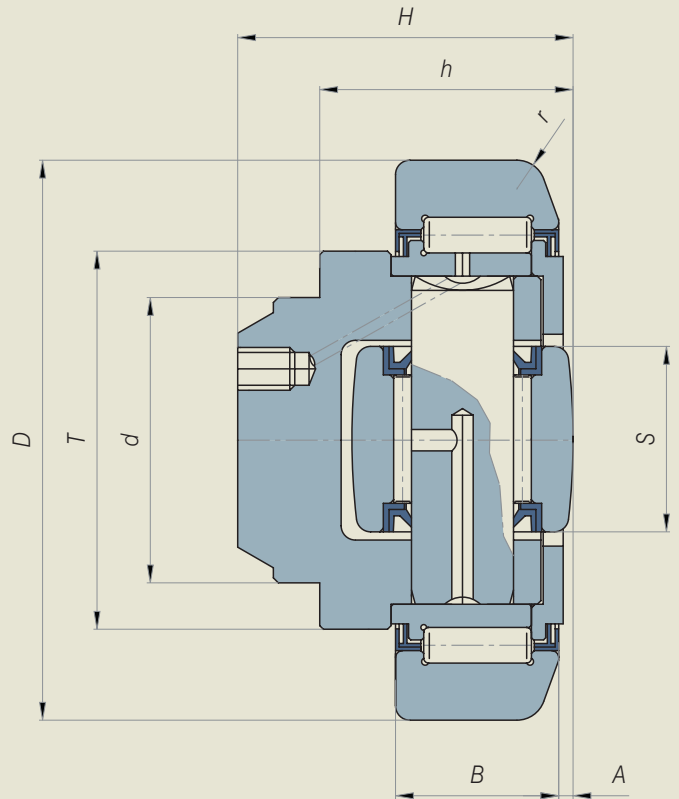


# FIXED COMBINED BEARINGS

Fixed combined bearings are particularly suitable to be used in forklift masts and in any other moving and handling system, where rolled or extruded profiles are used.

The best combination axial part/radial part allows to get high load capacity with extremely small dimensions of the bearing, in addition to easiness of assembling on any kind of structure.



C.R. ref.	d	T	D	H	h	B	A	S	r	C	C <sub>0</sub>	C <sub>a</sub>	C <sub>0a</sub>	Ø on request	PROFILE
	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	KN	KN	mm	
4.0053	30	40	52,5	33	27	17	5	15	2	24	32	7	7	*	EC 053
4.0054	30	42	62	37,5	30,5	20	2,5	20	3	31	35,5	11,1	11,5	62,5	2890
4.0055	35	48	70,1	44	36	23	2,5	22	4	45,5	51	14	13	70,7 / 70,4	2867
4.0056	40	53	77,7	48	36,5	23	3	24	4	48	56,8	18	18	78,1 / 78,5	2810
4.0058	45	59	88,4	57	44	30	3,5	26	3	68	72	23	23	88,9	2811
4.0061	60	71	107,7	69	55	31	4	34	5	81	95	31	36	108,2/108,5	2862
4.0062	60	80	123	72,3	56	37	5	40	5	110	132	43	50	*	2891
4.0063	60	108	149	78,5	58,5	45	5,5	50	3	151	192	68	71	*	2757
4.0011	60	108	149	86	67	45	5,5	50	3	151	192	68	71	*	2757
4.0037	80	120	174	95	71	55	7	63	7	278	518	132	210	*	*
4.0039	80	120	185	95	71	55	7	63	7	278	518	132	210	*	*

