



### DIN 935 Castle Nut

Leader-Fastener is a manufacturer and distributor of **DIN 935 Castle Nut**. 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.

Metric **DIN 935 Hexagon Slotted Castle Nut** are hex nuts where slots are cut into one side of the nut (DIN 935 up to 12mm dia) or through the crown (> 12mm dia). These slots are designed to offer a locking feature where a split pin/cotter pin (DIN 94), R clip or safety wire can aligned through the slots and guided through a hole drilled in the shank of the mated bolt.

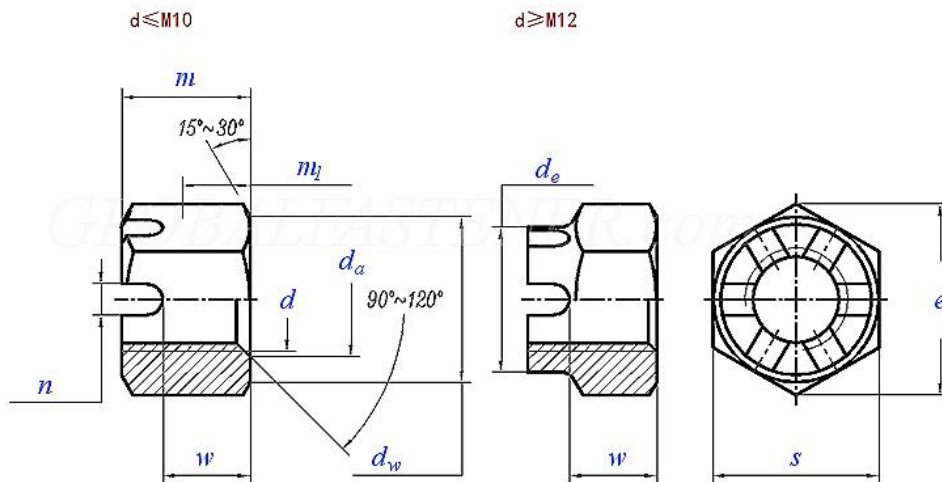
### Product Specification of DIN 935 Castle Nut

Material : Carbon steel, Stainless steel, Alloy Steel, Brass.

Finishment: Black, Zinc Plated, Zinc Yellow, HDG, Phosphate, DACROMET, Geomet, Magin, Ruspert, Teflon, etc.

### DIN 935-1 - 2013 Hexagon Slotted and Castle Nuts - Part 1: Metric Coarse and Fine Pitch

#### Thread, Product Grades A and B



Thread Size		M4	M5	M6	(M7)	M8	M10	M12	(M14)	M16	(M18)	M20	(M22)	M24	(M27)	M30	(M33)
D																	
P	Pitch (Coarse thread)	0.7	0.8	1	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5	3.5
	Fine thread-1	-	-	-	-	1	1.25	1.5	1.5	1.5	1.5	2	1.5	2	2	2	2
	Fine thread-2	-	-	-	-	-	1	1.25	-	-	2	1.5	2	-	-	-	-
d <sub>a</sub>	max	4.6	5.75	6.75	7.75	8.75	10.8	13	15.1	17.3	19.5	21.6	23.8	25.9	29.2	32.4	35.6
	min	4	5	6	7	8	10	12	14	16	18	20	22	24	27	30	33
d <sub>e</sub>	max	/	/	/	/	/	/	16	18	22	25	28	32	34	38	42	46
	min	/	/	/	/	/	/	15.57	17.57	21.48	24.3	27.3	31	33	37	41	45
d <sub>w</sub>	min	5.9	6.9	8.9	9.5	11.6	14.6	16.6	19.6	22.5	24.9	27.7	31.4	33.2	38	42.7	46.6
e	min	7.66	8.79	11.05	12.12	14.38	17.77	20.03	23.35	26.75	29.56	32.95	37.29	39.55	45.2	50.85	55.37
m	max=nominal size	5	6	7.5	8	9.5	12	15	16	19	21	22	26	27	30	33	35
	min	4.7	5.7	7.14	7.64	9.14	11.57	14.57	15.57	18.48	20.1	21.16	25.16	26.16	29.16	32	34
w	max	3.2	4	5	5.5	6.5	8	10	11	13	15	16	18	19	22	24	26
	min	2.9	3.7	4.7	5.2	6.14	7.64	9.64	10.57	12.57	14.57	15.57	17.57	18.48	21.48	23.48	25.48
m <sub>1</sub>	min	2.3	3	3.8	4.2	4.9	6.1	7.7	8.2	9.8	11.29	11.9	13.5	14.2	16.6	18.2	19.8
n	max	1.45	1.65	2.25	2.25	2.75	3.05	3.8	3.8	4.8	4.8	4.8	5.8	5.8	5.8	7.36	7.36
	min	1.2	1.4	2	2	2.5	2.8	3.5	3.5	4.5	4.5	4.5	5.5	5.5	5.5	7	7
s	max=nominal size	7	8	10	11	13	16	18	21	24	27	30	34	36	41	46	50
	min	6.78	7.78	9.78	10.73	12.73	15.73	17.73	20.67	23.67	26.16	29.16	33	35	40	45	49
Series ②	Split Pin as in DIN EN ISO 1234	1x10	1.2x12	1.6x14	1.6x14	2x16	2.5x20	3.2x22	3.2x25	4x28	4x32	4x36	5x36	5x40	5x45	6.3x50	6.3x56

