



UnifiM.I.TM

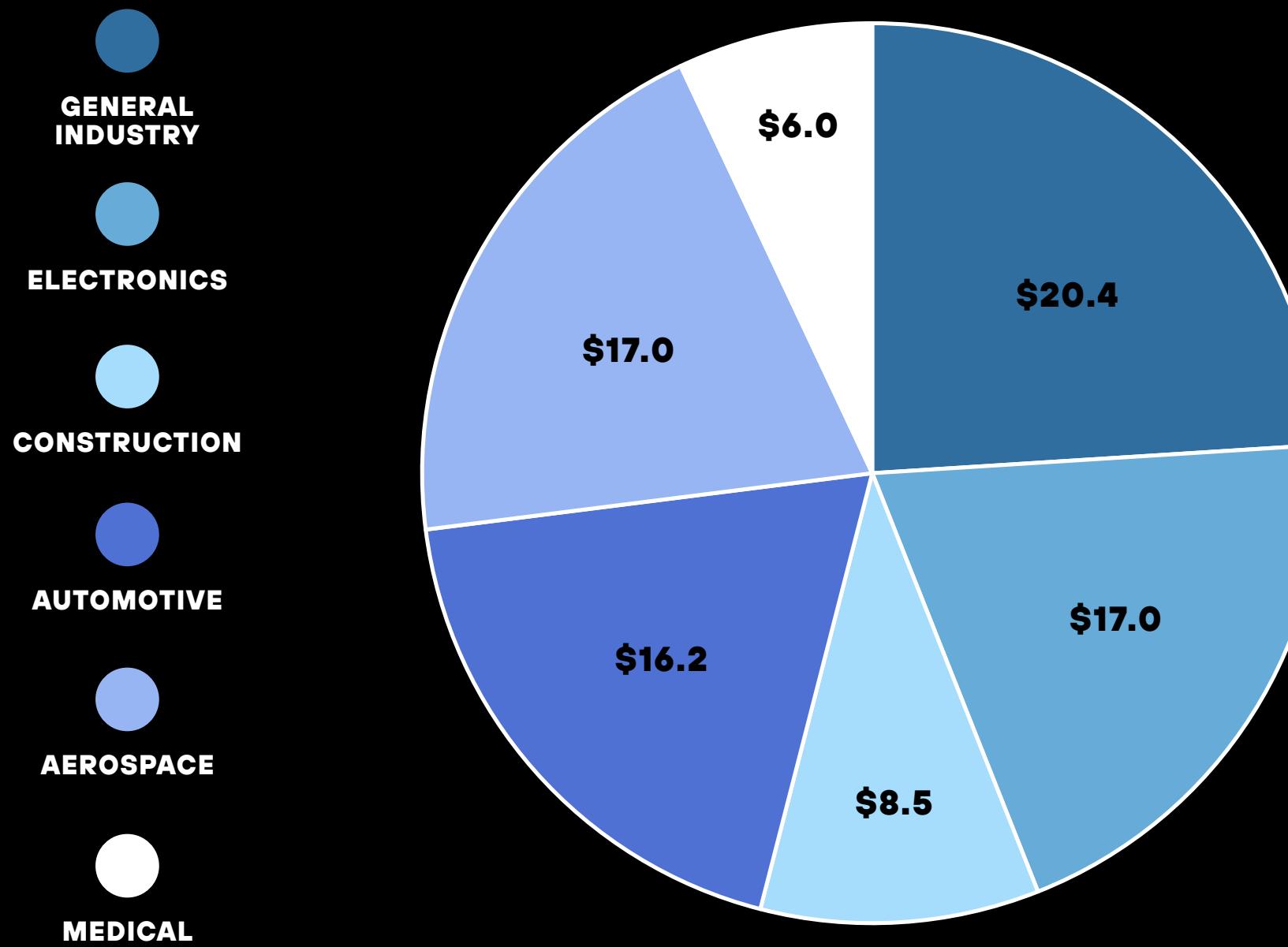
CONSTRUCTION, LLC

AN INTERFACE TECHNOLOGY COMPANY

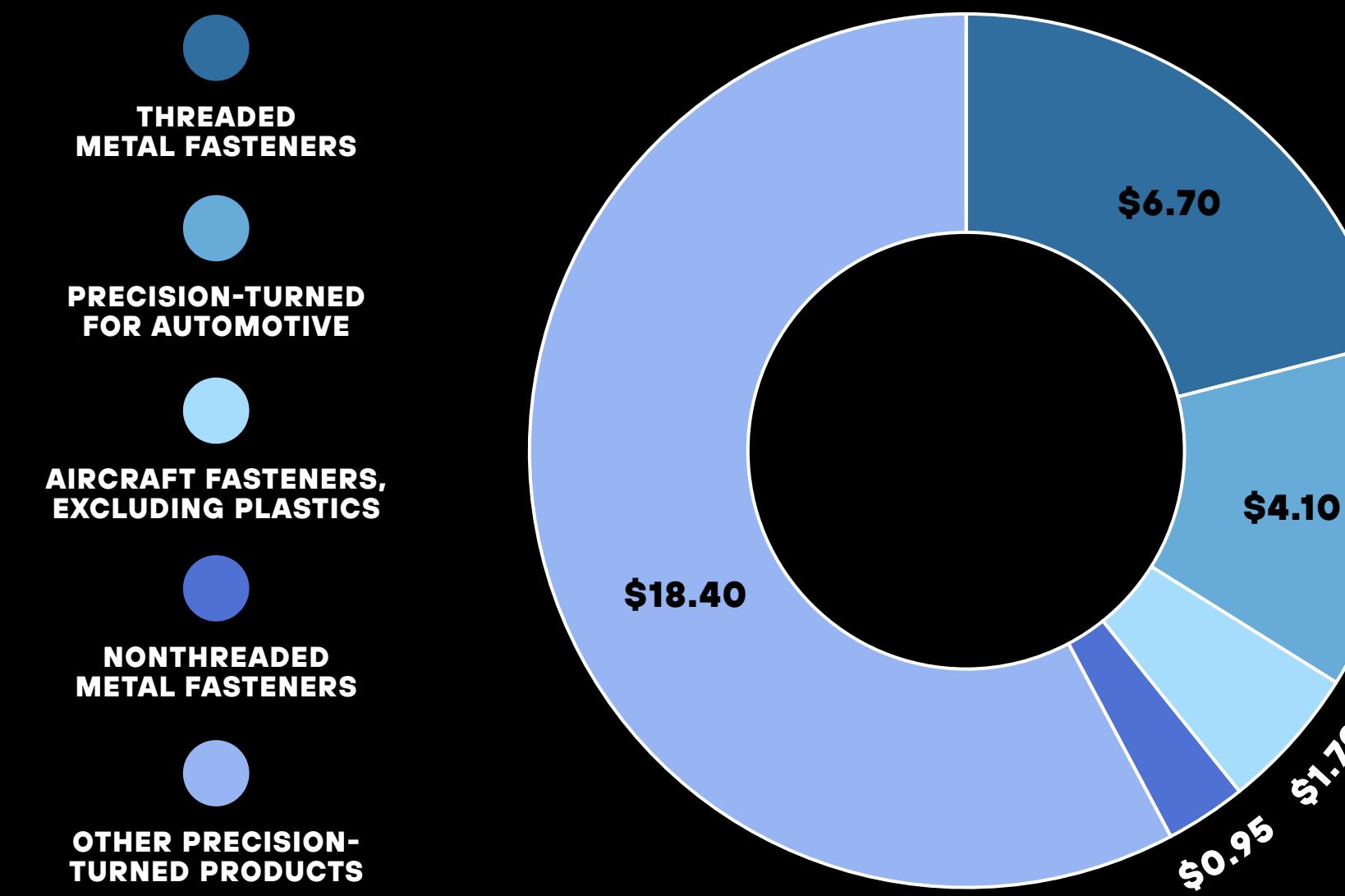


INDUSTRY BREAKDOWN FOR FASTENERS

GLOBAL FASTENER SEGMENTS - \$85B



2024 REVENUE (\$B)



IBISWorld | Screw, Nut & Bolt Manufacturing in the US | May 2024