THE BEARINGS ARE IN ZRS EXECUTION

C : Dynamic load

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

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

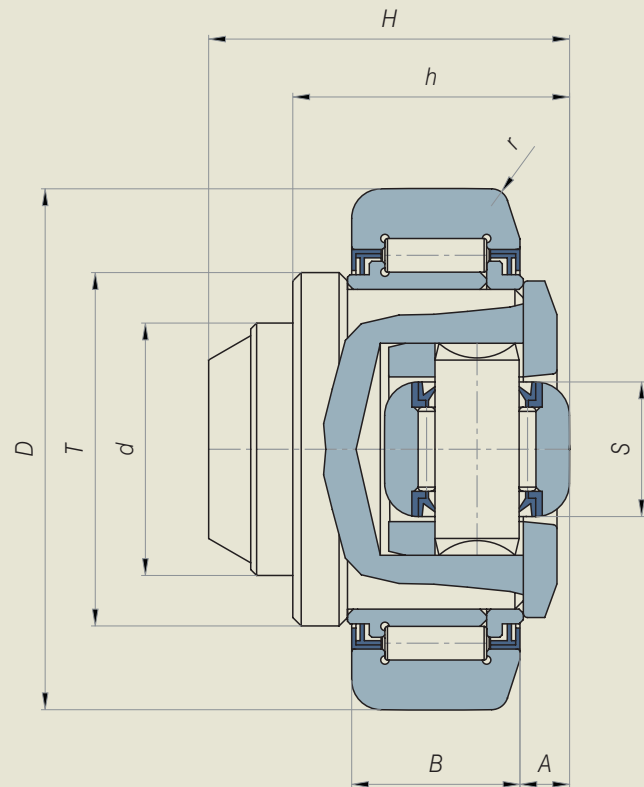
C<sub>0a</sub> : Static axial load

4.0053 AND 4.0054 ARE SUPPLIED WITHOUT LUBRICATION HOLE

# ADJUSTABLE COMBINED BEARINGS

Adjustable combined bearings have the same characteristics as fixed combined bearings.

The only difference is the possibility to adjust the distance between bearing and profile through the use of washers.



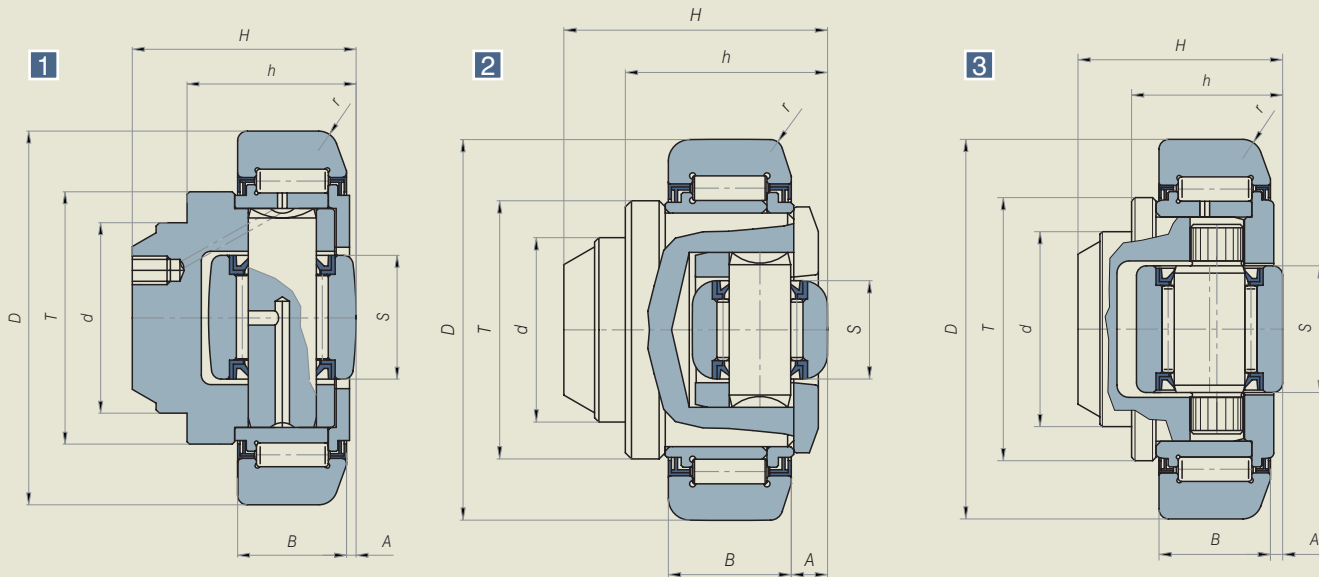
C.R. ref.	d	T	D	H	h	B	A	S	r	C	C <sub>0</sub>	C <sub>a</sub>	C <sub>0a</sub>	Ø on request	PROFILE
	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	KN	KN	mm	
4.0072	30	42	62	43	33	20	5,5	16	3	31	35,5	8	8	62,5	2890
4.0073	35	48	70,1	48	40	23	6,5	16	4	45,5	51	14	14	70,7 / 70,4	2867
4.0074	40	53	77,7	51	39,5	23	7	21	4	48	56,8	14	14	78,1 / 78,5	2810
4.0076	45	59	88,4	61	48	30	7	21	3	68	72	15	15	88,9	2811
4.0078 / L	60	71	107,7	73	59	31	8	33	5	81	95	31	36	108,2 / 108,5	2862
4.0079	60	80	123	75,8	59,5	37	8	33	5	110	132	31	36	*	2891
4.0080	60	103	149	89	69	45	15	50	5	151	192	68	71	*	2757