per 1000 units≈kg	1.1 2	2.3	3.16	3.96	7.3 5	-	-	-	38. 9	57.5	75. 2	-	131	192	264	333
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Thread Size		M36	(M39)	M42	(M45)	M48	(M52)	M56	(M60)	M64	(M68)	M72	(M76)	M80	(M85)	M90	M100
P	Pitch (Coarse thread)	4	4	4.5	4.5	5	5	5.5	5.5	6	6	-	-	-	-	-	-
	Fine thread-1	3	3	3	3	3	3	4	4	4	4	6	6	6	6	6	6
	Fine thread-2	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4
d <sub>a</sub>	max	38.9	42.1	45.4	48.6	51.8	56.2	61	64.8	69.1	73.4	77.8	82.1	86.4	91.8	97.2	108
	min	36	39	42	45	48	52	56	60	64	68	72	76	80	85	90	100
d <sub>e</sub>	max	50	55	58	62	65	70	75	80	85	90	95	100	105	110	120	130
	min	49	53.8	56.8	60.8	63.8	68.8	73.8	78.8	83.6	88.6	93.6	98.6	103.6	108.6	118.6	128.4
d <sub>w</sub>	min	51.1	55.9	60.6	64.7	69.4	74.2	78.7	83.4	88.2	92.9	97.7	102.4	107.2	111.9	121.1	135.4
e	min	60.7	66.4	71.3	76.95	82.6	88.25	93.56	99.21	104.86	110.51	116.16	121.81	127.46	133.11	144.08	161.02
m	max=nominal size	38	40	46	48	50	54	57	63	66	69	73	76	79	88	92	100
	min	37	39	45	47	49	52.8	55.8	61.8	64.8	67.8	71.8	74.8	77.8	86.6	90.6	98.6
w	max	29	31	34	36	38	42	45	48	51	54	58	61	64	68	72	80
	min	28.4	30.2	33.8	35.38	37.38	41.38	44.38	47.3	50.2	53.2	57.2	60.2	63.2	67.2	71.2	79.2
m <sub>1</sub>	min	21.9	23.5	25.9	27.5	29.1	32.3	34.7	37.1	39.3	41.7	44.9	47.3	49.7	52.9	56.1	62.5
n	max	7.36	7.36	9.3	9.3	9.3	9.3	9.3	11.4	11.4	11.4	11.4	11.4	11.4	14.4	14.4	14.4
	min	7	7	9	9	9	9	9	11	11	11	11	11	11	14	14	14
s	max=nominal size	55	60	65	70	75	80	85	90	95	100	105	110	115	120	130	145
	min	53.8	58.8	63.	68.	73.	78.	82.	87.8	92.8	97.8	102.	107.	112.	117.	127.	142.

				1	1	1	1	8					8	8	8	8	5	5
Series	Split Pin as in DIN	6.3x	6.3x	8x7	8x8	8x8	8x9	8x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1	10x1
②	EN ISO 1234	63	71	1	0	0	0	00	00	00	12	12	25	40	40	40	40	60
per 1000 units≈kg		447	584	710	860	1060	1300	1500	1800	2150	2500	2900	3300	3700	4100	5450	7600	

①, Number of Slots:

≤M39: 6

M42~M68: 8

≥M72: 10

②, The split pin lengths have been given for guidance only.

