



DIN 610 Hex Bolt

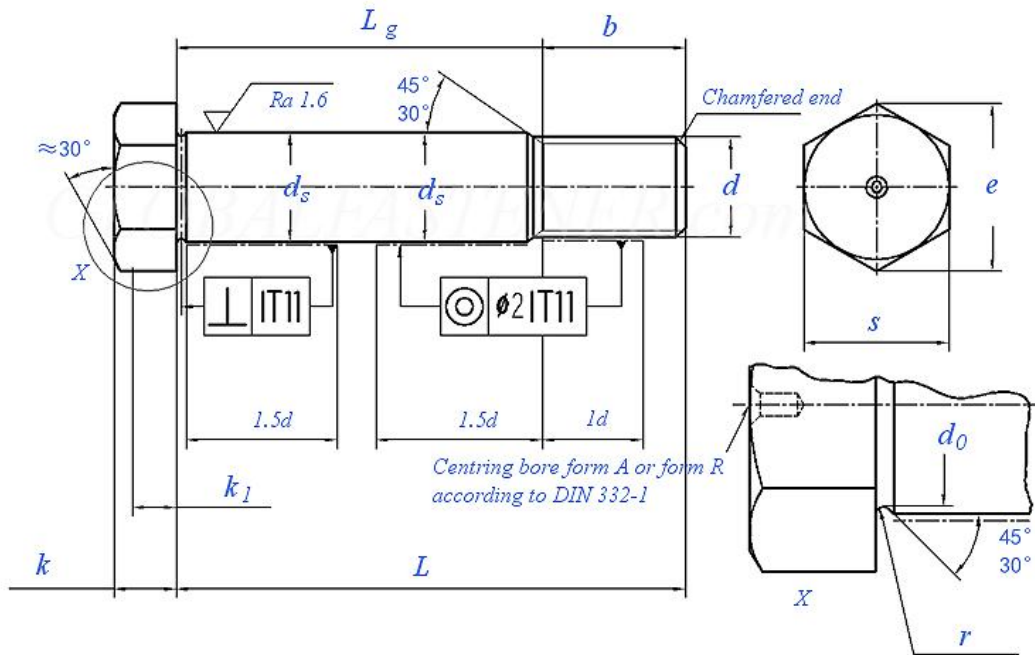
Leader-Fastener is a manufacturer and distributor of **DIN 610 Hex Bolt**. We have a complete line of service from having invested in production plants, export department and to having a quality control team and center to meet your requirements. We regard quality as the life of the company. We persist 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 610 - Hexagon fit bolts with short threaded portion

DIN 610 Hex Shoulder Bolt (Fit Bolt) with short 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. Hexagon Head Shoulder Bolts are fasteners with a hexagon shaped head and an oversized unthreaded shoulder. The larger shoulder diameter allows for the bolt to withstand more shear force than a regular hex head cap screw. Hex Head Shoulder Bolts can also be used in applications where the relative position of the mating workpieces is more critical.

DIN 610 - 1993 Hexagon Fit Bolts with Short Threaded Point



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	11.5	13.5	15.5	17	19	21.5	22.5	24.5	26.5
	50 < L ≤ 150	13.5	15.5	17.5	19	21	23.5	24.5	26.5	28.5
	L > 150	18.5	20.5	22.5	24	26	28.5	29.5	31.5	33.5
ds (k6)	Nominal Size	9	11	13	15	17	19	21	23	25
	max	9.01	11.012	13.012	15.012	17.012	19.015	21.015	23.015	25.015
	min	9.001	11.001	13.001	15.001	17.001	19.002	21.002	23.002	25.002
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	17.77/18.9	19.85/20.85	22.78/23.91	26.17	29.56	32.95	35.03/37.29	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

k ₁	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/(17)	18/(19)	21/(22)	24	27	30	(32)/34	36
	min	12.73	15.73/16.73	17.57/18.48	20.16/21.15	23.16	26.16	29.16	31/33	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	4.5	4.5	5	5
		Fine thread-1	2	2	2	3	3	3	3	3	3
		Fine thread-2	-	-	-	-	-	-	-	-	-
b	L≤50		-	-	-	-	-	-	-	-	-
	50<L≤150		31.5	34	36	40	42	46	48	51	55
	L>150		36.5	39	41	45	47	51	53	56	60
d _s	(k6)	Nominal Size	28	32	34	38	40	44	46	50	55
		max	28.015	32.018	34.018	38.018	40.018	44.018	46.018	50.018	55.021
		min	28.002	32.002	34.002	38.002	40.002	44.002	46.002	50.002	55.002
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)			-	-	-	-	-	-	-	-	-

Material:

- a)Steel, Strength class: $d \leq M39$: 8.8; $d > M39$ according to agreements . Standard DIN EN 20 898-1
- b)Stainless steel, Strength class: $d \leq M20$: A2-70; $M20 < d \leq M39$ according to agreement. Standard DIN ISO 3506
- c)Non-ferrous metal, Property class:CU2, CU3. Standard DIN EN 28839