THE BEARINGS ARE IN ZRS 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 "A" is made through washer rings put between the main support roll and the support roll of the lateral guide bearing. Adjusting washers are available with thickness 0,3-0,5-1 mm.

# COMBINED BEARINGS FOR "I" STANDARD RAILS



The combined bearings for I profiles keep the standard features. They are exclusively used by the manufacturers of fort lift masts.

C.R. ref.	d	T	D	H	h	B	A	S	r	C	C <sub>0</sub>	C <sub>a</sub>	C <sub>0a</sub>	Ø on request	PROFILE Ref.
	mm	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	KN	KN		
														mm	
4.0055 / 1	35	48	70,1	40	30,5	23	2,5	22	4	45,5	51	14	13	70,4 / 70,7	3018 1
4.0057	40	53	77,7	40,7	29	23	3	26	4	48	56,8	18	18	78,1 / 78,5	3019 1
4.0075	40	53	77,7	45	34	23	7	21	4	48	56,8	14	14	78,1 / 78,5	3019 2
4.0457	40	54	77,7	40	29	23	3,5	26	4	59	102	23	36	*	3019 3
4.0058 / 52	45	59	88,4	52	39	30	3,5	26	3	68	72	23	23	88,9	3020 1
4.0059	50	67	101,2	46	33	28	3	30	3	73	82	25	27	101,9	2912 1
4.0077	50	67	101,2	50,5	37,5	28	7	21	3	73	82	18	19	101,9	2912 2
4.0459	50	69	101,2	46	33	26	4,5	30	3	91	140	32	50	*	2912 3
4.0060	55	71	107,7	53	39	31	3	34	5	81	95	31	36	108,2 / 108,5	3100 1
4.0078	55	71	107,7	58,5	44,5	31	8	33	5	81	95	31	36	108,2 / 108,5	3100 2
4.0460	55	69	107,7	54	40	31	4	30	5	100	174	32	50	*	3100 3
4.0259	55	76	123,5	57	42	33	4,5	33	5	114	194	40	48	*	3353 2

THE BEARINGS ARE IN ZRS EXECUTION.

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

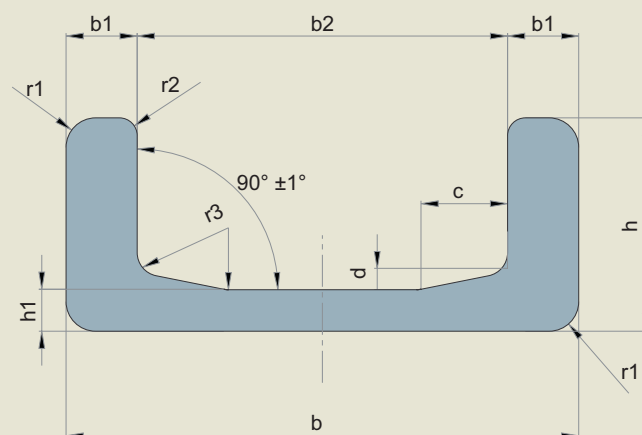
\* 4.0457, 4.0058/52, 4.0059, 4.0060 are executed with lubrication holes.

# “U” STANDARD LIFT GUIDES

“U” standard lift guides are used in different industrial fields: fork lift masts, food industry, car industry, ceramic industry, machine tool industry.

Normally small and medium size combined bearings are used inside these guides.

They are manufactured in ST 52.3 steel.



