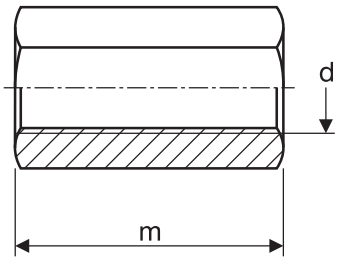
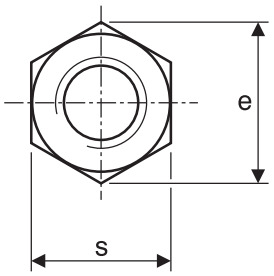
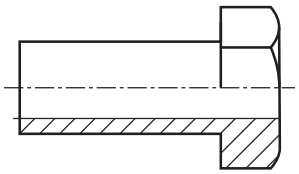
Hexagon Connection Nuts
DIN 6334

Hexagon Connection Nut





Bolt Extension



DIN 6334 Dimensions of nuts

Nominal size and thread diameter d	Pitch of thread p	Width across flats s	Width across corners e	Overall length m
	coarse pitch	min.	min.	min.
M6	1.00	10.00	11.05	18.00
M8	1.25	13.00	14.38	24.00
M10	1.50	17.00	18.90	30.00
M12	1.75	19.00	21.10	36.00
M14	2.00	22.00	24.49	42.00
M16	2.00	24.00	26.75	48.00
M18	2.50	27.00	29.56	54.00
M20	2.50	30.00	33.53	60.00
M22	2.50	32.00	35.03	66.00
M24	3.00	36.00	41.60	72.00
M27	3.00	41.00	45.20	81.00
M30	3.50	46.00	50.85	90.00
M33	3.50	50.00	55.37	99.00
M36	4.00	55.00	60.79	108.00

Hexagon Connectors, also commonly known as Studding Connectors or Couplers, are predominantly used as a method of extending tie-rods and allthread bars. The rule concerning their installation is simply that 50% of the connector should be engaged on each part being joined to ensure the tensile strength is maintained.

Most connectors are manufactured from mild steel hexagon bar, in some cases round bars, being drilled and tapped 100% of its length internally. Whilst it is advised to seek a higher strength material grade when applications involve the extension or connection of 8.8 grades and higher, independent tests have been performed to ensure compatibility with use on higher grades including 8.8.

All of our standard range of connectors will be supplied as Grade 8 or will be advised that they are compatible for use up to 8.8 grades. We stock a comprehensive range of metric sizes up to M36 with sizes M39 and above manufactured to order with a few days lead time.

Available Grades

All available in self-colour, zinc plated, and galvanized tapped oversize from stock. Other finishes and materials are available on request.

Bolt Extensions are also available, but supplied as a headed hexagon blank, drilled and tapped internally. Dimensions not shown.

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Prevailing Torque Type Hexagon Thin Nuts

DIN 985 with non-metallic insert

Specification for nuts and reference standards

Characteristic		Standard
Material		Steel
General Requirements		As specified in DIN 267 Parts 1 and 15.
Thread	Tolerance	6H[a]
	As specified in	DIN 12 Part 12 and 15.
Mechanical Properties (nut body)	Property Class (material)	d ≤ M39: 5, 6[b], 8, 10 d > M39: by agreement
	International Standards	M3 ≤ d ≤ M39: ISO 898-2 d < M3 and d > M39: as agreed
Material (insert)		Non-metallic, e.g. polyamide.
Performance (prevailing torques)		As specified in DIN 267 Part 15.
Limit deviations and geometrical tolerances	Property Grade	For sizes up to M16: A (previously, design m). For sizes over M16: B (previously, design mg).
	As specified in	ISO 4759 Part 1
Surface finish		As processed.
		DIN 267 Part 2 shall apply with regard to surface roughness.
		DIN 267 Part 20 shall apply with regard to permissable surface discontinuities.
		DIN 267 Part 9 shall apply with regard to electroplating.
Acceptable inspection		DIN 267 Part 5 shall apply with regard to acceptance inspection.

a See DIN 267 Part 15 in this respect.
b Only for fine thread nuts.

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