 4902	24,10	15	28	13	
NA 4903	26,40	17	30	13	
NA 4904	28,75	20	37	17	
NA 49/22	31,25	22	39	17	
NA 4905	32,05	25	42	17	
NA 49/28	34,90	28	45	17	
NA 4906	36,75	30	47	17	
NA 49/32	39,50	32	52	20	
NA 4907	41,60	35	55	20	
NA 4908	47,75	40	62	22	
NA 4909	53,80	45	68	22	
NA 4910	60,00	50	72	22	
NA 4911	69,70	55	80	25	
NA 4912	86,90	60	85	25	
NA 4913	107,50	65	90	25	
NA 4914	132,00	70	100	30	
NA 4915	145,00	75	105	30	
NA 4916	164,00	80	110	30	
NA 4917	199,00	85	120	35	
NA 4918	222,00	90	125	35	
NA 4919	258,00	95	130	35	
NA 4920	300,50	100	140	40	
NA 4922	341,00	110	150	40	
NA 4924	386,00	120	165	45	
NA 4926	448,50	130	180	50	
NA 4928	509,00	140	190	50	

# Cuscinetti a rullini con anello interno (singola e doppia corona)

## Needle roller bearings with inner ring (single and double row)

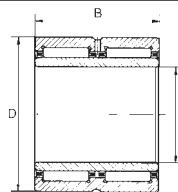
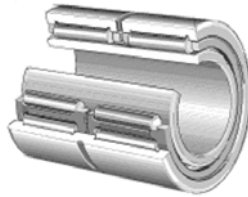


Equivalente INA *Equivalent* = NA 69..



NA 69

Equivalente INA *Equivalent* = NA 69..-ZW



NA 69

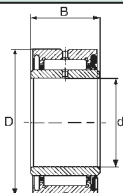
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B				d	D	B	
NA 6901	27,20	12	24	22		NA 69/32	69,70	32	52	36	
NA 6902	29,80	15	28	23		NA 6907	77,00	35	55	36	
NA 6903	32,10	17	30	23		NA 6908	88,20	40	62	40	
NA 6904	48,55	20	37	30		NA 6909	101,00	45	68	40	
NA 69/22	51,00	22	39	30		NA 6910	117,00	50	72	40	
NA 6905	53,20	25	42	30		NA 6911	136,00	55	80	45	
NA 69/28	61,30	28	45	30		NA 6912	159,00	60	85	45	
NA 6906	64,60	30	47	30		NA 6913	183,50	65	90	45	
						NA 6914	222,00	70	100	54	
						NA 6915	250,00	75	105	54	
						NA 6916	278,50	80	110	54	
						NA 6917	320,00	85	120	63	
						NA 6918	441,50	90	125	63	
						NA 6919	441,50	95	130	63	



## Cuscinetti a rullini con anello interno, con anelli di tenuta

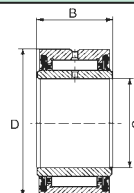
### Sealed needle roller bearings with inner ring

Equivalente INA *Equivalent* = NA 49..RSR



**NA 49..RS**

Equivalente INA *Equivalent* = NA 49..2RSR



**NA 49..2RS**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
NA 4900 RS	26,40	10	22	14	
NA 4901 RS	27,55	12	24	14	
NA 4902 RS	29,10	15	28	14	
NA 4903 RS	31,75	17	30	14	
NA 4904 RS	33,95	20	37	18	
NA 4905 RS	37,50	25	42	18	
NA 4906 RS	42,70	30	47	18	
NA 4907 RS	47,85	35	55	21	
NA 4908 RS	54,50	40	62	23	
NA 4909 RS	60,70	45	68	23	
NA 4910 RS	67,00	50	72	23	

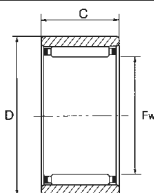
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
NA 4900 2RS	30,95	10	22	14	
NA 4901 2RS	32,25	12	24	14	
NA 4902 2RS	34,10	15	28	14	
NA 4903 2RS	36,75	17	30	14	
NA 4904 2RS	39,00	20	37	18	
NA 4905 2RS	43,10	25	42	18	
NA 4906 2RS	48,95	30	47	18	
NA 4907 2RS	54,40	35	55	21	
NA 4908 2RS	61,20	40	62	23	
NA 4909 2RS	67,60	45	68	23	
NA 4910 2RS	74,30	50	72	23	

# Cuscinetti a rullini senza bordini, senza anello interno (singola e doppia corona)

## Needle roller bearings without ribs, without inner ring (single and double row)

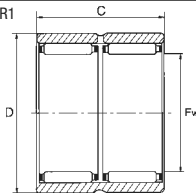


Equivalente INA *Equivalent* = RNAO



**RNAO**

Equivalente INA *Equivalent* = RNAO..-ZW ASR1



□ **RNAO** (doppia corona - *double row*)

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C				Fw	D	C	
RNAO 5x10x8 TN	10,13	5	10	8		RNAO 30x42x16	37,25	30	42	16	
RNAO 6x13x8 TN	10,25	6	13	8		RNAO 30x42x32 □	81,20	30	42	32	
RNAO 7x14x8 TN	10,26	7	14	8		RNAO 35x45x13	33,45	35	45	13	
RNAO 8x15x10 TN	15,45	8	15	10		RNAO 35x45x17	68,30	35	45	17	
RNAO 10x17x10 TN	10,88	10	17	10		RNAO 35x45x26 □	47,20	35	45	26	
RNAO 12x19x13,5 TN	*	12	19	13,5		RNAO 35x47x14	*	35	47	14	
RNAO 12x22x12 TN	14,99	12	22	12		RNAO 35x47x16	42,00	35	47	16	
RNAO 14x22x13	*	14	22	13		RNAO 35x47x18	71,60	35	47	18	
RNAO 14x22x20	*	14	22	20		RNAO 35x47x32 □	90,20	35	47	32	
RNAO 15x23x13	24,75	15	23	13		RNAO 37x52x18	*	37	52	18	
RNAO 16x24x13	19,24	16	24	13		RNAO 40x50x17	25,20	40	50	17	
RNAO 16x24x20	*	16	24	20		RNAO 40x50x34 □	144,50	40	50	34	
RNAO 16x28x12 □	20,90	16	28	12		RNAO 40x55x20	33,15	40	55	20	
RNAO 17x25x13	20,05	17	25	13		RNAO 40x55x40 □	53,40	40	55	40	
RNAO 17x25x20	*	17	25	20		RNAO 42x57x20	*	42	57	20	
RNAO 18x30x12	*	18	30	12		RNAO 45x55x17	29,70	45	55	17	
RNAO 18x30x24 □	*	18	30	24		RNAO 45x62x40 □	96,80	45	62	40	
RNAO 20x28x13	21,35	20	28	13		RNAO 50x62x20	65,70	50	62	20	
RNAO 20x28x26 □	42,70	20	28	26		RNAO 50x65x20	40,70	50	65	20	
RNAO 20x32x12	27,30	20	32	12		RNAO 50x65x40 □	70,30	50	65	40	
RNAO 22x30x13	31,80	22	30	13		RNAO 55x68x20	58,80	55	68	20	
RNAO 22x30x26	*	22	30	26		RNAO 60x78x20	79,50	60	78	20	
RNAO 22x35x16	29,80	22	35	16		RNAO 60x78x40 □	89,50	60	78	40	
RNAO 22x42x13	*	22	42	13		RNAO 65x85x30	140,50	65	85	30	
RNAO 25x35x17	29,80	25	35	17		RNAO 70x90x30	165,50	70	90	30	
RNAO 25x35x26 □	30,95	25	35	26		RNAO 80x100x30	168,50	80	100	30	
RNAO 25x37x16	63,10	25	37	16		RNAO 85x105x25	*	85	105	25	
RNAO 25x37x32	*	26	37	32		RNAO 90x105x26	*	90	105	26	
RNAO 26x39x13	*	26	39	13		RNAO 90x110x30	*	90	110	30	
RNAO 28x40x32	*	28	40	32		RNAO 100x120x30	355,50	100	120	30	
RNAO 30x40x17	25,80	30	40	17							
RNAO 30x40x26	*	30	40	26							

□ RNAO: A due corone, con gola e foro di lubrificazione  
*Double row, with groove and lubrication hole*

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

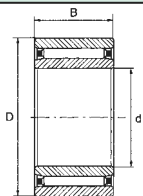
\* Disponibile su richiesta  
*Available under request*



# Cuscinetti a rullini senza bordini, con anello interno (singola e doppia corona)

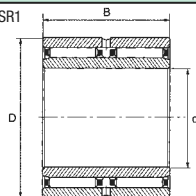
## Needle roller bearings without ribs, with inner ring (single and double row)

Equivalente INA *Equivalent* = NAO



**NAO**

Equivalente INA *Equivalent* = NAO...-ZW ASR1



□ **NAO** (doppia corona - *double row*)

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
NAO 6x17x10 TN	23,25	6	17	10	
NAO 8x19x10 TN	*	8	19	10	
NAO 9x22x12 TN	18,30	9	22	12	
NAO 10x22x13	*	10	22	13	
NAO 10x22x20	*	10	22	20	
NAO 10x26x12	*	10	26	12	
NAO 12x24x13	18,69	12	24	13	
NAO 12x24x20	*	12	24	20	
NAO 12x28x12	28,65	12	28	12	
NAO 12x30x17	*	12	30	17	
NAO 15x28x13	30,95	15	28	13	
NAO 15x32x12	37,25	15	32	12	
NAO 16x24x13	*	16	24	13	
NAO 17x30x13	44,55	17	30	13	
NAO 17x35x16	40,55	17	35	16	
NAO 20x35x17	39,90	20	35	17	
NAO 20x35x26	*	20	35	26	
NAO 20x37x16	88,20	20	37	16	
NAO 20x37x32	*	20	37	32	
NAO 25x40x17	35,40	25	40	17	
NAO 25x40x26	*	25	40	26	
NAO 25x42x16	49,90	25	42	16	
NAO 25x42x32 □	109,50	25	42	32	
NAO 29x42x13	36,05	29	42	13	
NAO 30x42x16	*	30	42	16	
NAO 30x45x13	*	30	45	13	
NAO 30x45x17	80,20	30	45	17	
NAO 30x45x26 □	62,70	30	45	26	
NAO 30x47x16	56,80	30	47	16	
NAO 30x47x18	76,30	30	47	18	
NAO 30x52x18	*	30	52	18	
NAO 35x50x17	36,25	35	50	17	

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = *Plastic cage; temperature allowed: 80°C (continuous working)*

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
NAO 35x50x34	*	35	50	34	
NAO 35x55x20	45,10	35	55	20	
NAO 35x57x20,5 ♦	*	35	57	20,5	
NAO 40x55x17	41,60	40	55	17	
NAO 40x62x40	*	40	62	40	
NAO 40x65x20	*	40	65	20	
NAO 45x62x20	*	45	62	20	
NAO 45x72x20	*	45	72	20	
NAO 45x72x40	*	45	72	40	
NAO 50x68x20	80,90	50	68	20	
NAO 50x78x20	*	50	78	20	
NAO 70x100x30	200,00	70	100	30	
NAO 75x105x25	*	75	105	25	
NAO 80x110x30	416,50	80	110	30	
NAO 90x120x30	432,50	90	120	30	

□ NAO: A due corone, con gola e foro di lubrificazione  
*Double row, with groove and lubrication hole*

♦: Larghezza anello esterno: 20 mm  
*Width of outer ring: 20 mm*

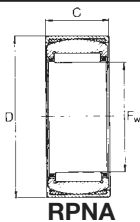
\* Disponibile su richiesta  
*Available under request*

# Cuscinetti orientabili a rullini, senza e con anello interno

## Aligning needle roller bearings with or without inner ring

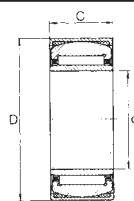


Equivalente INA *Equivalent* = RPNA



**RPNA**

Equivalente INA *Equivalent* = PNA



**PNA**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
RPNA 15/28	31,05	15	28	12	
RPNA 18/32	34,20	18	32	16	
RPNA 20/35	37,50	20	35	16	
RPNA 25/42	43,10	25	42	20	
RPNA 28/44	90,90	28	44	20	
RPNA 30/47	47,45	30	47	20	
RPNA 35/52	50,40	35	52	20	
RPNA 40/55	56,40	40	55	20	
RPNA 45/62	60,30	45	62	20	

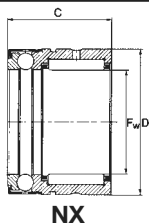
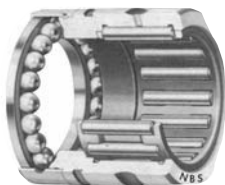
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	C	
PNA 12/28	36,45	12	28	12	
PNA 15/32	39,90	15	32	16	
PNA 17/35	43,85	17	35	16	
PNA 20/42	50,70	20	42	20	
PNA 22/44	107,50	22	44	20	
PNA 25/47	56,40	25	47	20	
PNA 30/52	59,50	30	52	20	
PNA 35/55	67,60	35	55	20	
PNA 40/62	72,90	40	62	20	



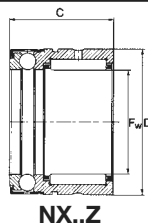
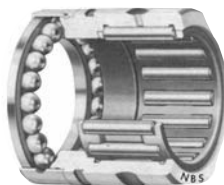
# Cuscinetti combinati radiali a rullini ed assiali a sfere senza anello interno

## Combined needle roller/axial ball bearings without inner ring

Equivalente INA *Equivalent* = NX



Equivalente INA *Equivalent* = NX..Z



Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
NX 7 TN	35,00	7	14	18	
NX 10	47,60	10	19	18	
NX 12	39,10	12	21	18	
NX 15	40,45	15	24	28	
NX 17	63,70	17	26	28	
NX 20	49,60	20	30	28	
NX 25	57,10	25	37	30	
NX 30	73,60	30	42	30	
NX 35	84,80	35	47	30	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
NX 7 Z TN	33,15	7	14	18	
NX 10 Z	35,95	10	19	18	
NX 12 Z	37,25	12	21	18	
NX 15 Z	42,40	15	24	28	
NX 17 Z	60,60	17	26	28	
NX 20 Z	47,35	20	30	28	
NX 25 Z	55,20	25	37	30	
NX 30 Z	71,60	30	42	30	
NX 35 Z	82,90	35	47	30	

NX: Con lubrificazione ad olio  
*For oil lubrication*

NX..Z: Con lubrificazione a grasso  
*For grease lubrication*

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C  
(per funzionamento continuo)

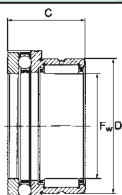
TN = *Plastic cage; temperature allowed: 80°C (continuous working)*

# Cuscinetti combinati a rullini ed assiali a sfere, senza anello interno, senza e con calotta di chiusura

## Needle roller/axial ball bearings, without inner ring, with or without retaining cap

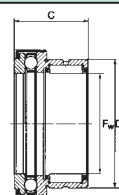


Equivalente INA *Equivalent* = NKX



**NKX**

Equivalente INA *Equivalent* = NKX..Z



**NKX..Z**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
NKX 10 TN	40,05	10	19	23	
NKX 12	41,10	12	21	23	
NKX 15	42,60	15	24	23	
NKX 17	44,70	17	26	25	
NKX 20	52,20	20	30	30	
NKX 25	60,10	25	37	30	
NKX 30	77,00	30	42	30	
NKX 35	90,90	35	47	30	
NKX 40	*	40	52	32	
NKX 45	115,00	45	58	32	
NKX 50	126,00	50	62	35	
NKX 60	178,50	60	72	40	
NKX 70	219,50	70	85	40	

NKX: Senza calotta  
*Without retaining cap*

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
NKX 10 Z TN	43,50	10	19	23	
NKX 12 Z	45,35	12	21	23	
NKX 15 Z	46,40	15	24	23	
NKX 17 Z	49,05	17	26	25	
NKX 20 Z	57,10	20	30	30	
NKX 25 Z	64,80	25	37	30	
NKX 30 Z	82,90	30	42	30	
NKX 35 Z	96,80	35	47	30	
NKX 40 Z	105,50	40	52	32	
NKX 45 Z	122,00	45	58	32	
NKX 50 Z	132,50	50	62	35	
NKX 60 Z	188,00	60	72	40	
NKX 70 Z	232,00	70	85	40	

NKX..Z: Con calotta  
*With retaining cap*

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C  
(per funzionamento continuo)

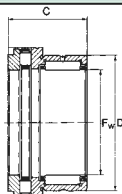
TN = *Plastic cage; temperature allowed: 80°C (continuous working)*

\* Disponibile su richiesta  
*Available under request*



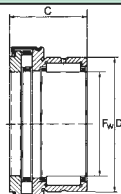
Cuscinetti combinati radiali a rullini ed assiali a rulli cilindrici, senza anello interno, senza e con calotta di chiusura  
*Needle roller/axial cylindrical roller bearings, without inner ring, with or without retaining cap*

Equivalente INA *Equivalent* = NKXR



**NKXR**

Equivalente INA *Equivalent* = NKXR..Z



**NKXR..Z**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
NKXR 15	60,10	15	24	23	
NKXR 17	63,40	17	26	25	
NKXR 20	79,50	20	30	30	
NKXR 25	86,90	25	37	30	
NKXR 30	97,50	30	42	30	
NKXR 35	120,00	35	47	30	
NKXR 40	137,50	40	52	32	
NKXR 45	162,50	45	58	32	
NKXR 50	181,50	50	62	35	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
NKXR 15 Z	63,50	15	24	23	
NKXR 17 Z	67,60	17	26	25	
NKXR 20 Z	84,80	20	30	30	
NKXR 25 Z	91,50	25	37	30	
NKXR 30 Z	103,50	30	42	30	
NKXR 35 Z	125,50	35	47	30	
NKXR 40 Z	145,00	40	52	32	
NKXR 45 Z	165,50	45	58	32	
NKXR 50 Z	188,00	50	62	35	

NKXR: Senza calotta  
*Without retaining cap*

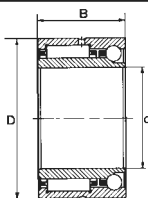
NKXR..Z: Con calotta  
*With retaining cap*

# Cuscinetti combinati radiali a rullini a contatto obliquo a sfera (monodirezionali e bidirezionali)

## Needle roller/angular contact ball bearings (single or double direction)

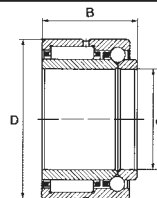


Equivalente INA *Equivalent* = NKIA



**NKIA**

Equivalente INA *Equivalent* = NKIB



**NKIB**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
NKIA 5901	32,70	12	24	16	
NKIA 5902	34,90	15	28	18	
NKIA 5903	37,80	17	30	18	
NKIA 5904	42,00	20	37	23	
NKIA 59/22	92,10	22	39	23	
NKIA 5905	50,30	25	42	23	
NKIA 5906	56,60	30	47	23	
NKIA 5907	65,40	35	55	27	
NKIA 5908	77,50	40	62	30	
NKIA 5909	101,00	45	68	30	
NKIA 5910	114,00	50	72	30	
NKIA 5911	195,50	55	80	34	
NKIA 5912	159,50	60	85	34	
NKIA 5913	195,50	65	90	34	
NKIA 5914	236,50	70	100	40	

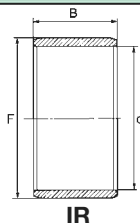
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
NKIB 5901	40,70	12	24	17,5	
NKIB 5902	43,50	15	28	20	
NKIB 5903	46,95	17	30	20	
NKIB 5904	52,40	20	37	25	
NKIB 59/22	57,40	22	39	25	
NKIB 5905	62,00	25	42	25	
NKIB 5906	70,90	30	47	25	
NKIB 5907	82,90	35	55	30	
NKIB 5908	94,10	40	62	34	
NKIB 5909	122,50	45	68	34	
NKIB 5910	137,50	50	72	34	
NKIB 5911	164,50	55	80	38	
NKIB 5912	199,50	60	85	38	
NKIB 5913	239,50	65	90	38	
NKIB 5914	273,50	70	100	45	



# Anelli interni

## Inner rings

Equivalente INA *Equivalent = IR*



IR

Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		d	F	B				d	F	B	
IR 5x8x12	6,48	5	8	12		IR 12x16x13	6,59	12	16	13	
IR 5x8x16	7,04	5	8	16		IR 12x16x14 ■	7,51	12	16	14	
IR 6x9x8	*	6	9	8		IR 12x16x16	6,59	12	16	16	
IR 6x9x12	6,46	6	9	12		IR 12x16x20	6,59	12	16	20	
IR 6x9x16	7,04	6	9	16		IR 12x16x22	7,84	12	16	22	
IR 6x10x10 □	7,20	6	10	10		IR 12x17x16	*	12	17	16	
IR 6x10x12 ■	7,43	6	10	12		IR 14x17x17	7,15	14	17	17	
IR 7x10x10,5	5,87	7	10	10,5		IR 15x18x14,8	*	15	18	14,8	
IR 7x10x12	6,41	7	10	12		IR 15x18x16	6,59	15	18	16	
IR 7x10x16	7,05	7	10	16		IR 15x18x16,5	6,59	15	18	16,5	
IR 8x12x10 □	6,67	8	12	10		IR 15x19x16	6,59	15	19	16	
IR 8x12x10,5	5,87	8	12	10,5		IR 15x19x20	7,15	15	19	20	
IR 8x12x12 ■	6,84	8	12	12		IR 15x20x12 □	7,71	15	20	12	
IR 8x12x12,5	5,87	8	12	12,5		IR 15x20x13	7,15	15	20	13	
IR 9x12x12	4,95	9	12	12		IR 15x20x14 ■	7,84	15	20	14	
IR 9x12x16	6,25	9	12	16		IR 15x20x16	*	15	20	16	
IR 10x13x12,5	5,34	10	13	12,5		IR 15x20x23	9,51	15	20	23	
IR 10x14x11	*	10	14	11		IR 15x20x26	*	15	20	26	
IR 10x14x12 □	6,96	10	14	12		IR 16x20x9	*	16	20	9	
IR 10x14x13	6,25	10	14	13		IR 17x20x16	6,77	17	20	16	
IR 10x14x14 ■	7,15	10	14	14		IR 17x20x16,5	6,77	17	20	16,5	
IR 10x14x16	6,25	10	14	16		IR 17x20x20	7,51	17	20	20	
IR 10x14x20	6,59	10	14	20		IR 17x20x20,5	7,51	17	20	20,5	
IR 10x15x16	*	10	15	16		IR 17x20x30,5	9,93	17	20	30,5	
IR 12x15x12	5,92	12	15	12		IR 17x21x16	10,74	17	21	16	
IR 12x15x12,5	5,92	12	15	12,5		IR 17x21x20	7,84	17	21	20	
IR 12x15x16	6,25	12	15	16		IR 17x22x13	7,51	17	22	13	
IR 12x15x16,5	6,24	12	15	16,5		IR 17x22x14 ■	16,45	17	22	14	
IR 12x15x22,5	9,03	12	15	22,5		IR 17x22x16	8,54	17	22	16	
IR 12x16x10	*	12	16	10		IR 17x22x20	*	17	22	20	
IR 12x16x11	*	12	16	11		IR 17x22x23	*	17	22	23	
IR 12x16x12 □	7,34	12	16	12		IR 17x22x32	*	17	22	32	