StanleyBlack&Decker| Investor Presentation| August 2024





EXPERIENCE MATTERS

UNIFIM.I. FASTENER TECHNOLOGY
TRANSFORMED THE MEDICAL
DEVICE INDUSTRY.

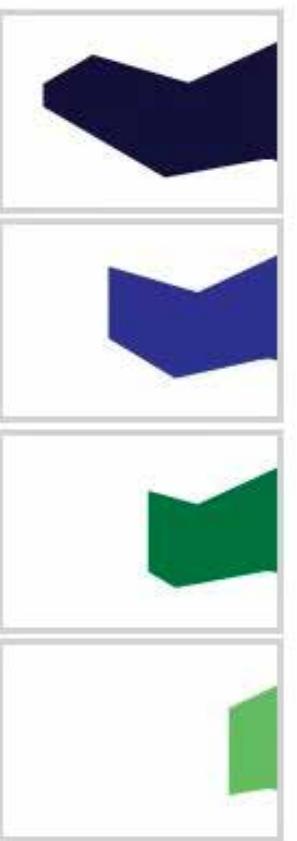
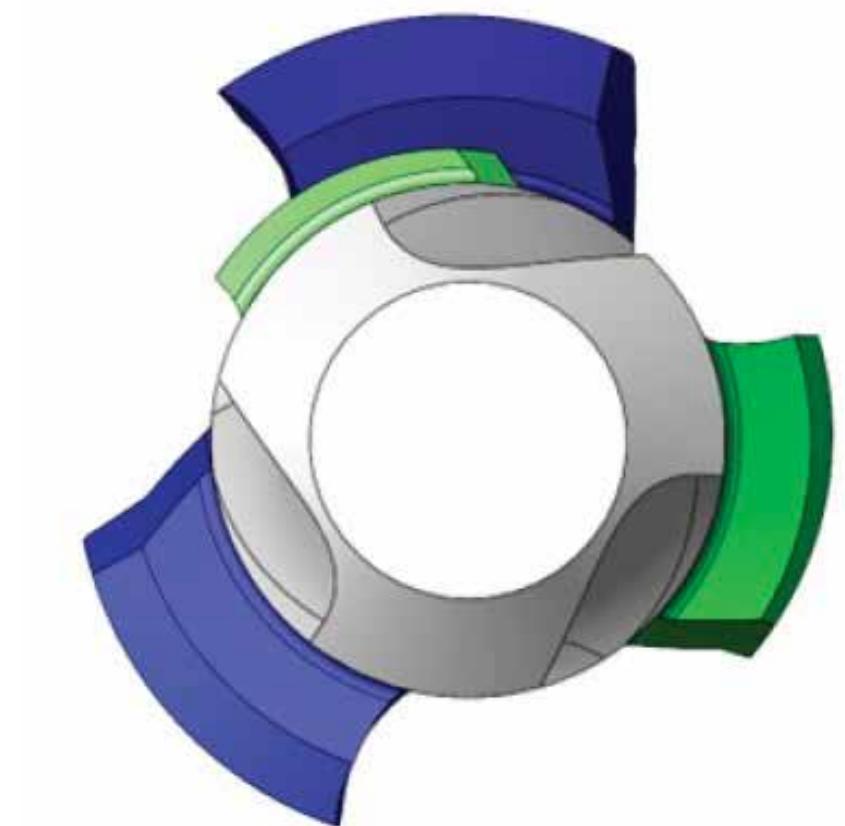
UTILIZED DAILY BY EXPERT SURGEONS
100 UNIVERSITY HOSPITALS TO
MAINTAIN IMPLANT STABILITY.



