



HIOS CLOVER® PAT.

HIOS Clover would offer precise screw tightening and help to improve quality of digital products.

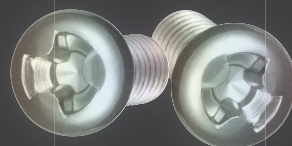


New design

- Would prevent cam out, require a less thrust force to be tightened and stabilizes your products' quality.
- The perfect fit between the screws and driver bits would improve efficiency and stability in screw tightening.
- Thanks to the wide contact area, wear of driver bits would be reduced and life would be extended accordingly.
- Suitable for automated production lines.

HIOS Clover® Bit PAT.

Exclusively developed for using with Hios Clover® Screws for smoother fit and work.



Comparison with other companies' "Y" recess screw

NEW

HIOS CLOVER® PAT.

NEW
Angle of the wings
78.5°

NEW
Width of the wings
Fan-shaped design
Wide

Point

- The Clover drive translates applied torque efficiently into screw rotation thanks to the inward force generated by the wide fan and straight tip design. And that prevents cam out and increases tightening force.

Tip
Straight

Driver bit does not pop out.

Drive area
Large*

※Double that of the other companies' "Y" recess screw

Points

- Because the drive area is large, less force is applied per unit area, so the recess hardly gets damaged.
- With no upward force being generated when rotated, thanks to the drive profile, the screw requires a less thrust to be tightened as the driver bit does not pop out.
- Because drive force per unit area is smaller, wear of the driver bit would be reduced and life would be extended.
- Offers highly reliable fastening thanks to the perfect fit between the driver bit and screw recess.

Other companies' "Y" recess screw

Angle of the wings
Approx 120°

Width of the wings
Narrow

Point

- The narrow wings bring poor torque transmission and causes cam out and reduces tightening force due to the upward force generated by the tapered drive.

Tip
Tapered design

Driver bit pops out.

Drive area
Small

Points

- Because the drive area is small, more force is applied per unit area, so the recess easily gets damaged.
- With upward force being generate when rotated, it requires a more thrust force to prevent the driver bit from popping out and causing cam out.
- The driver bit easily gets worn due to the large drive force per unit area.
- The poor fit between the driver bit and screw recess makes tightening work unstable, and causes screw tightening errors more often.

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● Specifications and design are subject to change without notice. ● Catalog details current as of October, 2010.