□ Con foro di lubrificazione  
*With lubrication hole*

\* Disponibile su richiesta  
*Available under request*

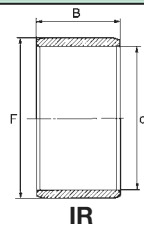
■ Con foro di lubrificazione, senza smusso laterale sul diametro esterno  
*With lubrication hole, without lead chamfer on outside diameter*

# Anelli interni

## Inner rings



Equivalente INA Equivalent = IR



IR

Sigla Designation	€	Dimensioni mm			Q.tà min. Q.ty min.	Sigla Designation	€	Dimensioni mm			Q.tà min. Q.ty min.
		d	F	B				d	F	B	
IR 17x24x20	11,94	17	24	20		IR 28x32x20	9,07	28	32	20	
IR 20x24x16	7,05	20	24	16		IR 28x32x30	14,70	28	32	30	
IR 20x24x20	*	20	24	20		IR 29x32x13	11,99	29	32	13	
IR 20x25x16 □	8,40	20	25	16		IR 30x35x13	8,75	30	35	13	
IR 20x25x17	7,84	20	25	17		IR 30x35x16	9,21	30	35	16	
IR 20x25x18 ■	21,90	20	25	18		IR 30x35x16,5	*	30	35	16,5	
IR 20x25x20	7,84	20	25	20		IR 30x35x17	9,43	30	35	17	
IR 20x25x20,5	7,84	20	25	20,5		IR 30x35x18 ■	11,15	30	35	18	
IR 20x25x26,5	10,45	20	25	26,5		IR 30x35x20	9,94	30	35	20	
IR 20x25x30	*	20	25	30		IR 30x35x20,5	9,94	30	35	20,5	
IR 20x25x32	*	20	25	32		IR 30x35x26	11,96	30	35	26	
IR 20x25x38,5	14,46	20	25	38,5		IR 30x35x27,5	*	30	35	27,5	
IR 20x28x20	9,28	20	28	20		IR 30x35x30	14,70	30	35	30	
IR 22x26x16	7,48	22	26	16		IR 30x37x18	15,58	30	37	18	
IR 22x26x20	8,34	22	26	20		IR 30x37x22	15,31	30	37	22	
IR 22x28x17	8,34	22	28	17		IR 30x38x20 □	17,45	30	38	20	
IR 22x28x20	12,50	22	28	20		IR 32x37x20	13,47	32	37	20	
IR 22x28x20,5	8,34	22	28	20,5		IR 32x37x30	15,58	32	37	30	
IR 22x28x30	13,47	22	28	30		IR 32x40x20	11,32	32	40	20	
IR 25x29x20	8,75	25	29	20		IR 32x40x36	17,45	32	40	36	
IR 25x29x30	13,47	25	29	30		IR 33x37x13	*	33	37	13	
IR 25x30x16 □	9,28	25	30	16		IR 34x42x20 □	*	34	42	20	
IR 25x30x17	8,75	25	30	17		IR 35x40x12,5	*	35	40	12,5	
IR 25x30x18 ■	9,41	25	30	18		IR 35x40x17	10,80	35	40	17	
IR 25x30x20	8,75	25	30	20		IR 35x40x20	11,32	35	40	20	
IR 25x30x20,5	8,75	25	30	20,5		IR 35x40x20,5	11,32	35	40	20,5	
IR 25x30x26,5	11,16	25	30	26,5		IR 35x40x30	16,50	35	40	30	
IR 25x30x30	13,79	25	30	30		IR 35x40x40	*	35	40	40	
IR 25x30x32	13,98	25	30	32		IR 35x42x20 □	12,41	35	42	20	
IR 25x30x38,5	15,31	25	30	38,5		IR 35x42x20,5	14,70	35	42	20,5	
IR 25x32x22	12,25	25	32	22		IR 35x42x21 ■	18,56	35	42	21	
IR 28x32x17	9,07	28	32	17		IR 35x42x23 ■	16,32	35	42	23	

□ Con foro di lubrificazione  
With lubrication hole

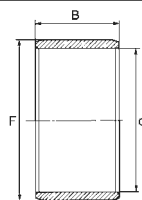
\* Disponibile su richiesta  
Available under request

■ Con foro di lubrificazione, senza smusso laterale sul diametro esterno  
With lubrication hole, without lead chamfer on outside diameter



# Anelli interni Inner rings

Equivalente INA *Equivalent* = IR



IR

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	F	B				d	F	B	
IR 35x42x36	19,42	35	42	36		IR 50x58x22	*	50	58	22	
IR 35x43x22	16,50	35	43	22		IR 50x58x23 ■	28,45	50	58	23	
IR 38x43x20	15,50	38	43	20		IR 50x58x40	29,85	50	58	40	
IR 38x43x30	*	38	43	30		IR 50x60x20 □	20,55	50	60	20	
IR 40x45x10	*	40	45	10		IR 50x60x25	21,30	50	60	25	
IR 40x45x17	11,90	40	45	17		IR 50x60x28	22,20	50	60	28	
IR 40x45x20	12,45	40	45	20		IR 55x60x12	*	55	60	12	
IR 40x45x20,5	12,45	40	45	20,5		IR 55x60x25	19,69	55	60	25	
IR 40x45x25	*	40	45	25		IR 55x60x35	23,40	55	60	35	
IR 40x45x30	17,77	40	45	30		IR 55x63x25	19,69	55	63	25	
IR 40x45x34	*	40	45	34		IR 55x63x45	33,70	55	63	45	
IR 40x45x40	*	40	45	40		IR 55x65x20	*	55	65	20	
IR 40x47x22	*	40	47	22		IR 55x65x28	28,30	55	65	28	
IR 40x48x22	13,27	40	48	22		IR 60x68x20	*	60	68	20	
IR 40x48x23 ■	21,75	40	48	23		IR 60x68x25	22,90	60	68	25	
IR 40x48x25	*	40	48	25		IR 60x68x35	27,40	60	68	35	
IR 40x48x40	24,10	40	48	40		IR 60x68x45	37,90	60	68	45	
IR 40x50x20 □	18,83	40	50	20		IR 60x70x25	28,30	60	70	25	
IR 40x50x22	18,45	40	50	22		IR 60x70x28	29,55	60	70	28	
IR 42x47x20	13,65	42	47	20		IR 60x70x60	*	60	70	60	
IR 42x47x30	17,77	42	47	30		IR 65x72x25	28,30	65	72	25	
IR 45x50x25	15,25	45	50	25		IR 65x72x45	44,15	65	72	45	
IR 45x50x25,5	15,25	45	50	25,5		IR 65x73x25	31,30	65	73	25	
IR 45x50x35	19,02	45	50	35		IR 65x73x35	38,85	65	73	35	
IR 45x52x22	15,58	45	52	22		IR 65x75x12	*	65	75	12	
IR 45x52x23 ■	26,05	45	52	23		IR 65x75x28	30,10	65	75	28	
IR 45x52x40	27,40	45	52	40		IR 65x80x140	*	65	80	140	
IR 45x55x20 □	24,95	45	55	20		IR 70x60x30	*	70	60	30	
IR 45x55x22	19,36	45	55	22		IR 70x80x25	32,75	70	80	25	
IR 50x55x20 □	16,37	50	55	20		IR 70x80x30	37,00	70	80	30	
IR 50x55x25	17,77	50	55	25		IR 70x80x35	39,00	70	80	35	
IR 50x55x35	21,70	50	55	35		IR 70x80x54	63,90	70	80	54	

□ Con foro di lubrificazione  
*With lubrication hole*

\* Disponibile su richiesta  
*Available under request*

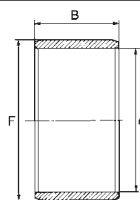
■ Con foro di lubrificazione, senza smusso laterale sul diametro esterno  
*With lubrication hole, without lead chamfer on outside diameter*

# Anelli interni

## Inner rings



Equivalente INA *Equivalent* = IR



IR

Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		d	F	B				d	F	B	
IR 70x80x56	65,50	70	80	56		IR 130x145x35	104,50	130	145	35	
IR 70x80x60	*	70	80	60		IR 130x150x50	154,50	130	150	50	
IR 75x85x25	37,00	75	85	25		IR 140x155x35	123,50	140	155	35	
IR 75x85x30	45,35	75	85	30		IR 140x160x50	162,50	140	160	50	
IR 75x85x35	46,95	75	85	35		IR 150x165x40	150,00	150	165	40	
IR 75x85x54	67,60	75	85	54		IR 160x175x40	162,50	160	175	40	
IR 80x90x25	40,85	80	90	25		IR 170x185x45	181,50	170	185	45	
IR 80x90x30	49,50	80	90	30		IR 180x195x45	201,50	180	195	45	
IR 80x90x35	51,20	80	90	35		IR 190x210x50	264,00	190	210	50	
IR 80x90x54	71,60	80	90	54		IR 200x220x50	339,50	200	220	50	
IR 85x95x26	46,95	85	95	26		IR 220x240x50	473,50	220	240	50	
IR 85x95x36	57,40	85	95	36		IR 240x265x60	582,00	240	265	60	
IR 85x100x35	61,60	85	100	35		IR 260x285x60	674,00	260	285	60	
IR 85x100x63	94,10	85	100	63		IR 280x305x69	759,00	280	305	69	
IR 90x100x26	57,40	90	100	26		IR 300x330x80	1.573,00	300	330	80	
IR 90x100x30	60,70	90	100	30		IR 320x350x80	1.839,00	320	350	80	
IR 90x100x36	65,40	90	100	36		IR 340x370x80	2.904,00	340	370	80	
IR 90x105x35	65,40	90	105	35		IR 360x390x80	2.471,00	360	390	80	
IR 90x105x63	103,50	90	105	63		IR 380x415x100	4.420,00	380	415	100	
IR 95x105x26	61,60	95	105	26							
IR 95x105x36	78,20	95	105	36							
IR 95x110x35	78,20	95	110	35							
IR 95x110x63	111,50	95	110	63							
IR 100x110x30	78,20	100	110	30							
IR 100x110x40	94,10	100	110	40							
IR 100x115x40	97,50	100	115	40							
IR 105x123x140	*	105	123	140							
IR 110x120x30	84,20	110	120	30							
IR 110x125x40	105,50	110	125	40							
IR 120x130x30	88,20	120	130	30							
IR 120x135x35	*	120	135	35							
IR 120x135x45	120,00	120	135	45							

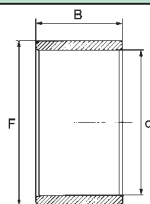
\* Disponibile su richiesta  
Available under request



# Anelli interni rettificati

## Inner rings ground

Equivalente INA *Equivalent* = LR



LR

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	F	B				d	F	B	
LR 6x9x8	*	6	9	8		LR 30x35x16,5	8,19	30	35	16,5	
LR 7x10x10,5	5,03	7	10	10,5		LR 30x35x20,5	8,77	30	35	20,5	
LR 8x12x10,5	4,71	8	12	10,5		LR 30x35x27,5	*	30	35	27,5	
LR 8x12x12,5	8,26	8	12	12,5		LR 35x40x12,5	8,93	35	40	12,5	
LR 10x13x12,5	4,32	10	13	12,5		LR 35x40x16,5	9,31	35	40	16,5	
LR 10x14x11	*	10	14	11		LR 35x40x20,5	9,88	35	40	20,5	
LR 12x15x12,5	4,96	12	15	12,5		LR 40x45x16,5	10,51	40	45	16,5	
LR 12x15x16,5	6,76	12	15	16,5		LR 40x45x20,5	11,26	40	45	20,5	
LR 12x15x22,5	8,14	12	15	22,5		LR 45x50x20,5	12,27	45	50	20,5	
LR 12x16x11	*	12	16	11		LR 45x50x25,5	16,70	45	50	25,5	
LR 12x17x16	*	12	17	16		LR 50x55x20,5	13,79	50	55	20,5	
LR 15x18x12,5	5,38	15	18	12,5							
LR 15x18x16,5	8,66	15	18	16,5							
LR 15x20x26	*	15	20	26							
LR 17x20x16,5	6,00	17	20	16,5							
LR 17x20x20,5	6,63	17	20	20,5							
LR 17x20x30,5	8,59	17	20	30,5							
LR 17x22x32	*	17	22	32							
LR 20x25x12,5	5,96	20	25	12,5							
LR 20x25x16,5	6,22	20	25	16,5							
LR 20x25x20,5	6,83	20	25	20,5							
LR 20x25x26,5	8,40	20	25	26,5							
LR 20x25x32	*	20	25	32							
LR 20x25x38,5	23,95	20	25	38,5							
LR 22x28x20,5	10,60	22	28	20,5							
LR 25x30x12,5	6,69	25	30	12,5							
LR 25x30x16,5	7,05	25	30	16,5							
LR 25x30x20,5	7,61	25	30	20,5							
LR 25x30x24,8	*	25	30	24,8							
LR 25x30x26,5	9,15	25	30	26,5							
LR 25x30x38,5	12,81	25	30	38,5							
LR 30x35x12,5	7,84	30	35	12,5							

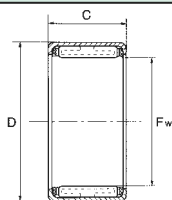
\* Disponibile su richiesta  
Available under request

# Ruote libere ad astuccio senza supporto con molla in acciaio

## Drawn cup roller clutches, with steel springs

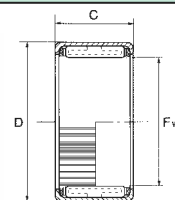


Equivalente INA *Equivalent* = HF



**HF**

Equivalente INA *Equivalent* = HF.-R



**HFZ** (con zigrinatura / with knurling)

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C				Fw	D	C	
HF 0612	*	6	10	12							
HFZ 0612 □	*	6	10	12							
HF 0812	*	8	12	12							
HFZ 0812 □	*	8	12	12							
HF 1012	*	10	14	12							
HF 1216	*	12	18	16							
HF 1416	*	14	20	16							
HF 1616	*	16	22	16							
HF 1816	*	18	24	16							
HF 2016	*	20	26	16							
HF 2520	*	25	32	20							
HF 3020	*	30	37	20							
HF 3520	*	35	42	20							

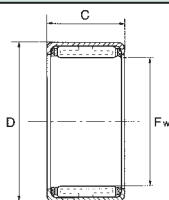
\* Disponibile su richiesta  
*Available under request*



# Ruote libere ad astucco senza supporto con molla in plastica

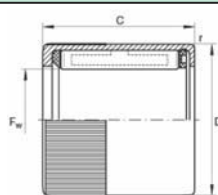
## Drawn cup roller clutches, with plastic springs

Equivalente INA *Equivalent* = HF..KF



**HF..KF**

Equivalente INA *Equivalent* = HF..KFZ



**HF..KFZ** (con zigrinatura - *with knurling*)

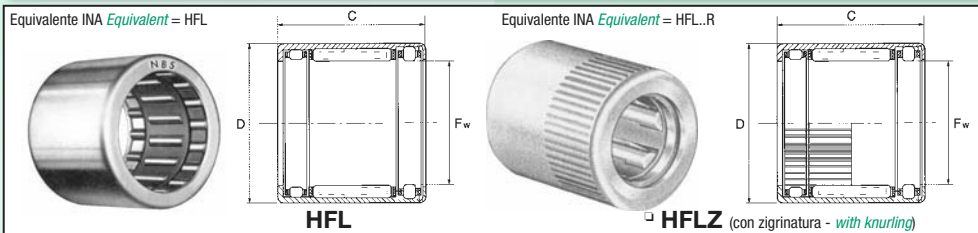
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
HF 0306 KF	*	3	6,5	6	
HF 0406 KF	*	4	8	6	
HF 0612 KF	*	6	10	12	
HF 0812 KF	*	8	12	12	
HF 1012 KF	*	10	14	12	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
HF 0306 KFZ	*	3	6,5	6	
HF 0406 KFZ	*	4	8	6	
HF 0612 KFZ	*	6	10	12	
HF 0812 KFZ	*	8	12	12	

\* Disponibile su richiesta  
*Available under request*

# Ruote libere ad astucco con supporto con molla in acciaio

## Drawn cup roller clutches, with bearing assembly, with steel springs



Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>	Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>	Q.tà min. <i>Q.ty min.</i>
		Fw D C					
HFL 0615	*	6 10 15					
HFLZ 0615 □	*	6 10 15					
HFL 0806	*	8 12 6					
HFL 0822	*	8 12 22					
HFLZ 0822 □	*	8 12 22					
HFL 1022	*	10 14 22					
HFL 1226	*	12 18 26					
HFL 1426	*	14 20 26					
HFL 1626	*	16 22 26					
HFL 1826	*	18 24 26					
HFL 2026	*	20 26 26					
HFL 2530	*	25 32 30					
HFL 3030	*	30 37 30					
HFL 3530	*	35 42 30					

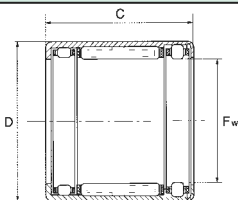
\* Disponibile su richiesta  
*Available under request*



# Ruote libere ad astuccio con supporto con molla in plastica

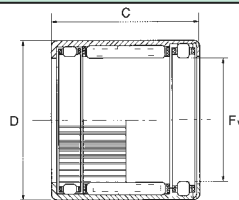
## Drawn cup roller clutches, with bearing assembly, with plastic springs

Equivalente INA *Equivalent* = HFL..KF



**HFL..KF**

Equivalente INA *Equivalent* = HFL..KFZ



**HFL..KFZ** (con zigrinatura - *with knurling*)

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
HFL 0308 KF	*	3	6,5	8	
HFL 0408 KF	*	4	8	8	
HFL 0615 KF	*	6	10	15	
HFL 0822 KF	*	8	12	22	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
HFL 0308 KFZ	*	3	6,5	8	
HFL 0408 KFZ	*	4	8	8	
HFL 0606 KFZ	*	6	10	6	
HFL 0615 KFZ	*	6	10	15	
HFL 0806 KFZ	*	8	12	6	
HFL 0822 KFZ	*	8	12	22	

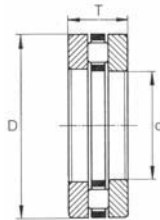
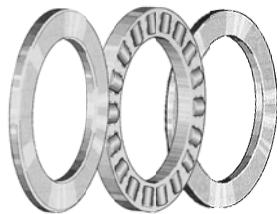
\* Disponibile su richiesta  
*Available under request*

# Cuscinetti assiali a rulli cilindrici ad una corona, completo di K, GS, WS

## Axial cylindrical roller bearings, K, GS, WS included



Equivalente INA *Equivalent* = 811



811

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	T				d	D	T	
81102 TN	33,10	15	28	9		81160 M	4.677,00	300	380	62	
81103 TN	33,10	17	30	9		81164 M	5.000,00	320	400	63	
81104 TN	36,35	20	35	10							
81105 TN	39,70	25	42	11							
81106 TN	41,75	30	47	11							
81107 TN	47,65	35	52	12							
81108 TN	52,20	40	60	13							
81109 TN	57,40	45	65	14							
81110 TN	63,10	50	70	14							
81111 TN	82,10	55	78	16							
81112 TN	88,90	60	85	17							
81113 TN	99,50	65	90	18							
81114 TN	105,50	70	95	18							
81115 TN	119,00	75	100	19							
81116 TN	129,00	80	105	19							
81117 TN	153,00	85	110	19							
81118 TN	173,00	90	120	22							
81120 TN	201,50	100	135	25							
81122 TN	318,50	110	145	25							
81124 TN	388,50	120	155	25							
81126 TN	444,50	130	170	30							
81128 TN	552,00	140	180	31							
81130 TN	630,00	150	190	31							
81132 TN	797,00	160	200	31							
81134 TN	947,00	170	215	34							
81136 M	1.090,00	180	225	34							
81138 M	1.253,00	190	240	37							
81140 M	1.361,00	200	250	37							
81144 M	1.766,00	220	270	37							
81148 M	2.103,00	240	300	45							
81152 M	2.489,00	260	320	45							
81156 M	3.173,00	280	350	53							

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

M = Gabbia in ottone

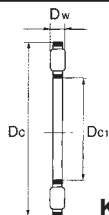
M = Brass cage



# Gabbie assiali a rulli cilindrici ad una corona

## Axial cylindrical roller and cage assembly

Equivalente INA *Equivalent* = K 811



**K 811**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		D <sub>c1</sub>	D <sub>c</sub>	D <sub>w</sub>				D <sub>c1</sub>	D <sub>c</sub>	D <sub>w</sub>	
K 81102 TN	15,88	15	28	3,5		K 81160 M	1.873,00	300	380	25	
K 81103 TN	15,88	17	30	3,5		K 81164 M	2.060,00	320	400	25	
K 81104 TN	17,23	20	35	4,5							
K 81105 TN	18,63	25	42	5							
K 81106 TN	19,85	30	47	5							
K 81107 TN	21,85	35	52	5							
K 81108 TN	25,85	40	60	6							
K 81109 TN	30,05	45	65	6							
K 81110 TN	32,65	50	70	6							
K 81111 TN	45,20	55	78	6							
K 81112 TN	48,60	60	85	7,5							
K 81113 TN	49,25	65	90	7,5							
K 81114 TN	51,30	70	95	7,5							
K 81115 TN	56,30	75	100	7,5							
K 81116 TN	63,80	80	105	7,5							
K 81117 TN	71,30	85	110	7,5							
K 81118 TN	74,00	90	120	9							
K 81120 TN	90,90	100	135	11							
K 81122 TN	171,50	110	145	11							
K 81124 TN	206,00	120	155	11							
K 81126 TN	208,00	130	170	12							
K 81128 TN	238,00	140	180	12							
K 81130 TN	270,00	150	190	12							
K 81132 TN	406,00	160	200	12							
K 81134 TN	441,50	170	215	14							
K 81136 M	494,00	180	225	14							
K 81138 M	554,00	190	240	15							
K 81140 M	580,00	200	250	15							
K 81144 M	719,00	220	270	15							
K 81148 M	839,00	240	300	18							
K 81152 M	1.004,00	260	320	18							
K 81156 M	1.244,00	280	350	22							