UNIFIM.I. PERFORMANCE CAPABILITIES

- PRESERVE THE SUBSTRATE
- INSTANTLY INTERLOCK TO THE PRESERVED SUBSTRATE
- MAINTAIN STABILITY OVER TIME

SUBSTRATE PRESERVING TAP



EXPERIENCE THE DIFFERENCE

CONVENTIONAL 'BUTTRESS' THREADS VS. UNIFIM.I. THREADS

INSERTION TEST



Conventional

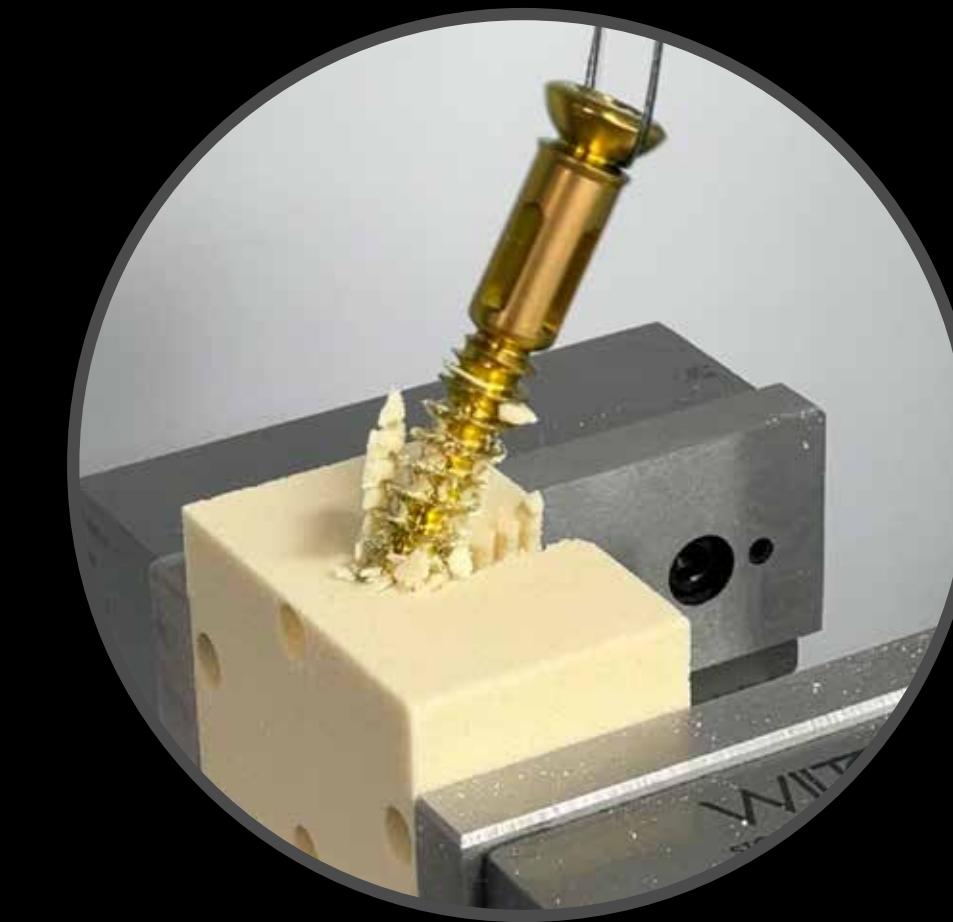
- Crushes and plows during insertion
- Creates a damaged and unstable interface



UnifiM.I.

- Cleanly prepares and preserves during insertion
- Creates a stable and mechanically integrated interface

PULL TEST



Conventional

- Non-integrated
- Interface crushed and fractured
- Limited load resistance on tension side



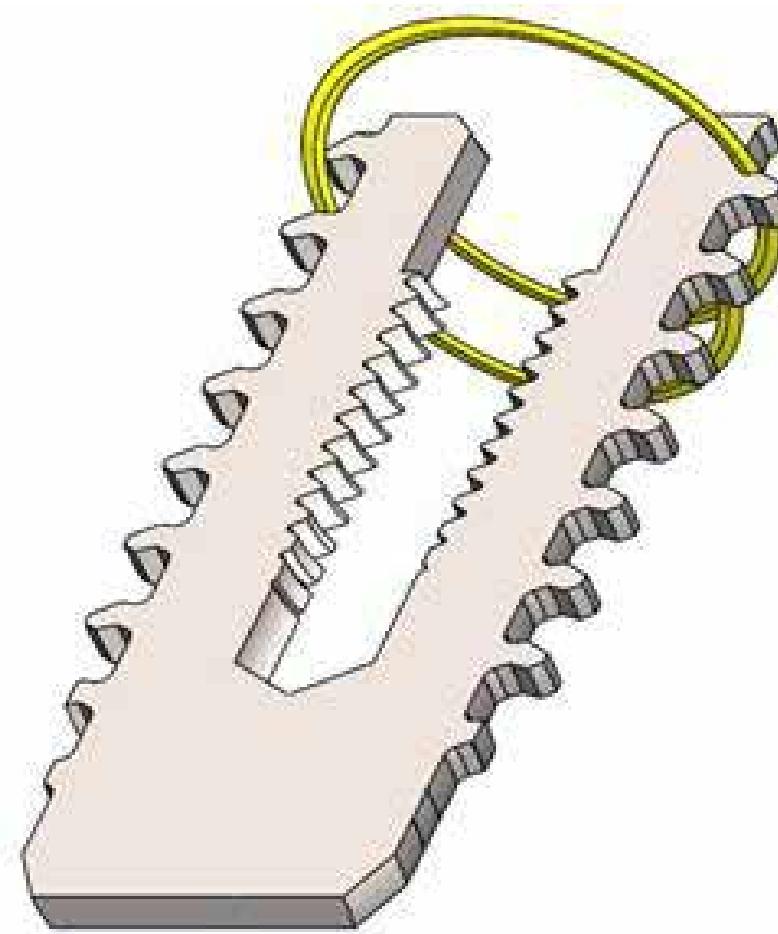
UnifiM.I.

- Integrated circumferentially
- Interface preserved and maintained
- Full load resistance on tension side via MI