C.R. ref.	Dimensions													WEIGHT Wx		
	(b)	b1	Tol.	b2	Tol.	h	Tol.	h1	Tol.	c	d	r1	r2	r3	Kg/m	Cm <sup>3</sup>
EC 053	65	6	±0,5	53	±0,4	30	±0,5	6	±0,5	4	4	6	4	*	5,3	11,9
2890	86,5	12	±0,5	62,5	+1	36	±0,8	7	±0,5	15	3	≤6	2-3	4	10,5	32
2867	103,2	16,2	±0,5	70,8	±0,5	40	±0,8	7,7	±0,5	15	3	≤6	2-3	5	14,8	53
2810	121,3	21,3	±0,5	78,7	±0,5	41	±0,8	10,8	±0,5	15	5	≤6	2-3	5	20,9	81
2811	135,4	23	±0,5	89,4	±0,5	53	±0,8	12,7	±0,5	15	5	≤6	2-3	5	28,6	128
2862	157,2	24,4	±0,5	108,4	±0,5	61,2	±0,8	14	±0,5	15	5	≤6	2-3	5	35,9	190
2891	175	25,6	±0,5	123,8	±0,5	66,2	±0,8	16,2	±0,5	15	5	≤6	2-3	5	42,9	250
2757	201,5	25,7	±0,5	150,1	±0,5	71,2	±0,8	19,4	±0,5	20	5	≤8	2-3	6	52,3	340

Material: UNI Fe 510 C – DIN St 52.3

The profiles can be cut on request of the customer, maximum length is 12 m.

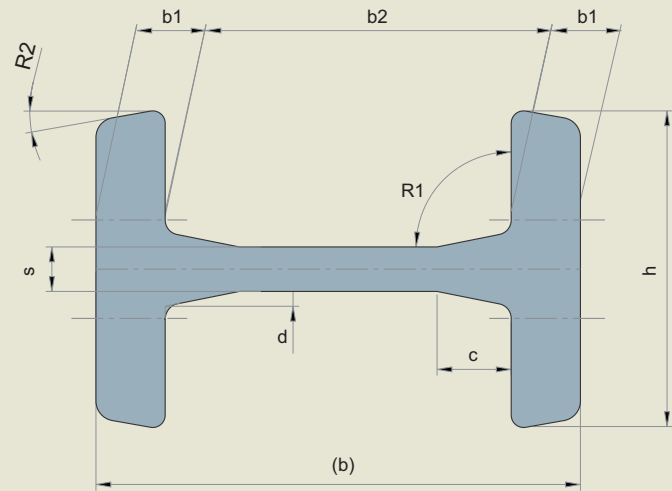
# “I” STANDARD LIFT GUIDES

Standard “I” profiles are exclusively used to build the fork lift masts.

The “I” profile has been realized in order to satisfy the needs of the manufacturers of fork lifts.

The combined bearings are used inside these profiles, like in the case of the “U” profiles.

They are manufactured in ST 52.3 steel.



C.R. ref.	Dimensions													WEIGHT $W_x$	
	(b)	$b_1$	Tol.	$b_2$	Tol.	$h$	Tol.	$s$	Tol.	$c$	$d$	$R_1$	$R_2$	Kg/m	$Cm^3$
3018	98	14	$\pm 0,5$	70	+1	65	$\pm 1$	9	$\pm 0,5$	15	3	$91^\circ+1^\circ$	$10^\circ$	19,4	70
3019	113,9	18	$\pm 0,5$	77,9	+1	66	$\pm 1$	11	$\pm 0,5$	15	3	$91^\circ+1^\circ$	$10^\circ$	25,3	102
3275	129,6	20,5	$\pm 0,5$	88,6	+1	72	$\pm 1,25$	12	$\pm 0,5$	15	3	$91^\circ+1^\circ$	$10^\circ$	31,2	143
3020	129,6	20,5	$\pm 0,5$	88,6	+1	81	$\pm 1,25$	12	$\pm 0,5$	15	3	$91^\circ+1^\circ$	$10^\circ$	34,1	160
2912	140,2	18,96	$\pm 0,8$	102,28	-0,8	69,9	+1,60	12,7	$\pm 0,5$	*	*	*	*	31,2	157
3100	152,4	22	$\pm 0,5$	108,4	$\pm 0,5$	83	$\pm 1$	14	$\pm 0,5$	20	3	$91^\circ+1^\circ$	$12^\circ$	40,8	219
3353	175	25,6	$\pm 0,5$	123,8	$\pm 0,5$	90	$\pm 1,3$	15	$\pm 0,5$	20	5	$91^\circ+1^\circ$	$5^\circ$	51,4	322

Material: UNI Fe 510 C – DIN St 52.3

The profiles can be cut on request of the customer, maximum length is 12 m.