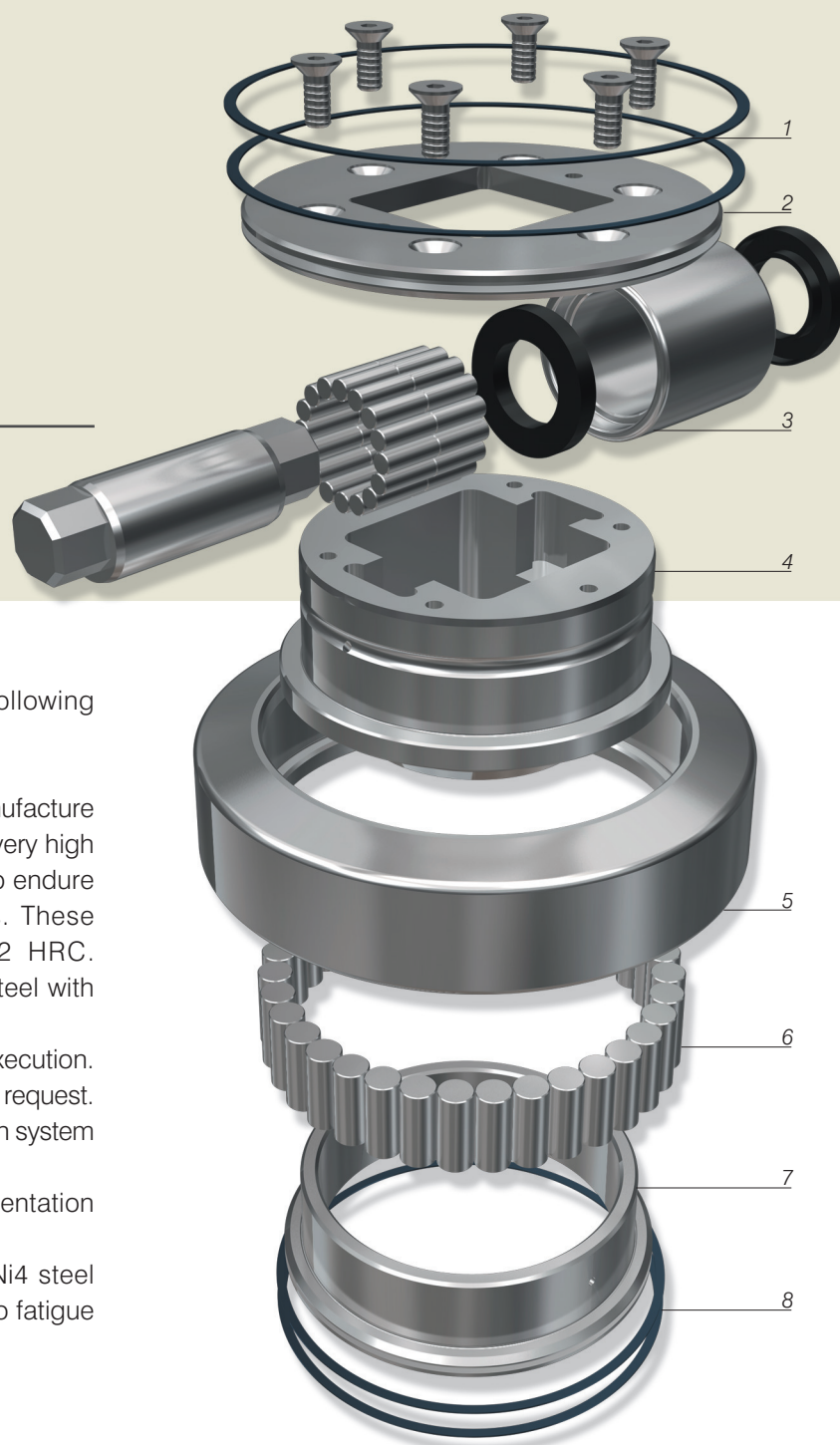


# "JUMBO" ADJUSTABLE COMBINED BEARINGS

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1. FEY SEAL RING
  2. SUPPORT THRUST RING
  3. AXIAL PART
  4. PIVOT
  5. OUTER RING
  6. CYLINDRICAL ROLLERS
  7. INNER RING
  8. FEY SEAL RING
- 



