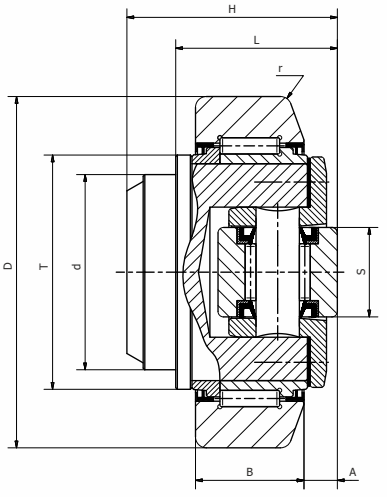
• Combined Bearing and Profile •

Combined bearings are suitable for heavy material handling and all other heavy conveying systems. Mostly combined bearings are used in combination with profiles. They can take heavy load from both axial and radial direction at the same time. The most important advantage is with optimized structure of the combined bearing, the mounting space can be saved, and the usage is very simple. We have to just weld the pivot in the mount plate.CTS is one roof solution for all your combined bearing, flange plates and profile requirements.



• Standard Combined Bearing:

Typ Type	D -0.1 [mm]	T [mm]	d -0.05 [mm]	H [mm]	h [mm]	B [mm]	A [mm]	S [mm]	r [mm]
4.053	52,5	40	30	33,0	27,0	17	5,0	15	2
4.054	62,5	42	30	37,5	30,5	20	2,5	20	3
4.055	70,1	48	35	44,0	36,0	23	2,5	22	4
4.056	77,7	54	40	48,0	36,5	23	3,0	26	4
4.057	77,7	53	40	40,0	29,0	23	3,0	26	4
4.058	88,4	59	45	57,0	44,0	30	3,5	26	3
4.059	101,2	67	50	46,0	33,0	28	3,0	30	3
4.060	107,7	71	55	53,0	39,0	31	3,0	34	5
4.061	107,7	71	60	69,0	55,0	31	4,0	34	5
4.062	123,0	80	60	72,3	56,0	37	5,0	40	5
4.063	149,0	103	60	77,5	58,0	45	5,5	50	3

• High Temperature Combined Bearing:

Typ Type	D -0.1 [mm]	T [mm]	d -0.05 [mm]	H [mm]	h [mm]	B [mm]	A [mm]	S [mm]	r [mm]
4.053HT	52,5	40	30	33,0	27,0	17	5,0	15	2
4.054HT	62,5	42	30	37,5	30,5	20	2,5	20	3
4.055HT	70,1	48	35	44,0	36,0	23	2,5	22	4
4.056HT	77,7	54	40	48,0	36,5	23	3,0	26	4
4.058HT	88,4	59	45	57,0	44,0	30	3,5	26	3
4.061HT	107,7	71	60	69,0	55,0	31	4,0	34	5
4.062HT	123,0	80	60	72,3	56,0	37	5,0	40	5
4.063HT	149,0	103	60	77,5	58,5	45	5,5	50	3

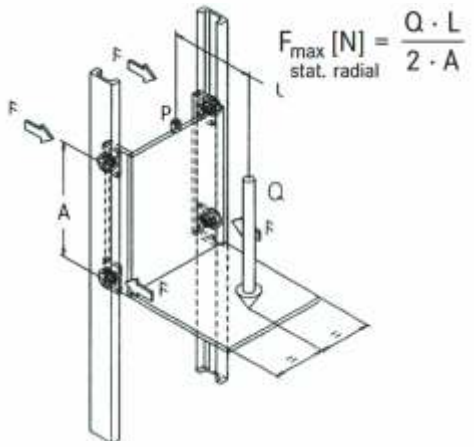
• Calculation of the bearing forces •

Q = Load capacity + dead load (N)

L = Load distance to suspension point (mm)