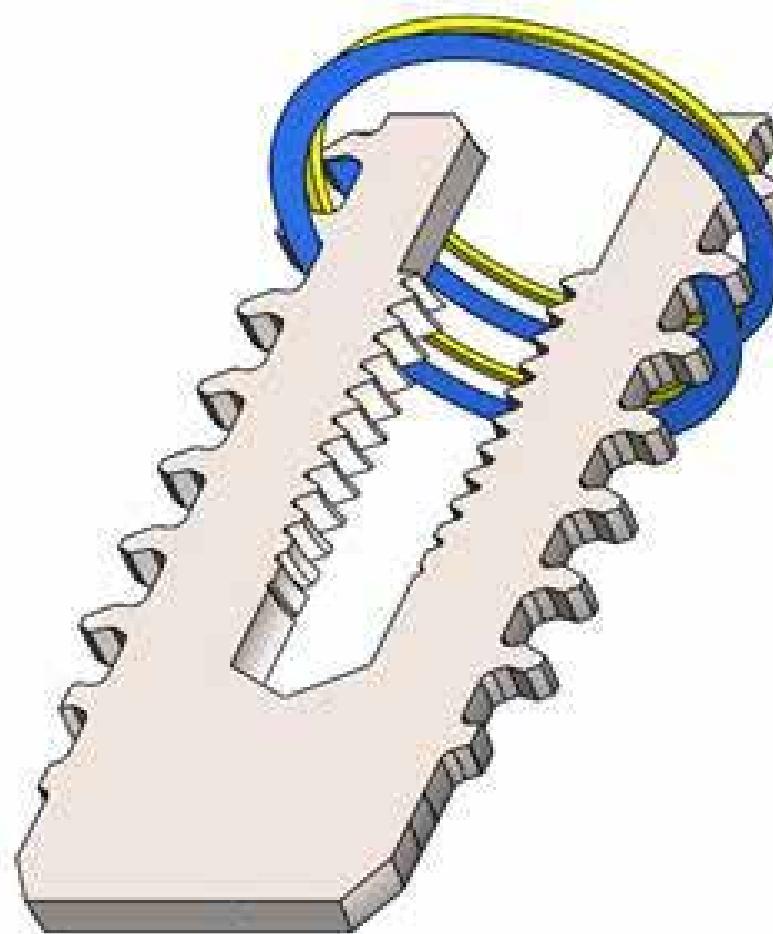
UnifiM.I. EXPLAINED

UNIQUE THREAD GEOMETRY: USING UNDERCUTS TO INTERLOCK WITH SUBSTRATE



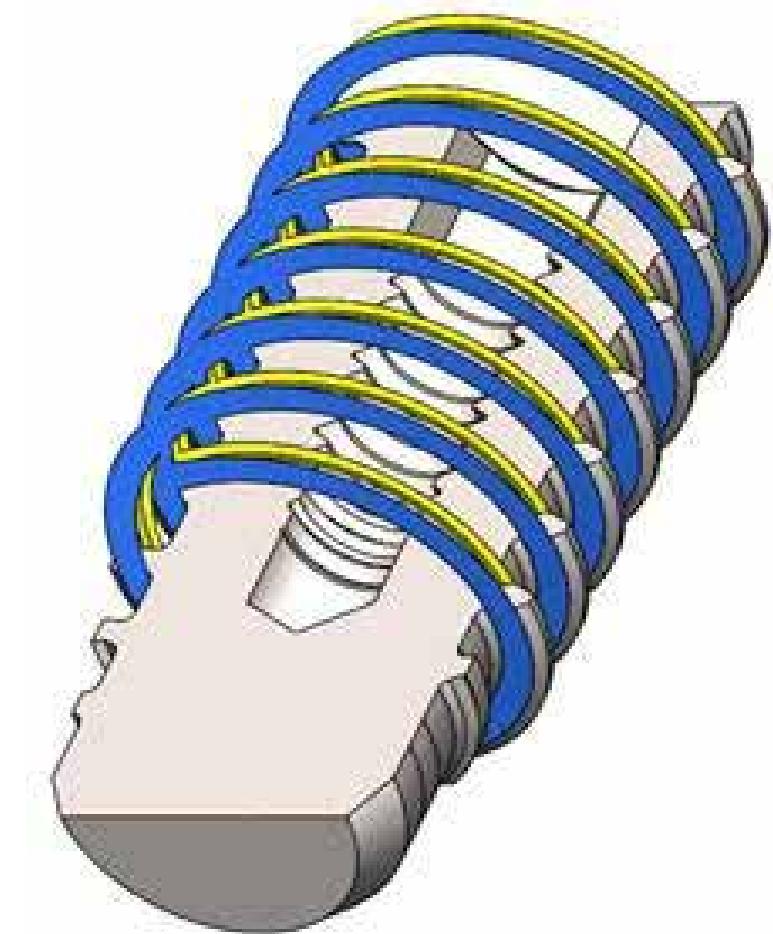
TRAILING UNDERCUT

Trailing undercut provides circumferential resistance to axial pull-out and toggle.



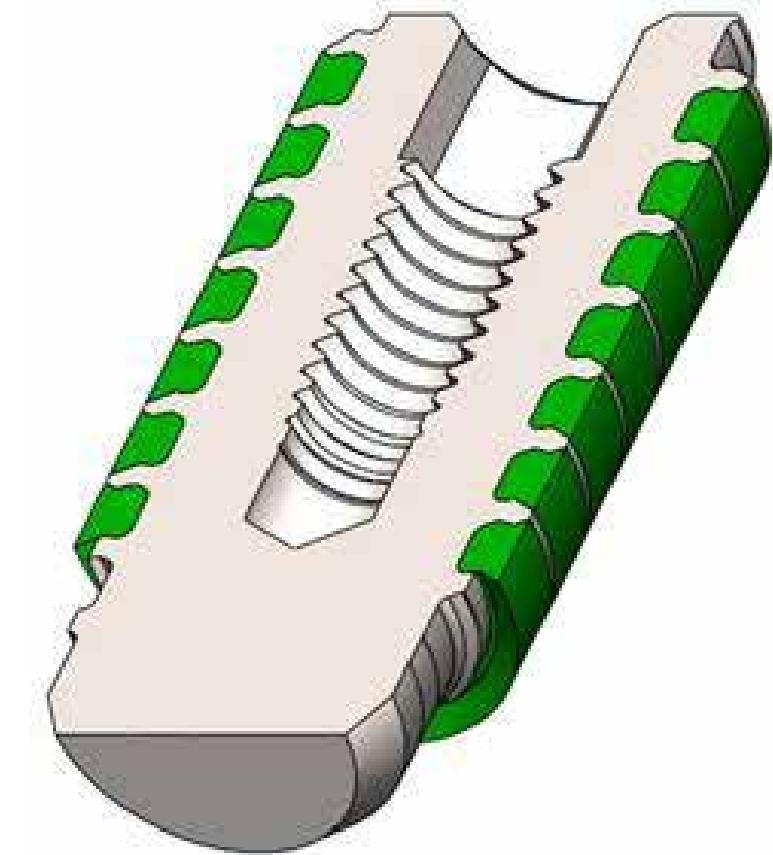
LEADING UNDERCUT

Leading undercut provides circumferential resistance to axial compression and toggle.



WORKING LENGTH

The unique undercut geometry resists loads and supports the insert within the substrate down the entire thread length.



SUBSTRATE CAPTURE

The result is the interlocking of significant substrate volume between threads--providing immediate and lasting stability by sharing loads and reducing stress concentrations.

