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Introduction to Connections

Bolts and Bolted Connections



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Bolted connections possess advantage such as

- a. Less skilled labour required
- b. Fast pace of work
- c. Easy assembling and disassembling
- d. All of the above



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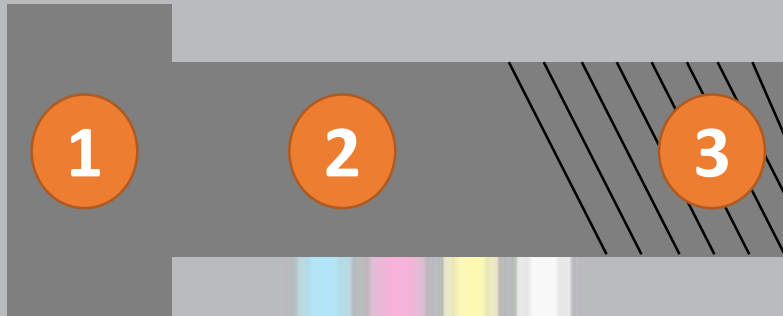
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Name the components of bolt in the following diagram



- a. 1. nut, 2. shank, 3. washer
- b. 1. washer, 2. shank, 3. thread
- c. 1. bolt head, 2. shank, 3. thread
- d. 1. bolt, 2. thread, 3. shank

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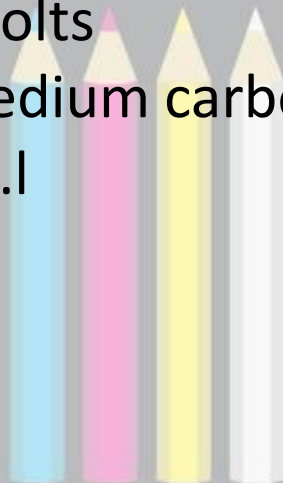
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Select correct statements about black bolts

1. A.k.a. unfinished bolts
2. They are low to medium carbon steel made bolts
3. Designated as M.d.l

- a. 1 and 2
- b. 2 and 3
- c. 1 and 3
- d. 1, 2 and 3



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When diameter (d) of black bolt is more than 24 mm then bolt hole diameter is taken as



- a. d mm
- b. $(d + 1)$ mm
- c. $(d + 2)$ mm
- d. $(d + 3)$ mm

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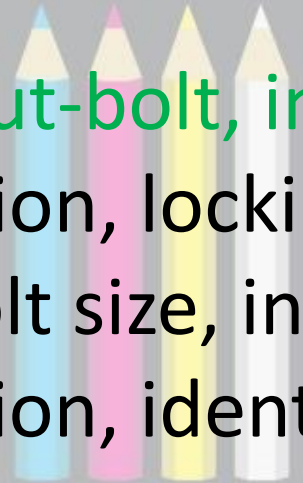
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Cotter pins are used for _____ and washers are used for _____

- 
- a. Locking the nut-bolt, inducing tension
 - b. Inducing tension, locking the-nut bolt
 - c. Identifying bolt size, inducing tension
 - d. Inducing tension, identifying bolt size

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Bolts are graded as x.y which imply

- a. x is nominal tensile strength and y is yield strength
 - b. x is nominal tensile strength as $[x*10]$ and y is yield strength as $[y*10]$
 - c. x is nominal tensile strength as $[x*100]$ and y is yield strength as $[y*100]$
 - d. x is nominal tensile strength as $[x*100]$ and y is yield strength as $[0.y*(x*100)]$
- 

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High strength bolt contains

- a. Medium carbon content
- b. Low carbon content
- c. High
- d. Very high



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‘HSFG’ bolt stands for

- 
- a. High Strength Friction Gauge
 - b. **High Strength Friction Grip**
 - c. High Shear Friction Grip
 - d. High Shear Friction Gauge

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IS : _____ covers HSFG bolts and nuts

- a. 800
- b. 875
- c. 3757
- d. 857



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Select the correct statements regarding HSFG bolts

1. Slip is allowed between connected members
2. Loads are transferred by friction
3. Use of HSFG bolts lead to less size of gusset plate required

a. 1 & 2 *b.* 2 & 3 *c.* 1 & 3 *d.* 1,2 & 3

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State whether the following statement is true or false

“Precision and semi precision bolts are a.k.a. close tolerance bolts”



- a. True
- b. False

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