P = Suspension point

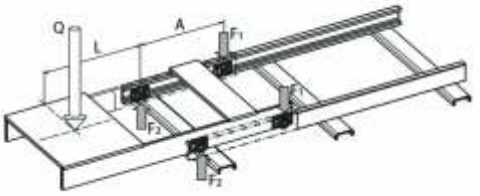
A = Bearing distance (mm) recommended 500-1000 mm

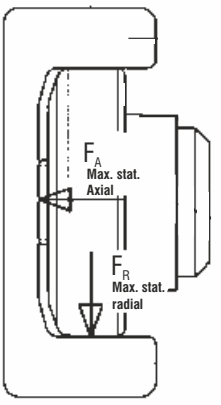


$$F_{max\ stat.\ radial}\ [N] = \frac{Q \cdot L}{2 \cdot A}$$

$$F_{1\ stat.\ radial}\ [N] = \frac{Q \cdot L}{2 \cdot A}$$

$$F_{2\ stat.\ radial}\ [N] = \frac{Q\ (L + A)}{2 \cdot A}$$



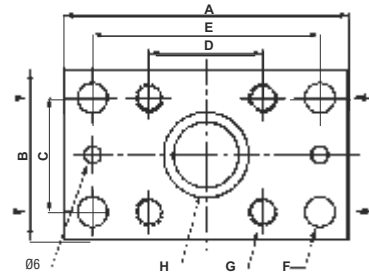


Combined Bearings are also available in eccentric adjustment, adjustable by shims jumbo bearing and precision Combined Bearing.

Typ Type	F_R [km]	F_A [km]	C [kN]	C_0 [kN]	C_A [kN]	C_{OA} [kN]	Weight kg	Flange plates	Profiles standard
4.053	5,23	1,68	24,0	32,0	7	7	0,46	APS | - | APS-Q	s
4.054	10,30	3,20	31,0	35,5	11	11	0,53	APO | APO-LUB | APO-Q	0 NbV
4.055	12,40	3,87	45,5	51,0	13	14	0,80	AP1 | AP1-LUB | AP1-Q	1 NbV I 3018 NbV
4.056	12,90	4,00	48,0	56,8	18	18	1,00	AP2 | AP2-LUB | AP2-Q	2 NbV
4.057	12,90	4,00	48,0	56,8	18	18	0,87	-	3019 NbV
4.058	22,40	7,00	68,0	72,0	23	23	1,62	AP3. 1| AP3.1-LUB | AP3-Q	3 NbV I 3020 NbV
4.059	22,00	7,00	73,0	82,0	25	27	1,74	-	2912 NbV
4.060	23,80	7,44	81,0	95,0	31	36	2,27	-	3100 NbV
4.061	**23,80**	7,44	81,0	95,0	31	36	2,82	AP4 | AP4-LUB | AP4-Q	4 NbV
4.062	33,90(26,00)	10,60	110,0	132,0	43	50	3,89	AP4 | AP4-LUB | AP4-Q	5 NbV (3353 NbV)
4.063	59,20	18,50	151,0	192,0	68	71	6,52	AP6 | AP6-LUB | AP6-Q	6 NbV

Typ Type	F_R [km]	F_A [km]	C [kN]	C_0 [kN]	C_A [kN]	C_{OA} [kN]	Weight kg	Flange plates	Profiles standard
4.053HT	5,23	1,68	24,0	32,0	7	7	0,46	APS APS-Q	s
4.054HT	10,30	3,20	31,0	35,5	11	11	0,55	APO APO-Q	0 NbV
4.055HT	12,40	3,87	45,5	51,0	13	14	0,85	AP1 AP1-Q	1 NbV I 3018 NbV
4.056HT	12,90	4,00	48,0	56,8	18	18	1,10	AP2 AP2-Q	2 NbV
4.058HT	22,40	7,00	68,0	72,0	23	23	1,70	AP3.1 AP3-Q	3 NbV I 3020 NbV
4.061HT	23,80	7,44	81,0	95,0	31	36	2,95	AP4 AP4-Q	4 NbV
4.062HT	33,90(26,00)	10,60	110,0	132,0	43	50	4,10	AP4 AP4-Q	5 NbV (3353 NbV)
4.063HT	59,20	18,50	151,0	192,0	68	71	6,85	AP5 AP5-Q	6 NbV

