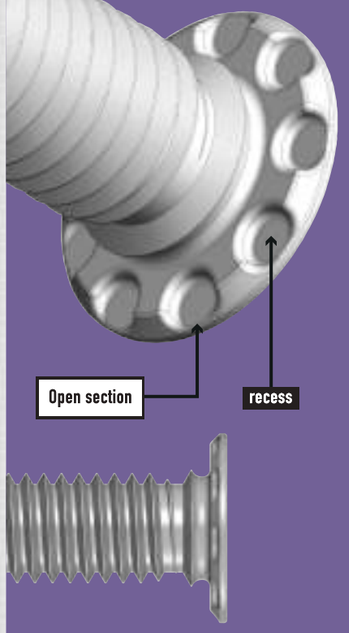
Flush-head

JOISTUD-FH



- Ultra-thin head thickness
- 9 circular recesses, each partially open, are provided.

New JOISTUD with a flat head

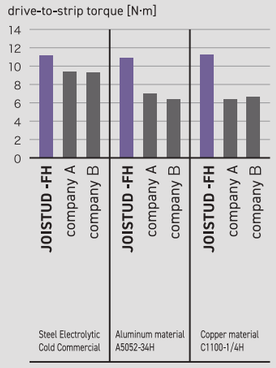
Significantly reduces head protrusion

The ultra-thin head and recessed design enable the entire head to be press-fit into the mating material. This minimizes head protrusion, contributing to space savings.


JOISTUD -FH

High rotation resistance

High rotation resistance is achieved as the mating material fills the recess on the head seating surface.



*According to our research *Screw size: M5

High pull-out strength

Increasing the head outer diameter reduces head indentation, enabling fastening at high torque.


SECC steel

No subsidence up to 13N·m,and breakage at the threads.


Aluminum material A5052-34H

No subsidence up to 13N·m,and breakage at the threads.


Copper material C1100-1/4H

No indentation up to 12 N·m, and breaking at the threads.

*According to our research *Screw size: M5

JOISTUD

■ Applicable sizes

Type	S	HT	SS	WP	FH
Size	Φ5、Φ6	Φ5、Φ6	Φ6	Φ6	Φ4、Φ5、Φ6

Please feel free to contact us regarding specifications not listed.

■Typical application examples

Automotive industry

☑Battery frame ☑Battery module ☑Junction box ☑Inverter ☑DC-DC converter
☑Window regulator ☑Seat frame ☑Airbag ☑Power sliding door ☑Sunroof

Home appliances and energy industry

☑Solar panels ☑Storage battery ☑Wind power generator
☑Power generator ☑HDD

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NITTOSEIKO

HT
HIGH-TORQUE

S
STANDARD

SS
SPACE-SAVING

WP
WATERPROOF

FH
FLUSH-HEAD

"Self-Clinching Stud Bolt" Series

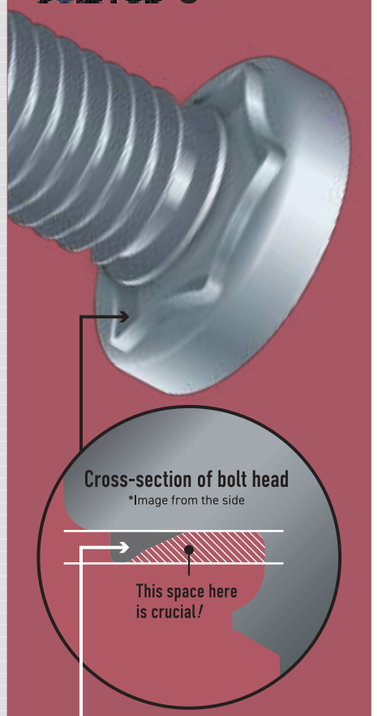
JOISTUD

Find the perfect fit for any application
“Self-Clinching Stud Bolt” Series

JOISTUD

Our original brand of self-clinching stud bolts for press-fit installation.
Select the type to match your specific challenges.
Whether addressing “thin sheet metal,” “burr prevention,” “space savings,” or “embedded applications,” you can confidently adopt our self-clinching stud bolts.

Standard
JOISTUD-S



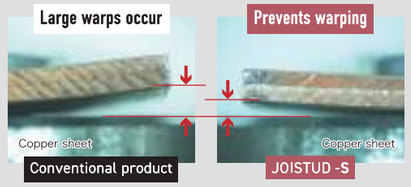
It's not a lobe with uniform thickness.
A ring-shaped anti-rotation protrusion that leaves only the edge of the lobe.

The new standard in self-clinching stud bolts.
Its unique anti-rotation protrusion shape achieves “warp suppression,” “burr suppression,” and “enhanced anti-rotation strength.”
Ideal for applications requiring thin plates or contamination countermeasures.

▲Product Video

Prevent warping

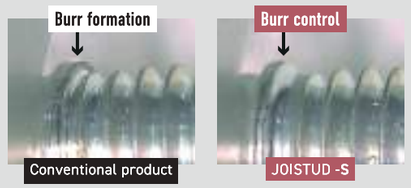
With the anti-rotation protrusion designed in a ring shape, outward material flow during press-fitting is reduced and stress is relieved, helping to prevent warping.