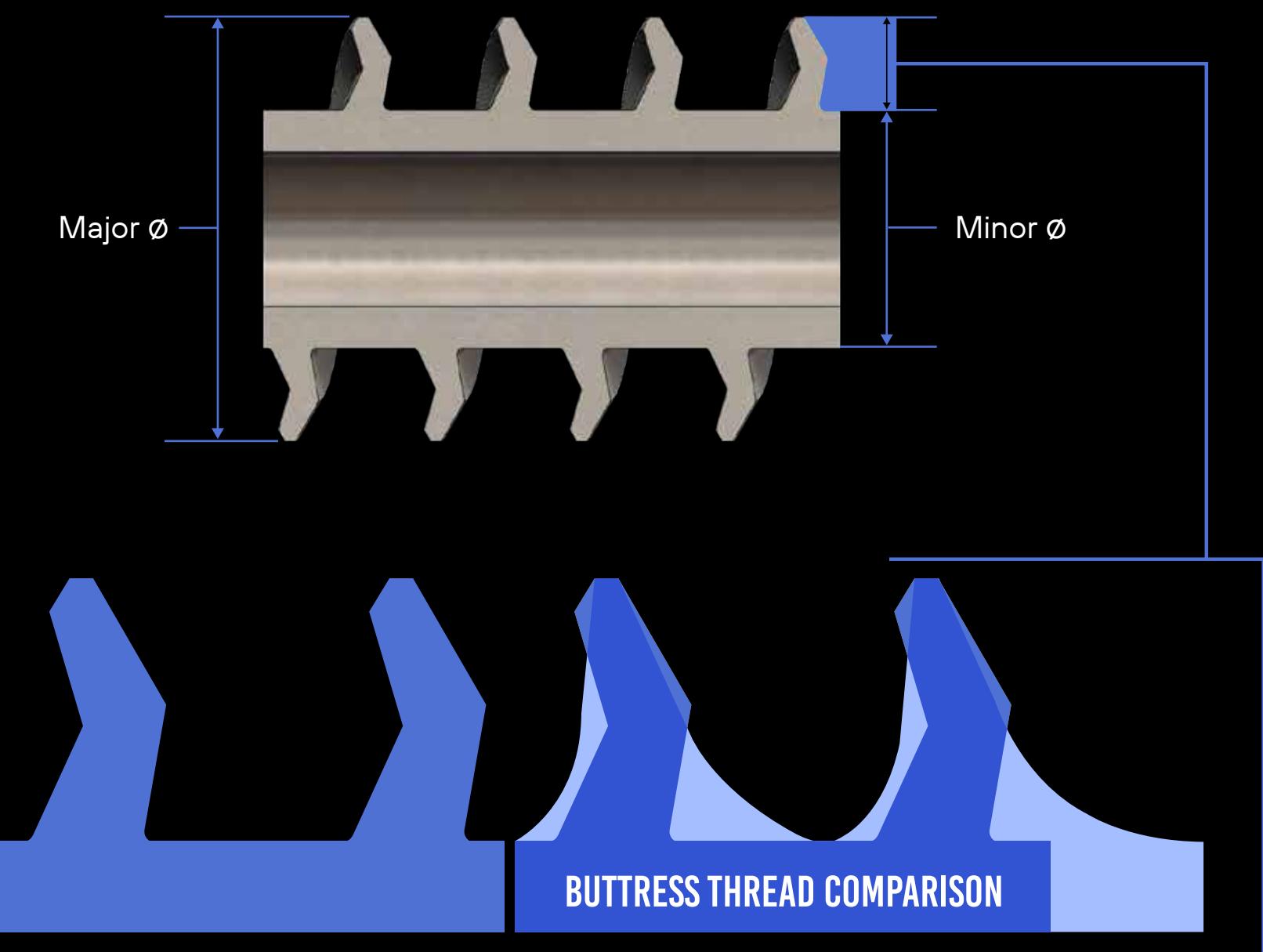


ADAPTABLE CHARACTERISTICS

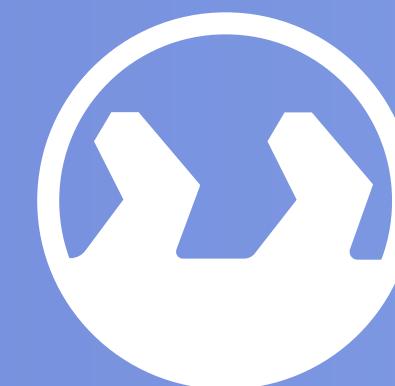
BY SUBSTRATE APPLICATION

Ability to control interface depending upon:

