

LHstix®

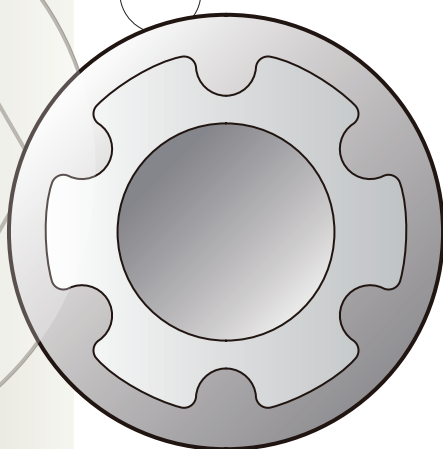
# LH-SS BOLT

## Lightweight-Bolt

- ◆ Security Screw — fastening with special tool
- ◆ Designed by excellent torque transmission



TOP



Head Volume

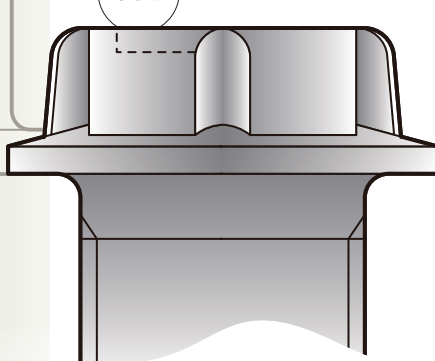
◀ 50%

Hexagon bolt with flange  
(JIS B1189)

LH-SS Bolt

Comparison with Hexagon Flanged

SIDE



Head Height

◀ 60%

ELECTRIC VEHICLE

AIRPLANE

ROBOT ARM

# LH-SS BOLT Lightweight Bolt

## [Features]

- ◇Maximum torque transmission is achieved from 0 degree driving angle design.
- ◇Allows much smaller thin screw head dimension.
- ◇Allows no cam-out of tightening tools
- ◇Improve tool high durability

## Comparison with LH-SS vs HEX Head

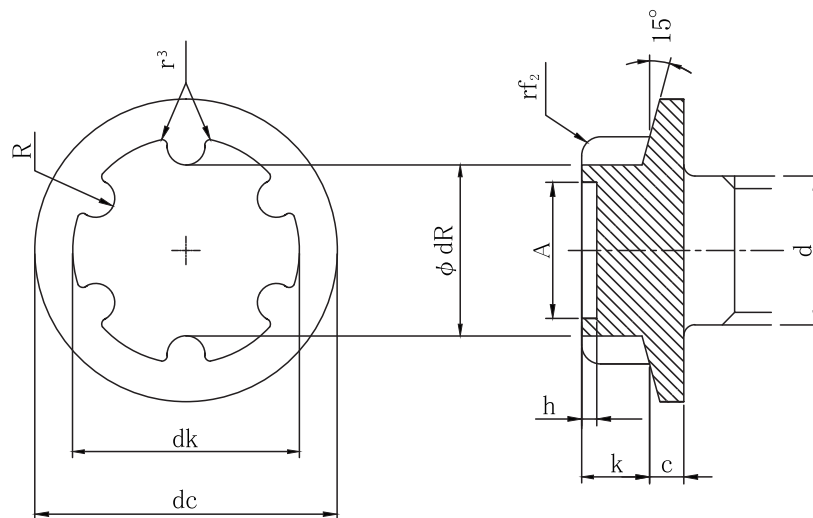
| Diameter | Height | Volume |
|----------|--------|--------|
| 80%      | 60%    | 50%    |

LH-SS

Hexagon bolt with flange  
(JIS B1189)

# LH-SS

Basic Shape  
&  
Basic Size



Unit : mm

| d  | LH-SS No | dk         |            | k          |            | $\phi$ dR  |           | R          |           | $r^3$ | dc   | c    | A    | h    |
|----|----------|------------|------------|------------|------------|------------|-----------|------------|-----------|-------|------|------|------|------|
|    |          | Basic Size | Tolerance  | Basic Size | Tolerance  | Basic Size | Tolerance | Basic Size | Tolerance | Max   | Ref. | Ref. | Ref. | Ref. |
| 4  | LH4SS    | 6.0        | $\pm 0.2$  | 1.60       | $\pm 0.15$ | 4.52       | $+0 -0.2$ | 0.50       | $+0.05 0$ | 0.20  | 8    | 0.8  | 3.6  | 0.4  |
| 5  | LH5SS    | 7.5        |            | 2.00       |            | 5.60       |           | 0.65       |           | 0.26  | 10   | 1.0  | 4.5  | 0.5  |
| 6  | LH6SS    | 9.0        |            | 2.40       |            | 6.78       |           | 0.75       |           | 0.30  | 12   | 1.2  | 5.4  | 0.6  |
| 8  | LH7SS    | 10.5       | $\pm 0.25$ | 3.15       | $\pm 0.25$ | 7.91       | $0 -0.25$ | 0.85       | $+0.1 0$  | 0.35  | 14   | 1.4  | 6.3  | 0.7  |
| 10 | LH8SS    | 12.0       |            | 3.60       |            | 9.04       |           | 1.00       |           | 0.40  | 16   | 1.6  | 7.2  | 0.8  |
| 12 | LH10SS   | 15.0       |            | 4.50       |            | 11.30      |           | 1.25       |           | 0.50  | 20   | 2.0  | 9.0  | 1.0  |
| 14 | LH12SS   | 18.0       |            | 5.40       |            | 13.56      |           | 1.50       |           | 0.60  | 24   | 2.4  | 10.8 | 1.2  |
| 16 | LH14SS   | 21.0       |            | 6.30       |            | 15.82      |           | 1.75       |           | 0.70  | 28   | 2.8  | 12.6 | 1.4  |

$rf_2$  is depends on to pressure



OSG SYSTEM PRODUCTS

OSG SYSTEM PRODUCTS CO.,LTD.

8-24 Tedor, Kaminagayama-cho, Toyokawa City,

Aichi Pref. 441-1202, Japan

E-mail:osp-info@osg.co.jp <http://www.j-osp.com/>