



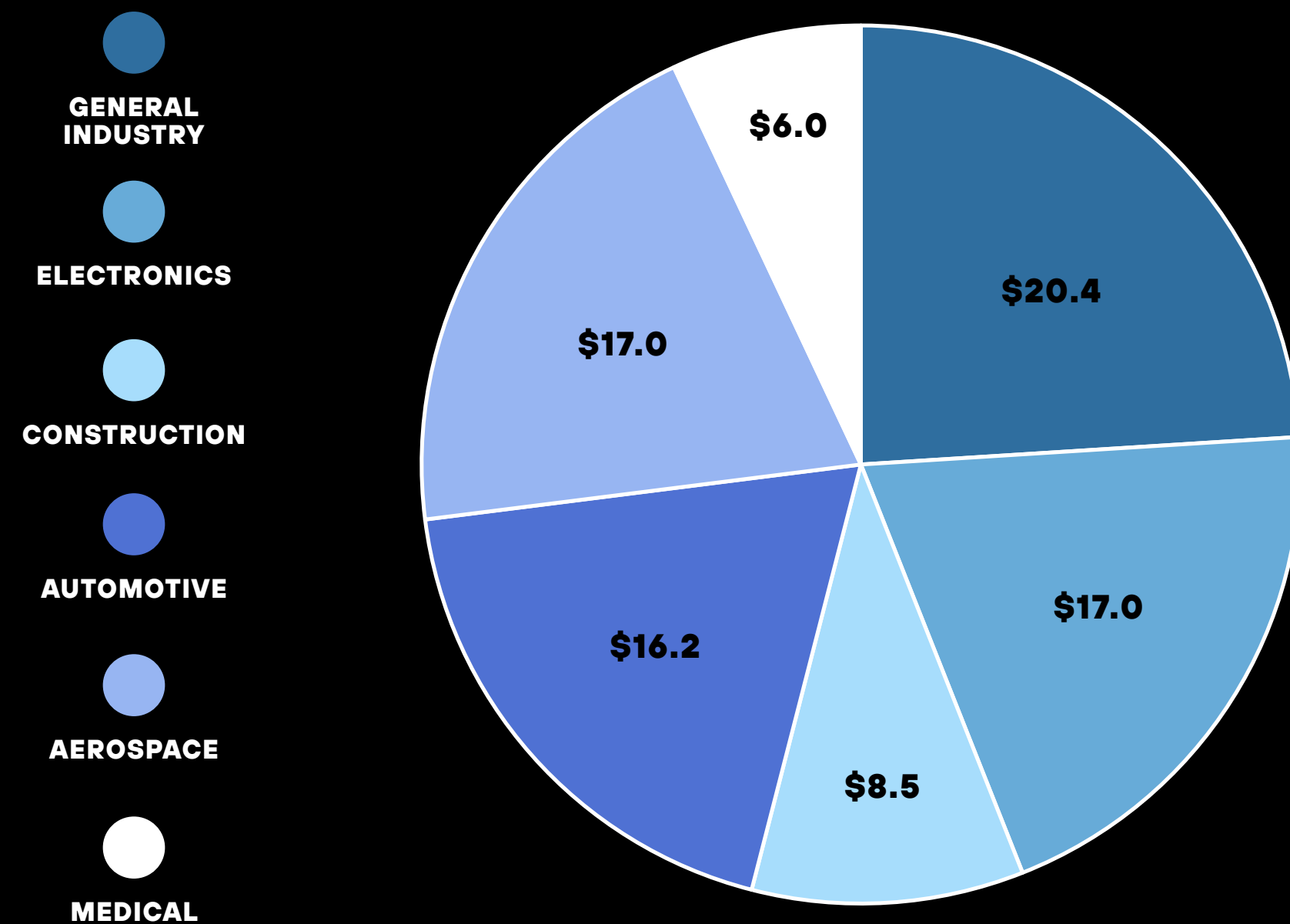
UnifiM.I.TM

AEROSPACE & DEFENSE, LLC

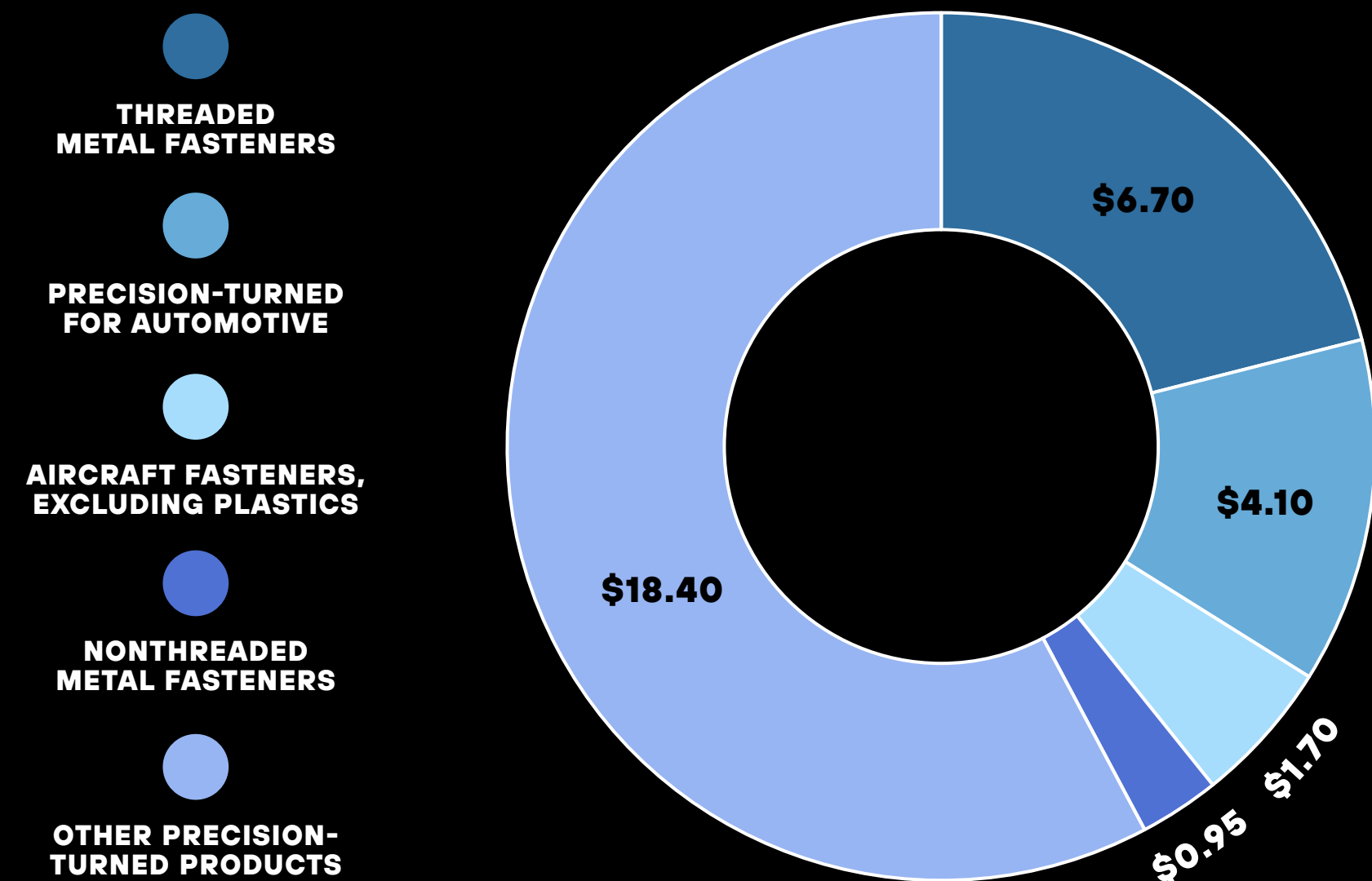
A FASTENER TECHNOLOGY COMPANY

INDUSTRY BREAKDOWN FOR FASTENERS

GLOBAL FASTENER SEGMENTS - \$85B

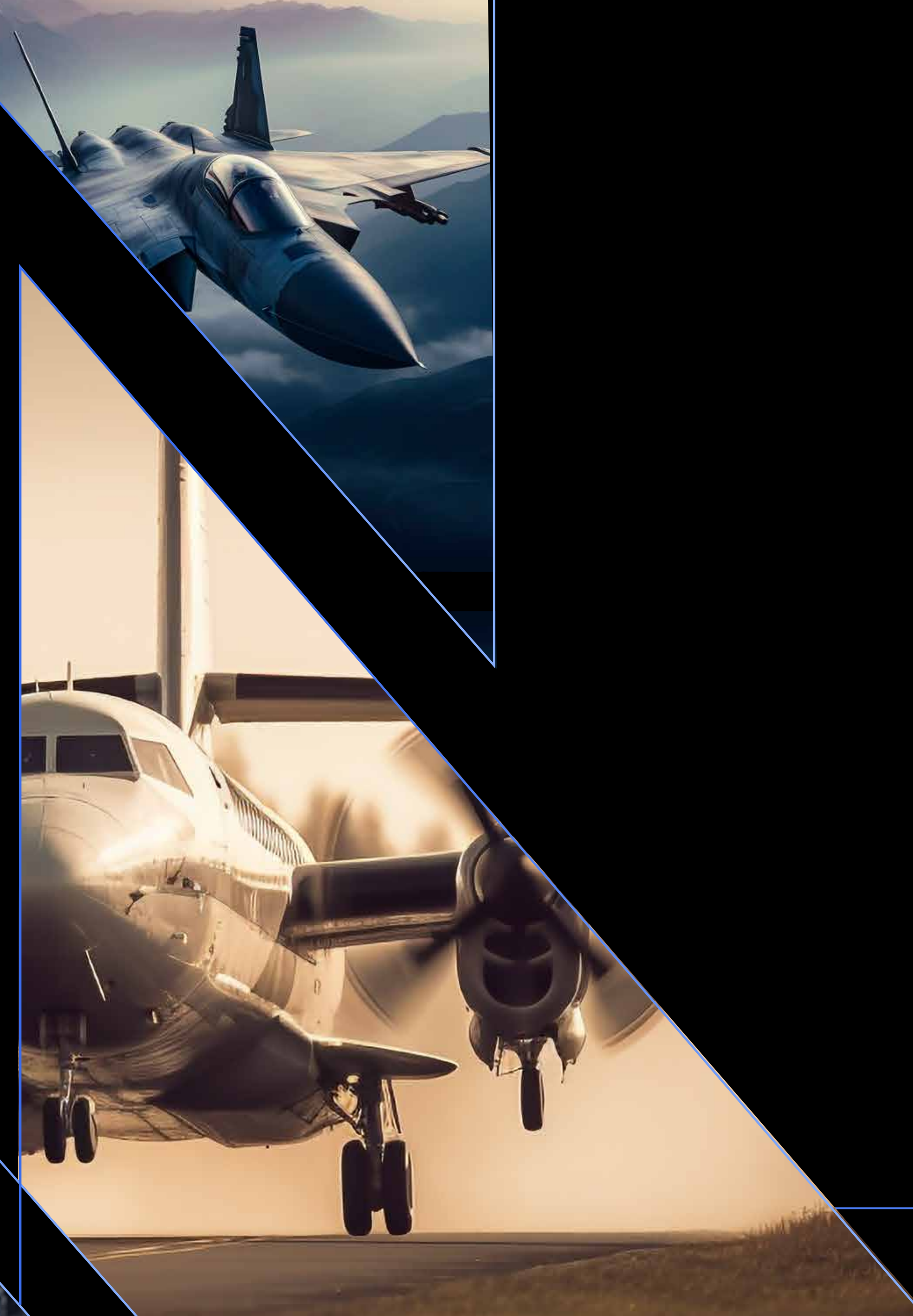


2024 REVENUE (\$B)