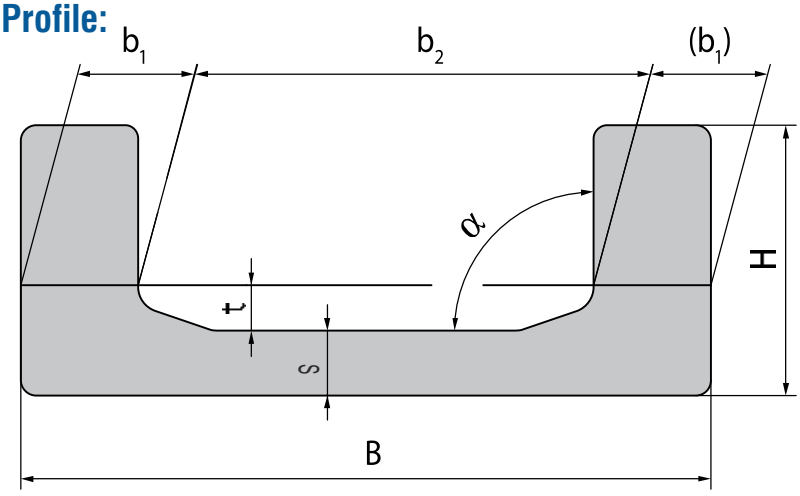
• Combined Bearing Flange Plate •



Also available a customized flange plate as per requirement.

Typ Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	Ø H [mm]	t [mm]
AP S	90	50	30	40	70	8,5	M8	30	10
AP 0	100	60	40	40	80	10,5	M12	30	10
AP 1	120	80	50	50	90	12,5	2,5	35	15
AP 2	120	80	50	50	90	12,5	M12	40	15
AP 3.1	160	100	60	60	120	17,0	M16	45	20
AP 4	180	120	80	80	140	17,0	M16	60	20
AP 6	200	150	100	100	160	17,0	M16	60	20

• Hot Rolled Steel Profile:



Nr.	B	b_1	Tol.	b_2	Tol.	H	Tol.	s	Tol.	t	α	Tol.	kg/m	W_x	Wy
2890 Standard 0	86,5	12,0	±0,5	62,5	+1,0	36,0	±0,8	7,0	±0,5	7,0	90°	±1°	10,5	32	12
2867 Standard 1	103,2	16,2	±0,5	70,8	±0,5	40,0	±0,8	7,7	±0,5	8,5	90°	±1°	14,8	53	11
2810 Standard 2	121,3	21,3	±0,5	78,7	±0,5	41,0	±0,8	10,8	±0,5	9,0	90°	±1°	20,9	81	15
2811 Standard 3	135,4	23,0	±0,5	89,4	±0,5	53,0	±0,8	12,7	±0,5	9,0	90°	±1°	28,6	128	27
2862 Standard 4	157,2	24,4	±0,5	108,4	±0,5	61,2	±0,8	14,0	±0,5	9,0	90°	±1°	35,9	190	39
2891 Standard 5	175,0	25,6	±0,5	123,8	±0,5	66,2	±0,8	16,2	±0,5	9,0	90°	±1°	42,9	250	48
2757 Standard 6	201,5	25,7	±0,5	150,1	±0,5	71,2	±0,8	19,4	±0,5	11,5	90°	±1°	52,3	340	57
3546 Standard 8	252,5	35,7	±0,6	181,1	±0,6	90,0	±1,0	19,4	±0,6	10,0	90°	±1°	78,5	682	125
3394 US-Standard	144,6	20,6/22,4	±0,5	101,6	±0,8	47,8/53,8	±0,8	12,7	±0,5	7,9	91°	+1°	27,1	122	22