



DIN 609 Hex Bolt

Leader-Fastener is a manufacturer and distributor of **DIN 609 Hex Bolt**. We have a complete line of service from having invested in production plants, export department and to having a quality control team and center to meet your requirements. We regard quality as the life of the company. We persist in good quality as the first policy and have established a set of quality control and inspection system according to the international standard. We have carried out ISO9001 Quality Guarantee System in every course of production, transportation and selling. We do hope we could be your partner in business by topping quality, knight service and

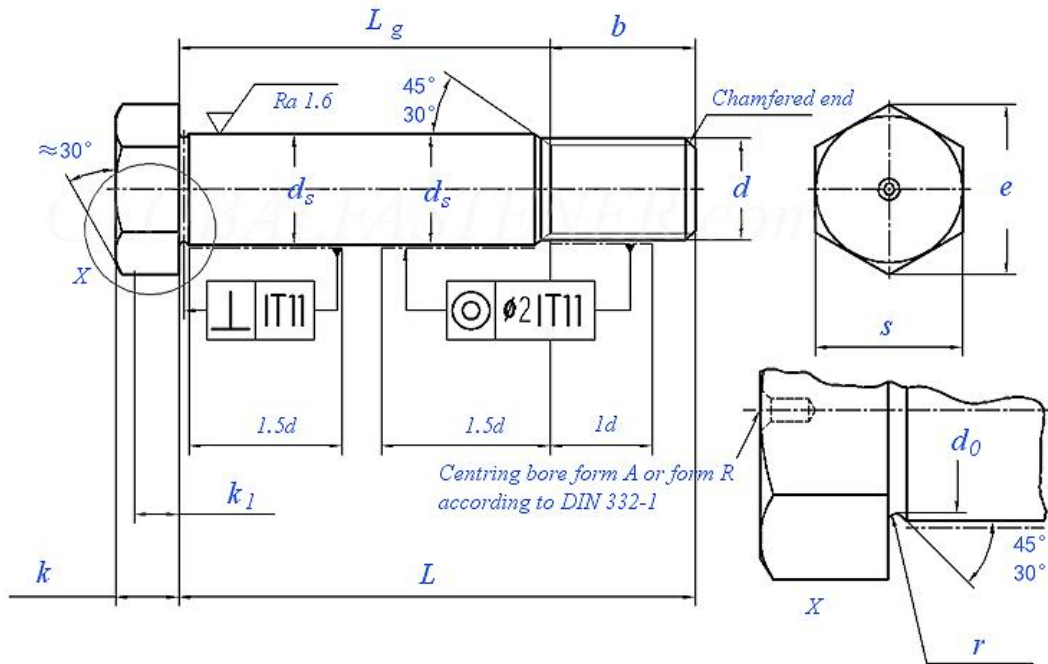
competitive price in the near future and be your friends as well.

DIN 609 - Hexagon fits bolts with long thread

DIN 609 Hex Shoulder Bolt (Fit Bolt) with long threaded portion by Material, Finish and Size. Shoulder Screws, also called Shoulder Bolts or Stripper Bolts, are fasteners with three distinct sections: the head, the unthreaded shank, and the threaded section which is smaller in diameter than the shoulder. The change in diameter between the threaded section and the shank provides the shoulder, against which the shoulder bolt can be tightened. These can have different types of head, but frequently have socket heads.

Metric **DIN 609 Hex Head Shoulder**, this standard specifies dimensions and technical delivery conditions for M8 to M52 hexagon fit bolts, assigned to product grade A (for size M10 or less) or product grade B (for size M12 or greater).