IBISWorld | Screw, Nut & Bolt Manufacturing in the US | May 2024
StanleyBlack&Decker| Investor Presentation| August 2024





EXPERIENCE MATTERS

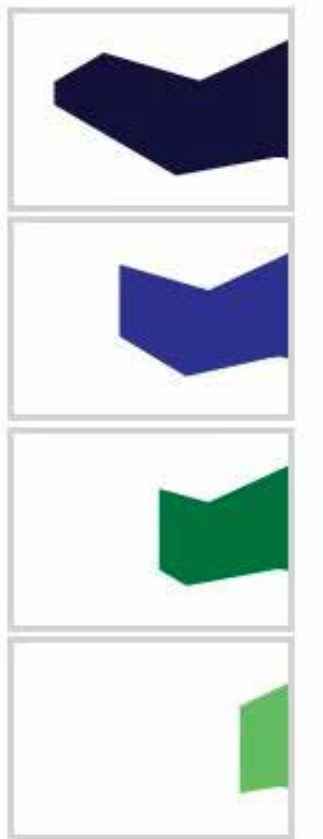
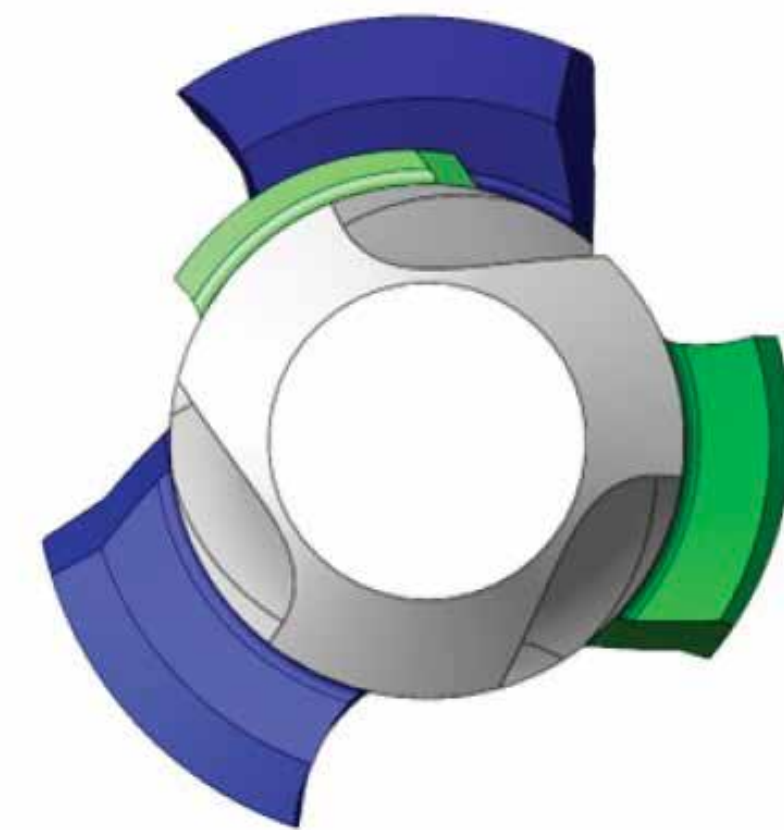
UNIFIM.I. FASTENER TECHNOLOGY
TRANSFORMED THE MEDICAL
DEVICE INDUSTRY.