The "Jumbo" adjustable bearings have the following features:

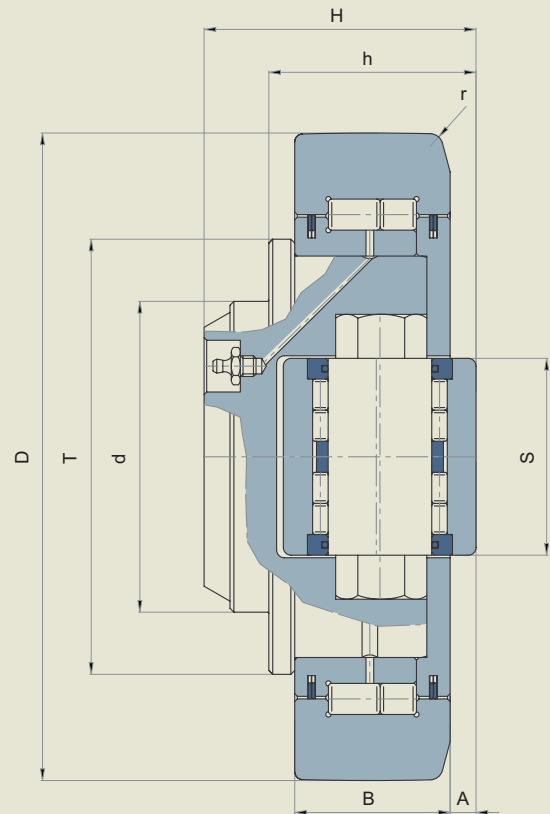
- Outer ring, axial little roll and little pin are manufacture in 16CrNi4 steel . This kind of material has a very high core resistance and is particularly suitable to endure shocks and to support the applied loads. These components reach a hardness of 60-2 HRC.
- The inner ring is manufactured in 100Cr6 steel with hardness 60+2 HRC.
- They are normally supplied with seals in ZZ execution. They also can be supplied in 2RS execution on request. "Jumbo" bearings are provided with a lubrication system of the radial part.
- Also the thrust ring is manufactured in cementation steel.
- The central pivot is manufactured in 16CrNi4 steel which guarantees the maximum resistance to fatigue and a good welding.

# "JUMBO" ADJUSTABLE COMBINED BEARINGS

The Jumbo adjustable combined bearings represent a special range both for dimensions and technical features.

They are used both for big size fork lift masts and for different industrial applications in the following fields: ship, aircraft, steel industry.

High load capacity and a limited width represent the fundamental features of this bearing.



C.R. ref.	d	T	D	H	h min.	h max.	B	A	S	r	C	C <sub>0</sub>	C <sub>a</sub>	C <sub>0a</sub>	PROFILE
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	KN	KN	
4.0089	80	113	165	69	53	56	40	5	50	3	213	388	85	133	FM 165
4.0090	100	124	190	84,5	64,5	67,5	48	6,5	60	4	266	500	100	180	FM 190
4.0091	110	146	220	94,5	74,5	77,5	58	6,5	75	5	326	681	138	257	FM 220
4.0092	120	168	250	102	77	80	60	7	75	5	369	748	138	257	FM 250
4.0093	150	188	280	119,5	89,5	93,5	72	7,5	90	5	489	1066	182	488	FM 280
4.0094	140	218	320	135	110	114	85	10	90	8	542	1370	210	422	*

THE BEARINGS ARE IN 2ZL EXECUTION.

C : Dynamic load

C<sub>0</sub> : Static load

C<sub>a</sub> : Dynamic axial load

C<sub>0a</sub> : Static axial load

The adjusting of dimension "H" is possible through the rotation of the axial pivot.

