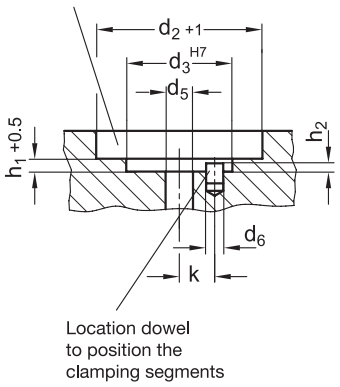
Metric table

Dimensions in: millimeters - *inches*

d_1	d_2 Clamping Ø	d_3	d_4	d_5	d_6	h_1	h_2	k ±0.1	l_1	l_2	l_3	t min.	w_1	w_2	Number of clamping elements	Max. clamping force F
11.7* *.46*	14.2 *.56*	-	M 4	4.3 *.17*	1.5 *.06*	-	2.5 *.10*	3.5 *.14*	3.9 *.15*	8.6 *.34*	6.3 *.25*	-	.7 *.03*	1.3 *.05*	3 *.12*	.5 kN *112 lbf*
14.5 *.57*	18.5 *.73*	12 *.47*	M 4	4.3 *.17*	2 *.08*	5.5 *.22*	3.5 *.14*	4.5 *.18*	9.8 *.39*	14.2 *.56*	5 *.20*	6 *.24*	1.2 *.05*	2.3 *.09*	3 *.12*	3.5 kN *787 lbf*
18.5 *.73*	22.5 *.89*	15 *.59*	M 5	5.3 *.21*	2.5 *.10*	7.5 *.30*	3 *.12*	5.5 *.22*	11.5 *.45*	16.5 *.65*	6.2 *.24*	7 *.28*	1.2 *.05*	2.3 *.09*	3 *.12*	4 kN *899 lbf*
22.5 *.89*	26.5 *1.04*	20 *.79*	M 6	6.4 *.25*	3 *.12*	6 *.24*	4 *.16*	7 *.28*	14.1 *.56*	19.6 *.77*	9 *.35*	8 *.31*	1.2 *.05*	2.3 *.09*	3 *.12*	4.5 kN *1012 lbf*
26.5 *1.04*	30.5 *1.20*	20 *.79*	M 6	6.4 *.25*	3 *.12*	6 *.24*	4.5 *.18*	7 *.28*	14.1 *.56*	19.8 *.78*	9 *.35*	8 *.31*	1.2 *.05*	2.3 *.09*	3 *.12*	4.5 kN *1012 lbf*
30.5 *1.20*	38.5 *1.52*	25 *.98*	M 6	6.4 *.25*	4 *.16*	7 *.28*	4.5 *.18*	9 *.35*	14.1 *.56*	23.2 *.91*	9 *.35*	8 *.31*	2.3 *.09*	4.6 *.18*	3 *.12*	4.5 kN *1012 lbf*
38.5 *1.52*	46.5 *1.83*	30 *1.18*	M 8	8.4 *.33*	4 *.16*	7.5 *.30*	4.5 *.18*	11 *.43*	18 *.71*	27.2 *1.07*	12 *.47*	10 *.39*	2.3 *.09*	4.6 *.18*	6 *.24*	6.5 kN *1461 lbf*
46.5 *1.83*	54.5 *2.15*	30 *1.18*	M 8	8.4 *.33*	4 *.16*	7.5 *.30*	4.5 *.18*	11 *.43*	18 *.71*	27.1 *1.07*	12 *.47*	10 *.39*	2.3 *.09*	4.6 *.18*	6 *.24*	6.5 kN *1461 lbf*
54.5 *2.15*	70.5 *2.78*	45 *1.77*	M 10	10.5 *.41*	5 *.20*	9 *.35*	5.5 *.22*	15 *.59*	23.7 *.93*	40.6 *1.60*	14 *.55*	12 *.47*	4.7 *.19*	9.2 *.36*	6 *.24*	8 kN *1798 lbf*
70.5 *2.78*	86.5 *3.41*	60 *2.36*	M 12	13 *.51*	5 *.20*	10 *.39*	5.5 *.22*	17 *.67*	28.3 *1.11*	46.1 *1.81*	17 *.67*	15 *.59*	4.7 *.19*	9.2 *.36*	6 *.24*	10 kN *2248 lbf*
86.5 *3.41*	102.5 *4.04*	60 *2.36*	M 16	17 *.67*	5 *.20*	10 *.39*	5.5 *.22*	25 *.98*	30.3 *1.19*	51.2 *2.02*	21 *.83*	15 *.59*	4.7 *.19*	9.2 *.36*	6 *.24*	12.5 kN *2810 lbf*

*This size is only available as type K

Dimensions



Operating principle

A circular ball cage containing 3 or 6 balls is forced outwards over an accurately guided cone by means of a screw which, through the exerted thrust, will enlarge the outside diameter of the circular ball cage. This in turn will lead to a firm contact between the centring clamp and bore of the workpiece.

Type K (with balls) is used for clamping applications where minor ball marks at the contact points with the workpiece are acceptable. Type S (with clamping segments) is used in such cases where marks at the clamping points on the workpiece would be acceptable.