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

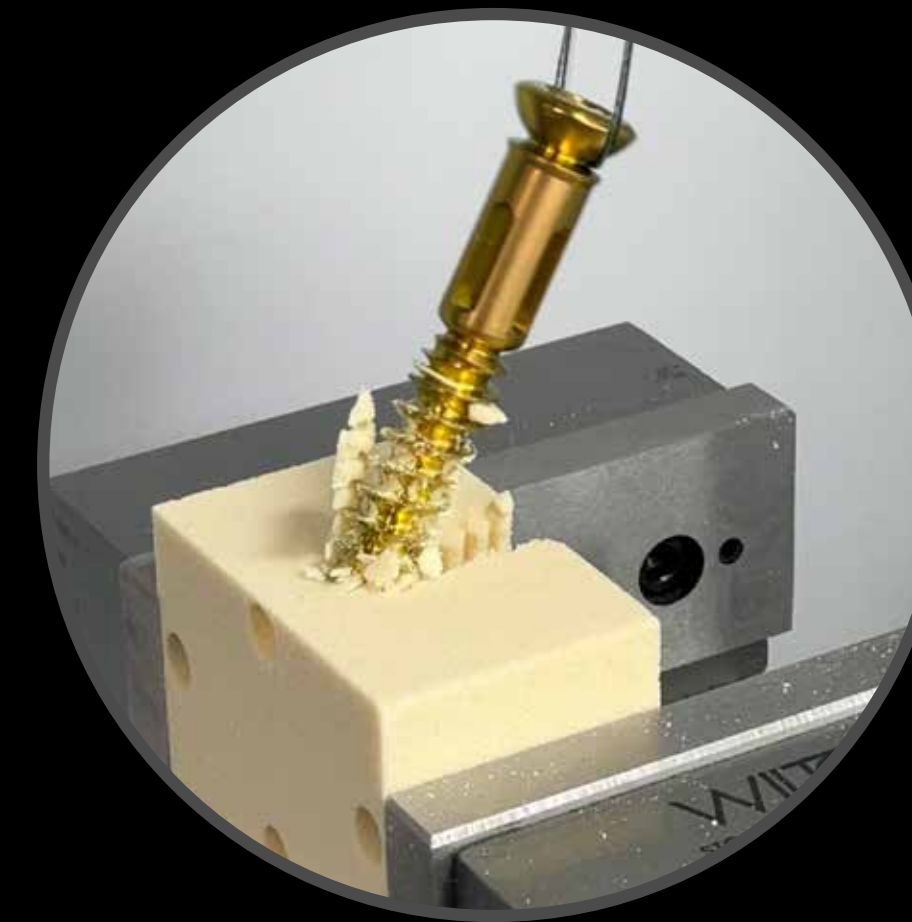
- Crushes and plows during insertion
- Creates a damaged and unstable interface



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

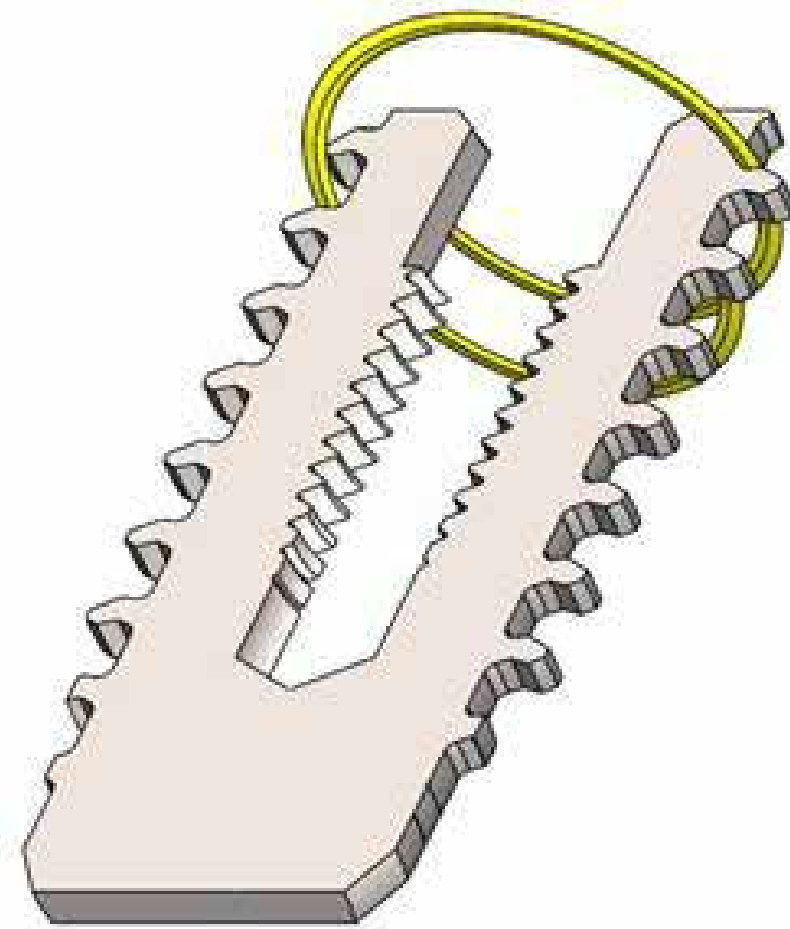


UnifiM.I.