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C  
(per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

M = Gabbia in ottone

M = Brass cage

# Ralle per alloggiamento

## Housing locating washers



Equivalente INA *Equivalent* = GS 811



**GS 811**

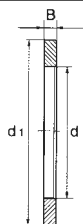
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		D <sub>1</sub>	D	B				D <sub>1</sub>	D	B	
GS 81102	8,66	16	28	2,75		GS 81160	1.402,00	304	380	18,5	
GS 81103	8,66	18	30	2,75		GS 81164	1.471,00	324	400	19	
GS 81104	9,50	21	35	2,75							
GS 81105	10,54	26	42	3							
GS 81106	10,95	32	47	3							
GS 81107	12,88	37	52	3,5							
GS 81108	13,10	42	60	3,5							
GS 81109	13,60	47	65	4							
GS 81110	15,27	52	70	4							
GS 81111	18,37	57	78	5							
GS 81112	20,20	62	85	4,75							
GS 81113	24,90	67	90	5,25							
GS 81114	27,60	72	95	5,25							
GS 81115	31,65	77	100	5,75							
GS 81116	32,70	82	105	5,75							
GS 81117	40,60	87	110	5,75							
GS 81118	49,40	92	120	6,5							
GS 81120	54,90	102	135	7							
GS 81122	73,40	112	145	7							
GS 81124	90,90	122	155	7							
GS 81126	118,00	132	170	9							
GS 81128	156,50	142	180	9,5							
GS 81130	180,00	152	190	9,5							
GS 81132	194,00	162	200	9,5							
GS 81134	251,50	172	215	10							
GS 81136	297,00	183	225	10							
GS 81138	348,50	193	240	11							
GS 81140	391,50	203	250	11							
GS 81144	524,00	223	270	11							
GS 81148	633,00	243	300	13,5							
GS 81152	742,00	263	320	13,5							
GS 81156	965,00	283	350	15,5							



# Ralle per albero

## Shaft locating washers

Equivalente INA *Equivalent* = WS 811



**WS 811**

Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		d	d <sub>1</sub>	B	
WS 81102	8,66	15	28	2,75	
WS 81103	8,66	17	30	2,75	
WS 81104	9,50	20	35	2,75	
WS 81105	10,54	25	42	3	
WS 81106	10,95	30	47	3	
WS 81107	12,88	35	52	3,5	
WS 81108	13,10	40	60	3,5	
WS 81109	13,60	45	65	4	
WS 81110	15,27	50	70	4	
WS 81111	18,37	55	78	5	
WS 81112	20,20	60	85	4,75	
WS 81113	24,90	65	90	5,25	
WS 81114	27,60	70	95	5,25	
WS 81115	31,65	75	100	5,75	
WS 81116	32,70	80	105	5,75	
WS 81117	40,60	85	110	5,75	
WS 81118	49,40	90	120	6,5	
WS 81120	54,90	100	135	7	
WS 81122	73,40	110	145	7	
WS 81124	90,90	120	155	7	
WS 81126	118,00	130	170	9	
WS 81128	156,50	140	178	9,5	
WS 81130	180,00	150	188	9,5	
WS 81132	194,00	160	198	9,5	
WS 81134	251,50	170	213	10	
WS 81136	297,00	180	222	10	
WS 81138	348,50	190	237	11	
WS 81140	391,50	200	250	11	
WS 81144	524,00	220	267	11	
WS 81148	633,00	240	297	13,5	
WS 81152	742,00	260	317	13,5	
WS 81156	965,00	280	347	15,5	

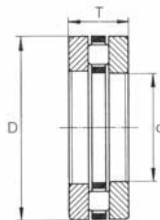
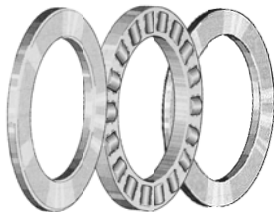
Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		d	d <sub>1</sub>	B	
WS 81160	1.402,00	300	376	18,5	
WS 81164	1.471,00	320	396	19	

# Cuscinetti assiali a rulli cilindrici ad una corona, completo di K, GS, WS

## *Axial cylindrical roller bearings, K, GS, WS included*



Equivalente INA *Equivalent* = 812



812

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	T				<i>Dimensions mm</i>	<i>Dimensions mm</i>	<i>Dimensions mm</i>	
81206 TN	59,20	30	52	16							
81207 TN	70,00	35	62	18							
81208 TN	74,70	40	68	19							
81209 TN	86,20	45	73	20							
81210 TN	99,50	50	78	22							
81211 TN	130,50	55	90	25							
81212 TN	139,00	60	95	26							
81213 TN	148,50	65	100	27							
81214 TN	163,00	70	105	27							
81215 TN	177,00	75	110	27							
81216 TN	191,50	80	115	28							
81217 TN	228,00	85	125	31							
81218 TN	258,00	90	135	35							
81220 TN	369,00	100	150	38							
81222 TN	540,00	110	160	38							
81224 TN	661,00	120	170	39							
81226 TN	876,00	130	190	45							
81228 M	1.084,00	140	200	46							
81230 M	1.128,00	150	215	50							
81232 M	1.253,00	160	225	51							
81234 M	1.491,00	170	240	55							
81236 M	1.719,00	180	250	56							
81238 M	2.008,00	190	270	62							
81240 M	2.155,00	200	280	62							
81244 M	2.908,00	220	300	63							
81248 M	4.565,00	240	340	78							
81252 M	5.414,00	260	360	79							
81256 M	6.505,00	280	380	80							
81260 M	7.591,00	300	420	95							

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = *Plastic cage; temperature allowed: 80°C (continuous working)*

M = Gabbia in ottone

M = *Brass cage*

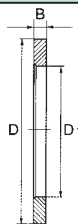


# Ralle per alloggiamento

## Housing locating washers



Equivalente INA Equivalent = GS 812



GS 812

Sigla Designation	€	Dimensioni mm			Q.tà min. Q.ty min.	Sigla Designation	€	Dimensioni mm			Q.tà min. Q.ty min.
		D <sub>1</sub>	D	B				Dimensions mm			
GS 81206	15,08	32	52	4,25							
GS 81207	18,90	37	62	5,25							
GS 81208	18,90	42	68	5							
GS 81209	23,40	47	73	5,5							
GS 81210	28,50	52	78	6,5							
GS 81211	39,60	57	90	7							
GS 81212	42,80	62	95	7,5							
GS 81213	44,85	67	100	8							
GS 81214	47,55	72	105	8							
GS 81215	52,10	77	110	8							
GS 81216	59,20	82	115	8,5							
GS 81217	74,70	88	125	9,5							
GS 81218	80,80	93	135	10,5							
GS 81220	107,50	103	150	11,5							
GS 81222	183,00	113	160	11,5							
GS 81224	184,50	123	170	12							
GS 81226	224,00	133	190	13							
GS 81228	292,00	143	200	13,5							
GS 81230	316,50	153	215	14,5							
GS 81232	354,00	163	225	15							
GS 81234	424,00	173	240	16,5							
GS 81236	495,50	183	250	17							
GS 81238	560,00	194	270	18							
GS 81240	625,00	204	280	18							
GS 81244	843,00	224	300	18,5							
GS 81248	1.373,00	244	340	23							
GS 81252	1.601,00	264	360	23,5							
GS 81256	1.938,00	284	380	24							
GS 81260	2.274,00	304	420	28,5							

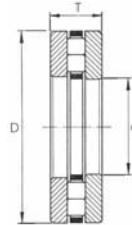
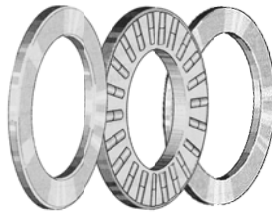


# Cuscinetti assiali a rulli cilindrici a due corone, completo di K, GS, WS

## Axial cylindrical roller bearings, double row, K, GS, WS included



Equivalente INA *Equivalent* = 893



893

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	T							
893 06 TN	127,00	30	60	18							
893 07 TN	145,00	35	68	20							
893 08 TN	162,50	40	78	22							
893 09 TN	182,50	45	85	24							
893 10 TN	217,00	50	95	27							
893 11 TN	273,50	55	105	30							
893 12 TN	290,00	60	110	30							
893 13 TN	317,00	65	115	30							
893 14 TN	394,50	70	125	34							
893 15 TN	716,00	75	135	36							
893 16 TN	790,00	80	140	36							
893 17 M	863,00	85	150	39							
893 18 M	1.481,00	90	155	39							
893 20 M	798,00	100	170	42							
893 22 M	1.177,00	110	190	48							
893 24 M	1.491,00	120	210	54							
893 26 M	2.675,00	130	225	58							
893 28 M	2.295,00	140	240	60							
893 30 M	3.395,00	150	250	60							

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

M = Gabbia in ottone

M = Brass cage

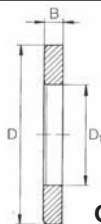


# Ralle per alloggiamento

## Housing locating washers



Equivalente INA Equivalent = GS 893



GS 893

Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.	Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.
		D <sub>1</sub>	D	B				D <sub>1</sub>	D	B	
GS 893 06	47,65	32	60	6,25							
GS 893 07	54,60	37	68	7							
GS 893 08	61,10	42	78	7,5							
GS 893 09	68,70	47	85	8,25							
GS 893 10	80,80	52	95	9,5							
GS 893 11	103,00	57	105	10,5							
GS 893 12	108,50	62	110	10,5							
GS 893 13	118,50	67	115	10,5							
GS 893 14	148,50	72	125	12							
GS 893 15	266,50	77	135	12,5							
GS 893 16	293,00	82	140	12,5							
GS 893 17	278,50	88	150	13,5							
GS 893 18	357,00	93	155	13,5							
GS 893 20	266,50	103	170	14,5							
GS 893 22	379,50	113	190	16,5							
GS 893 24	478,00	123	210	18,5							
GS 893 26	860,00	134	225	20							
GS 893 28	736,00	144	240	20,5							
GS 893 30	1.092,00	154	250	20,5							





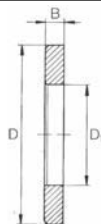


# Ralle per alloggiamento

## Housing locating washers



Equivalente INA *Equivalent* = GS 894



GS 894

Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		<i>D<sub>1</sub></i>	<i>D</i>	<i>B</i>				<i>D<sub>1</sub></i>	<i>D</i>	<i>B</i>	
GS 894 12	228,00	62	130	14							
GS 894 13	255,50	68	140	15							
GS 894 14	270,00	73	150	16							
GS 894 16	322,00	83	170	18							
GS 894 17	513,00	88	180	19,5							
GS 894 18	735,00	93	190	20							
GS 894 20	438,50	103	210	22,5							
GS 894 22	791,00	113	230	24,5							
GS 894 24	616,00	123	250	26							
GS 894 26	1.431,00	134	270	28,5							
GS 894 28	825,00	144	280	28,5							
GS 894 30	1.899,00	154	300	30							
GS 894 32	1.087,00	164	320	31,5							
GS 894 34	1.686,00	174	340	34,5							
GS 894 36	1.962,00	184	360	36,5							
GS 894 38	2.256,00	195	380	38,5							
GS 894 40	2.468,00	205	400	41							
GS 894 44	3.411,00	225	420	41							
GS 894 48	4.852,00	245	440	41							
GS 894 52	5.651,00	265	480	44							
GS 894 56	5.360,00	285	520	48,5							
GS 894 60	6.410,00	305	540	48,5							
GS 894 64	7.581,00	325	580	43,5							

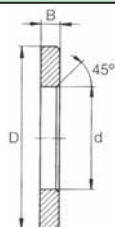


# Ralle assiali

## Axial bearing washers



Equivalente INA *Equivalent* = LS



LS

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B							
LS 0619	5,18	6	19	2,75							
LS 0821	3,57	8	21	2,75							
LS 1024	3,76	10	24	2,75							
LS 1226	3,92	12	26	2,75							
LS 1528	3,92	15	28	2,75							
LS 1730	4,21	17	30	2,75							
LS 2035	4,50	20	35	2,75							
LS 2542	5,62	25	42	3							
LS 3047	6,63	30	47	3							
LS 3552	7,39	35	52	3,5							
LS 4060	7,61	40	60	3,5							
LS 4565	8,60	45	65	4							
LS 5070	9,75	50	70	4							
LS 5578	12,04	55	78	5							
LS 6085	13,72	60	85	4,75							
LS 6590	21,40	65	90	5,25							
LS 7095	24,45	70	95	5,25							
LS 75100	51,50	75	100	5,75							
LS 80105	27,80	80	105	5,75							
LS 85110	37,15	85	110	5,75							
LS 90120	30,60	90	120	6,5							
LS 100135	54,50	100	135	7							
LS 110145	56,40	110	145	7							
LS 120155	60,70	120	155	7							
LS 130170	101,00	130	170	9							
LS 140180	188,50	140	180	9,5							
LS 150190	135,00	150	190	9,5							
LS 160200	180,00	160	200	9,5							

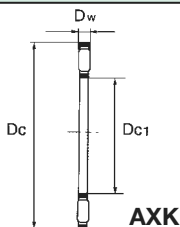


# Gabbie assiali a rullini e ralle assiali

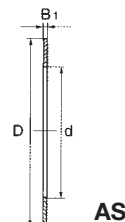
## Axial needle roller and cage assemblies and axial bearings washers



Equivalente INA Equivalent = AXK



Equivalente INA Equivalent = AS



Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.
		Dc1	Dc	Dw	
AXK 0414 TN	3,63	4	14	2	
AXK 0515 TN	3,57	5	15	2	
AXK 0619 TN	3,24	6	19	2	
AXK 0821 TN	3,05	8	21	2	
AXK 1024	2,77	10	24	2	
AXK 1226	2,81	12	26	2	
AXK 1528	2,86	15	28	2	
AXK 1730	2,89	17	30	2	
AXK 2035	3,15	20	35	2	
AXK 2542	3,34	25	42	2	
AXK 3047	3,71	30	47	2	
AXK 3552	4,32	35	52	2	
AXK 4060	4,78	40	60	3	
AXK 4565	5,56	45	65	3	
AXK 5070	6,44	50	70	3	
AXK 5578	7,40	55	78	3	
AXK 6085	8,90	60	85	3	
AXK 6590	11,48	65	90	3	
AXK 7095	15,98	70	95	4	
AXK 75100	19,24	75	100	4	
AXK 80105	22,80	80	105	4	
AXK 85110	26,40	85	110	4	
AXK 90120	30,30	90	120	4	
AXK 100135	34,90	100	135	4	
AXK 110145	49,05	110	145	4	
AXK 120155	59,10	120	155	4	
AXK 130170	79,50	130	170	5	
AXK 140180	96,20	140	180	5	
AXK 150190	114,00	150	190	5	
AXK 160200	137,50	160	200	5	

Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.
		d	D	B1	
AS0414	1,06	4	14	1	
AS0515	0,54	5	15	1	
AS0619	0,58	6	19	1	
AS0821	0,61	8	21	1	
AS1024	0,75	10	24	1	
AS1226	0,75	12	26	1	
AS1528	0,75	15	28	1	
AS1730	0,75	17	30	1	
AS2035	0,75	20	35	1	
AS2542	0,92	25	42	1	
AS3047	1,10	30	47	1	
AS3552	1,22	35	52	1	
AS4060	1,77	40	60	1	
AS4565	1,92	45	65	1	
AS5070	2,20	50	70	1	
AS5578	2,50	55	78	1	
AS6085	2,99	60	85	1	
AS6590	3,28	65	90	1	
AS7095	4,17	70	95	1	
AS75100	5,06	75	100	1	
AS80105	6,03	80	105	1	
AS85110	7,28	85	110	1	
AS90120	8,68	90	120	1	
AS100135	11,06	100	135	1	
AS110145	14,53	110	145	1	
AS120155	17,83	120	155	1	
AS130170	22,35	130	170	1	
AS140180	26,95	140	180	1	
AS150190	32,75	150	190	1	
AS160200	39,90	160	200	1	

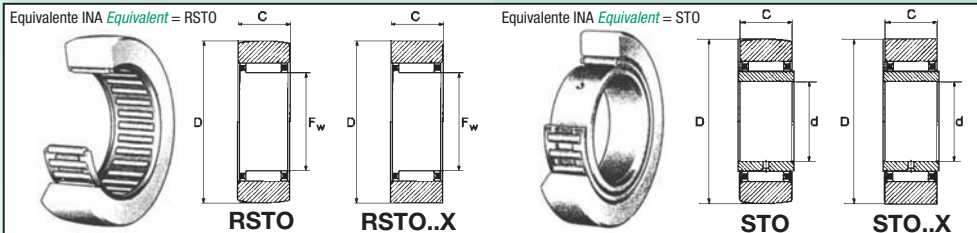
TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)



# Rotelle a rulli senza guida assiale, senza e con anello interno

*Yoke type track rollers without axial guidance for the outer ring, with or without inner ring*



Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.
		Fw	D	C	
RSTO 5 TN	11,92	7	16	7,8	
RSTO 5 X TN	13,11	7	16	7,8	
RSTO 6 TN	14,13	10	19	9,8	
RSTO 6 X TN	15,55	10	19	9,8	
RSTO 8 TN	15,47	12	24	9,8	
RSTO 8 X TN	16,94	12	24	9,8	
RSTO 10	27,65	14	30	11,8	
RSTO 10 X	30,50	14	30	11,8	
RSTO 12	29,35	16	32	11,8	
RSTO 12 X	32,25	16	32	11,8	
RSTO 15	31,70	20	35	11,8	
RSTO 15 X	34,90	20	35	11,8	
RSTO 17	33,95	22	40	15,8	
RSTO 17 X	37,30	22	40	15,8	
RSTO 20	37,30	25	47	15,8	
RSTO 20 X	*	25	47	15,8	
RSTO 25	40,60	30	52	15,8	
RSTO 25 X	*	30	52	15,8	
RSTO 30	45,35	38	62	19,8	
RSTO 30 X	*	38	62	19,8	
RSTO 35	107,50	42	72	19,8	
RSTO 35 X	*	42	72	19,8	
RSTO 40	94,80	50	80	19,8	
RSTO 40 X	*	50	80	19,8	
RSTO 45	152,00	55	85	19,8	
RSTO 45 X	*	55	85	19,8	
RSTO 50	179,00	60	90	19,8	
RSTO 50 X	*	60	90	19,8	

RSTO: Senza anello interno / *Without inner ring*  
 RSTO..X: Anello esterno cilindrico / *Outer cylindrical ring*

Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.
		d	D	B	
STO 6 TN	21,25	6	19	10	
STO 6 X TN	23,40	6	19	10	
STO 8 TN	22,90	8	24	10	
STO 8 X TN	25,30	8	24	10	
STO 10	36,45	10	30	12	
STO 10 X	40,20	10	30	12	
STO 12	38,35	12	32	12	
STO 12 X	42,25	12	32	12	
STO 15	40,20	15	35	12	
STO 15 X	44,25	15	35	12	
STO 17	42,80	17	40	16	
STO 17 X	47,25	17	40	16	
STO 20	46,85	20	47	16	
STO 20 X	51,40	20	47	16	
STO 25	51,00	25	52	16	
STO 25 X	84,20	25	52	16	
STO 30	58,00	30	62	20	
STO 30 X	128,00	30	62	20	
STO 35	100,00	35	72	20	
STO 35 X	142,50	35	72	20	
STO 40	118,50	40	80	20	
STO 40 X	*	40	80	20	
STO 45	178,00	45	85	20	
STO 45 X	*	45	85	20	
STO 50	212,00	50	90	20	
STO 50 X	*	50	90	20	

STO: Con anello interno / *With inner ring*  
 STO..X: Anello esterno cilindrico / *Outer cylindrical ring*

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

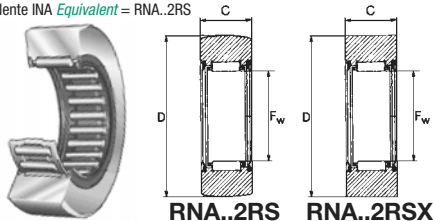
\* Disponibile su richiesta  
 Available under request



# Rotelle a rulli senza guida assiale, senza e con anello interno, schermati

Yoke type track rollers without axial guidance for the outer ring, with or without inner ring, sealed on both sides

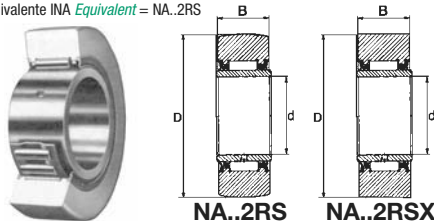
Equivalente INA *Equivalent* = RNA..2RS



RNA..2RS

RNA..2RSX

Equivalente INA *Equivalent* = NA..2RS



NA..2RS

NA..2RSX

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		Fw	D	C	
RNA 22/6 2RS	16,76	10	19	11,8	
RNA 22/6 2RS X	18,37	10	19	11,8	
RNA 22/8 2RS	18,70	12	24	11,8	
RNA 22/8 2RS X	20,60	12	24	11,8	
RNA 2200 2RS	32,75	14	30	13,8	
RNA 2200 2RS X	35,95	14	30	13,8	
RNA 2201 2RS	35,00	16	32	13,8	
RNA 2201 2RS X	38,35	16	32	13,8	
RNA 2202 2RS	35,40	20	35	13,8	
RNA 2202 2RS X	38,85	20	35	13,8	
RNA 2203 2RS	37,90	22	40	15,8	
RNA 2203 2RS X	41,75	22	40	15,8	
RNA 2204 2RS	42,25	25	47	17,8	
RNA 2205 2RS	47,55	30	52	17,8	
RNA 2206 2RS	54,00	35	62	19,8	
RNA 2207 2RS	79,40	42	72	22,7	
RNA 2208 2RS	143,50	48	80	22,7	
RNA 2209 2RS	*	52	85	22,7	
RNA 2210 2RS	218,50	58	90	22,7	