Important Highly effective for "thin sheets", "aluminum", and "copper" prone to warping!

Burr control

With the anti-rotation protrusion designed in a ring shape, material around the male thread shaft flows into the inside of the protrusion, which helps reduce burrs.

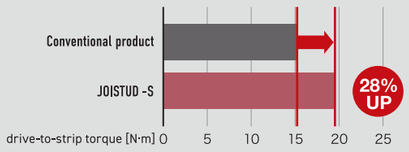


Important Addresses the contamination issue, which is top priority for electrification!

Improved anti-rotation strength

With the anti-rotation protrusion designed in a ring shape, the anti-rotation strength before the fasteners break and loosen (drive-to- strip torque) is improved.

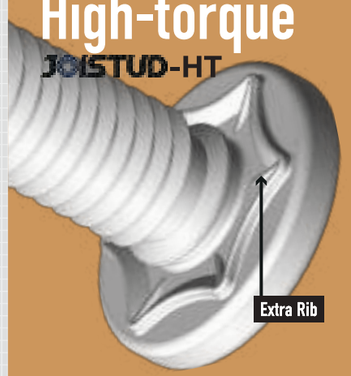
Comparison of anti-rotation strength
(drive-to-strip torque)
*For nominal diameter M6
*Mating material: SECC sheet (t=1.6)



Important Applicable to "thin sheets", "aluminum", and "copper" where anti-rotation strength is a concern!

*The ratio may vary depending on usage conditions.

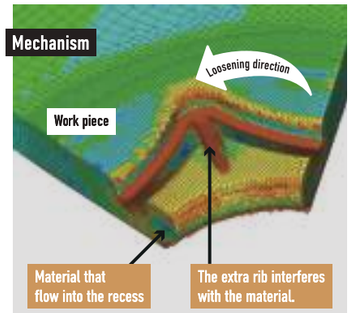
High-torque
JOISTUD-HT



● The extra rib with a gentle slope from the ring circumference to the center of the ring.

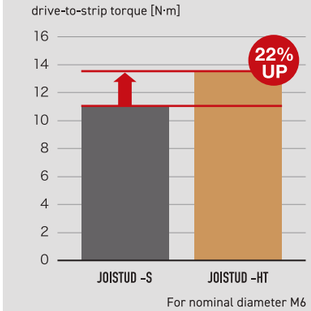
Further enhanced the “rotation resistance strength” of JOISTUD-S.

Mechanism



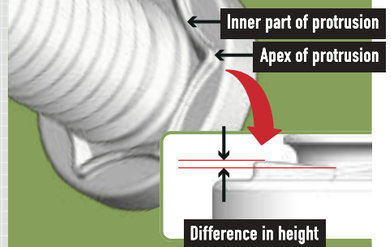
Combination of extra ribs with outer-rimmed protrusion provide an even greater anti-rotation effect.

Experiment Anti-rotation strength (drive-to-strip torque) measurement



*The ratio may vary depending on usage conditions.

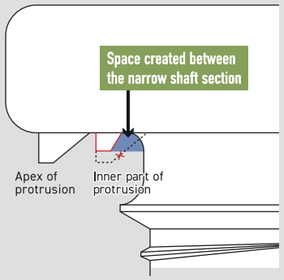
Space-saving
JOISTUD-SS



● Difference in height between apex and inner part of protrusion
● Revised slope angle of the protrusion

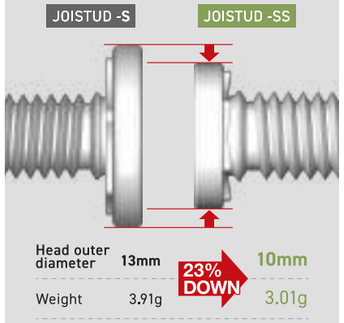
Add space-saving design to JOISTUD-S

Mechanism



Reduced warping and burr even with a small head

Experiment Head outer diameter calculation



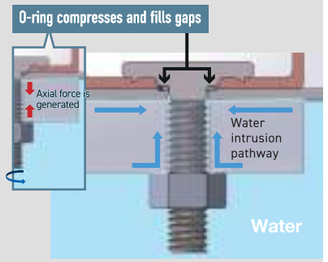
*The ratio may vary depending on usage conditions.

Waterproof
JOISTUD-WP

● Knurling is placed outside to prevent O-ring from being crushed during installation.

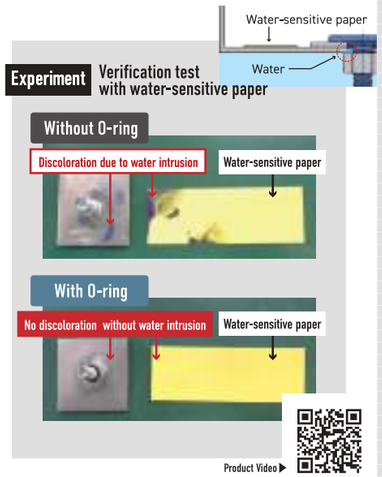
Add waterproof function to JOISTUD-S

Mechanism



O-ring compresses when torque is applied to the nut.
Prevents water intrusion.

Experiment Verification test with water-sensitive paper



Product Video ▶