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

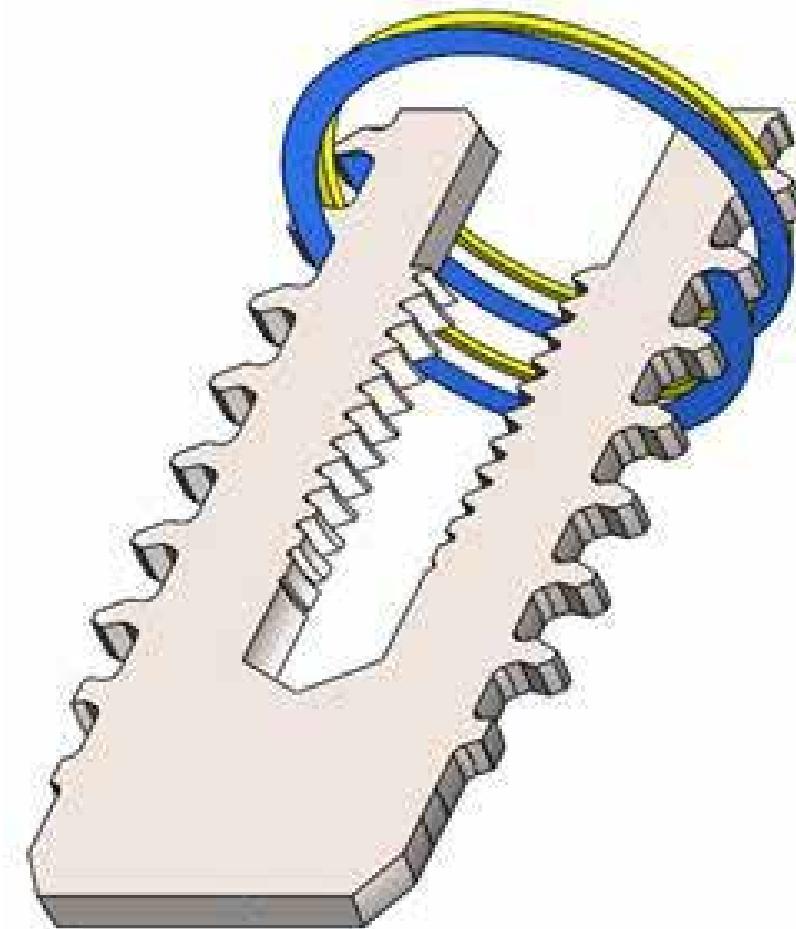
UnifiM./ EXPLAINED

UNIQUE THREAD GEOMETRY: USING UNDERCUTS TO INTERLOCK WITH SUBSTRATE



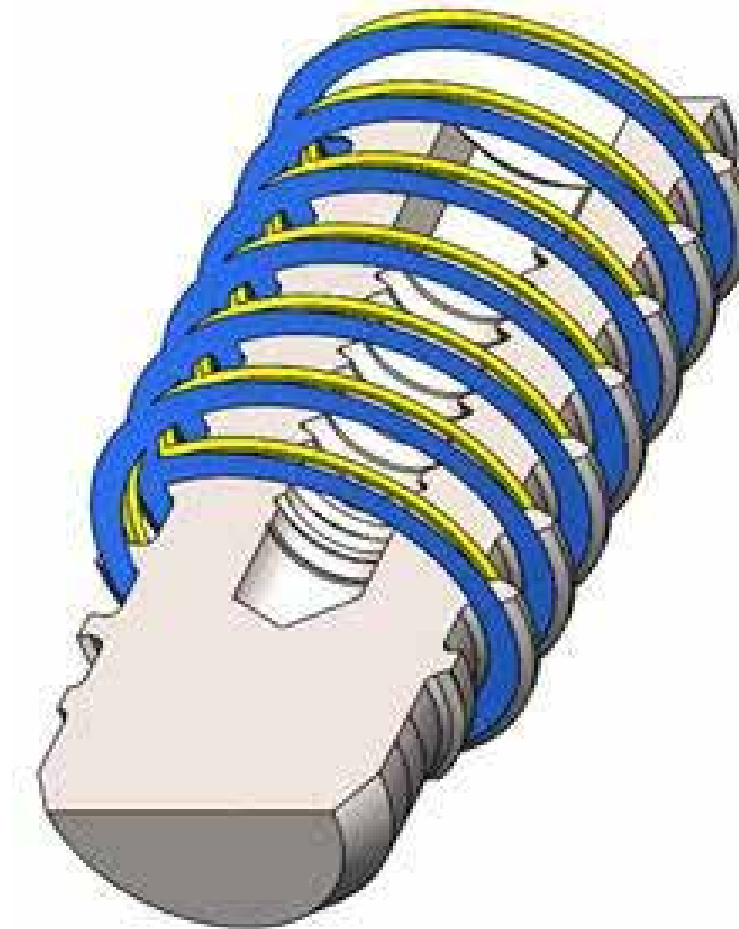
TRAILING UNDERCUT

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



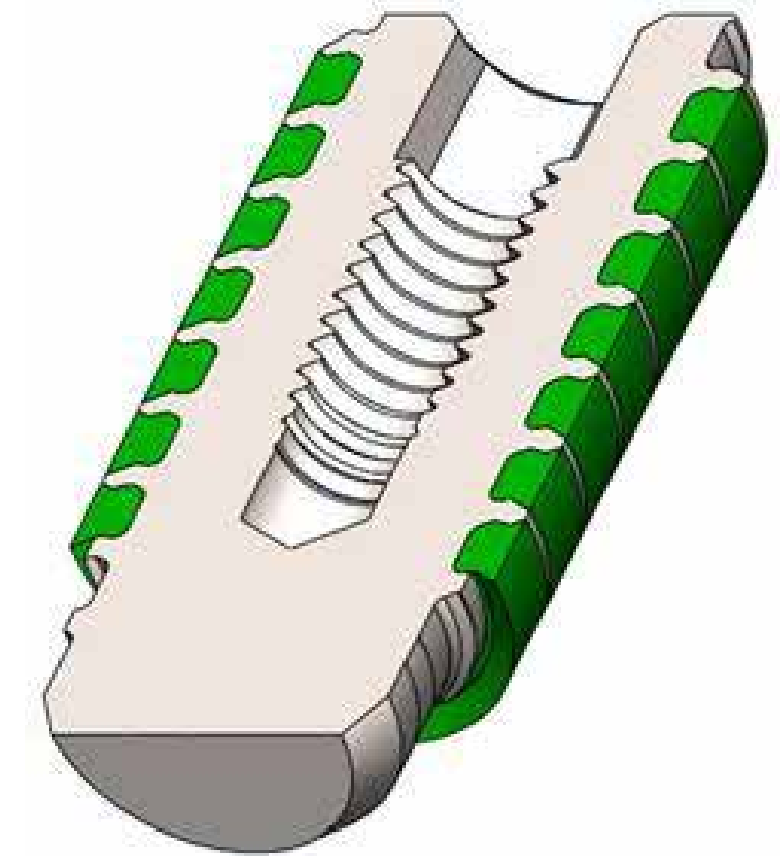
LEADING UNDERCUT