RNA22..2RS: Senza anello interno / *Without inner ring*

RNA..2RSX: Anello esterno cilindrico / *Outer cylindrical ring*

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
NA 22/6 2RS	24,05	6	19	12	
NA 22/6 2RS X	26,50	6	19	12	
NA 22/8 2RS	26,20	8	24	12	
NA 22/8 2RS X	28,70	8	24	12	
NA 2200 2RS	40,20	10	30	14	
NA 2200 2RS X	44,25	10	30	14	
NA 2201 2RS	43,20	12	32	14	
NA 2201 2RS X	47,55	12	32	14	
NA 2202 2RS	44,15	15	35	14	
NA 2202 2RS X	48,45	15	35	14	
NA 2203 2RS	47,55	17	40	16	
NA 2203 2RS X	52,20	17	40	16	
NA 2204 2RS	*	20	47	18	
NA 2204 2RS X	57,20	20	47	18	
NA 2205 2RS	58,30	25	52	18	
NA 2205 2RS X	64,20	25	52	18	
NA 2206 2RS	65,30	30	62	20	
NA 2206 2RS X	88,10	30	62	20	
NA 2207 2RS	94,80	35	72	23	
NA 2207 2RS X	103,50	35	72	23	
NA 2208 2RS	109,50	40	80	23	
NA 2208 2RS X	118,50	40	80	23	
NA 2209 2RS	*	45	85	23	
NA 2210 2RS	271,50	50	90	23	

NA22..2RS: Con anello interno / *With inner ring*

NA..2RSX: Anello esterno cilindrico / *Outer cylindrical ring*

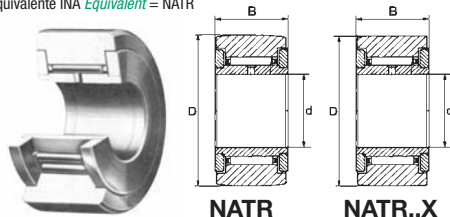
\* Disponibile su richiesta  
*Available under request*

# Rotelle a rulli con guida assiale (aperti e schermati)

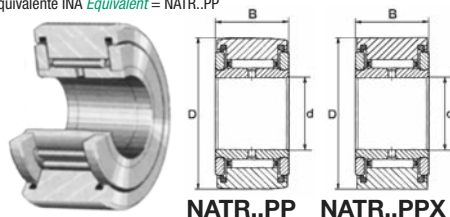
## Yoke type track rollers with axial guidance (open and sealed)



Equivalente INA *Equivalent* = NATR



Equivalente INA *Equivalent* = NATR..PP



Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
NATR 5	22,75	5	16	12	
NATR 5 X	25,10	5	16	12	
NATR 6	22,75	6	19	12	
NATR 6 X	25,10	6	19	12	
NATR 8	26,50	8	24	15	
NATR 8 X	29,05	8	24	15	
NATR 10	38,65	10	30	15	
NATR 10 X	42,50	10	30	15	
NATR 12	42,50	12	32	15	
NATR 12 X	46,85	12	32	15	
NATR 15	45,35	15	35	19	
NATR 15 X	49,80	15	35	19	
NATR 17	49,65	17	40	21	
NATR 17 X	54,40	17	40	21	
NATR 20	55,30	20	47	25	
NATR 20 X	*	20	47	25	
NATR 25	60,30	25	52	25	
NATR 30	74,70	30	62	29	
NATR 30 X	*	30	62	29	
NATR 35	*	35	72	29	
NATR 40	*	40	80	32	
NATR 50	*	50	90	32	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
NATR 5 PP	25,60	5	16	12	
NATR 5 PP X	28,25	5	16	12	
NATR 6 PP	25,85	6	19	12	
NATR 6 PP X	28,60	6	19	12	
NATR 8 PP	29,95	8	24	15	
NATR 8 PP X	32,90	8	24	15	
NATR 10 PP	42,70	10	30	15	
NATR 10 PP X	47,10	10	30	15	
NATR 12 PP	47,10	12	32	15	
NATR 12 PP X	51,50	12	32	15	
NATR 15 PP	51,30	15	35	19	
NATR 15 PP X	56,50	15	35	19	
NATR 17 PP	55,60	17	40	21	
NATR 17 PP X	61,50	17	40	21	
NATR 20 PP	62,20	20	47	25	
NATR 20 PP X	68,70	20	47	25	
NATR 25 PP	68,00	25	52	25	
NATR 25 PP X	74,70	25	52	25	
NATR 30 PP	82,80	30	62	29	
NATR 30 PP X	90,10	30	62	29	
NATR 35 PP	142,00	35	72	29	
NATR 35 PP X	156,50	35	72	29	
NATR 40 PP	147,00	40	80	32	
NATR 40 PP X	162,50	40	80	32	
NATR 50 PP	196,50	50	90	32	
NATR 50 PP X	217,00	50	90	32	

NATR: Senza anello di tenuta / *Without seal*

NATR..X: Anello esterno cilindrico / *Outer cylindrical ring*

NATR..PP: Con anello di tenuta / *With seal*

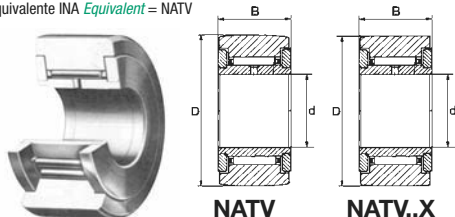
NATR..PPX: Anello esterno cilindrico / *Outer cylindrical ring*

\* Disponibile su richiesta  
*Available under request*

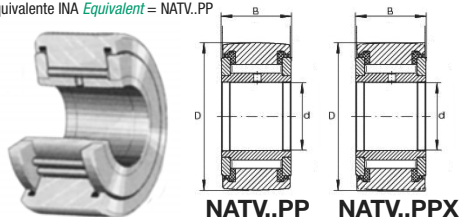


## Rotelle a rulli con guida assiale, a pieno riempimento di rullini (aperti e schermati) Yoke type track rollers with axial guidance, full complement needle roller set (open and seals)

Equivalente INA Equivalent = NATV



Equivalente INA Equivalent = NATV..PP



Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.
		d	D	B	
NATV 5	22,75	5	16	12	
NATV 5 X	25,10	5	16	12	
NATV 6	22,75	6	19	12	
NATV 8	26,50	8	24	15	
NATV 10	38,65	10	30	15	
NATV 12	42,50	12	32	15	
NATV 15	45,35	15	35	19	
NATV 15 X	49,80	15	35	19	
NATV 17	49,65	17	40	21	
NATV 20	55,30	20	47	25	
NATV 25	60,30	25	52	25	
NATV 30	74,70	30	62	29	
NATV 35	*	35	72	29	
NATV 40	*	40	80	32	
NATV 50	*	50	90	32	

Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.
		d	D	B	
NATV 5 PP	25,60	5	16	12	
NATV 5 PP X	28,25	5	16	12	
NATV 6 PP	25,85	6	19	12	
NATV 6 PP X	28,60	6	19	12	
NATV 8 PP	29,95	8	24	15	
NATV 8 PP X	32,90	8	24	15	
NATV 10 PP	42,70	10	30	15	
NATV 10 PP X	47,10	10	30	15	
NATV 12 PP	47,10	12	32	15	
NATV 12 PP X	51,50	12	32	15	
NATV 15 PP	51,30	15	35	19	
NATV 15 PP X	56,50	15	35	19	
NATV 17 PP	55,60	17	40	21	
NATV 17 PP X	61,50	17	40	21	
NATV 20 PP	62,20	20	47	25	
NATV 20 PP X	68,70	20	47	25	
NATV 25 PP	68,00	25	52	25	
NATV 25 PP X	74,70	25	52	25	
NATV 30 PP	82,80	30	62	29	
NATV 30 PP X	90,10	30	62	29	
NATV 35 PP	142,00	35	72	29	
NATV 40 PP	147,00	40	80	32	
NATV 40 PP X	162,50	40	80	32	
NATV 50 PP	196,50	50	90	32	
NATV 50 PP X	217,00	50	90	32	

NATV: Senza anello di tenuta / Without seal

NATV.X: Anello esterno cilindrico / Outer cylindrical ring

NATV..PP: Con anello di tenuta / With seal

NATV..PPX: Anello esterno cilindrico / Outer cylindrical ring

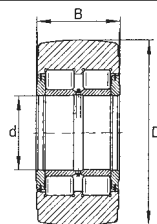
\* Disponibile su richiesta  
Available under request

# Rotelle a rulli con guida assiale a pieno riempimento di rulli, schermati

*Yoke type track rollers, with axial guidance, full complement cylindrical roller set, sealed on both sides*



Equivalente INA *Equivalent* = NNTR...-ZL



**NNTR**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i> d D B	Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>	Q.tà min. <i>Q.ty min.</i>
NNTR 50x130x65 ZZ	*	50 130 65					
NNTR 55x140x70 ZZ	*	55 140 70					
NNTR 60x150x75 ZZ	*	60 150 75					
NNTR 65x160x75 ZZ	*	65 160 75					
NNTR 70x180x85 ZZ	*	70 180 85					
NNTR 80x200x90 ZZ	*	80 200 90					
NNTR 90x220x100 ZZ	*	90 220 100					
NNTR 100x240x105 ZZ	*	100 240 105					
NNTR 110x260x115 ZZ	*	110 260 115					
NNTR 120x290x135 ZZ	*	120 290 135					
NNTR 130x310x146 ZZ	*	130 310 146					

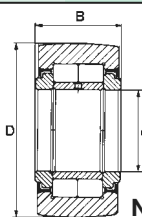
\* Disponibile su richiesta  
*Available under request*



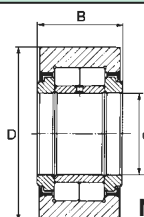
# Rotelle a rulli con guida assiale a pieno riempimento di rulli

Yoke type track rollers with axial guidance, full complement cylindrical roller set

Equivalente INA Equivalent = NUTR



NUTR



NUTR..X

Sigla Designation	€	Dimensioni mm			Q.tà min. Q.ty min.	Sigla Designation	€	Dimensioni mm			Q.tà min. Q.ty min.
		d	D	B				d	D	B	
NUTR 15	53,70	15	35	19		NUTR 50	162,50	50	90	32	
NUTR 15X	59,20	15	35	19		NUTR 50 X	179,00	50	90	32	
NUTR 15 42	64,50	15	42	19		NUTR 50 110	203,00	50	110	32	
NUTR 15 42 X	70,70	15	42	19		NUTR 50 110 X	222,50	50	110	32	
NUTR 17	58,30	17	40	21							
NUTR 17 X	64,30	17	40	21							
NUTR 17 47	68,00	17	47	21							
NUTR 17 47 X	75,40	17	47	21							
NUTR 20	63,50	20	47	25							
NUTR 20 X	70,00	20	47	25							
NUTR 20 52	70,00	20	52	25							
NUTR 20 52 X	77,40	20	52	25							
NUTR 25	70,00	25	52	25							
NUTR 25 X	76,70	25	52	25							
NUTR 25 62	84,20	25	62	25							
NUTR 25 62 X	92,20	25	62	25							
NUTR 30	84,20	30	62	29							
NUTR 30 X	92,20	30	62	29							
NUTR 30 72	97,50	30	72	29							
NUTR 30 72 X	107,00	30	72	29							
NUTR 35	96,80	35	72	29							
NUTR 35 X	107,00	35	72	29							
NUTR 35 80	107,50	35	80	29							
NUTR 35 80 X	118,50	35	80	29							
NUTR 40	122,50	40	80	32							
NUTR 40 X	133,50	40	80	32							
NUTR 40 90	139,00	40	90	32							
NUTR 40 90 X	151,50	40	90	32							
NUTR 45	132,00	45	85	32							
NUTR 45 X	145,50	45	85	32							
NUTR 45 100	158,00	45	100	32							
NUTR 45 100 X	173,50	45	100	32							

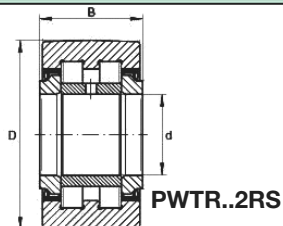
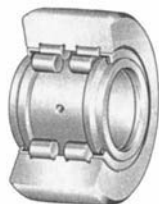
NUTR..X: Anello esterno cilindrico  
Outer cylindrical ring

# Rotelle a rulli con guida assiale a pieno riempimento di rulli, schermati

Yoke type track rollers, with axial guidance, full complement cylindrical roller set, sealed on both sides



Equivalente INA *Equivalent* = PWTR..2RS



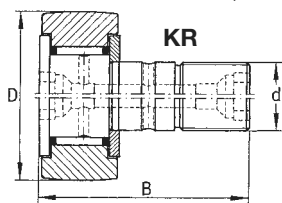
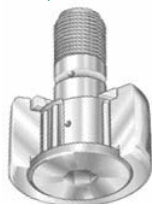
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B				d	D	B	
PWTR 15 2RS	59,10	15	35	19							
PWTR 1542 2RS	71,30	15	42	19							
PWTR 17 2RS	64,20	17	40	21							
PWTR 1747 2RS	75,40	17	47	21							
PWTR 20 2RS	70,00	20	47	25							
PWTR 2052 2RS	77,40	20	52	25							
PWTR 25 2RS	76,70	25	52	25							
PWTR 2562 2RS	92,20	25	62	25							
PWTR 30 2RS	92,20	30	62	29							
PWTR 3072 2RS	107,50	30	72	29							
PWTR 35 2RS	107,00	35	72	29							
PWTR 3580 2RS	119,00	35	80	29							
PWTR 40 2RS	133,50	40	80	32							
PWTR 4090 2RS	152,00	40	90	32							
PWTR 45 2RS	145,50	45	85	32							
PWTR 45100 2RS	174,00	45	100	32							
PWTR 50 2RS	179,00	50	90	32							
PWTR 50110 2RS	222,50	50	110	32							



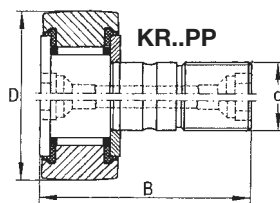
# Perni folli a rullini con guida assiale (aperti e schermati)

## Stud type track rollers with axial guidance (open and sealed)

Equivalente INA *Equivalent* = KR



Equivalente INA *Equivalent* = KR..PP



Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		D	d	B	
KR 16	37,90	16	6	28	
KR 16 X	41,75	16	6	28	
KR 19	39,70	19	8	32	
KR 19 X	43,75	19	8	32	
KR 22	41,45	22	10	36	
KR 22 X	45,60	22	10	36	
KR 26	43,30	26	10	36	
KR 26 X	47,55	26	10	36	
KR 30	52,40	30	12	40	
KR 30 X	57,60	30	12	40	
KR 32	55,10	32	12	40	
KR 32 X	60,60	32	12	40	
KR 35	61,10	35	16	52	
KR 35 X	67,20	35	16	52	
KR 40	72,70	40	18	58	
KR 40 X	80,10	40	18	58	
KR 47	94,10	47	20	66	
KR 52	98,20	52	20	66	
KR 62	123,50	62	24	80	
KR 72	*	72	24	80	
KR 80	269,50	80	30	100	
KR 85	*	85	30	100	
KR 90	*	90	30	100	

KR..X: Anello esterno cilindrico  
*Outer cylindrical ring*

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		D	d	B	
KR 16 PP	40,40	16	6	28	
KR 16 PP X	44,40	16	6	28	
KR 19 PP	42,15	19	8	32	
KR 19 PP X	46,30	19	8	32	
KR 22 PP	44,40	22	10	36	
KR 22 PP X	49,00	22	10	36	
KR 26 PP	47,10	26	10	36	
KR 26 PP X	51,50	26	10	36	
KR 30 PP	56,00	30	12	40	
KR 30 PP X	61,50	30	12	40	
KR 32 PP	59,10	32	12	40	
KR 32 PP X	65,20	32	12	40	
KR 35 PP	66,20	35	16	52	
KR 35 PP X	72,70	35	16	52	
KR 40 PP	78,10	40	18	58	
KR 40 PP X	86,20	40	18	58	
KR 47 PP	102,00	47	20	66	
KR 47 PP X	110,50	47	20	66	
KR 52 PP	104,50	52	20	66	
KR 52 PP X	114,50	52	20	66	
KR 62 PP	132,00	62	24	80	
KR 62 PP X	145,50	62	24	80	
KR 72 PP	147,00	72	24	80	
KR 72 PP X	162,50	72	24	80	
KR 80 PP	192,50	80	30	100	
KR 80 PP X	211,00	80	30	100	
KR 85 PP	*	85	30	100	
KR 85 PP X	*	85	30	100	
KR 90 PP	227,50	90	30	100	
KR 90 PP X	251,00	90	30	100	

KR..PPX: Anello esterno cilindrico  
*Outer cylindrical ring*

\* Disponibile su richiesta  
*Available under request*

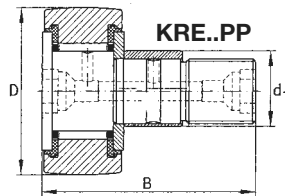
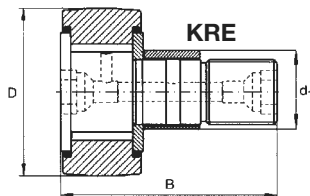
# Perni folli a rullini con guida assiale, con eccentrico (aperti e schermati)

## Stud type track rollers with axial guidance, with eccentric collar (open and sealed)



Equivalente INA *Equivalent* = KRE

Equivalente INA *Equivalent* = KRE..PP



Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		D	d <sub>1</sub>	B				D	d <sub>1</sub>	B	
KRE 16	50,50	16	9	28		KRE 16 PP	53,10	16	9	28	
KRE 19	53,50	19	11	32		KRE 19 PP	55,40	19	11	32	
KRE 19 X	*	19	11	32		KRE 22 PP	58,30	22	13	36	
KRE 22	55,40	22	13	36		KRE 26 PP	60,80	26	13	36	
KRE 26	57,20	26	13	36		KRE 30 PP	71,30	30	15	40	
KRE 30	68,00	30	15	40		KRE 32 PP	74,70	32	15	40	
KRE 32	107,00	32	15	40		KRE 35 PP	82,80	35	20	52	
KRE 35	115,50	35	20	52		KRE 40 PP	94,10	40	22	58	
KRE 40	89,40	40	22	58		KRE 47 PP	123,00	47	24	66	
KRE 47	*	47	24	66		KRE 52 PP	126,50	52	24	66	
KRE 52	*	52	24	66		KRE 62 PP	164,00	62	28	80	
KRE 62	*	62	28	80		KRE 72 PP	180,00	72	28	80	
KRE 72	*	72	28	80		KRE 80 PP	224,00	80	35	100	
KRE 80	*	80	35	100		KRE 85 PP	*	85	35	100	
KRE 85	*	85	35	100		KRE 90 PP	258,00	90	35	100	
KRE 90	*	90	35	100							

KRE..X: Anello esterno cilindrico  
*Outer cylindrical ring*

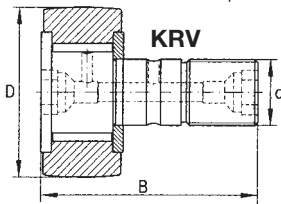
\* Disponibile su richiesta  
*Available under request*



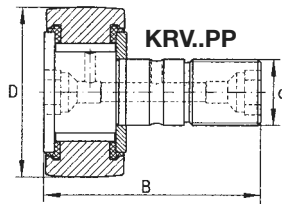
# Perni folli a rullini con guida assiale, a pieno riempimento di rullini (aperti e schermati)

## Stud type track rollers, with axial guidance, full complement needle roller set (open and sealed)

Equivalente INA *Equivalent* = KRV



Equivalente INA *Equivalent* = KRV..PP



Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		D	d	B	
KRV 16	37,90	16	6	28	
KRV 19	39,70	19	8	32	
KRV 22	41,45	22	10	36	
KRV 22 X	45,60	22	10	36	
KRV 26	43,30	26	10	36	
KRV 26 X	47,55	26	10	36	
KRV 30	52,40	30	12	40	
KRV 32	55,10	32	12	40	
KRV 35	61,10	35	16	52	
KRV 40	72,70	40	18	58	
KRV 47	*	47	20	66	
KRV 52	*	52	20	66	
KRV 62	*	62	24	80	
KRV 72	*	72	24	80	
KRV 80	*	80	30	100	
KRV 85	*	85	30	100	
KRV 90	*	90	30	100	

Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		D	d	B	
KRV 16 PP	40,40	16	6	28	
KRV 16 PP X	44,40	16	6	28	
KRV 19 PP	42,15	19	8	32	
KRV 19 PP X	46,30	19	8	32	
KRV 22 PP	44,40	22	10	36	
KRV 22 PP X	49,00	22	10	36	
KRV 26 PP	47,10	26	10	36	
KRV 26 PP X	51,50	26	10	36	
KRV 30 PP	56,00	30	12	40	
KRV 30 PP X	61,50	30	12	40	
KRV 32 PP	59,10	32	12	40	
KRV 32 PP X	65,20	32	12	40	
KRV 35 PP	66,20	35	16	52	
KRV 35 PP X	72,70	35	16	52	
KRV 40 PP	78,10	40	18	58	
KRV 40 PP X	86,20	40	18	58	
KRV 47 PP	102,00	47	20	66	
KRV 47 PP X	110,50	47	20	66	
KRV 52 PP	104,50	52	20	66	
KRV 52 PP X	114,50	52	20	66	
KRV 62 PP	132,00	62	24	80	
KRV 62 PP X	145,50	62	24	80	
KRV 72 PP	147,00	72	24	80	
KRV 72 PP X	162,50	72	24	80	
KRV 80 PP	192,50	80	30	100	
KRV 80 PP X	211,00	80	30	100	
KRV 85 PP	*	85	30	100	
KRV 90 PP	227,50	90	30	100	
KRV 90 PP X	251,00	90	30	100	

KRV.X: Anello esterno cilindrico  
*Outer cylindrical ring*

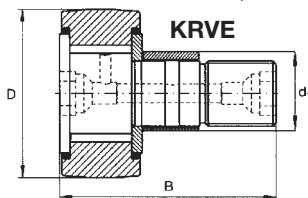
KRV..PPX: Anello esterno cilindrico  
*Outer cylindrical ring*

\* Disponibile su richiesta  
*Available under request*

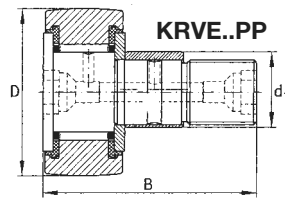
**Perni folli a rullini con guida assiale, a pieno riempimento di rullini con eccentrico (aperti e schermati)**  
**Stud type track rollers, with axial guidance, full complement needle roller set, with eccentric collar (open and sealed)**



