# TECHNICAL DATA SHEET
# REMFORM® II HS™

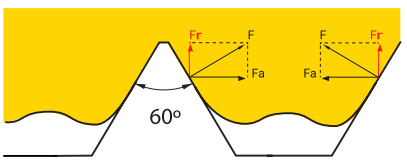
## When to choose REMFORM® II HS™ screws?

**REMFORM® II HS™** screws are high-performance screws designed for direct fastening into thermoplastics. Its design ensures efficient fastening with high pull-out and superior loosening resistance, resulting in a more resistant, safe and optimised assembly.

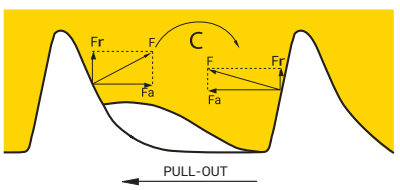
**REMFORM® II HS™ screws** are suitable for applications that require:

- High clamping force.
- High pull-out resistance.
- High resistance to vibration loosening.

## Benefits



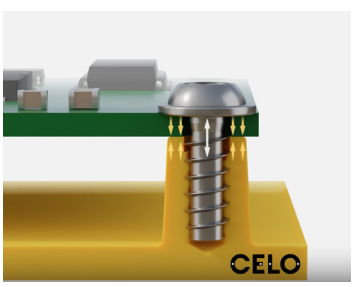

Self-tapping screw




REMFORM® II HS™ screw

- **High Pull-Out Resistance:** Ensures secure fastening in high-demanding applications.
- **Reduced Risk of Plastic Cracking:** The asymmetric thread minimizes radial stress, preventing material fractures.
- **Reduce Total Cost of Assembly**: It allows for bosses with less external diameter.
- **Superior Torsional Strength:** Ideal for reinforced plastics or high-strength materials.
- **Automation-Enabled Design**: Optimized for high-speed assembly processes, ensuring efficiency in automated production lines.

## How do REMFORM® II HS™ screws work?




**REMFORM® II HS™** screws form their threads and create a strong nut member into reinforced plastics:

- Minimal radial tension during thread forming minimises the risk of overstressing the plastic, **allowing for bosses with thinner walls.**
- Its optimized thread design provides excellent material contact, resulting in **high resistance to stripping and vibrational loosening resistance.**
- It allows for a reduction in screw diameter and/or length. Thanks to an optimized core diameter, **reducing the total cost of assembly.**

## Main applications

**REMFORM® II HS™** screws are suitable for industries such as automotive, electronics, and medical devices, where reliable plastic fastening is essential.

- Automotive Components – Secure fastening of plastic parts in vehicle interiors and exteriors.
- Electronic Devices – Reliable assembly of plastic housings and electronic components.
- Medical Equipment – Precision fastening in plastic-based medical devices.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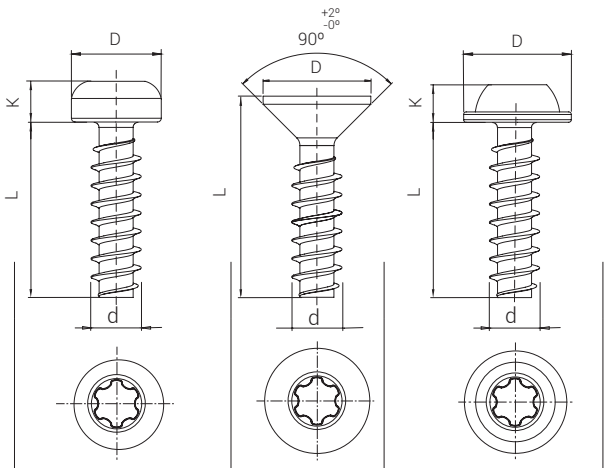
## Dimensional data - metric sizes

| Nominal Value (mm) | Tolerance h14 | Tolerance h15 |
|---|---|---|
| To 3 | 0 -0.25 | 0 -0.40 |
| Over 3 to 6 | 0 -0.30 | 0 -0.48 |
| Over 6 to 10 | 0 -0.36 | 0 -0.58 |
| Over 10 to 18 | 0 -0.43 | 0 -0.70 |




Ref. HS81PA | Ref. HS82PA | Ref. HS87PA

| d | d1 | d2 min. | P | Breaking torque min.(Nm) | D h14 | K h14 | TORX Plus® AUTOSERT® | D h14 | TORX Plus® AUTOSERT® | D h15 | K h14 | TORX Plus® AUTOSERT® |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.8 | 1.8 +0.08 | 1.17 | 0.71 | 0.29 | 3.20 | 1.50 | 5 IP | | | 4.20 | 1.40 | 5 IP |
| 2.0 | 2.0 +0.08 | 1.28 | 0.78 | 0.41 | 3.40 | 1.60 | 6 IP | 4.00 | 6 IP | 4.30 | 1.50 | 6 IP |
| 2.5 | 2.5 +0.10 | 1.64 | 0.95 | 0.85 | 4.30 | 2.10 | 8 IP | 5.00 | 8 IP | 5.30 | 2.10 | 8 IP |
| 3.0 | 3.0 +0.10 | 2.01 | 1.12 | 1.55 | 5.30 | 2.30 | 10 IP | 6.00 | 10 IP | 6.30 | 2.20 | 10 IP |
| 3.5 | 3.5 +0.10 | 2.37 | 1.29 | 2.52 | 6.20 | 2.60 | 15 IP | 7.00 | 15 IP | 7.30 | 2.60 | 15 IP |
| 4.0 | 4.0 +0.10 | 2.73 | 1.46 | 3.83 | 7.00 | 3.10 | 20 IP | 8.00 | 20 IP | 8.30 | 2.90 | 20 IP |
| 4.5 | 4.5 +0.10 | 3.09 | 1.63 | 5.53 | 7.50 | 3.40 | 20 IP | | | 10.00 | 3.00 | 20 IP |
| 5.0 | 5.0 +0.15 | 3.43 | 1.80 | 7.50 | 9.00 | 3.60 | 25 IP | 10.00 | 25 IP | 10.50 | 3.60 | 25 IP |
| 6.0 | 6.0 +0.15 | 4.16 | 2.14 | 13.30 | 10.80 | 4.20 | 30 IP | 12.00 | 30 IP | 12.50 | 4.00 | 30 IP |
| 7.0 | 7.0 +0.18 | 4.86 | 2.48 | 19.44 | 12.50 | 4.80 | 40 IP | | | 15.00 | 4.80 | 40 IP |
| 8.0 | 8.0 +0.18 | 5.58 | 2.82 | 32.10 | 14.00 | 4.80 | 40 IP | | | 17.00 | 5.00 | 40 IP |

**Note:** Dimensions in mm. For other data, please contact our technical department.

## Screw design specifications

We manufacture REMFORM® II HS™ screws tailored to the specific functional requirements of your application.

Their design flexibility allows us to adapt head styles, recess types, dimensions, and coating configurations—ensuring optimal performance precisely where and how you need it.

Additionally, we offer a wide range of sizes and configurations available in stock.

Further information at: www.celofasteners.com
Contact us by E-mail: celo@celo.com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