- Material Demands
- Application Needs



PERFORMANCE DRIVEN DESIGN



UNIFIM.I. THREAD FORM



CONVENTIONAL 'BUTTRESS' THREAD FORM

DRILL OPTIMIZATION

TIP ANGLE

SPLIT POINT

PRIMARY & SECONDARY RELIEF

CORNER CHAMFER

FLUTE HELICAL ANGLE

FLUTE EDGE BREAK

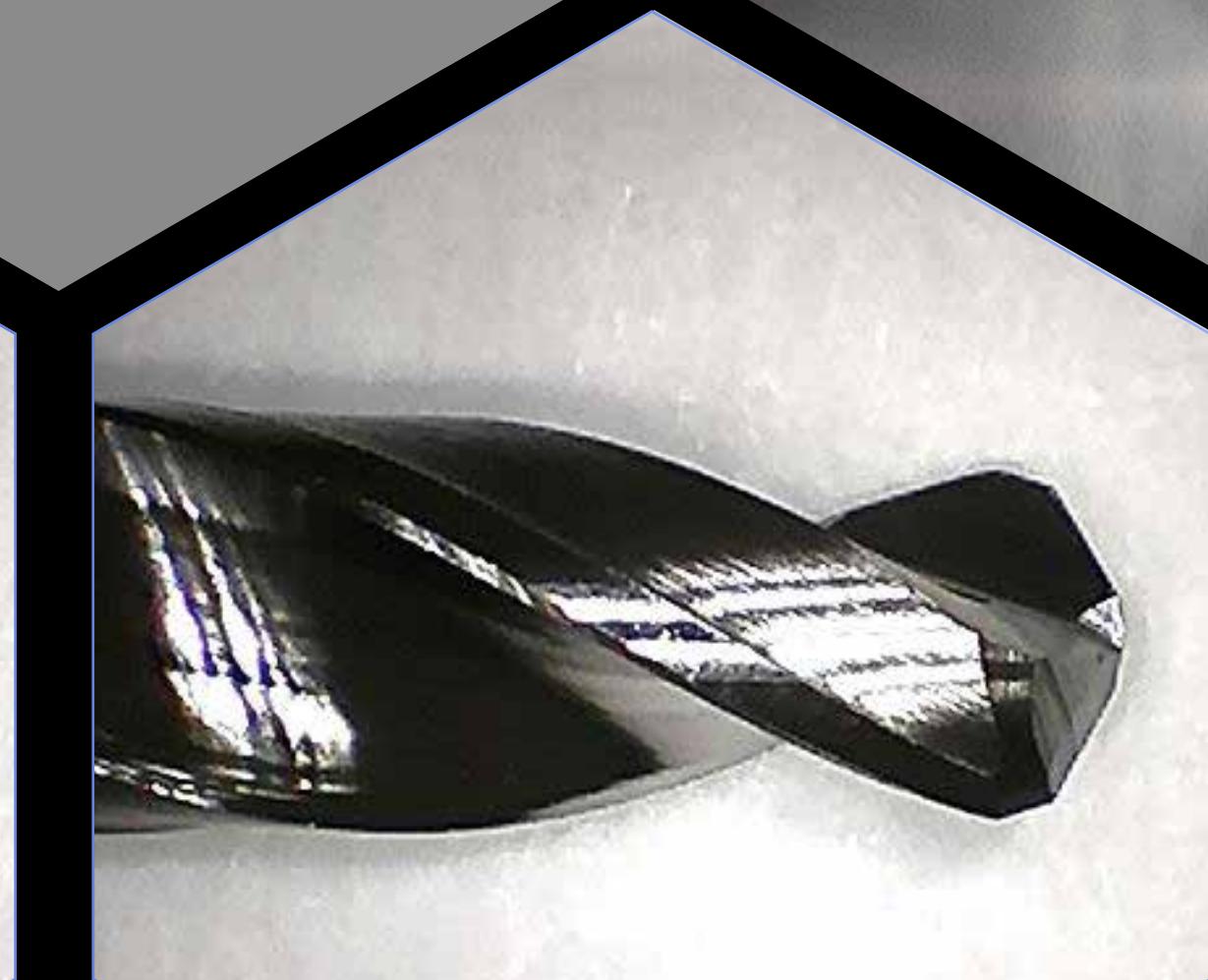
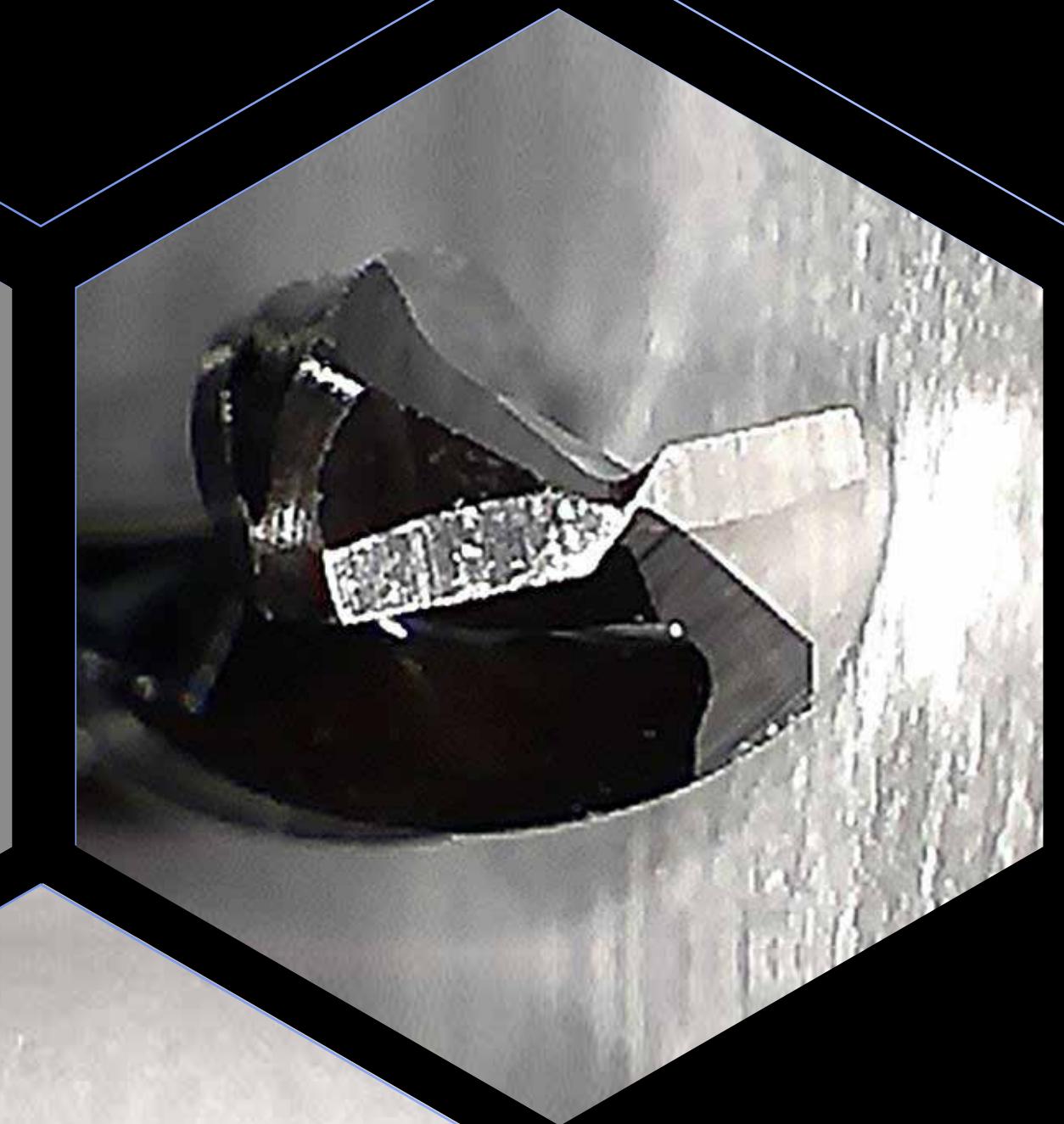
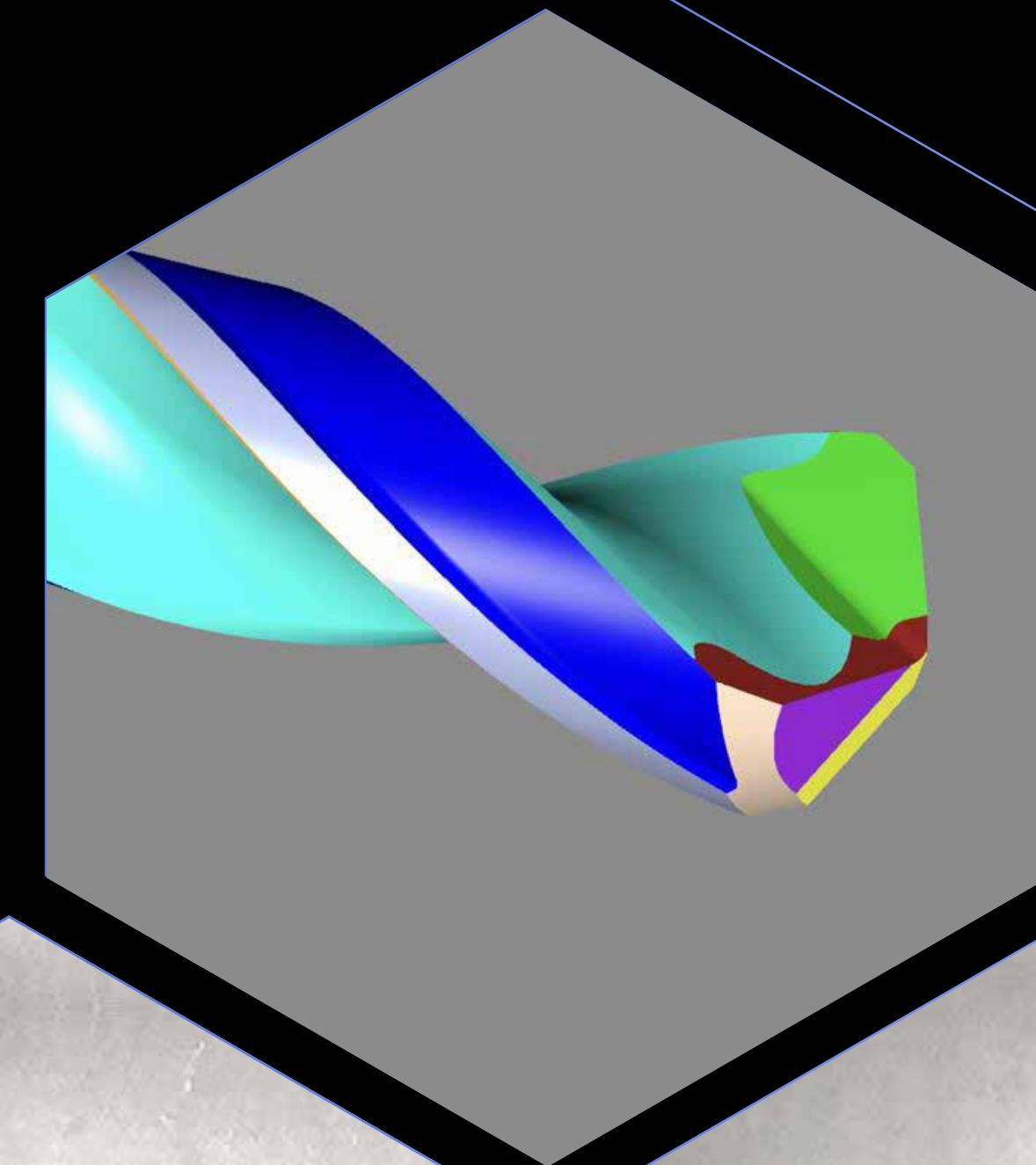
FLUTE MARGIN