Equivalente INA *Equivalent* =KRVE



Equivalente INA *Equivalent* =KRVE..PP



Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		D	d <sub>1</sub>	B	
KRVE 16	*	16	9	28	
KRVE 19	*	19	11	32	
KRVE 22	*	22	13	36	
KRVE 26	*	26	13	36	
KRVE 30	*	30	15	40	
KRVE 32	*	32	15	40	
KRVE 35	*	35	20	52	
KRVE 40	*	40	22	58	
KRVE 47	*	47	24	66	
KRVE 52	*	52	24	66	
KRVE 62	*	62	28	80	
KRVE 72	*	72	28	80	
KRVE 80	*	80	35	100	
KRVE 85	*	85	35	100	
KRVE 90	*	90	35	100	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		D	d <sub>1</sub>	B	
KRVE 16 PP	<b>53,10</b>	16	9	28	
KRVE 19 PP	<b>55,40</b>	19	11	32	
KRVE 22 PP	<b>58,30</b>	22	13	36	
KRVE 26 PP	<b>60,80</b>	26	13	36	
KRVE 30 PP	<b>71,30</b>	30	15	40	
KRVE 32 PP	<b>74,70</b>	32	15	40	
KRVE 35 PP	<b>82,80</b>	35	20	52	
KRVE 40 PP	<b>94,10</b>	40	22	58	
KRVE 47 PP	<b>123,00</b>	47	24	66	
KRVE 52 PP	<b>126,50</b>	52	24	66	
KRVE 62 PP	<b>164,00</b>	62	28	80	
KRVE 72 PP	<b>180,00</b>	72	28	80	
KRVE 80 PP	<b>224,00</b>	80	35	100	
KRVE 85 PP	*	85	35	100	
KRVE 90 PP	<b>387,50</b>	90	35	100	

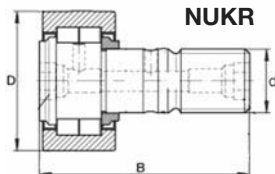
\* Disponibile su richiesta  
 Available under request



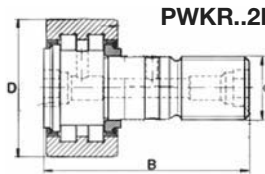
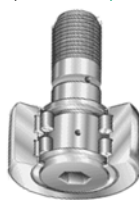
# Perni folli a rulli con guida assiale, a pieno riempimento di rulli (aperti e schermati) Stud type track rollers, with axial guidance, full complement cylindrical roller set (open and sealed)

Equivalente INA *Equivalent* = NUKR

Equivalente INA *Equivalent* = PWKR..2RS



**NUKR**



**PWKR..2RS**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		D	d	B	
NUKR 35	70,70	35	16	52	
NUKR 35 X	78,10	35	16	52	
NUKR 40	84,20	40	18	58	
NUKR 40 X	92,80	40	18	58	
NUKR 47	109,00	47	20	66	
NUKR 47 X	120,00	47	20	66	
NUKR 52	113,00	52	20	66	
NUKR 52 X	124,50	52	20	66	
NUKR 62	145,00	62	24	80	
NUKR 62 X	159,00	62	24	80	
NUKR 72	162,50	72	24	80	
NUKR 72 X	179,00	72	24	80	
NUKR 80	207,50	80	30	100	
NUKR 80 X	227,50	80	30	100	
NUKR 90	244,50	90	30	100	
NUKR 90 X	269,50	90	30	100	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		D	d	B	
PWKR 35 2RS	78,10	35	16	52	
PWKR 40 2RS	92,80	40	18	58	
PWKR 47 2RS	119,50	47	20	66	
PWKR 52 2RS	124,50	52	20	66	
PWKR 62 2RS	159,00	62	24	80	
PWKR 72 2RS	179,00	72	24	80	
PWKR 80 2RS	228,00	80	30	100	
PWKR 90 2RS	269,50	90	30	100	

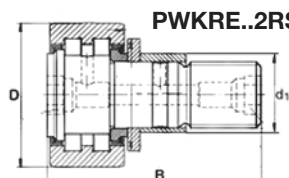
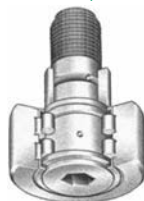
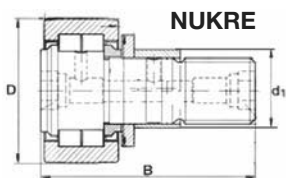
NUKR..X: Anello esterno cilindrico  
*Outer cylindrical ring*

**Perni folli a rulli con guida assiale, a pieno riempimento di rulli, con eccentrico (aperti e schermati)**  
*Stud type track rollers, with axial guidance, full complement cylindrical roller set, with eccentric collar (open and sealed)*



Equivalente INA *Equivalent* = NUKRE

Equivalente INA *Equivalent* = PWKRE..2RS



Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		D	d <sub>1</sub>	B	
NUKRE 35	87,50	35	20	52	
NUKRE 35 X	95,50	35	20	52	
NUKRE 40	102,00	40	22	58	
NUKRE 40 X	110,50	40	22	58	
NUKRE 47	132,00	47	24	66	
NUKRE 47 X	145,50	47	24	66	
NUKRE 52	136,50	52	24	66	
NUKRE 52 X	149,00	52	24	66	
NUKRE 62	177,00	62	28	80	
NUKRE 62 X	194,50	62	28	80	
NUKRE 72	194,00	72	28	80	
NUKRE 72 X	213,50	72	28	80	
NUKRE 80	242,50	80	35	100	
NUKRE 80 X	268,50	80	35	100	
NUKRE 90	278,00	90	35	100	
NUKRE 90 X	306,00	90	35	100	

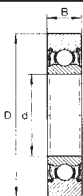
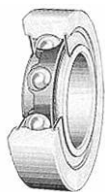
NUKRE..X: Anello esterno cilindrico  
*Outer cylindrical ring*

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		D	d <sub>1</sub>	B	
PWKRE 35 2RS	95,50	35	20	52	
PWKRE 40 2RS	112,50	40	22	58	
PWKRE 47 2RS	145,50	47	24	66	
PWKRE 52 2RS	149,00	52	24	66	
PWKRE 62 2RS	194,50	62	28	80	
PWKRE 72 2RS	213,50	72	28	80	
PWKRE 80 2RS	268,00	80	35	100	
PWKRE 90 2RS	306,00	90	35	100	



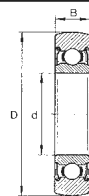
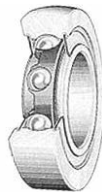
# Rotelle ad una corona di sfere Track rollers with single row

Equivalente INA *Equivalent* = LR 6.. 2RSR-X



**LR 6.. NPP**

Equivalente INA *Equivalent* = LR 6.. 2RSR



**LR 6.. / LR60..NPPU**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
LR 604 NPP	*	4	13	4	
LR 605 NPP	*	5	16	5	
LR 606 NPP	*	6	19	6	
LR 607 NPP	*	7	22	6	
LR 608 NPP	*	8	24	7	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
LR 604 NPPU	<b>24,90</b>	4	13	4	
LR 605 NPPU	<b>22,45</b>	5	16	5	
LR 606 NPPU	<b>22,75</b>	6	19	6	
LR 607 NPPU	<b>22,40</b>	7	22	6	
LR 608 NPPU	<b>22,25</b>	8	24	7	
LR 6000 NPPU	<b>23,65</b>	10	28	8	
LR 6001 NPPU	<b>25,80</b>	12	30	8	
LR 6002 NPPU	<b>24,10</b>	15	35	9	
LR 6003 NPPU	<b>29,35</b>	17	40	10	
LR 6004 NPPU	<b>34,15</b>	20	47	12	

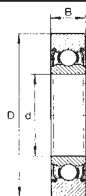
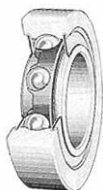
\* Disponibile su richiesta  
*Available under request*

# Rotelle ad una corona di sfere

## Track rollers with single row

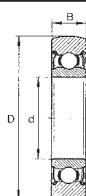
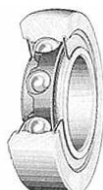


Equivalente INA *Equivalent* = LR 2.. 2RSR-X



**LR 2.. NPP**

Equivalente INA *Equivalent* = LR 2.. 2RSR



**LR 2.. NPPU**

Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
LR 200 NPP	23,55	10	32	9	
LR 201 NPP	25,15	12	35	10	
LR 202 NPP	23,10	15	40	11	
LR 203 NPP	29,60	17	47	12	
LR 204 NPP	30,00	20	52	14	
LR 205 NPP	44,15	25	62	15	
LR 206 NPP	53,00	30	72	16	
LR 207 NPP	66,00	35	80	17	
LR 208 NPP	80,10	40	85	18	
LR 209 NPP	88,90	45	90	19	

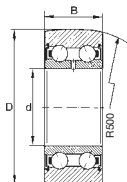
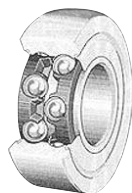
Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
LR 200 NPPU	23,55	10	32	9	
LR 201 NPPU	25,15	12	35	10	
LR 202 NPPU	23,10	15	40	11	
LR 203 NPPU	29,60	17	47	12	
LR 204 NPPU	30,00	20	52	14	
LR 205 NPPU	44,15	25	62	15	
LR 206 NPPU	53,00	30	72	16	
LR 207 NPPU	66,00	35	80	17	
LR 208 NPPU	80,10	40	85	18	
LR 209 NPPU	88,90	45	90	19	



# Rotelle a due corone di sfere

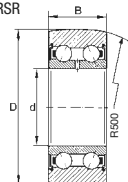
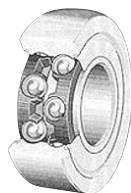
## Track rollers with double rows

Equivalente INA *Equivalent* = LR 50.. 2RSR



**LR 50.. NPPU**

Equivalente INA *Equivalent* = LR 52../LR 53.. 2RSR



**LR 52../LR 53.. NPPU**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
LR 50/5 NPPU	44,00	5	17	7	
LR 50/6 NPPU	44,25	6	19	9	
LR 50/7 NPPU	43,85	7	22	10	
LR 50/8 NPPU	43,50	8	24	11	
LR 5000 NPPU	46,20	10	28	12	
LR 5001 NPPU	48,20	12	30	12	
LR 5002 NPPU	52,20	15	35	13	
LR 5003 NPPU	56,40	17	40	14	
LR 5004 NPPU	62,00	20	47	16	
LR 5005 NPPU	70,70	25	52	16	
LR 5006 NPPU	81,50	30	62	19	
LR 5007 NPPU	94,80	35	68	20	

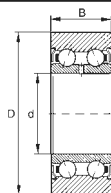
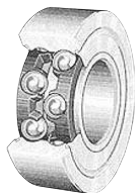
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
LR 5200 NPPU	59,30	10	32	14	
LR 5201 NPPU	59,30	12	35	15,9	
LR 5202 NPPU	61,20	15	40	15,9	
LR 5203 NPPU	66,40	17	47	17,5	
LR 5204 NPPU	70,00	20	52	20,6	
LR 5205 NPPU	83,50	25	62	20,6	
LR 5206 NPPU	96,20	30	72	24,2	
LR 5207 NPPU	111,00	35	80	27	
LR 5208 NPPU	118,00	40	85	30,2	
LR 5302 NPPU	76,70	15	47	19	
LR 5303 NPPU	87,50	17	52	22,2	
LR 5304 NPPU	91,50	20	62	22,2	
LR 5305 NPPU	107,50	25	72	25,4	
LR 5306 NPPU	129,00	30	80	30,2	
LR 5307 NPPU	153,00	35	90	34,9	
LR 5308 NPPU	186,00	40	100	36,5	

# Rotelle a due corone di sfere

## Track rollers with double rows

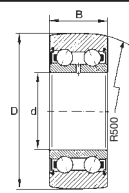
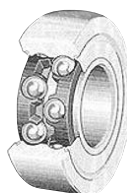


Equivalente INA *Equivalent* = LR 52..X-2Z



**LR 52..KDD**

Equivalente INA *Equivalent* = LR 52..-2Z



**LR 52.. KDDU**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
LR 5200 KDD	<b>54,20</b>	10	32	14	
LR 5201 KDD	<b>54,20</b>	12	35	15,9	
LR 5202 KDD	<b>56,10</b>	15	40	15,9	
LR 5203 KDD	<b>60,60</b>	17	47	17,5	
LR 5204 KDD	<b>64,80</b>	20	52	20,6	
LR 5205 KDD	<b>76,70</b>	25	62	20,6	
LR 5206 KDD	<b>90,90</b>	30	72	23,8	
LR 5207 KDD	<b>103,00</b>	35	80	27	
LR 5208 KDD	<b>109,50</b>	40	85	30,2	

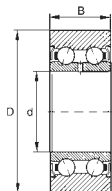
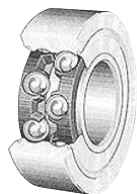
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
LR 5200 KDDU	<b>54,20</b>	10	32	14	
LR 5201 KDDU	<b>54,20</b>	12	35	15,9	
LR 5202 KDDU	<b>56,10</b>	15	40	15,9	
LR 5203 KDDU	<b>60,60</b>	17	47	17,5	
LR 5204 KDDU	<b>64,80</b>	20	52	20,6	
LR 5205 KDDU	<b>76,70</b>	25	62	20,6	
LR 5206 KDDU	<b>90,90</b>	30	72	23,8	
LR 5207 KDDU	<b>103,00</b>	35	80	27	
LR 5208 KDDU	<b>109,50</b>	40	85	30,2	



# Rotelle a due corone di sfere

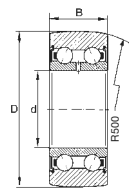
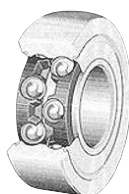
## Track rollers with double rows

Equivalente INA *Equivalent* = LR 53.. X-2Z



**LR 53..KDD**

Equivalente INA *Equivalent* = LR 53..-2Z



**LR 53.. KDDU**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
LR 5304 KDD	<b>83,50</b>	20	62	22,2	
LR 5305 KDD	<b>98,90</b>	25	72	25,4	
LR 5306 KDD	<b>121,50</b>	30	80	30,2	
LR 5307 KDD	<b>143,50</b>	35	90	34,9	
LR 5308 KDD	<b>173,50</b>	40	100	36,5	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
LR 5304 KDDU	<b>83,50</b>	20	62	22,2	
LR 5305 KDDU	<b>98,90</b>	25	72	25,4	
LR 5306 KDDU	<b>121,50</b>	30	80	30,2	
LR 5307 KDDU	<b>143,50</b>	35	90	34,9	
LR 5308 KDDU	<b>173,50</b>	40	100	36,5	

NPP = anello esterno cilindrico, tenuta bilaterale strisciante con schermi di copertura tipo 2RS

*NPP = outer cylindrical ring, bilateral sliding seals 2RS type*

NPPU = anello esterno bombato (sferico), tenuta bilaterale strisciante con schermi di copertura tipo 2RS

*NPPU = outer barrel ring, (spherical) bilateral sliding seals 2RS type*

KDD = anello esterno cilindrico, con schermi di copertura tipo ZZ

*KDD = outer cylindrical ring, shielded ZZ type*

KDDU = anello esterno bombato (sferico), con schermi di copertura tipo ZZ

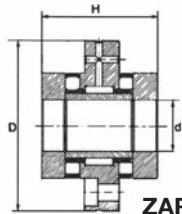
*KDDU = outer barrel ring, (spherical) shielded ZZ type*

# Cuscinetti combinati a rullini ed assiali a rulli cilindrici, serie leggera avvitabili

## Needle roller/axial cylindrical roller bearings, light series, double direction

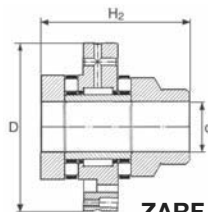


Equivalente INA *Equivalent* = ZARF



ZARF

Equivalente INA *Equivalent* = ZARF.-L



ZARF.-L

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	H	
ZARF 1560 TN	*	15	60	40	
ZARF 1762 TN	*	17	62	43	
ZARF 2068 TN	*	20	68	46	
ZARF 2575 TN	*	25	75	50	
ZARF 3080 TN	*	30	80	50	
ZARF 3590 TN	*	35	90	54	
ZARF 40100 TN	*	40	100	54	
ZARF 45105 TN	*	45	105	60	
ZARF 50115 TN	*	50	115	60	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	H <sub>2</sub>	
ZARF 1560 L TN	*	15	60	53	
ZARF 1762 L TN	*	17	62	57	
ZARF 2068 L TN	*	20	68	60	
ZARF 2575 L TN	*	25	75	65	
ZARF 3080 L TN	*	30	80	65	
ZARF 3590 L TN	*	35	90	70	
ZARF 40100 L TN	*	40	100	70	
ZARF 45105 L TN	*	45	105	75	
ZARF 50115 L TN	*	50	115	78	

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

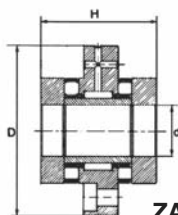
\* Disponibile su richiesta  
Available under request



## Cuscinetti combinati a rullini ed assiali a rulli cilindrici, serie pesante avvitabili

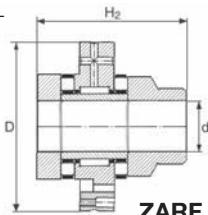
### Needle roller/axial cylindrical roller bearings, heavy series, double direction

Equivalente INA *Equivalent* = ZARF



**ZARF**

Equivalente INA *Equivalent* = ZARF.-L



**ZARF.-L**

Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		d	D	H	
ZARF 2080 TN	*	20	80	60	
ZARF 2590 TN	*	25	90	60	
ZARF 30105 TN	*	30	105	66	
ZARF 35110 TN	*	35	110	66	
ZARF 40115 TN	*	40	115	75	
ZARF 45130 TN	*	45	130	82	
ZARF 50140 TN	*	50	140	82	
ZARF 55145 TN	*	55	145	82	
ZARF 60150 TN	*	60	150	82	
ZARF 65155 TN	*	65	155	82	
ZARF 70160 TN	*	70	160	82	
ZARF 75185 TN	*	75	185	100	
ZARF 90210 TN	*	90	210	110	

Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		d	D	H <sub>2</sub>	
ZARF 2080 L TN	*	20	80	75	
ZARF 2590 L TN	*	25	90	75	
ZARF 30105 L TN	*	30	105	82	
ZARF 35110 L TN	*	35	110	82	
ZARF 40115 L TN	*	40	115	93	
ZARF 45130 L TN	*	45	130	103	
ZARF 50140 L TN	*	50	140	103	
ZARF 55145 L TN	*	55	145	103	
ZARF 60150 L TN	*	60	150	103	
ZARF 65155 L TN	*	65	155	103	
ZARF 70160 L TN	*	70	160	103	
ZARF 75185 L TN	*	75	185	125	
ZARF 90210 L TN	*	90	210	135	

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

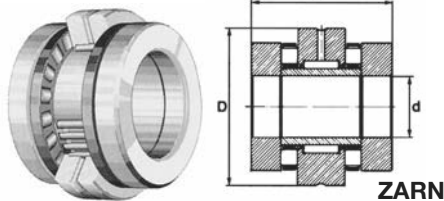
\* Disponibile su richiesta  
Available under request

# Cuscinetti combinati a rullini ed assiali a rulli cilindrici, serie leggera

## Needle roller/axial cylindrical roller bearings, light series

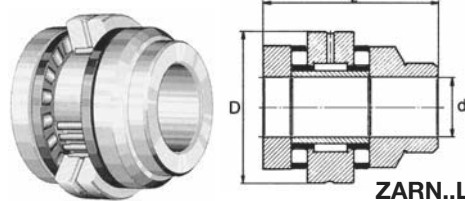


Equivalente INA *Equivalent* = ZARN



ZARN

Equivalente INA *Equivalent* = ZARN..L



ZARN..L

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	H	
ZARN 1545 TN	*	15	45	40	
ZARN 1747 TN	*	17	47	43	
ZARN 2052 TN	*	20	52	46	
ZARN 2557 TN	*	25	57	50	
ZARN 3062 TN	*	30	62	50	
ZARN 3570 TN	*	35	70	54	
ZARN 4075 TN	*	40	75	54	
ZARN 4580 TN	*	45	80	60	
ZARN 5090 TN	*	50	90	60	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	H <sub>2</sub>	
ZARN 1545 L TN	*	15	45	53	
ZARN 1747 L TN	*	17	47	57	
ZARN 2052 L TN	*	20	52	60	
ZARN 2557 L TN	*	25	57	65	
ZARN 3062 L TN	*	30	62	65	
ZARN 3570 L TN	*	35	70	70	
ZARN 4075 L TN	*	40	75	70	
ZARN 4580 L TN	*	45	80	75	
ZARN 5090 L TN	*	50	90	78	

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

\* Disponibile su richiesta

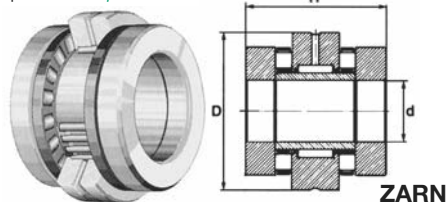
Available under request



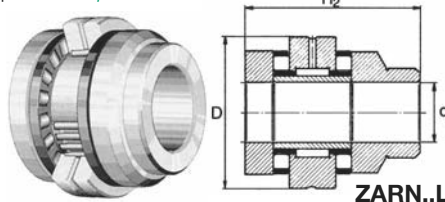
# Cuscinetti combinati a rullini ed assiali a rulli cilindrici, serie pesante

## Needle roller/axial cylindrical roller bearings, heavy series

Equivalente INA *Equivalent* = ZARN



Equivalente INA *Equivalent* = ZARN..L



Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		d	D	H	
ZARN 2062 TN	*	20	62	60	
ZARN 2572 TN	*	25	72	60	
ZARN 3080 TN	*	30	80	66	
ZARN 3585 TN	*	35	85	66	
ZARN 4090 TN	*	40	90	75	
ZARN 45105 TN	*	45	105	82	
ZARN 50110 TN	*	50	110	82	
ZARN 55115 TN	*	55	115	82	
ZARN 60120 TN	*	60	120	82	
ZARN 65125 TN	*	65	125	82	
ZARN 70130 TN	*	70	130	82	
ZARN 75155 TN	*	75	155	100	
ZARN 90180 TN	*	90	180	110	

Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		d	D	H <sub>2</sub>	
ZARN 2062 L TN	*	20	62	75	
ZARN 2572 L TN	*	25	72	75	
ZARN 3080 L TN	*	30	80	82	
ZARN 3585 L TN	*	35	85	82	
ZARN 4090 L TN	*	40	90	93	
ZARN 45105 L TN	*	45	105	103	
ZARN 50110 L TN	*	50	110	103	
ZARN 55115 L TN	*	55	115	103	
ZARN 60120 L TN	*	60	120	103	
ZARN 65125 L TN	*	65	125	103	
ZARN 70130 L TN	*	70	130	103	
ZARN 75155 L TN	*	75	155	125	
ZARN 90180 L TN	*	90	180	135	

TN = Gabbia in plastica, temperatura d'esercizio ammissibile: 80°C (per funzionamento continuo)

TN = Plastic cage; temperature allowed: 80°C (continuous working)