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

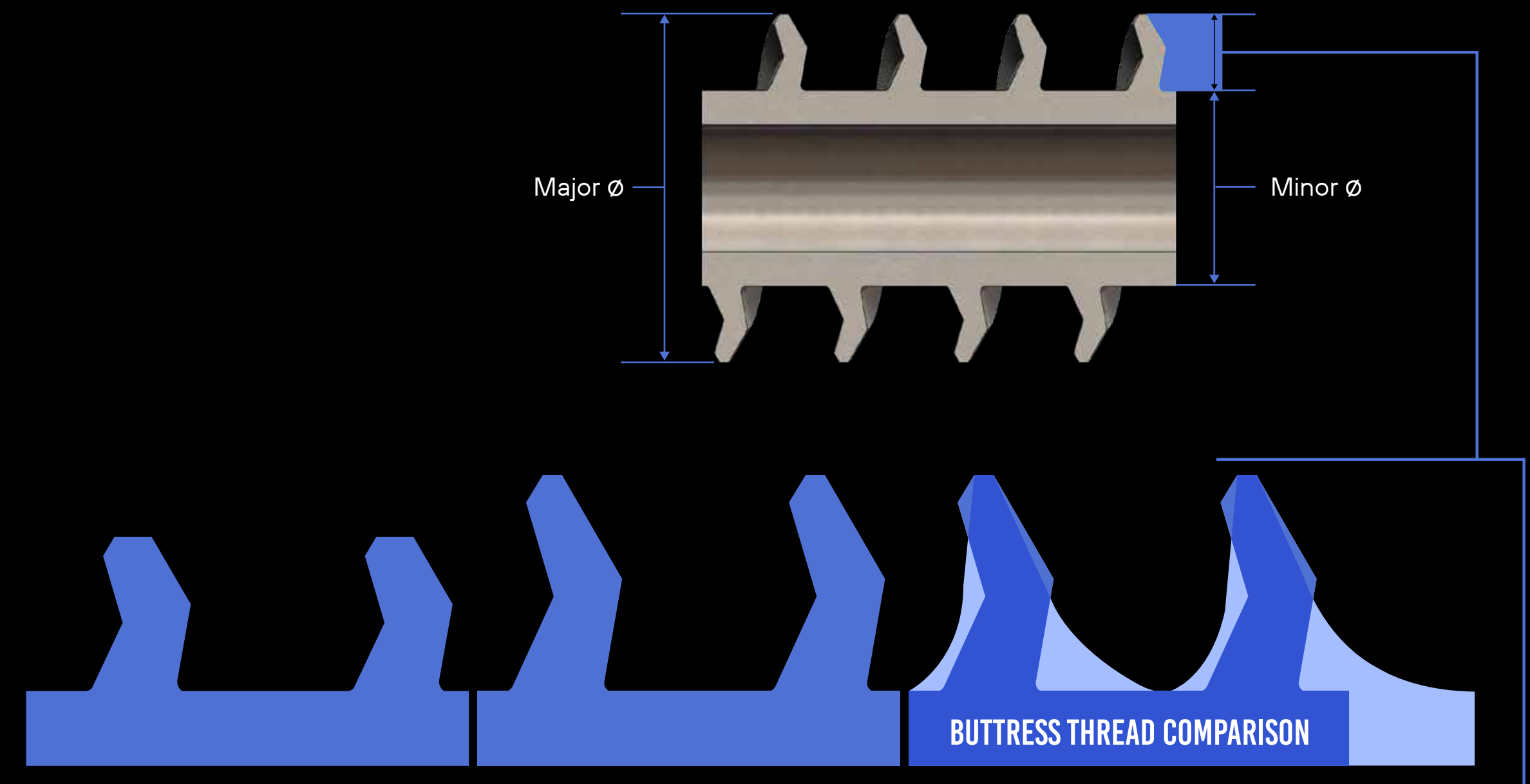
The result is the interlocking of significant substrate volume between threads--providing immediate and lasting stability by sharing loads and reducing stress concentrations.

ADAPTABLE CHARACTERISTICS

BY SUBSTRATE APPLICATION

Ability to control interface depending upon:

