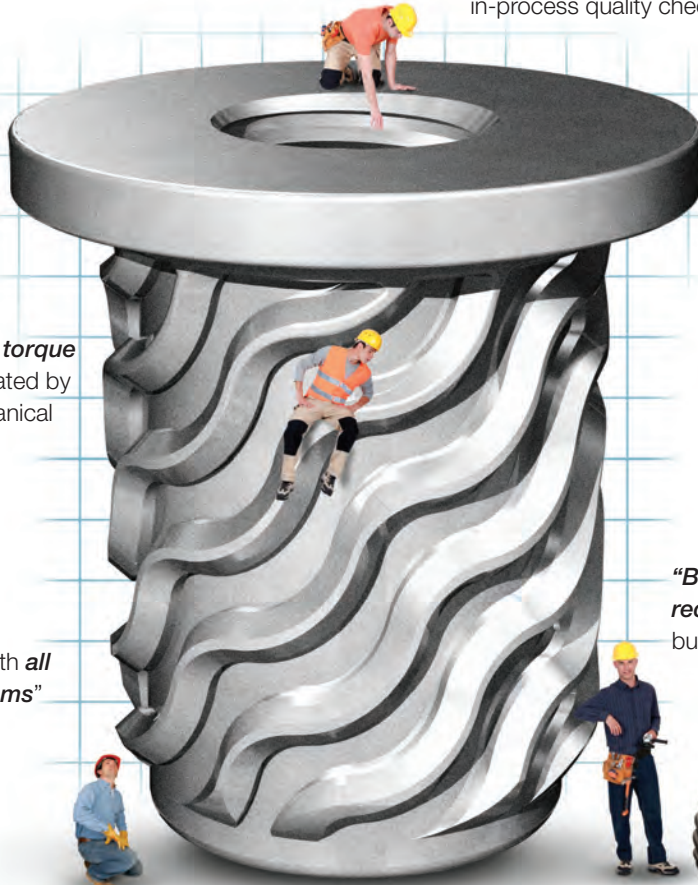


Big Advantages.

"Thread problems are a thing of the past. Continuous in-process quality checks avoid costly component flaws"



"Best-in-class torque resistance created by a unique mechanical bond"

"Oversized flange diameters are no problem with cold-formed manufacturing"

"Compatible with all insertion systems"

"Base material cost reduction delivers budget advantages"



Automotive Plastic Component Inserts

The innovative GripTide™ cold-formed features mechanically lock the insert in virtually any plastic. The pattern is compatible with all insertion techniques and excels when installed using induction or insert-molding systems.



The design flexibility built into the GripTide™ cold-formed manufacturing process allows for larger flanges, double ended studs, ball studs and complicated specials at market price competitiveness.

ITW Shakeproof Industrial

www.shakeproof.com

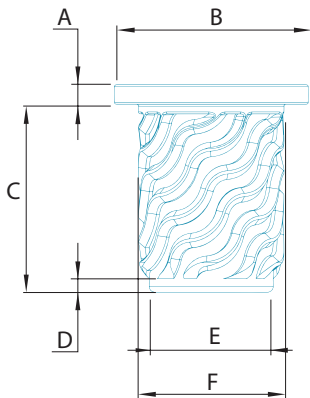
Designed for High Performance with Cold-Forming Practicality

Incorporating innovative features that make your components better.

Griptide™ Benefits

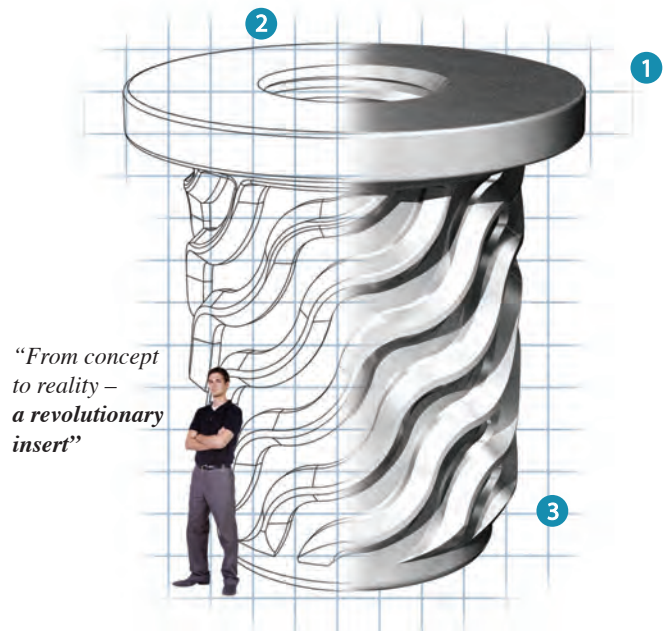
- Base material cost reduction
- Eliminates brass material volatility
- Superior performance
- Compatible with all insertion systems
- Steel-to-steel joint strength
- Corrosion resistance
- Zinc Nickel resistant to ultra-high temps
- Part reduction size provides for lightweighting
- Special sizes and custom design available upon request

Griptide™ Specifications



Part Number	Internal Thread	Flange Thickness	Flange Diameter	Under-Flange Length	Pilot Length	Pilot Diameter	Typical Griptide Pattern Diameter
		A	B	C	D	E	F
M5SIP Standard	M5	1.30	9.50	9.50	1.00	7.00	8.26
M6SIP Standard	M6	1.25	11.00	12.70	1.25	8.00	9.73
M8SIP Standard	M8	1.50	15.50	11.00	1.25	12.00	14.15
M10SIP Standard	M10	1.50	19.00	11.00	1.25	15.00	17.65

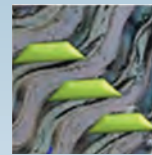
All dimensions in millimeters. • Other sizes and configurations are available.



“From concept to reality – a revolutionary insert”

1 High Torque Resistance / High Pull-Out Resistance

Griptide™ multi-directional patterns were designed for maximum resistance to torque and pull-out. Repeated testing has demonstrated remarkable success including a bolt-breaking hold on a variety of plastics.



Anti-Rotation

High Pullout

2 No Threads? – Won't Happen!



Continuous 100% part inspection monitors every insert during all phases of the manufacturing process.

3 Design Flexibility



Cold-Forming provides design freedom while maintaining dimensional repeatability.

