

Dimensions of standard HRC Bolts to EN 14399-10

All dimensions in millimetres

Thread d		M12	M16	M20	M22	M24	M27	M30	M36
p		1.75	2	2.5	2.5	3	3	3.5	4
b	$\leq 125\text{mm}$	30	38	46	50	54	60	66	78
	$> 125 \leq 200\text{mm}$	-	44	52	56	60	66	72	84
	$> 200\text{mm}$	-	-	65	69	73	79	85	97
d_s	max	12.70	16.70	20.84	22.84	24.84	27.84	30.84	37.00
	min	11.30	15.30	19.16	21.16	23.16	26.16	29.16	35.00
d_w	min	20	26	33	37	41	46	50	61
d_k	min	21	27	34	38	43	48	52	66
k	nom	8	10	13	14	15	17	19	23
	max	8.8	10.8	13.9	14.9	15.9	17.9	20.0	24.0
	min	7.2	9.2	12.1	13.1	14.1	16.1	18.0	22.0
r	min	1.2	1.2	1.5	1.5	1.5	2.0	2.0	2.0
R	nom	18	20	22	23	25	27	30	36
$F1$	min	11	13	15	15.5	16	19	21	25
$F2$	max	16	18	20	21	21.5	24	26	31
Spline a/f S_b	max	8.0	11.6	14.4	15.7	17.1	19.3	21.4	25.7
	min	7.4	11.0	13.8	15.1	16.5	18.7	20.8	25.1
Spline a/c e_b	min	8.36	12.43	15.60	17.06	18.65	21.13	23.50	28.50

U a

Incomplete thread $u \ddot{O} 2 p$