- Material Demands
- Application Needs



PERFORMANCE DRIVEN DESIGN



UNIFORM THREAD FORM



CONVENTIONAL 'BUTTRESS' THREAD FORM

DRILL OPTIMIZATION

TIP ANGLE

SPLIT POINT

PRIMARY & SECONDARY RELIEF

CORNER CHAMFER

FLUTE HELICAL ANGLE

FLUTE EDGE BREAK

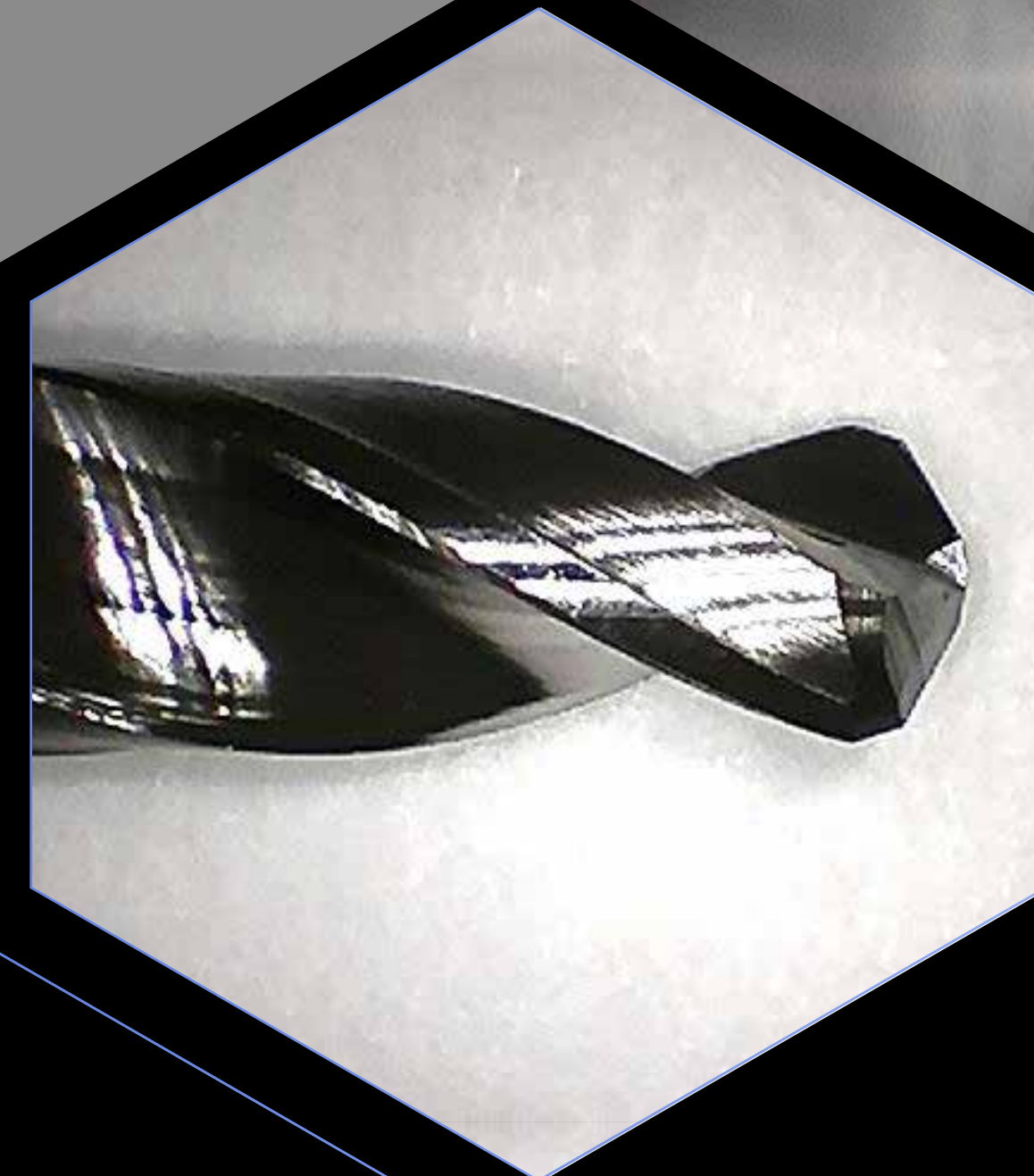
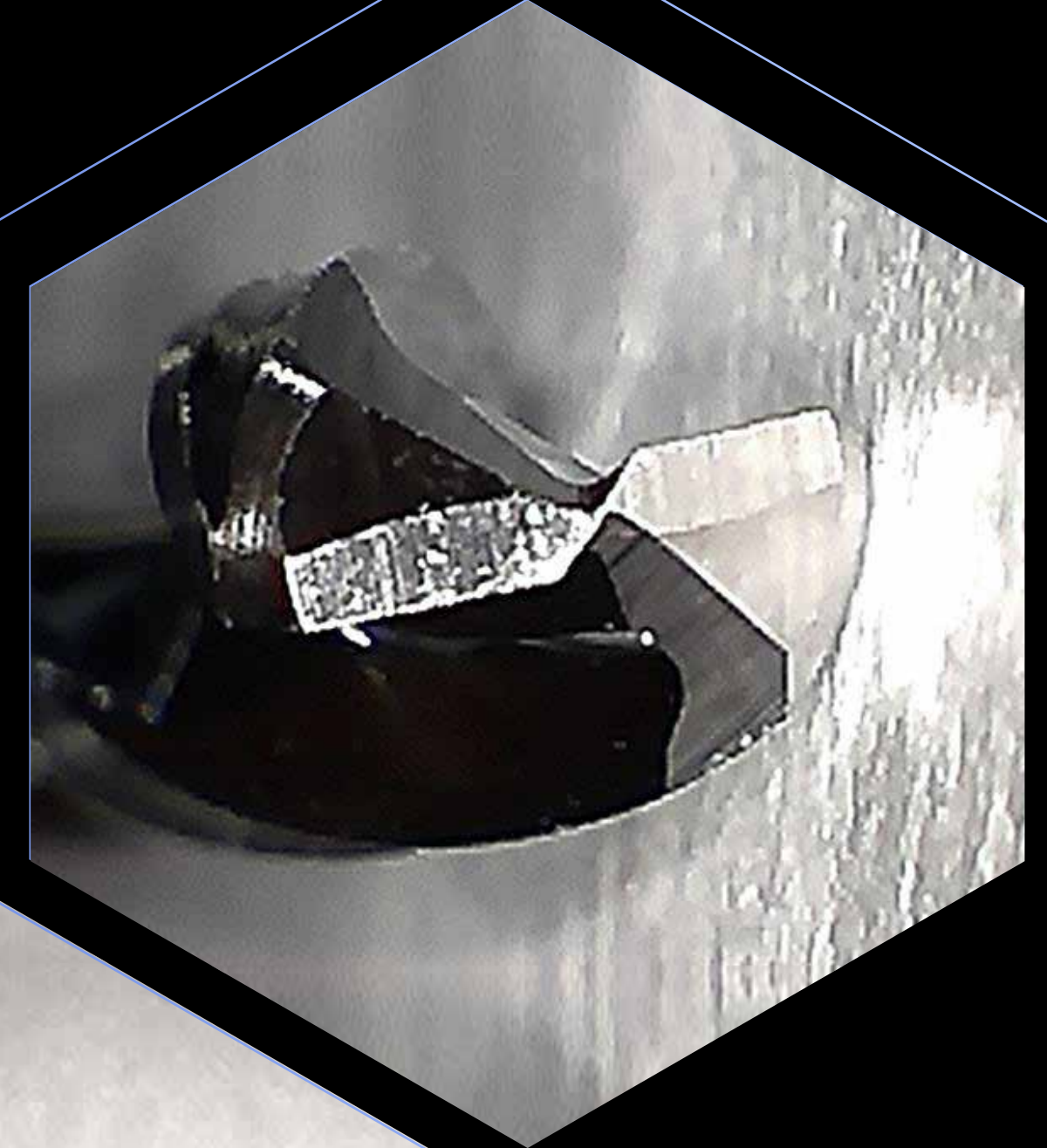
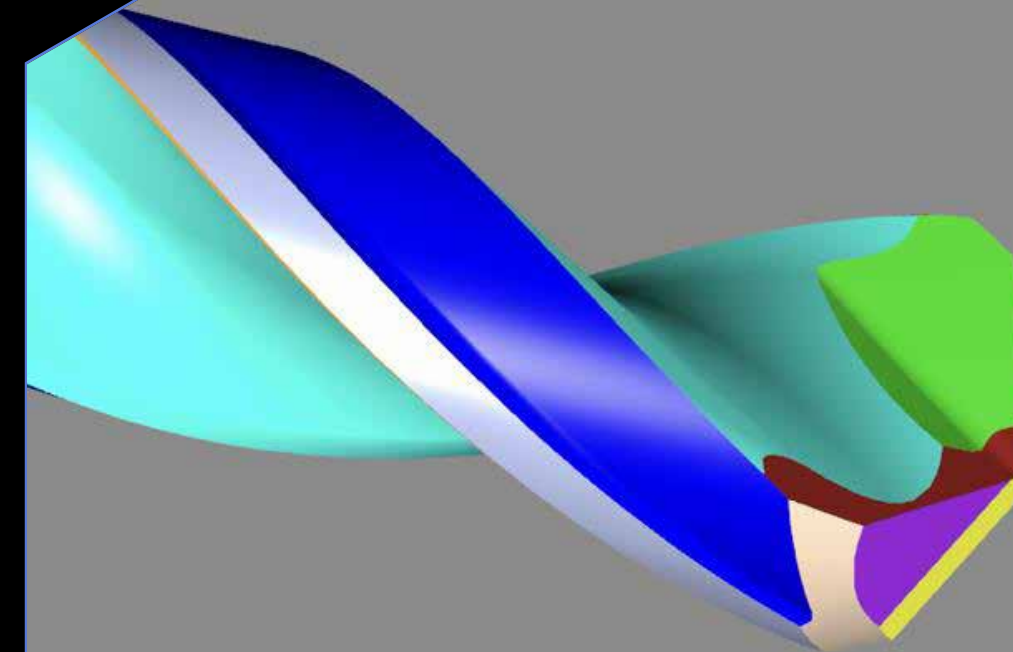
FLUTE MARGIN