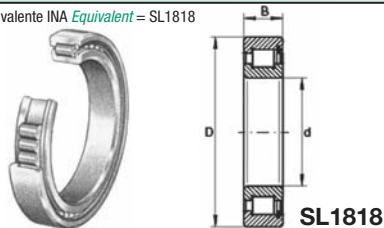
\* Disponibile su richiesta  
Available under request

# Cuscinetti radiali a rulli cilindrici a pieno riempimento ad una corona, cuscinetti d'appoggio

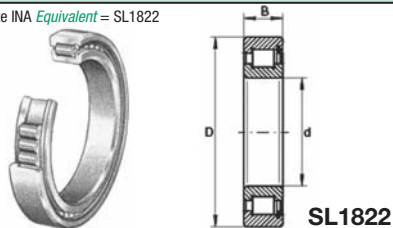
## Cylindrical roller bearings, full complement roller set, single row, semi-locating bearings



Equivalente INA *Equivalent* = SL1818



Equivalente INA *Equivalent* = SL1822



Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
SL 18 18 32	*	160	200	20	
SL 18 18 36	*	180	225	22	
SL 18 18 40	<b>761,00</b>	200	250	24	
SL 18 18 44	<b>940,00</b>	220	270	24	
SL 18 18 48	<b>1.189,00</b>	240	300	28	
SL 18 18 52	<b>1.435,00</b>	260	320	28	
SL 18 18 56	<b>1.819,00</b>	280	350	33	
SL 18 18 60	<b>2.293,00</b>	300	380	38	
SL 18 18 64	<b>2.636,00</b>	320	400	38	
SL 18 18 68	<b>2.928,00</b>	340	420	38	
SL 18 18 72	<b>3.776,00</b>	360	440	38	
SL 18 18 76	<b>4.730,00</b>	380	480	46	
SL 18 18 80	<b>5.504,00</b>	400	500	46	
SL 18 18 84	<b>6.487,00</b>	420	520	46	
SL 18 18 88	<b>7.160,00</b>	440	540	46	
SL 18 18 92	<b>9.480,00</b>	460	580	56	
SL 18 18 96	<b>10.687,00</b>	480	600	56	
SL18 18/500	<b>11.643,00</b>	500	620	56	

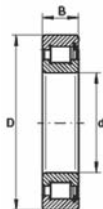
Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
SL 18 22 04	<b>75,40</b>	20	47	18	
SL 18 22 05	<b>86,20</b>	25	52	18	
SL 18 22 06	<b>102,00</b>	30	62	20	
SL 18 22 07	<b>113,50</b>	35	72	23	
SL 18 22 08	<b>126,50</b>	40	80	23	
SL 18 22 09	<b>137,00</b>	45	85	23	
SL 18 22 10	<b>153,00</b>	50	90	23	
SL 18 22 11	<b>191,00</b>	55	100	25	
SL 18 22 12	<b>222,50</b>	60	110	28	
SL 18 22 13	<b>255,00</b>	65	120	31	
SL 18 22 14	<b>344,50</b>	70	125	31	
SL 18 22 15	<b>306,50</b>	75	130	31	
SL 18 22 16	<b>344,50</b>	80	140	33	
SL 18 22 17	<b>503,00</b>	85	150	36	
SL 18 22 18	<b>488,50</b>	90	160	40	
SL 18 22 19	<b>563,00</b>	95	170	43	
SL 18 22 20	<b>642,00</b>	100	180	46	
SL 18 22 22	<b>819,00</b>	110	200	53	
SL 18 22 24	<b>1.028,00</b>	120	215	58	
SL 18 22 26	<b>1.220,00</b>	130	230	64	
SL 18 22 28	<b>1.523,00</b>	140	250	68	
SL 18 22 30	<b>1.911,00</b>	150	270	73	
SL 18 22 32	<b>2.368,00</b>	160	290	80	
SL 18 22 34	<b>2.917,00</b>	170	310	86	
SL 18 22 36	*	180	320	86	
SL 18 22 38	<b>4.030,00</b>	190	340	92	
SL 18 22 40	<b>6.035,00</b>	200	360	98	

\* Disponibile su richiesta  
Available under request



**Cuscinetti radiali a rulli cilindrici a pieno riempimento ad una corona, cuscinetti d'appoggio**  
**Cylindrical roller bearings, full complement roller set, single row, semi-locating bearings**

Equivalente INA *Equivalent* = SL1829



**SL1829**

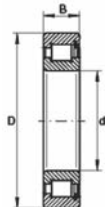
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B				d	D	B	
SL 18 29 12	102,00	60	85	16		SL 18 29 96	15.002,00	480	650	100	
SL 18 29 13	115,50	65	90	16		SL 18 29/500	18.114,00	500	670	100	
SL 18 29 14	125,50	70	100	19							
SL 18 29 15	144,00	75	105	19							
SL 18 29 16	152,00	80	110	19							
SL 18 29 17	244,50	85	120	22							
SL 18 29 18	208,50	90	125	22							
SL 18 29 19	277,00	95	130	22							
SL 18 29 20	278,00	100	140	24							
SL 18 29 22	306,50	110	150	24							
SL 18 29 24	354,00	120	165	27							
SL 18 29 26	408,00	130	180	30							
SL 18 29 28	464,00	140	190	30							
SL 18 29 30	590,00	150	210	36							
SL 18 29 32	672,00	160	220	36							
SL 18 29 34	753,00	170	230	36							
SL 18 29 36	889,00	180	250	42							
SL 18 29 38	958,00	190	260	42							
SL 18 29 40	1.136,00	200	280	48							
SL 18 29 44	1.374,00	220	300	48							
SL 18 29 48	1.661,00	240	320	48							
SL 18 29 52	2.275,00	260	360	60							
SL 18 29 56	2.666,00	280	380	60							
SL 18 29 60	3.832,00	300	420	72							
SL 18 29 64	4.695,00	320	440	72							
SL 18 29 68	5.387,00	340	460	72							
SL 18 29 72	5.936,00	360	480	72							
SL 18 29 76	7.246,00	380	520	82							
SL 18 29 80	8.091,00	400	540	82							
SL 18 29 84	8.896,00	420	560	82							
SL 18 29 88	11.117,00	440	600	95							
SL 18 29 92	12.873,00	460	620	95							

# Cuscinetti radiali a rulli cilindrici a pieno riempimento ad una corona, cuscinetti d'appoggio

## Cylindrical roller bearings, full complement roller set, single row, semi-locating bearings



Equivalente INA *Equivalent* = SL1830



SL1830

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B				d	D	B	
SL 18 30 04	50,30	20	42	16		SL 18 30 68	12.704,00	340	520	133	
SL 18 30 05	55,30	25	47	16		SL 18 30 72	15.729,00	360	540	134	
SL 18 30 06	66,10	30	55	19		SL 18 30 76	17.463,00	380	560	135	
SL 18 30 07	77,40	35	62	20		SL 18 30 80	21.827,00	400	600	148	
SL 18 30 08	84,20	40	68	21							
SL 18 30 09	90,90	45	75	23							
SL 18 30 10	105,00	50	80	23							
SL 18 30 11	129,00	55	90	26							
SL 18 30 12	142,00	60	95	26							
SL 18 30 13	154,50	65	100	26							
SL 18 30 14	188,00	70	110	30							
SL 18 30 15	204,00	75	115	30							
SL 18 30 16	236,00	80	125	34							
SL 18 30 17	325,50	85	130	34							
SL 18 30 18	323,00	90	140	37							
SL 18 30 20	415,50	100	150	37							
SL 18 30 22	594,00	110	170	45							
SL 18 30 24	644,00	120	180	46							
SL 18 30 26	748,00	130	200	52							
SL 18 30 28	821,00	140	210	53							
SL 18 30 30	910,00	150	225	56							
SL 18 30 32	1.066,00	160	240	60							
SL 18 30 34	1.304,00	170	260	67							
SL 18 30 36	1.636,00	180	280	74							
SL 18 30 38	1.911,00	190	290	75							
SL 18 30 40	2.266,00	200	310	82							
SL 18 30 44	2.894,00	220	340	90							
SL 18 30 48	3.400,00	240	360	92							
SL 18 30 52	4.668,00	260	400	104							
SL 18 30 56	5.367,00	280	420	106							
SL 18 30 60	8.020,00	300	460	118							
SL 18 30 64	9.991,00	320	480	121							

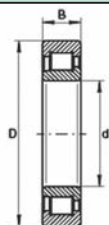
\* Disponibile su richiesta  
*Available under request*



# Cuscinetti radiali a rulli cilindrici a pieno riempimento ad una corona, cuscinetti d'appoggio

## Cylindrical roller bearings, full complement roller set, single row, semi-locating bearings

Equivalente INA *Equivalent* = SL1923



SL1923

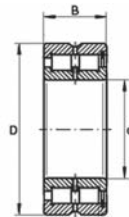
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B				d	D	B	
SL 19 23 05	109,00	25	62	24							
SL 19 23 06	134,50	30	72	27							
SL 19 23 07	125,50	35	80	31							
SL 19 23 08	152,00	40	90	33							
SL 19 23 09	184,50	45	100	36							
SL 19 23 10	223,00	50	110	40							
SL 19 23 11	273,50	55	120	43							
SL 19 23 12	330,00	60	130	46							
SL 19 23 13	404,00	65	140	48							
SL 19 23 14	453,50	70	150	51							
SL 19 23 15	552,00	75	160	55							
SL 19 23 16	643,00	80	170	58							
SL 19 23 17	742,00	85	180	60							
SL 19 23 18	894,00	90	190	64							
SL 19 23 19	1.066,00	95	200	67							
SL 19 23 20	1.389,00	100	215	73							
SL 19 23 22	1.926,00	110	240	80							
SL 19 23 24	2.084,00	120	260	86							
SL 19 23 26	2.604,00	130	280	93							
SL 19 23 28	3.328,00	140	300	102							
SL 19 23 30	4.103,00	150	320	108							
SL 19 23 32	4.921,00	160	340	114							
SL 19 23 34	5.771,00	170	360	120							
SL 19 23 36	6.941,00	180	380	126							
SL 19 23 38	8.043,00	190	400	132							
SL 19 23 40	9.333,00	200	420	138							
SL 19 23 44	14.446,00	220	460	145							
SL 19 23 48	19.014,00	240	500	155							
SL 19 23 52	26.597,00	260	540	165							

# Cuscinetti radiali a rulli cilindrici a pieno riempimento a due corone, cuscinetti d'appoggio

## Cylindrical roller bearings, full complement roller set, double row, semi-locating bearings



Equivalente INA *Equivalent* = SL1850



**SL1850**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B							
SL 18 50 04	132,50	20	42	30							
SL 18 50 05	145,00	25	47	30							
SL 18 50 06	116,50	30	55	34							
SL 18 50 07	135,50	35	62	36							
SL 18 50 08	148,50	40	68	38							
SL 18 50 09	162,50	45	75	40							
SL 18 50 10	183,50	50	80	40							
SL 18 50 11	223,50	55	90	46							
SL 18 50 12	247,50	60	95	46							
SL 18 50 13	269,50	65	100	46							
SL 18 50 14	327,50	70	110	54							
SL 18 50 15	355,00	75	115	54							
SL 18 50 16	413,00	80	125	60							
SL 18 50 17	567,00	85	130	60							
SL 18 50 18	564,00	90	140	67							
SL 18 50 20	728,00	100	150	67							
SL 18 50 22	1.044,00	110	170	80							
SL 18 50 24	1.124,00	120	180	80							
SL 18 50 26	1.302,00	130	200	95							
SL 18 50 28	1.438,00	140	210	95							
SL 18 50 30	1.592,00	150	225	100							
SL 18 50 32	1.865,00	160	240	109							
SL 18 50 34	2.282,00	170	260	122							
SL 18 50 36	2.953,00	180	280	136							
SL 18 50 38	3.341,00	190	290	136							
SL 18 50 40	3.969,00	200	310	150							
SL 18 50 44	5.064,00	220	340	160							
SL 18 50 48	7.439,00	240	360	160							

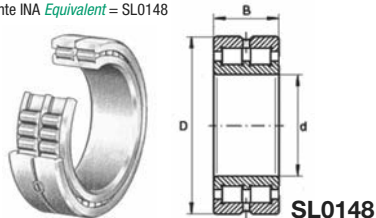
\* Disponibile su richiesta  
*Available under request*



# Cuscinetti radiali a rulli cilindrici a pieno riempimento a due corone, cuscinetti bloccati

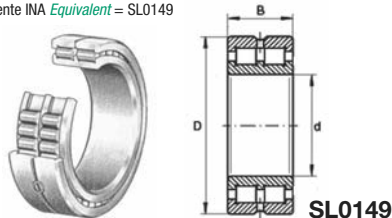
## Cylindrical roller bearings, full complement roller set, double row, locating bearings

Equivalente INA *Equivalent* = SL0148



**SL0148**

Equivalente INA *Equivalent* = SL0149



**SL0149**

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
SL 01 48 30	654,00	150	190	40	
SL 01 48 32	735,00	160	200	40	
SL 01 48 34	898,00	170	215	45	
SL 01 48 36	1.054,00	180	225	45	
SL 01 48 38	1.231,00	190	240	50	
SL 01 48 40	1.423,00	200	250	50	
SL 01 48 44	1.809,00	220	270	50	
SL 01 48 48	2.286,00	240	300	60	
SL 01 48 52	2.823,00	260	320	60	
SL 01 48 56	3.453,00	280	350	69	
SL 01 48 60	4.343,00	300	380	80	
SL 01 48 64	*	320	400	80	
SL 01 48 68	*	340	420	80	
SL 01 48 72	*	360	440	80	
SL 01 48 76	*	380	480	100	
SL 01 48 80	*	400	500	100	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
SL 01 49 12	170,00	60	85	25	
SL 01 49 14	212,00	70	100	30	
SL 01 49 16	262,00	80	110	30	
SL 01 49 18	290,00	90	125	35	
SL 01 49 20	394,50	100	140	40	
SL 01 49 22	413,00	110	150	40	
SL 01 49 24	501,00	120	165	45	
SL 01 49 26	592,00	130	180	50	
SL 01 49 28	644,00	140	190	50	
SL 01 49 30	862,00	150	210	60	
SL 01 49 32	933,00	160	220	60	
SL 01 49 34	1.044,00	170	230	60	
SL 01 49 36	1.645,00	180	250	69	
SL 01 49 38	1.785,00	190	260	69	
SL 01 49 40	1.749,00	200	280	80	
SL 01 49 44	2.022,00	220	300	80	
SL 01 49 48	3.046,00	240	320	80	
SL 01 49 52	4.212,00	260	360	100	
SL 01 49 56	8.135,00	280	380	100	
SL 01 49 60	6.695,00	300	420	118	
SL 01 49 64	*	320	440	118	
SL 01 49 68	*	340	460	118	
SL 01 49 72	*	360	480	118	
SL 01 49 76	*	380	520	140	
SL 01 49 80	*	400	540	140	

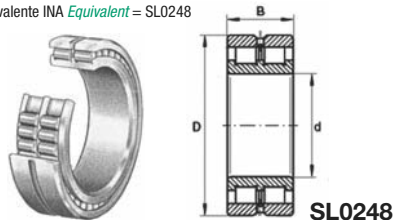
\* Disponibile su richiesta  
*Available under request*

# Cuscinetti radiali a rulli cilindrici a pieno riempimento a due corone, cuscinetti liberi

## Cylindrical roller bearings, full complement roller set, double row, non-locating bearings

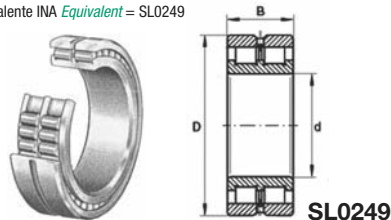


Equivalente INA Equivalent = SL0248



SL0248

Equivalente INA Equivalent = SL0249



SL0249

Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.	Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.
		d	D	B				d	D	B	
SL 02 48 30	606,00	150	190	40		SL 02 49 12	188,50	60	85	25	
SL 02 48 32	681,00	160	200	40		SL 02 49 14	195,50	70	100	30	
SL 02 48 34	829,00	170	215	45		SL 02 49 16	240,50	80	110	30	
SL 02 48 36	977,00	180	225	45		SL 02 49 18	267,00	90	125	35	
SL 02 48 38	1.138,00	190	240	50		SL 02 49 20	363,50	100	140	40	
SL 02 48 40	1.320,00	200	250	50		SL 02 49 22	381,00	110	150	40	
SL 02 48 44	1.673,00	220	270	50		SL 02 49 24	463,00	120	165	45	
SL 02 48 48	2.117,00	240	300	60		SL 02 49 26	547,00	130	180	50	
SL 02 48 52	2.613,00	260	320	60		SL 02 49 28	594,00	140	190	50	
SL 02 48 56	3.194,00	280	350	69		SL 02 49 30	795,00	150	210	60	
SL 02 48 60	4.020,00	300	380	80		SL 02 49 32	864,00	160	220	60	
SL 02 48 64	*	320	400	80		SL 02 49 34	962,00	170	230	60	
SL 02 48 68	*	340	420	80		SL 02 49 36	1.518,00	180	250	69	
SL 02 48 72	*	360	440	80		SL 02 49 38	1.650,00	190	260	69	
SL 02 48 76	*	380	480	100		SL 02 49 40	1.944,00	200	280	80	
SL 02 48 80	*	400	500	100		SL 02 49 44	1.871,00	220	300	80	
						SL 02 49 48	2.818,00	240	320	80	
						SL 02 49 52	3.894,00	260	360	100	
						SL 02 49 56	*	280	380	100	
						SL 02 49 60	6.193,00	300	420	118	
						SL 02 49 64	*	320	440	118	
						SL 02 49 68	*	340	460	118	
						SL 02 49 72	*	360	480	118	
						SL 02 49 76	*	380	520	140	
						SL 02 49 80	*	400	540	140	

\* Disponibile su richiesta  
Available under request

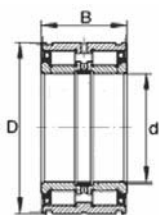


Cuscinetti a rulli cilindrici con gole per anelli elastici a pieno riempimento, a due corone, schermati, cuscinetti bloccati  
*Cylindrical roller bearings with snap ring grooves full complement roller set, double row, sealed, locating bearings*

Equivalente INA *Equivalent* = SL0450..PP



**SL0450..PP**

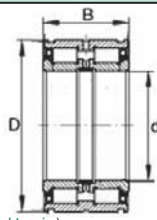


Equivalente INA *Equivalent* = SL04..PP



**SL04..PP**

(serie leggera - *light series*)

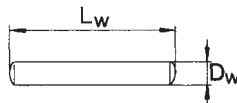


Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
SL 04 50 04 PP	78,80	20	42	30	
SL 04 50 05 PP	86,20	25	47	30	
SL 04 50 06 PP	103,00	30	55	34	
SL 04 50 07 PP	120,00	35	62	36	
SL 04 50 08 PP	132,50	40	68	38	
SL 04 50 09 PP	143,50	45	75	40	
SL 04 50 10 PP	163,00	50	80	40	
SL 04 50 11 PP	190,00	55	90	46	
SL 04 50 12 PP	209,50	60	95	46	
SL 04 50 13 PP	226,00	65	100	46	
SL 04 50 14 PP	286,00	70	110	54	
SL 04 50 15 PP	306,50	75	115	54	
SL 04 50 16 PP	356,50	80	125	60	
SL 04 50 17 PP	394,50	85	130	60	
SL 04 50 18 PP	482,00	90	140	67	
SL 04 50 19 PP	542,00	95	145	67	
SL 04 50 20 PP	621,00	100	150	67	
SL 04 50 22 PP	885,00	110	170	80	
SL 04 50 24 PP	953,00	120	180	80	
SL 04 50 26 PP	1.107,00	130	200	95	
SL 04 50 28 PP	1.225,00	140	210	95	
SL 04 50 30 PP	1.421,00	150	225	100	
SL 04 50 32 PP	1.648,00	160	240	109	
SL 04 50 34 PP	2.036,00	170	260	122	
SL 04 50 36 PP	2.622,00	180	280	136	
SL 04 50 38 PP	3.706,00	190	290	136	
SL 04 50 40 PP	4.387,00	200	310	150	
SL 04 50 44 PP	5.588,00	220	340	160	
SL 04 50 48 PP	6.553,00	240	360	160	
SL 04 50 52 PP	10.719,00	260	400	190	
SL 04 50 56 PP	*	280	420	190	
SL 04 50 60 PP	*	300	460	218	

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	B	
SL 04 130 PP	901,00	130	190	80	
SL 04 140 PP	991,00	140	200	80	
SL 04 150 PP	1.095,00	150	210	80	
SL 04 160 PP	1.166,00	160	220	80	
SL 04 170 PP	1.275,00	170	230	80	
SL 04 180 PP	1.375,00	180	240	80	
SL 04 190 PP	2.069,00	190	260	80	
SL 04 200 PP	1.734,00	200	270	80	
SL 04 220 PP	2.740,00	220	300	95	
SL 04 240 PP	*	240	320	95	
SL 04 260 PP	3.223,00	260	340	95	
SL 04 300 PP	*	300	380	95	

\* Disponibile su richiesta  
*Available under request*

Equivalente INA *Equivalent* = NR..



NR..