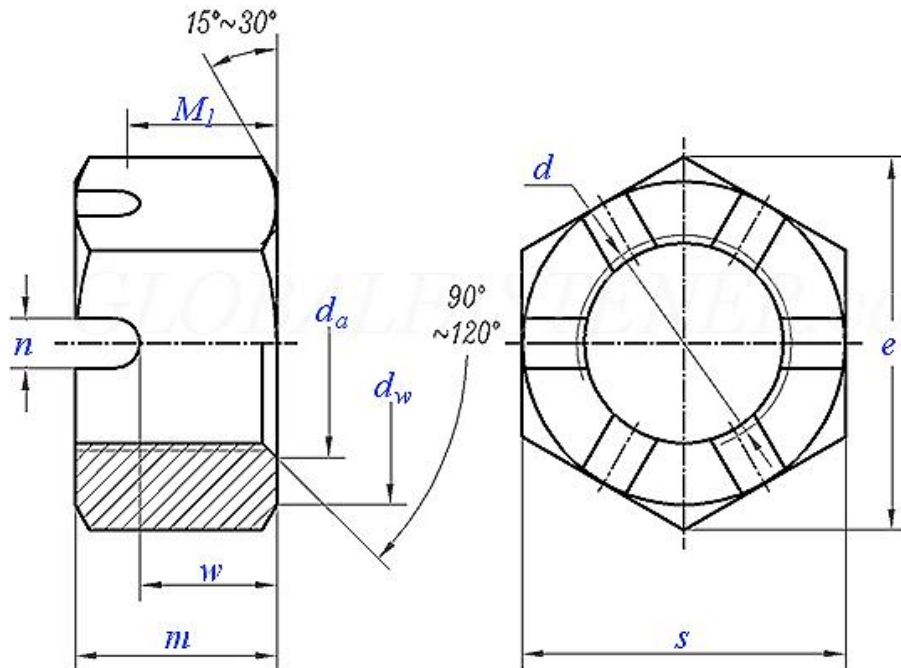
③, Material:

a) Steel, Property class:  $d < 5\text{mm}$ : subject to agreement;  $5\text{mm} \leq d \leq 39\text{mm}$ : 6,8,10;  $d > 39\text{mm}$ : subject to agreement. Standard DIN EN ISO 898-2

b) Stainless steel, Property class:  $d \leq 20\text{mm}$ : A2-70;  $5\text{mm} < d \leq 39\text{mm}$ : A2-50;  $d > 39\text{mm}$ : subject to agreement. Standard DIN EN ISO 3506-2

c) Non-ferrous metal, Property class (material): CuZn=copper zinc alloy. Standard DIN EN 28839

**DIN 935-3 - 2000 Hexagon Slotted Nuts - Part 3: Metric Coarse Pitch Thread, Product Grade C**



Thread Size	M12	M16	M20	M24	(M27)	M30	(M33)
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D								
d								
P	Pitch	1.75	2	2.5	3	3	3.5	3.5
d <sub>a</sub>	min	12	16	20	24	27	30	33
	max	13	17.3	21.6	25.9	29.2	32.4	35.6
d <sub>w</sub>	min	16.1	21.7	27.7	33.2	38	42.7	46.6
e	min	19.85	26.17	32.95	39.55	45.2	50.85	55.37
m	max=nominal size	15	19	22	27	30	33	35
	min	13.2	16.9	19.9	24.9	27.9	30.5	32.5
M <sub>1</sub>	min	10.6	13.5	15.9	19.9	22.3	24.4	26
n	min	3.5	4.5	4.5	5.5	5.5	7	7
	max	3.98	4.98	4.98	5.98	5.98	7.58	7.58
s	max=nominal size	18	24	30	36	41	46	50
	min	17.57	23.16	29.16	35	40	45	49
w	min	9.48	12.3	15.3	18.16	21.16	23.16	25.16
	max	10	13	16	19	22	24	26
Series	Splint pins (ISO 1234)	3.2 × 22	4 × 28	4 × 36	5 × 40	5 × 45	6.3 × 50	6.3 × 56
per 1000 units≈kg		-	44	82	142	208	295	352

Material:

Steel, Property class: ≤M16: 5; > M16: 4. Standard DIN EN 20898-2