

UPN	FOR THE FLEXURE AXIS															Dist. <sup>to</sup> axis	XM			
	Design	h	b	S	t=r1	r2	F	G	U	X-X			Y-Y					Sx	sx	ey
										Jx	Wx	ix	Jy	Wy	ly					
						cm <sup>2</sup>	kg/m	m <sup>2</sup> /m	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>3</sup>	cm	cm	cm		
40	40	20	5	5.5	2.5	3.66	2.87	0.14	7.58	3.79	1.44	1.14	0.86	0.56	-	-	0.67	1.01		
50	50	25	5	6	3	4.92	3.86	0.18	16.8	6.73	1.85	2.49	1.48	0.71	-	-	0.81	1.34		
50	50	38	5	7.0	3.5	7.12	5.59	0.23	26.40	10.60	1.92	9.12	3.75	1.13	-	-	1.37	2.47		
60	60	30	6	6	3	6.46	5.07	0.22	31.6	10.50	2.21	4.51	2.16	0.84	-	-	0.91	1.50		
65	65	42	6	7.5	4.0	9.03	7.09	0.27	57.50	17.70	2.52	14.10	5.07	1.25	-	-	1.42	2.60		
80	80	45	6	8	4	11.00	8.64	0.31	106.0	26.50	3.10	19.40	6.36	1.33	15.90	6.65	1.45	2.67		
100	100	50	6	8.5	4.5	13.50	10.60	0.37	206.00	41.20	3.91	29.30	8.49	1.47	24.50	8.42	1.55	2.93		
120	120	55	7	9	5	17.00	13.40	0.43	364.0	60.70	4.62	43.20	11.10	1.59	36.30	10.00	1.60	3.03		
140	140	60	7	10.0	5.0	20.40	16.00	0.49	605.00	86.40	5.45	62.70	14.80	1.75	51.40	11.80	1.75	3.37		
160	160	65	8	11	6	24.00	18.80	0.55	925.0	116.00	6.21	85.30	18.30	1.89	68.80	13.30	1.84	3.56		
180	180	70	8	11.0	5.5	28.00	22.00	0.61	1,350.00	150.00	6.95	114.00	22.40	2.02	89.60	15.10	1.92	3.75		
200	200	75	9	12	6	32.20	25.30	0.66	1,910.0	191.00	7.70	148.00	27.00	2.14	114.00	16.80	2.01	3.94		
220	220	80	9	12.5	6.5	37.40	29.40	0.72	2,690.00	245.00	8.48	197.00	33.60	2.30	146.00	18.50	2.14	4.20		
240	240	85	10	13	7	42.30	33.20	0.78	3,600.0	300.00	9.22	248.00	39.60	2.42	179.00	20.10	2.23	4.39		
260	260	90	10	14.0	7.0	48.30	37.90	0.83	4,820.00	371.00	9.99	317.00	47.70	2.56	221.00	21.80	2.36	4.66		
280	280	95	10	15	8	53.30	41.80	0.89	6,280.0	448.00	10.90	399.00	57.20	2.74	266.00	23.60	2.56	5.02		
300	300	100	10	16.0	8.0	58.80	46.20	0.95	8,030.00	535.00	11.70	495.00	67.80	2.90	316.00	25.40	2.70	5.41		
320	320	100	14	18	9	75.80	59.50	0.98	10,870.0	679.00	12.10	597.00	80.80	2.81	413.00	26.30	2.60	4.82		
350	350	100	14	16.0	8.0	77.30	60.60	1.05	12,840.00	734.00	12.90	570.00	75.00	2.72	459.00	28.60	2.40	4.45		
380	380	102	14	16	8	80.40	63.10	1.11	15,760.0	829.00	14.00	615.00	78.70	2.77	507.00	31.10	2.38	4.58		
400	400	110	14	18.0	9.0	91.50	71.80	1.18	20,350.00	1,020.00	14.90	846.00	102.00	3.04	618.00	32.90	2.65	5.11		

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