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>		Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>		Q.tà min. <i>Q.ty min.</i>
		D <sub>w</sub>	L <sub>w</sub>				D <sub>w</sub>	L <sub>w</sub>	
NR 1 x 5,8	*	1	5,8		NR 3 x 17,8	*	3	17,8	
NR 1 x 6,8	*	1	6,8		NR 3 x 19,8	*	3	19,8	
NR 1 x 7,8	*	1	7,8		NR 3 x 21,8	*	3	21,8	
NR 1 x 9,8	*	1	9,8		NR 3 x 23,8	*	3	23,8	
NR 1,5 x 5,8	*	1,5	5,8		NR 3 x 25,8	*	3	25,8	
NR 1,5 x 6,8	*	1,5	6,8		NR 3 x 27,8	*	3	27,8	
NR 1,5 x 7,8	*	1,5	7,8		NR 3 x 29,8	*	3	29,8	
NR 1,5 x 9,8	*	1,5	9,8		NR 3,5 x 11,8	*	3,5	11,8	
NR 1,5 x 11,8	*	1,5	11,8		NR 3,5 x 13,8	*	3,5	13,8	
NR 1,5 x 13,8	*	1,5	13,8		NR 3,5 x 15,8	*	3,5	15,8	
NR 2 x 6,3	*	2	6,3		NR 3,5 x 17,8	*	3,5	17,8	
NR 2 x 7,8	*	2	7,8		NR 3,5 x 19,8	*	3,5	19,8	
NR 2 x 9,8	*	2	9,8		NR 3,5 x 21,8	*	3,5	21,8	
NR 2 x 11,8	*	2	11,8		NR 3,5 x 23,8	*	3,5	23,8	
NR 2 x 13,8	*	2	13,8		NR 3,5 x 25,8	*	3,5	25,8	
NR 2 x 15,8	*	2	15,8		NR 3,5 x 27,8	*	3,5	27,8	
NR 2 x 17,8	*	2	17,8		NR 3,5 x 29,8	*	3,5	29,8	
NR 2 x 19,8	*	2	19,8		NR 3,5 x 34,8	*	3,5	34,8	
NR 2 x 21,8	*	2	21,8		NR 4 x 11,8	*	4	11,8	
NR 2,5 x 7,8	*	2,5	7,8		NR 4 x 13,8	*	4	13,8	
NR 2,5 x 9,8	*	2,5	9,8		NR 4 x 15,8	*	4	15,8	
NR 2,5 x 11,8	*	2,5	11,8		NR 4 x 17,8	*	4	17,8	
NR 2,5 x 13,8	*	2,5	13,8		NR 4 x 19,8	*	4	19,8	
NR 2,5 x 15,8	*	2,5	15,8		NR 4 x 21,8	*	4	21,8	
NR 2,5 x 17,8	*	2,5	17,8		NR 4 x 23,8	*	4	23,8	
NR 2,5 x 19,8	*	2,5	19,8		NR 4 x 25,8	*	4	25,8	
NR 2,5 x 21,8	*	2,5	21,8		NR 4 x 27,8	*	4	27,8	
NR 2,5 x 23,8	*	2,5	23,8		NR 4 x 29,8	*	4	29,8	
NR 3 x 9,8	*	3	9,8		NR 4 x 34,8	*	4	34,8	
NR 3 x 11,8	*	3	11,8		NR 4 x 39,8	*	4	39,8	
NR 3 x 13,8	*	3	13,8		NR 5 x 15,8	*	5	15,8	
NR 3 x 15,8	*	3	15,8		NR 5 x 19,8	*	5	19,8	

\* Disponibile su richiesta  
*Available under request*



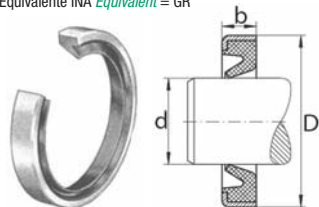
# Anelli di tenuta per bussole di scorrimento

## Seals for sliding ball bushing

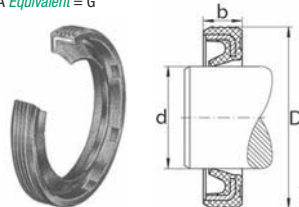


Equivalente INA Equivalent = GR

Equivalente INA Equivalent = G



**VB**  
(Armatura esterna in metallo  
Metal outer O.D.)



**VC-W**

Sigla Designation	€	Dimensioni mm			Q.tà min. Q.ty min.	Sigla Designation	€	Dimensioni mm			Q.tà min. Q.ty min.
		d	D	b				d	D	b	
VB 4x8x2	*	4	8	2		VC-W 7x15x3	*	7	15	3	
VB 5x9x2	*	5	9	2		VC-W 8x12x3	*	8	12	3	
VB 5x10x2	*	5	10	2		VC-W 8x15x3	*	8	15	3	
VB 6x10x2	*	6	10	2		VC-W 9x13x3	*	9	13	3	
VB 6x12x2	*	6	12	2		VC-W 9x16x3	*	9	16	3	
VB 7x11x2	*	7	11	2		VC-W 10x14x3	*	10	14	3	
VB 7x14x2	*	7	14	2		VC-W 10x17x3	*	10	17	3	
VB 8x12x3	*	8	12	3		VC-W 12x16x3	*	12	16	3	
VB 10x14x3	*	10	14	3		VC-W 12x18x3	*	12	18	3	
VB 10x15x3	*	10	15	3		VC-W 12x19x3	*	12	19	3	
VB 12x18x3	*	12	18	3		VC-W 13x19x3	*	13	19	3	
VB 12x19x3	*	12	19	3		VC-W 14x20x3	*	14	20	3	
VB 14x18x3	*	14	18	3		VC-W 14x21x3	*	14	21	3	
VB 14x20x3	*	14	20	3		VC-W 14x22x3	*	14	22	3	
VB 17x23x3	*	17	23	3		VC-W 14x22x4	*	14	22	4	
VB 22x30x4	*	22	30	4		VC-W 15x21x3	*	15	21	3	
VB 25x32x4	*	25	32	4		VC-W 15x23x3	*	15	23	3	
VB 25.4x31.75x3.2	*	25.4	31.75	3.2		VC-W 16x20x2.5	*	16	20	2.5	
VB 27x35x4	*	27	35	4		VC-W 16x22x3	*	16	22	3	
VB 28x35x2.5	*	28	35	2.5		VC-W 16x24x3	*	16	24	3	
VB 28x35x3	*	28	35	3		VC-W 16x25x3	*	16	25	3	
VB 28x35x4	*	28	35	4		VC-W 17x22x5	*	17	22	5	
VB 30x37x4	*	30	37	4		VC-W 17x23x3	*	17	23	3	
VB 32x42x4	*	32	42	4		VC-W 17x25x3	*	17	25	3	
VB 35x41x2.5	*	35	41	2.5		VC-W 18x24x3	*	18	24	3	
VB 40x47x4	*	40	47	4		VC-W 18x24x4	*	18	24	4	
VB 42x52x4	*	42	52	4		VC-W 18x26x4	*	18	26	4	
VB 45x50x3	*	45	50	3		VC-W 19x27x4	*	19	27	4	
VB 45x52x4	*	45	52	4		VC-W 20x26x4	*	20	26	4	
VB 50x58x4	*	50	58	4		VC-W 20x28x4	*	20	28	4	
						VC-W 21x29x4	*	21	29	4	
						VC-W 22x28x4	*	22	28	4	

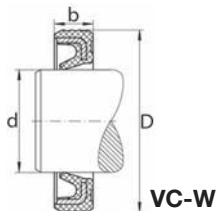
\* Disponibile su richiesta  
Available under request



# Anelli di tenuta per bussole di scorrimento

## Seals for sliding ball bushing

Equivalente INA *Equivalent = G*



Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	b				d	D	b	
VC-W 22x30x4	*	22	30	4		VC-W 55x63x5	*	55	63	5	
VC-W 24x32x4	*	24	32	4		VC-W 70x78x4	*	70	78	4	
VC-W 25x32x4	*	25	32	4		VC-W 70x78x5	*	70	78	5	
VC-W 25x33x4	*	25	33	4							
VC-W 25x34x4	*	25	34	4							
VC-W 25x35x4	*	25	35	4							
VC-W 26x34x4	*	26	34	4							
VC-W 27x35x4	*	27	35	4							
VC-W 28x35x4	*	28	35	4							
VC-W 28x37x4	*	28	37	4							
VC-W 29x38x4	*	29	38	4							
VC-W 30x37x4	*	30	37	4							
VC-W 30x38x4	*	30	38	4							
VC-W 30x40x4	*	30	40	4							
VC-W 31x38x4	*	31	38	4							
VC-W 32x42x4	*	32	42	4							
VC-W 32x45x4	*	32	45	4							
VC-W 33x40x3	*	33	40	3							
VC-W 35x42x4	*	35	42	4							
VC-W 35x45x4	*	35	45	4							
VC-W 37x47x4	*	37	47	4							
VC-W 38x45x4	*	38	45	4							
VC-W 38x48x4	*	38	48	4							
VC-W 40x47x4	*	40	47	4							
VC-W 40x50x4	*	40	50	4							
VC-W 40x52x5	*	40	52	5							
VC-W 42x52x4	*	42	52	4							
VC-W 43x53x4	*	43	53	4							
VC-W 45x52x4	*	45	52	4							
VC-W 45x55x4	*	45	55	4							
VC-W 50x58x4	*	50	58	4							
VC-W 50x62x5	*	50	62	5							

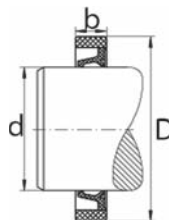
\* Disponibile su richiesta  
*Available under request*

# Anelli di tenuta a due labbri

## Sealing rings double lip



Equivalente INA *Equivalent* = SD



SD

Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d	D	b				d	D	b	
SD 8x15x3	*	8	15	3		SD 40x50x4	*	40	50	4	
SD 10x17x3	*	10	17	3		SD 40x52x5	*	40	52	5	
SD 12x18x3	*	12	18	3		SD 42x52x4	*	42	52	4	
SD 12x19x3	*	12	19	3		SD 45x52x4	*	45	52	4	
SD 14x20x3	*	14	20	3		SD 45x55x4	*	45	55	4	
SD 14x22x3	*	14	22	3		SD 50x58x4	*	50	58	4	
SD 15x21x3	*	15	21	3		SD 50x62x5	*	50	62	5	
SD 15x23x3	*	15	23	3							
SD 16x22x3	*	16	22	3							
SD 16x24x3	*	16	24	3							
SD 17x23x3	*	17	23	3							
SD 17x25x3	*	17	25	3							
SD 18x24x3	*	18	24	3							
SD 18x26x4	*	18	26	4							
SD 19x27x4	*	19	27	4							
SD 20x26x4	*	20	26	4							
SD 20x28x4	*	20	28	4							
SD 22x28x4	*	22	28	4							
SD 22x30x4	*	22	30	4							
SD 25x32x4	*	25	32	4							
SD 25x33x4	*	25	33	4							
SD 25x35x4	*	25	35	4							
SD 26x34x4	*	26	34	4							
SD 28x35x4	*	28	35	4							
SD 30x37x4	*	30	37	4							
SD 30x40x4	*	30	40	4							
SD 32x42x4	*	32	42	4							
SD 35x42x4	*	35	42	4							
SD 35x45x4	*	35	45	4							
SD 37x47x4	*	37	47	4							
SD 38x48x4	*	38	48	4							
SD 40x47x4	*	40	47	4							

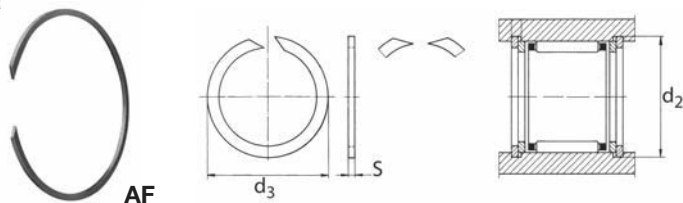
\* Disponibile su richiesta  
*Available under request*



# Anelli elastici per fori

## Elastic rings for bores

Equivalente INA *Equivalent = BR*



Sigla Designation	€	Dimensioni mm			Q.tà min. Q.ty min.	Sigla Designation	€	Dimensioni mm			Q.tà min. Q.ty min.
		d <sub>2</sub>	d <sub>3</sub>	S				d <sub>2</sub>	d <sub>3</sub>	S	
AF 7	*	7.4	7.5	0.8		AF 40	*	41.2	41.8	1.5	
AF 8	*	8.4	8.5	0.8		AF 42	*	43.2	43.8	1.5	
AF 9	*	9.4	9.5	0.8		AF 43	*	44.2	44.8	1.5	
AF 10	*	10.5	10.6	0.8		AF 44	*	45.2	21.5	1.5	
AF 11	*	11.5	11.6	1		AF 45	*	46.2	46.8	1.5	
AF 12	*	12.5	12.7	1		AF 46	*	47.2	47.8	1.5	
AF 13	*	13.6	13.8	1		AF 47	*	48.2	48.8	1.5	
AF 14	*	14.6	14.8	1		AF 48	*	49.2	49.8	1.5	
AF 15	*	15.6	15.8	1		AF 50	*	51.2	51.8	1.5	
AF 16	*	16.6	16.8	1.2		AF 52	*	53.5	54.3	1.5	
AF 17	*	17.6	17.8	1.2		AF 53	*	54.5	55.3	1.5	
AF 18	*	18.6	18.9	1.2		AF 55	*	56.5	57.3	1.5	
AF 19	*	19.6	19.9	1.2		AF 57	*	58.5	59.3	1.5	
AF 20	*	20.6	21	1.2		AF 58	*	59.5	60.3	1.5	
AF 21	*	21.6	22	1.2		AF 60	*	61.5	62.3	1.5	
AF 22	*	22.6	23	1.2		AF 62	*	63.5	64.3	1.5	
AF 23	*	23.6	24	1.2		AF 63	*	64.5	65.3	1.5	
AF 24	*	24.8	25.2	1.2		AF 65	*	66.5	67.3	1.5	
AF 25	*	25.8	26.2	1.2		AF 68	*	69.5	70.3	1.5	
AF 26	*	26.8	27.2	1.2		AF 70	*	71.5	72.3	1.5	
AF 27	*	27.8	28.2	1.2		AF 72	*	73.8	74.6	2	
AF 28	*	28.8	29.2	1.2		AF 73	*	74.8	75.6	2	
AF 29	*	29.8	30.2	1.2		AF 74	*	75.8	76.6	2	
AF 30	*	31	31.4	1.5		AF 76	*	77.8	78.6	2	
AF 31	*	32	32.4	1.5		AF 78	*	79.8	80.6	2	
AF 32	*	33	33.4	1.5		AF 79	*	80.8	81.6	2	
AF 33	*	34	34.4	1.5		AF 80	*	81.8	82.6	2	
AF 34	*	35	35.4	1.5		AF 81	*	82.8	83.6	2	
AF 35	*	36	36.4	1.5		AF 82	*	83.8	84.6	2	
AF 37	*	38.2	38.8	1.5		AF 83	*	84.8	85.6	2	
AF 38	*	39.2	39.8	1.5		AF 86	*	88.6	87.8	2	
AF 39	*	40.2	40.8	1.5		AF 88	*	90	91	2.5	

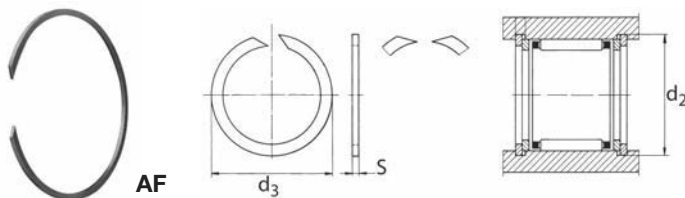
\* Disponibile su richiesta  
Available under request

# Anelli elastici per fori

## Elastic rings for bores



Equivalente INA *Equivalent* = BR



Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d <sub>2</sub>	d <sub>3</sub>	S				d <sub>2</sub>	d <sub>3</sub>	S	
AF 90	*	92	93	2.5		AF 165	*	167.6	169.3	2.5	
AF 92	*	94	95	2.5		AF 170	*	172.6	174.4	2.5	
AF 93	*	95	96	2.5		AF 173	*	175.6	177.4	2.5	
AF 95	*	97	98	2.5		AF 175	*	177.6	179.4	2.5	
AF 97	*	99	100	2.5		AF 180	*	182.6	184.5	2.5	
AF 98	*	100	101	2.5		AF 183	*	185.6	187.5	2.5	
AF 100	*	102.3	103.3	2.5		AF 190	*	193	194.9	3	
AF 102	*	104.3	105.3	2.5		AF 195	*	198	199.9	3	
AF 103	*	105.3	106.3	2.5		AF 200	*	203	205	3	
AF 105	*	107.3	108.3	2.5		AF 205	*	208	210	3	
AF 107	*	109.3	110.3	2.5		AF 220	*	223	225.2	3	
AF 108	*	110.3	111.3	2.5		AF 230	*	233	235.3	3	
AF 110	*	112.3	113.4	2.5		AF 250	*	253	255.5	3	
AF 112	*	114.3	115.4	2.5		AF 270	*	275	277.7	4	
AF 113	*	115.3	116.4	2.5		AF 280	*	285	287.8	4	
AF 115	*	117.3	118.4	2.5		AF 300	*	305	307.9	4	
AF 117	*	119.3	120.4	2.5		AF 320	*	325	328.2	4	
AF 118	*	120.3	121.4	2.5		AF 325	*	330	333.2	4	
AF 120	*	122.3	123.6	2.5		AF 355	*	360	363.4	4	
AF 123	*	125.3	126.6	2.5		AF 375	*	380	383.6	4	
AF 125	*	127.3	128.6	2.5		AF 385	*	390	393.7	4	
AF 127	*	129.3	130.6	2.5		AF 395	*	400	403.8	4	
AF 130	*	132.3	133.7	2.5		AF 400	*	405	408.9	4	
AF 133	*	135.3	136.7	2.5		AF 420	*	425	429.1	4	
AF 135	*	137.3	138.7	2.5		AF 440	*	445	449.3	4	
AF 137	*	139.3	140.7	2.5							
AF 140	*	142.6	144.1	2.5							
AF 143	*	145.6	147.1	2.5							
AF 150	*	152.6	154.2	2.5							
AF 153	*	155.6	157.3	2.5							
AF 160	*	162.6	164.3	2.5							
AF 163	*	165.6	167.3	2.5							

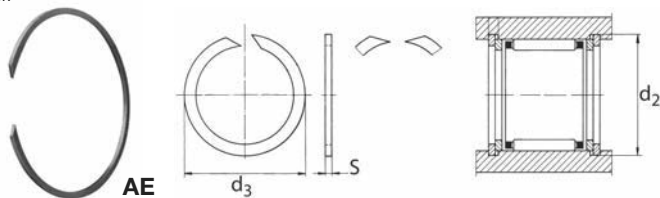
\* Disponibile su richiesta  
*Available under request*



# Anelli elastici per alberi

## Elastic rings for shafts

Equivalente INA *Equivalent = WR*



Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm			Q.tà min. <i>Q.ty min.</i>
		d <sub>2</sub>	d <sub>3</sub>	S				d <sub>2</sub>	d <sub>3</sub>	S	
AE 4	*	3.7	3.8	0.5		AE 45	*	42.8	43.5	1.5	
AE 5	*	4.7	4.8	0.5		AE 47	*	44.8	45.5	1.5	
AE 6	*	5.6	5.7	0.7		AE 50	*	47.8	48.5	1.5	
AE 7	*	6.5	6.7	0.7		AE 52	*	49.8	50.5	1.5	
AE 8	*	7.4	7.6	1		AE 55	*	52.6	53.5	1.5	
AE 9	*	8.4	8.6	1		AE 58	*	55.6	56.5	1.5	
AE 10	*	9.4	9.6	1		AE 60	*	57.6	58.5	1.5	
AE 11	*	10.2	10.5	1		AE 62	*	59.6	60.5	1.5	
AE 12	*	11.2	11.5	1		AE 63	*	60.6	61.5	1.5	
AE 14	*	13.1	13.5	1.2		AE 65	*	62.6	63.5	1.5	
AE 15	*	14	14.4	1.2		AE 68	*	65.4	66.2	2	
AE 16	*	15	15.4	1.2		AE 70	*	67.4	68.2	2	
AE 17	*	16	16.4	1.2		AE 72	*	69.4	70.2	2	
AE 18	*	17	17.4	1.2		AE 73	*	70.4	71.2	2	
AE 19	*	17.9	18.4	1.2		AE 75	*	72.4	73.2	2	
AE 20	*	18.7	19.2	1.2		AE 80	*	77.4	78.2	2	
AE 21	*	19.7	20.2	1.2		AE 85	*	82	83	2.5	
AE 22	*	20.7	21.2	1.2		AE 90	*	87	88	2.5	
AE 24	*	22.5	23	1.2		AE 95	*	92	93	2.5	
AE 25	*	23.5	24	1.2		AE 100	*	97	98	2.5	
AE 26	*	24.5	25	1.2		AE 105	*	101.7	102.7	2.5	
AE 28	*	26.5	27	1.5		AE 110	*	106.6	107.7	2.5	
AE 29	*	27.5	28	1.5		AE 115	*	111.6	112.7	2.5	
AE 30	*	28.5	29	1.5		AE 120	*	116.5	117.7	2.5	
AE 32	*	30.2	30.8	1.5		AE 125	*	121.4	122.7	2.5	
AE 35	*	33.2	33.8	1.5		AE 130	*	126.3	127.7	2.5	
AE 37	*	35.2	35.8	1.5		AE 135	*	131	132.4	2.5	
AE 38	*	36.2	36.8	1.5		AE 140	*	135.9	137.4	2.5	
AE 40	*	37.8	38.5	1.5		AE 145	*	140.9	142.4	2.5	
AE 42	*	39.8	40.5	1.5		AE 150	*	145.8	147.4	2.5	
AE 43	*	40.8	41.5	1.5		AE 155	*	150.8	152.4	2.5	
AE 44	*	41.8	42.5	1.5		AE 160	*	155.7	157.4	2.5	

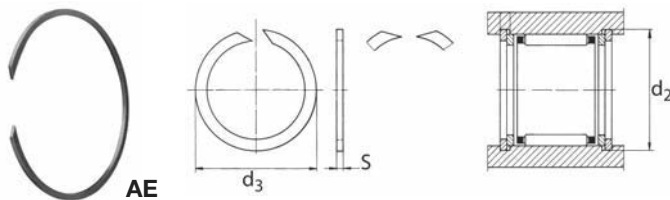
\* Disponibile su richiesta  
Available under request

# Anelli elastici per alberi

## Elastic rings for shafts



Equivalente INA *Equivalent* = WR



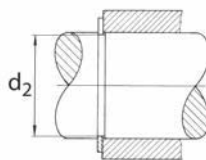
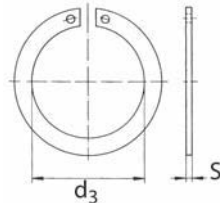
Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d <sub>2</sub>	d <sub>3</sub>	S				d <sub>2</sub>	d <sub>3</sub>	S	
AE 165	*	160.7	162.4	2.5		AE 460	*	449.5	454	4.5	
AE 170	*	165.6	167.4	2.5							
AE 175	*	170.6	172.4	2.5							
AE 180	*	175.2	177	3							
AE 185	*	180.1	182	3							
AE 190	*	185.1	187	3							
AE 195	*	190.1	192	3							
AE 200	*	195	197	3							
AE 210	*	204.9	207	3							
AE 220	*	214.8	217	3							
AE 225	*	219.8	222	3							
AE 230	*	224.7	227	3							
AE 240	*	234.6	237	3							
AE 260	*	252.4	255	4							
AE 265	*	257.4	260	4							
AE 270	*	262.3	265	4							
AE 280	*	272.2	275	4							
AE 285	*	277.2	280	4							
AE 290	*	282.1	285	4							
AE 300	*	292.1	295	4							
AE 305	*	297.1	300	4							
AE 310	*	302	305	4							
AE 320	*	311.9	315	4							
AE 330	*	321.7	325	4							
AE 340	*	331.6	335	4							
AE 350	*	341.5	345	4							
AE 360	*	351.4	355	4							
AE 370	*	361.4	365	4							
AE 380	*	371.2	375	4							
AE 390	*	381.2	395	4							
AE 400	*	391.2	395	4							
AE 420	*	410	414	4.5							