RESULTING IN

MORE ACCURATE HOLE SIZE

FASTER DRILLING SPEED

LOWER HEAT GENERATION



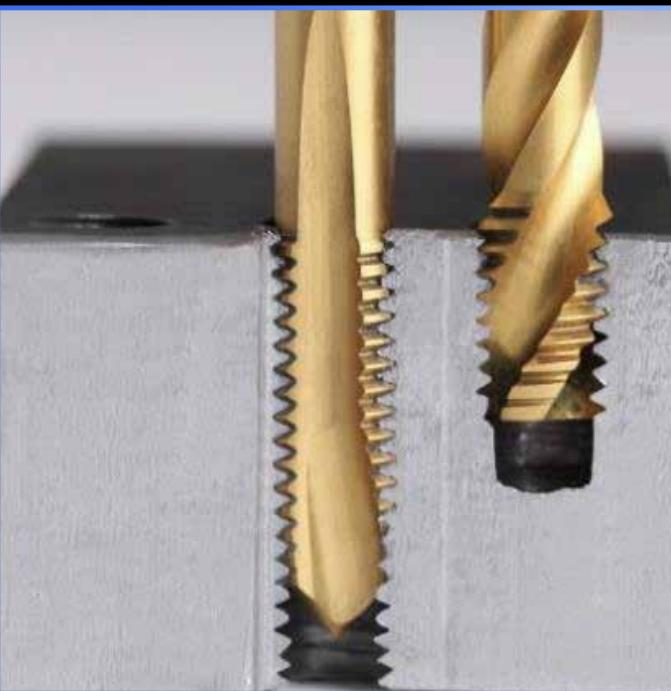
LEVERAGING KNOWLEDGE

APPLICATION OF INTELLECTUAL PROPERTY

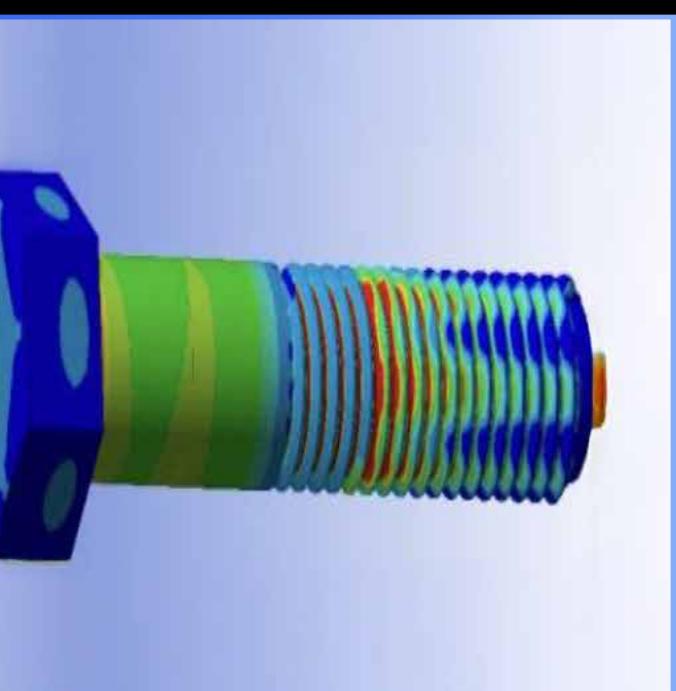
DRILLING



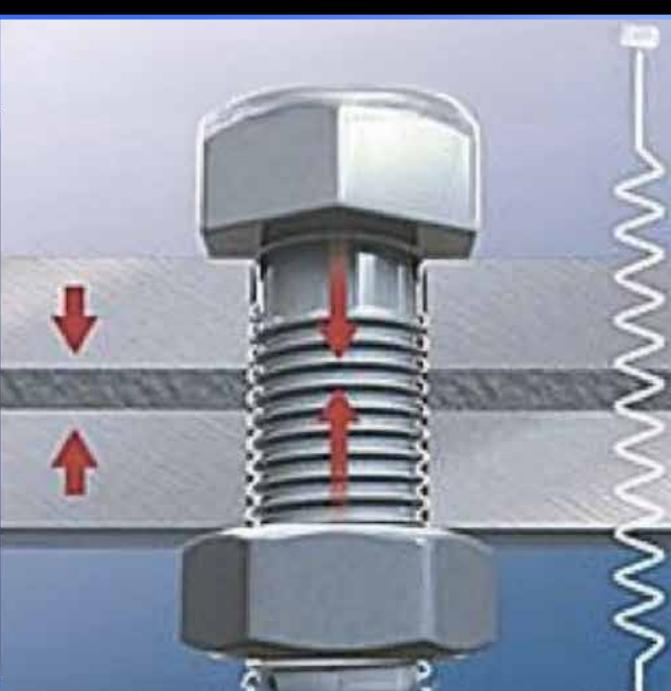
TAPPING



STRESS MANAGEMENT

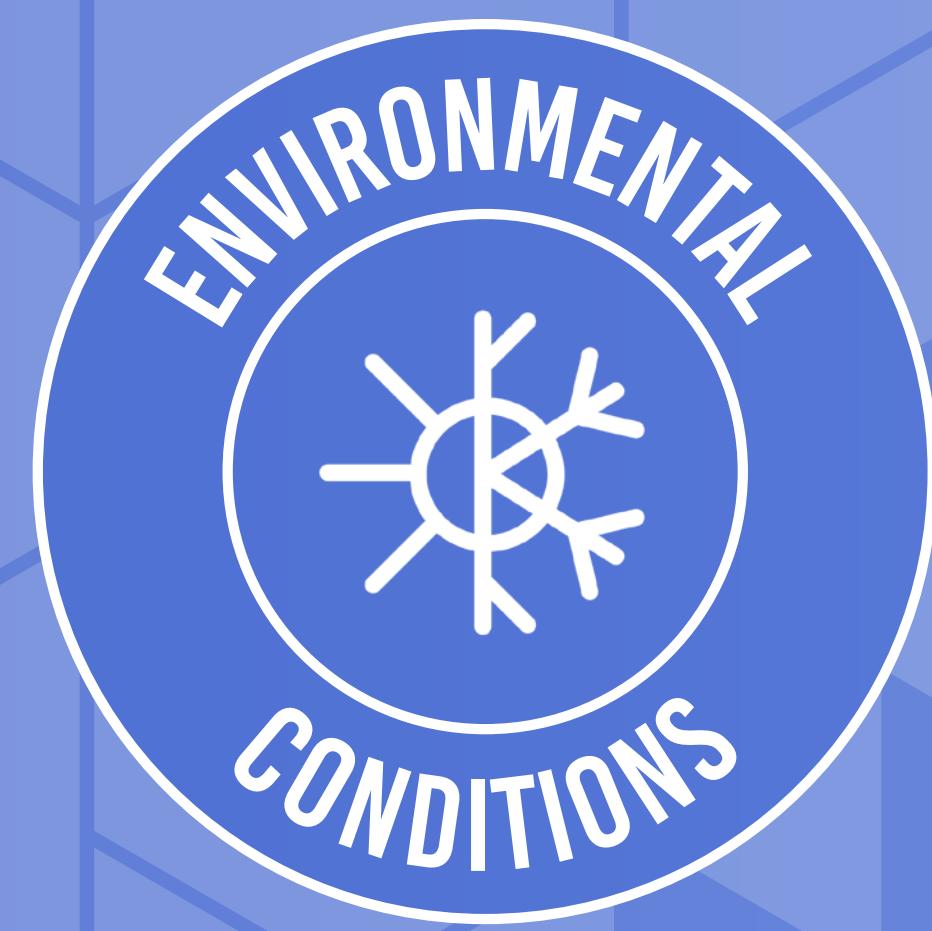


STABILITY



CONSTRUCTION APPLICATIONS

ADDRESSING KEY MARKET CHALLENGES



UnifiM.I. FASTENER PLATFORM

ENGINEERED TO DISSIPATE VIBRATIONAL
ENERGY & PROVIDE A LONG-TERM STABLE
CONNECTION

OPTIMAL MECHANICAL, STRUCTURAL &
FUNCTIONAL CONNECTION

REDUCE ASSEMBLY TIME, COST & WEIGHT

UTILIZE TRADITIONAL MANUFACTURING
TECHNIQUES



TARGET PARTNERS

**\$492M
SALES**

SIMPSON
Manufacturing
COMPANY™

WOOD CONNECTION PRODUCTS

Wood Connectors,
Shearwalls,
connectors for
cold-formed steel
and structural
steel

FASTENING SYSTEMS

Fasteners for
connectors,
structural screws,
decking screws,
and productivity
solutions

CONCRETE CONNECTION PRODUCTS

Mechanical and
adhesive anchors,
injection epoxies,
carbon fiber
strengthening
products

**\$2B
SALES**

STANLEY
Engineered Fastening

STANLEY
Engineered Fastening

NELSON

POP **TUCKER**

CRIBMASTER

CAM

**\$1.4B
SALES**

TimberTech **AZEK**
EXTERIORS

Deck Fasteners & Stainless Steel Deck Screws



**\$758M
SALES**

SFS

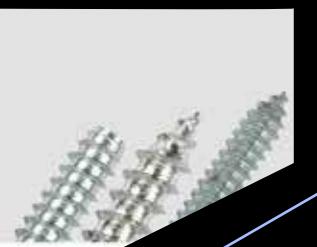
DRILL SCREWS



STAINLESS STEEL SCREWS



SELF-TAPPING SCREWS



**\$1.2B
SALES**

Trex

COMPOSITE PLUG SCREWS

In collaboration with Trex Decking Depth Setters, Trex Hideaway® Deck Plugs and Trex Hideaway Fascia Plugs, these screws feature a tri-lobe design, minimizing both effort and any potential for mushrooming.

PHILLIPS HEXSTIX® DRIVE BIT

Designed for precision, this drive bit ensures a stable, wobble-free connection with every use, making installations with Trex components straightforward and reliable.

COLOR MATCH SCREWS

Designed to work seamlessly with all Trex decking collections, dive into driving without the fear of mushrooming or color stripping and let the beauty of a Trex deck shine through with Trex® Color-Match Screws.





UnifiM.I. CONSTRUCTION ACTION PLAN

1. **Demonstrate** technology capabilities
 - a. Tool development of dies, taps and drills
 - b. Drilling and tapping of concrete, wood, and steel substrates
 - c. Fastener axial and off-axis load testing

2. Top down **education** with bottom up preparation

3. Execute **licensing** models

4. Bring “**killer app**” to market with partner

5. **Influence** design and specifications for next gen projects



UnifiM.I. CONSTRUCTION VALIDATION POINTS

STRUCTURAL & DYNAMIC
MECHANICAL TESTING





RESHAPING THE FUTURE