DIN 609 - 2016 Hexagon Fits Bolts With Long Thread



Screw Thread d		M8	M10	M12	(M14)	M16	(M18)	M20	(M22)	M24	
P	Pitch	Coarse thread	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3
		Fine thread-1	1	1.25	1.25	1.5	1.5	1.5	1.5	1.5	2
		Fine thread-2	-	1	1.5	-	-	2	2	2	1.5
b	L ≤ 50		14.5	17.5	20.5	22	25	27.5	28.5	32.5	-
	50 < L ≤ 150		16.5	19.5	22.5	24	27	29.5	30.5	34.5	36.5
	L > 150		21.5	24.5	27.5	29	32	34.5	35.5	39.5	41.5
ds	Nominal Size (K6)		9	11	13	15	17	19	21	23	25
	min		9.001	11.001	13.001	15.001	17.001	19.002	21.002	23.002	25.002
	max		9.01	11.012	13.012	15.012	17.012	19.015	21.015	23.015	25.015
d0	min		7.9	9.9	11.5	13.5	15.5	17.5	19.1	21.1	23.1
	max		8.2	10.2	11.8	13.8	15.8	17.8	19.4	21.4	23.4
e	min		14.38	17.77	19.85	22.78	26.17	29.56	32.95	37.29	39.55
k	Nominal Size		5.3	6.4	7.5	8.8	10	11.5	12.5	14	15
	min		5.15	6.22	7.21	8.51	9.71	11.15	12.15	13.65	14.65
	max		5.45	6.58	7.79	9.09	10.29	11.85	12.85	14.35	15.35
k1	min		3.61	4.35	5.05	5.96	6.8	7.81	8.51	9.65	10.26
r	min		0.4	0.4	0.6	0.6	0.6	0.6	0.8	0.8	0.8

	max	0.55	0.55	0.75	0.75	0.75	0.75	0.95	0.95	0.95
s	max=nominal size	13	16	18	21	24	27	30	34	36
	min	12.73	15.73	17.57	20.16	23.16	26.16	29.16	33	35
Lg (max)		-	-	-	-	-	-	-	-	-
Weight of per 1000 steel products(≈kg)		-	-	-	-	-	-	-	-	-

Screw Thread d		(M27)	M30	(M33)	M36	(M39)	M42	(M45)	M48	(M52)	
P	Pitch	Coarse thread	3	3.5	3.5	4	4	4	4	4	
		Fine thread-1	2	2	2	3	3	3	3	3	
		Fine thread-2	-	-	-	-	-	-	-	-	-
b	L≤50		-	-	-	-	-	-	-	-	
	50<L≤ 150		39.5	43	45	49	51	56	59	63	65
	L> 150		44.5	48	50	54	56	61	64	68	70
d _s	Nominal Size (K6)		28	32	34	38	40	44	46	50	55
	min		28.002	32.002	34.002	38.002	40.002	44.002	46.002	50.002	55.002
	max		28.015	32.018	34.018	38.018	40.018	44.018	46.018	50.018	55.021
d ₀	min		25.7	29.7	31.7	35.7	37.7	41.7	43.7	47.7	52.7
	max		26	30	32	36	38	42	44	48	53
e	min		45.2	50.85	55.37	60.79	66.44	71.3	76.95	82.6	88.25
k	Nominal Size		17	19	21	22	25	26	28	30	33
	min		16.65	18.58	20.58	21.58	24.58	25.58	27.58	29.58	32.5
	max		17.35	19.42	21.42	22.42	25.42	26.42	28.42	30.42	33.5
k ₁	min		11.66	13.01	14.41	15.11	17.21	17.91	19.31	20.71	22.75
r	min		1	1	1	1	1	1	1	1	1
	max		1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
s	max=nominal size		41	46	50	55	60	65	70	75	80
	min		40	45	49	53.8	58.8	63.1	68.1	73.1	78.1
Lg (max)		-	-	-	-	-	-	-	-	-	
Weight of per 1000 steel products(≈kg)		-	-	-	-	-	-	-	-	-	

①,Centering hole Form A or Form R according to DIN 332-1 (centering is only required for screws with addition [larger shank diameter d_s], for screws without added [finish screws] it is left to the manufacturer.)

②,Material:

a) Steel, Strength class: d≤39mm:8.8; d>39mm according to agreements . Standard DIN EN ISO 898-1

b) Stainless steel, Strength class: d≤20mm: A2-70; 2039mm according to agreement. Standard DIN EN ISO 3506-1, DIN EN ISO 3506-3

c) Non-ferrous metal, Property class:CU2, CU3. Standard DIN EN 28839