\* Disponibile su richiesta  
*Available under request*

Equivalente INA *Equivalent* = WRE



AES

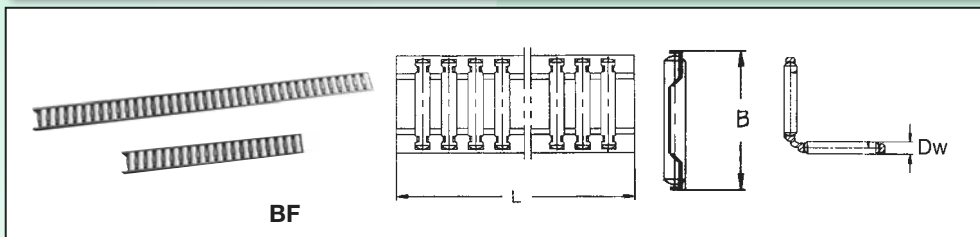


Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>	Sigla <i>Designation</i>	€	Dimensioni mm <i>Dimensions mm</i>			Q.tà min. <i>Q.ty min.</i>
		d <sub>2</sub>	d <sub>3</sub>	S				d <sub>2</sub>	d <sub>3</sub>	S	
AES 42	*	39.3	39.8	1.5		AES 310	*	298	304	4	
AES 47	*	44.3	44.8	1.5		AES 320	*	308	314	4	
AES 55	*	51.8	52.8	1.5		AES 340	*	327.5	334	4	
AES 62	*	58.8	59.8	1.5		AES 360	*	347	354	4	
AES 68	*	64.6	65.8	2		AES 380	*	365	374	4	
AES 75	*	71.6	72.8	2		AES 400	*	385	394	4	
AES 80	*	76.6	77.8	2		AES 420	*	405	413	4.5	
AES 90	*	86.3	87.8	2.5		AES 460	*	442	453	4.5	
AES 95	*	91.3	92.8	2.5							
AES 100	*	95.9	97.4	2.5							
AES 110	*	105.4	107.1	2.5							
AES 115	*	110.4	112.1	2.5							
AES 125	*	120.1	122.1	2.5							
AES 130	*	124.9	127.1	2.5							
AES 140	*	134.8	137	2.5							
AES 145	*	139.8	142	2.5							
AES 150	*	144.4	147	2.5							
AES 160	*	154.1	157	2.5							
AES 170	*	163.4	167	2.5							
AES 180	*	173	176	3							
AES 190	*	183	186	3							
AES 200	*	192.5	196	3							
AES 210	*	202	206	3							
AES 220	*	212	216	3							
AES 225	*	217	221	3							
AES 230	*	222	226	3							
AES 240	*	231.5	236	3							
AES 260	*	249.5	254	4							
AES 270	*	259	264	4							
AES 280	*	269	274	4							
AES 290	*	279	284	4							
AES 300	*	288.5	294	4							

\* Disponibile su richiesta  
*Available under request*

# Gabbie lineari a rullini

## Needle roller and flat cage assemblies



BF

Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.	Sigla Designation	€	Dimensioni mm Dimensions mm			Q.tà min. Q.ty min.
		B	L	Dw				B	L	Dw	
BF 3020	*	20	1000	3							
BF 5015	*	15	1000	5							
BF 5023	*	23	1000	5							
BF 5032	*	32	1000	5							
BF 7028	*	28	1000	7							
BF 7035	*	35	1000	7							
BF 12022	*	22	1000	12							
BF 12040	*	40	1000	12							

\* Disponibile su richiesta  
Available under request

### Introduzione

Le forniture dei prodotti, presenti in questo documento, sono regolate dalle seguenti condizioni generali di vendita. Sarà necessario un preventivo accordo scritto con il Fornitore per ulteriori ed eventuali clausole e/o condizioni particolari richieste dai Clienti. Sono da ritenersi inaccettabili, tutte le clausole e/o condizioni contrattuali in contrasto con quanto sotto riportato.

### 1) Offerte ed ordini

Le offerte mantengono una validità di 30 giorni dalla data di comunicazione al Cliente. Decorso questo termine senza avere ricevuto l'ordine, il Fornitore avrà la facoltà di accettare o non accettare l'ordinazione tardiva. Tutti gli ordini dovranno indicare sempre la tipologia del prodotto, la quantità e la data di consegna richiesta. Il Fornitore si riserva il diritto di fornire eventualmente altri prodotti aventi le stesse caratteristiche merceologiche di quelli ordinati. Gli ordini sono da intendersi impegnativi per il Cliente, anche senza la forma scritta. Il Fornitore avrà il medesimo obbligo al momento dell'invio della conferma d'ordine (escluse le eccezioni ai punti due e cinque).

### 2) Prezzi

I prezzi validi di riferimento sono quelli indicati nell'offerta e/o nell'accettazione dell'ordine e sono riferiti solo a prodotti standard. I prezzi relativi a tipologie speciali di prodotto e/o non standard ovvero a richiesta specifica del Cliente, saranno concordati per ogni singolo ordine di volta in volta tra le parti. Il Fornitore si riserva il diritto, per esigenze produttive e/o d'approvvigionamento, di fornire una quantità di prodotto con variazione pari a  $\pm 15\%$  rispetto alla quantità concordata con il Cliente. Nel corso delle diverse forniture qualora dovessero verificarsi degli aumenti causati da variazioni quali: aumento delle materie prime, del costo della mano d'opera, del costo dei trasporti, delle imposte e dazi, ed anche altri aumenti che

### Introduction

*The supply of the products covered by this document is governed by the following general conditions of sale. Any additional clauses and/or special conditions requested by Customers shall only be valid in case of prior written agreement with the Supplier. All contract clauses and/or conditions in conflict with the terms set out below shall be considered unacceptable.*

### 1) Offers and orders

*Offers are valid for 30 days from the date of communication to the Customer. If no order is received within this period, the Supplier shall have the option of accepting or rejecting late orders, at its own discretion. All orders must always state the type of product, the quantity and the delivery date required. The Supplier reserves the right to supply different products with the same characteristics as those ordered.*

*Orders are binding on the Customer even if not in writing. Orders shall also be binding on the Supplier once the confirmation of order has been dispatched (with the exceptions in points two and five below).*

### 2) Prices

*The valid reference prices are those stated in the offer and/or the order acceptance, and refer to standard products only. The prices relating to special and/or non-standard product types, or to specific requests from the Customer, shall be agreed between the parties for each order on a one-off basis. Depending on production and/or procurement requirements, the Supplier reserves the right to supply a quantity of product with variation of  $\pm 15\%$  from the quantity agreed with the Customer. Over a series of shipments, if increases occur due to variations such as increases in raw material costs, in the cost of labour, freight costs, taxes and duties, or any other increases which lead to increases in the cost of the product for the Supplier, the latter may*

comportino aumenti del prodotto per il Fornitore, questo potrà a proprio insindacabile giudizio adeguare i prezzi, comunicando l'entità di tale aumento al Cliente. Le quotazioni dei prodotti, sono da intendersi franco sede del Fornitore, escluso imballo ed IVA.

### **3) Consegna**

La consegna, è da intendersi terminata ed eseguita nel momento in cui i prodotti sono messi a disposizione del Cliente al banco, presso la sede del Fornitore o con la consegna al vettore/spedizioniere. Se il Cliente non ha dato precise istruzioni sulle modalità di spedizione dei prodotti o non ha provveduto in modo celere al loro ritiro, il Fornitore potrà conservarli presso i propri locali; a rischio e pericolo ed a spese del Cliente, senza alcuna responsabilità per la loro conservazione o spedirli con mezzi propri o corrieri di propria scelta.

### **4) Termini di consegna**

I termini di consegna indicati dal Fornitore, sono indicativi e non hanno carattere essenziale e perentorio. La loro inosservanza non costituirà in alcun caso motivo di risoluzione del contratto e/o risarcimento d'alcun danno di qualsiasi natura. I termini saranno rispettati per quanto possibile, poiché la consegna dipende da soggetti terzi rispetto al Fornitore.

Il Fornitore potrà risolvere il contratto e/o modificare i termini di consegna, senza che ciò possa costituire in alcun modo motivo di risarcimento e/o pagamento d'indennità per eventuali danni subiti dai Clienti, nei seguenti casi:

- I. Inadempienza dei pagamenti e/o pendenze debitorie da parte del Cliente.
- II. Difficoltà in fase d'approvvigionamento dei prodotti.
- III. Modifiche alle condizioni contrattuali dopo il ricevimento dell'ordine.
- IV. Eventi di causa e/o forza maggiore, non imputabili alla volontà del Fornitore, quali

*adjust the prices accordingly, at its own absolute discretion, informing the Customer of the amount of any such increase. Quotations for products are ex-works Supplier's factory, not including packaging or VAT.*

### **3) Delivery**

*Delivery is considered to have taken place when the products are placed on the Customer's disposal on the counter on the Supplier's premises, or on consignment to the carrier/forwarding agent. If the Customer has not given clear instructions concerning the procedures for shipment of the products, or has not arranged for their prompt collection, the Supplier may store them on its own premises, at the Customer's risk and expense, without any responsibility for their conservation, or may ship them using its own vehicles or carriers of its choice.*

### **4) Delivery terms**

*The delivery terms stated by the Supplier are guideline and not binding. In no case shall failure to meet them constitute grounds for termination of the contract and/or for compensation for any damage of any kind. Delivery terms shall be complied with as far as possible, since delivery depends on third parties over which the Supplier has no control.*

*The Supplier may terminate the contract and/or modify the delivery terms, without this constituting grounds for compensation and/or payment of damages for any costs or losses incurred by the Customer, in the following cases:*

- I. Failure to meet payment terms and/or outstanding debts on the part of the Customer.*
- II. Difficulty in procurement of the products.*
- III. Modifications of the contract conditions after receipt of the order.*
- IV. Circumstances of force majeure, beyond the Supplier's control, such as, for*

a titolo di esempio scioperi di vario genere, calamità naturali, epidemie, sommosse, tumulti, guerre, blocchi doganali che possono gravare sul Fornitore stesso o sulle sue fonti d'approvvigionamento.

- V. Inesattezze o ritardi da parte del Cliente nella conferma dell'ordine.

Per i fatti riportati ai punti I-III-V il Fornitore potrà chiedere il risarcimento dei danni al Cliente.

#### 5) Spedizioni

Le spedizioni sono sempre eseguite per conto dei Clienti, pertanto a loro rischio e pericolo, anche nei casi di trasporti "franco destino". Nel caso d'eventuali manomissioni o ammanchi imputabili espressamente al vettore/spedizionario, sarà obbligo del Cliente stesso di presentare reclamo direttamente al vettore/spedizionario. Il Fornitore, potrà accettare reclami per eventuali differenze, qualitative e quantitative dei prodotti, solamente se comunicate da parte del Cliente, in forma scritta entro otto giorni dalla data di ricevimento dei prodotti, a pena di decadenza da ogni e qualsiasi reclamo. In mancanza d'istruzioni dettagliate da parte del Cliente, il Fornitore non sarà responsabile, sia per la scelta dei mezzi di trasporto, sia per le tariffe applicate dai vettori/spedizionieri. Inoltre qualora non sussista accordo tra le parti, le spese di spedizione sono da intendersi a cura ed a carico del Cliente. Nei casi in cui anche solo una parte delle spese di trasporto sia a carico del Fornitore, quest'ultimo potrà servirsi dei mezzi più economici a propria insindacabile scelta. Gli ulteriori aggravii e oneri aggiuntivi nei costi di trasporto saranno ad esclusivo carico del Cliente. Per errori di consegna causati dal Cliente, con conseguente reso dei prodotti, il Fornitore avrà il diritto di addebitare al Cliente le spese di spedizione se dovute, ed il 15% del prezzo dei prodotti.

#### 6) Pagamenti

Il Cliente non potrà sospendere ovvero ritardare i pagamenti della merce per nessun motivo

*example, strikes of various kinds, natural disasters, epidemics, uprisings, riots, wars or customs blockades which may affect the Supplier itself or its sources of supply.*

- V. *Inaccuracies or delays on the part of the Customer in confirming the order.*

*In the circumstances listed in points I-III-V, the Supplier may request compensation from the Customer.*

#### 5) Shipments

*Shipments are always made on the Customer's behalf and therefore at its risk, even in case of delivery "freight prepaid". In case of tampering or missing items for which the carrier/forwarding agent is specifically to blame, the Customer shall be responsible for placing a claim directly with the carrier/forwarding agent. The Supplier will only be able to accept claims for any differences in the quality or quantity of the products if submitted by the Customer, in writing within eight days after the date of receipt of the products; otherwise, all claims shall become null and void. In the absence of detailed instructions from the Customer, the Supplier shall not be responsible for the choice of means of transport or for the rates charged by the carriers/forwarding agents. Moreover, in the absence of agreement between the parties, the shipment expenses shall be payable by the Customer. If even just a part of the freight costs is to be met by the Supplier, the latter shall be permitted to make use of the most economical means of transport, at its own absolute discretion. Any additional freight costs and/or charges shall be solely for the Customer's account. For errors in delivery caused by the Customer which result in return of the products, the Supplier shall be entitled to charge the Customer the shipment expenses, if due, plus 15% of the price of the products.*

#### 6) Payment

*The Customer shall not be permitted to suspend or delay payments for goods for any reason,*

e dovranno essere eseguiti al domicilio del Fornitore, come indicato nei documenti che accompagnano la spedizione dei prodotti. Non saranno considerati validi pagamenti effettuati in luoghi diversi, salvo che non siano stati concordati preventivamente con il Fornitore.

Decorsi i termini indicati, il Fornitore avrà diritto al pagamento, oltre alla somma capitale dovuta per il prezzo della merce, anche agli interessi di mora pari all'Euribor aumentato del 3%, avvalendosi del diritto d'agire anche giudizialmente nei confronti del Cliente moroso.

Il Fornitore ha la facoltà di sospendere temporaneamente la fabbricazione o la fornitura dei prodotti ancora in ordine; inoltre potrà annullare il residuo dell'ordine stesso, comunicandolo al Cliente, che non avrà diritto ad indennizzi d'alcun genere. Il Fornitore avrà il diritto di ottenere il pagamento delle somme dovutegli per le consegne già eseguite. Per ogni contestazione inerente a prodotti in corso di fabbricazione, pronti per essere spediti o già in possesso del Cliente, quest'ultimo non è liberato dai propri obblighi e dovrà provvedere al pagamento, alla data stabilita, di quanto dovuto al Fornitore.

## **7) Garanzia**

La garanzia s'estende per un anno dalla data di consegna dei prodotti; è limitata esclusivamente alla riparazione o alla sostituzione gratuita dei pezzi riconosciuti non conformi rispetto alle specifiche riportate sui cataloghi tecnici.

La responsabilità della garanzia del Fornitore decade per tutti i prodotti che hanno subito manomissioni, sovraccarichi d'esercizio, lubrificazioni, riparazioni errate o errori in fase di montaggio, quindi per problemi causati da un utilizzo improprio del Cliente e pertanto non più restituibili al Fornitore.

Il Cliente inoltre è tenuto ad avvertire il Fornitore per eventuali difetti, vizi o non conformità dei prodotti entro otto giorni dal ricevimento degli stessi (in forma scritta), pena la decadenza della garanzia. Non saranno accettati reclami trascorsi

*and payments must be made to the Supplier's domicile, as stated in the documents which accompany the shipment of the products. Payments made to other places shall not be considered valid unless agreed in advance with the Supplier.*

*Once the specified payment terms have passed, the Supplier shall be entitled to payment, not only of the capital sum due for the price of the goods, but also of interest at the Euribor rate increased by 3%, and retains the right to take legal action against any Customer late with payments.*

*The Supplier shall be entitled to temporarily suspend the manufacture or supply of any products still on order; it may also cancel the remainder of the order, informing the Customer, which shall not be entitled to compensation of any kind. The Supplier shall be entitled to obtain payment of the sums due to it for the deliveries already made. In case of any disputes concerning products being manufactured, ready for shipment or already in the Customer's possession, the latter shall not be released from its obligations and must pay the amounts due to the Supplier at the date set.*

## **7) Warranty**

*The warranty is valid for one year from the date of delivery of the products; it is limited solely to the repair or replacement, free of charge, of pieces acknowledged not to comply with the specifications stated in the technical catalogues.*

*The Supplier's warranty ceases to apply to all products which have been tampered with, operated with overloads, improperly lubricated or repaired, or incorrectly assembled; in other words, for all problems caused by improper use by the Customer, for which the Supplier is not responsible.*

*The Customer is also obliged to inform the Supplier about any defects, faults or non-conformity of the products within eight days after the date of receipt of the same (in writing); otherwise, the warranty shall become null and void. No claims shall be accepted once the above terms have expired.*

i termini sopra citati.

I reclami non possono causare l'annullamento o la riduzione degli ordini da parte del Cliente, né la corresponsione d'indennizzi e/o risarcimenti da parte del Fornitore. Non si accettano ritorni di prodotti, se non preventivamente autorizzati. Non si accettano ritorni di forniture, per prodotti resi non integri o manomessi o espressamente costruiti, lavorati e/o modificati per il Cliente. Il materiale non conforme dovrà essere reso previa autorizzazione del Fornitore, esente da ogni spesa (franco destino). Sul documento di reso dovranno essere riportati gli estremi del DDT o fattura di vendita relativa (Data e n° - obbligatorio per legge). Il Fornitore non assume alcuna responsabilità per incidenti che possano avvenire nell'utilizzo dei propri prodotti.

#### **8) Prodotti speciali e/o a disegno**

Il Fornitore qualora accetti commesse di prodotti speciali o su particolari specifiche tecniche del Cliente, dovrà sempre ricevere un disegno tecnico dettagliato prima di procedere alla produzione. Dopo aver accettato l'ordine e previa consegna del disegno tecnico, il Fornitore invierà al Cliente una campionatura del prodotto. Il Cliente, dopo averne preso visione, dovrà inviare conferma scritta al Fornitore per l'esecuzione dell'intera fornitura. Nel caso in cui il Cliente per motivi non imputabili al Fornitore rifiutasse in modo parziale o completo la fornitura, il Fornitore potrà avvalersi del diritto di addebitare le spese per l'esecuzione della campionatura, oltre al mancato guadagno e per gli eventuali danni subiti, trattandosi di prodotti non commercializzabili. Il Fornitore provvederà al ritiro ed alla sostituzione del materiale non conforme, nel caso in cui il Cliente dimostrasse palesemente che le caratteristiche del prodotto fornito non corrispondono a quelle dei campioni consegnati, senza alcuna responsabilità da parte del Fornitore e con rinuncia del Cliente ad ogni richiesta di risarcimento a qualsiasi titolo richiesto.

*Claims shall not constitute grounds for the cancellation or reduction of orders on the part of the Customer, or the payment of damages and/or compensation on the part of the Supplier. No returns of products are accepted unless authorised in advance. No returns are accepted of products which are not intact, have been tampered with, or have been specifically built, processed and/or modified for the Customer. Non-conforming material must be returned, further to the Supplier's authorisation, with all expenses paid (freight prepaid). The return document must contain the details of the original transport document or invoice (date and number - compulsory by law). The Supplier does not accept any responsibility for accidents occurring during the use of its products.*

#### **8) Special and/or custom-made products**

*If the Supplier accepts orders for special products or those made to the Customer's own technical specifications, it must always receive a detailed technical drawing before proceeding with production. After accepting the order and further to consignment of the technical drawing, the Supplier shall send the Customer a sample lot of the product. After viewing the sample lot, the Customer shall send the Supplier written confirmation for production of the entire ordered amount. If, due to circumstances beyond the Supplier's control, the Customer refuses delivery of all or part of the goods, the Supplier shall be entitled to reimbursement of the expenses for production of the sample lot, and for compensation for loss of earnings and for any damages incurred, since these products are not marketable. The Supplier shall collect and replace non-conforming material if the Customer clearly demonstrates that the characteristics of the product supplied differ from those of the samples consigned, without any liability on the part of the Supplier and with waiver on the part of the Customer of any request for compensation on any grounds.*

**9) Validità e deroghe delle Condizioni Generali di Vendita**

Ogni e qualsiasi deroga o modifica alle sopra indicate condizioni generali di vendita, dovrà essere convenuta in forma scritta tra le parti.

**10) Domicilio del Cliente**

Il domicilio del Cliente è da intendersi quello ove il Cliente ha la propria sede legale, salvo diversa comunicazione scritta. Il Fornitore pertanto indirizzerà tutte le comunicazioni e le spedizioni dei prodotti in quella sede.

**11) Foro competente**

Per ogni e qualsiasi controversia sarà competente il foro dove si trova la sede legale del Fornitore.

**9) *Validity and waivers of the General Conditions of Sale***

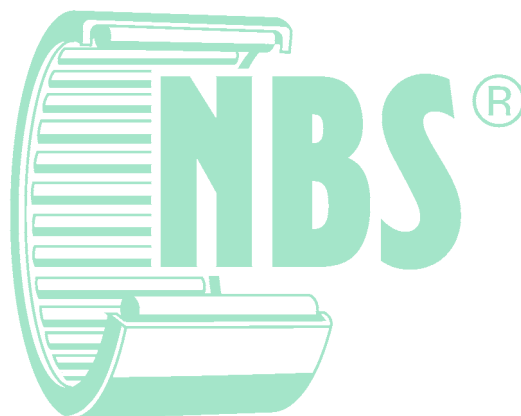
*Any waivers or modifications of the aforesaid general conditions of sale must be agreed between the parties in writing.*

**10) *Customer's Domicile***

*The Customer shall be domiciled in the place where it has its registered office, unless otherwise notified in writing. The Supplier shall therefore send all communications and shipments of products to the relevant address.*

**11) *Legal jurisdiction***

*The law court of the Supplier's registered office shall have jurisdiction over all disputes of any kind.*

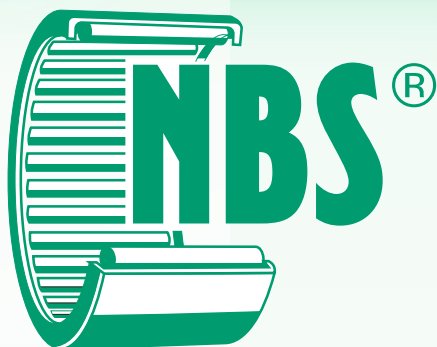






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