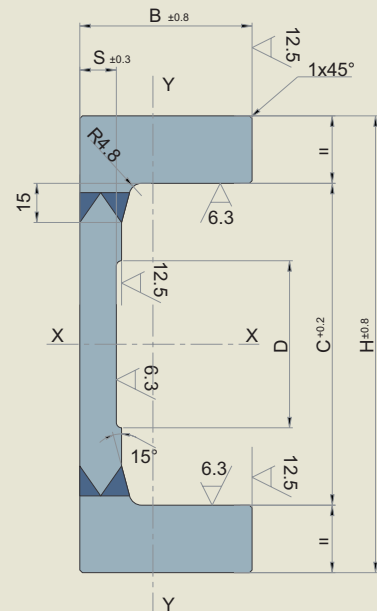
The bearings are supplied with lubrication holes.

# “U” WELDED LIFT GUIDES

The “U” welded lift guides are obtained from the assembling of welded laminated plates

They are used in heavy industry, in high load fork lift masts, in big size handling plants.

They are made of ST 52.3 steel.



C.R. ref.	Nominal Capacity KN	Centre of Gravity mm	Dimensions					Moments of Inertia		Modulus of Resistance		WEIGHT Kg/m
			C	H	B	S	D	Jx Cm <sup>4</sup>	Jy Cm <sup>4</sup>	Wx Cm <sup>3</sup>	Wy Cm <sup>3</sup>	
FC 123 L	50	600	123,3	175	66	16	*	2181,6	206	249,3	86,7	42,37
FC 149 L	60	600	149,4	202	71,2	19,4	*	3480,6	276,5	344,6	114	52,31
FC 165	80	600	165,4	230	57,5	18	80	4410,5	174,6	383,5	87,5	53,3
FC 190	100	600	190,4	255	77	22	80	7631,6	434,2	598,6	167,7	73,7
FC 220	160	600	220,4	295	85	20	125	12632,7	6720,4	856,5	231,7	86,1
FC 250	200	600	250,4	344	94	26,5	125	23371,6	1117,4	1358,8	344,9	122,8

Material: UNI Fe 510 C – DIN St 52.3

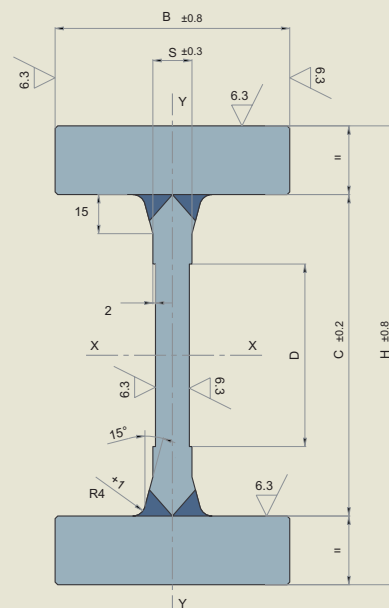
The profiles can be cut on request of the customer, maximum length is 10 m.

# “I” WELDED LIFT GUIDES

The “I” welded lift guides are obtained from the welding of laminated plates.

They are used in the same application fields as the “U” welded lift guides.

Jumbo series combined bearings are used inside these guides.



C.R. ref.	Nominal Capacity KN	Centre of Gravity mm	Dimensions					Moments of Inertia		Modulus of Resistance		WEIGHT Kg/m
			C	H	B	S	D	Jx Cm <sup>4</sup>	Jy Cm <sup>4</sup>	Wx Cm <sup>3</sup>	Wy Cm <sup>3</sup>	
FI 123	60	800	123,3	176	90	15	*	2960	325	336	72	52,8
FI 149	80	800	149,3	205	110	16	*	5320	615	519	112	68,7
FM 165	100	600	165,4	230	95	16	80	6825	475	593	100	71
FM 190	160	600	190,4	255	130	20	80	11983	1203	940	185	100
FM 220	180	1.200	220,4	295	150	20	125	21035	2123	1426	283	128
FM 250	280	1.200	250,4	345	160	25	125	37883	3279	2196	410	175
FM 280	360	1.200	280,4	375	190	30	125	55210	5498	2945	578	215
FM 280 R	420	1.200	280,4	395	190	30	125	69230	6642	3505	700	245

Material: UNI Fe 510 C – DIN St 52.3

The profiles can be cut on request of the customer, maximum length is 10 m.