RESULTING IN

MORE ACCURATE HOLE SIZE

FASTER DRILLING SPEED

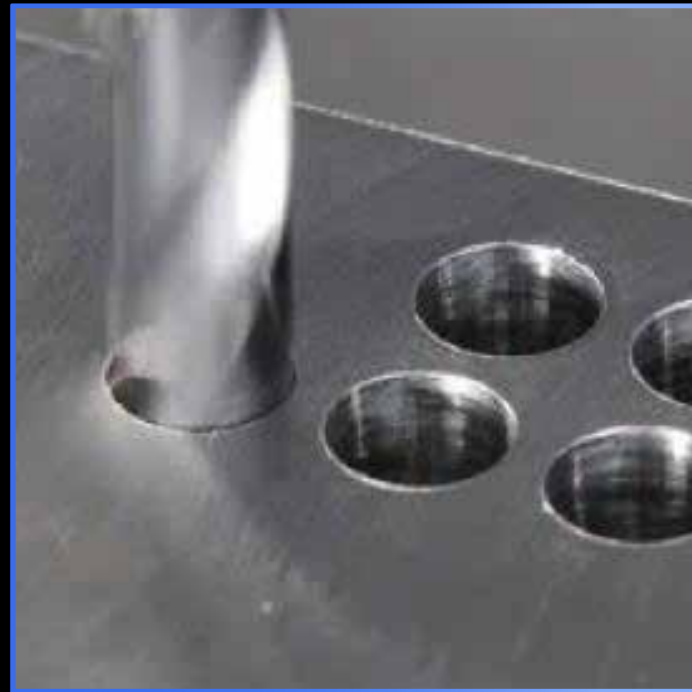
LOWER HEAT GENERATION



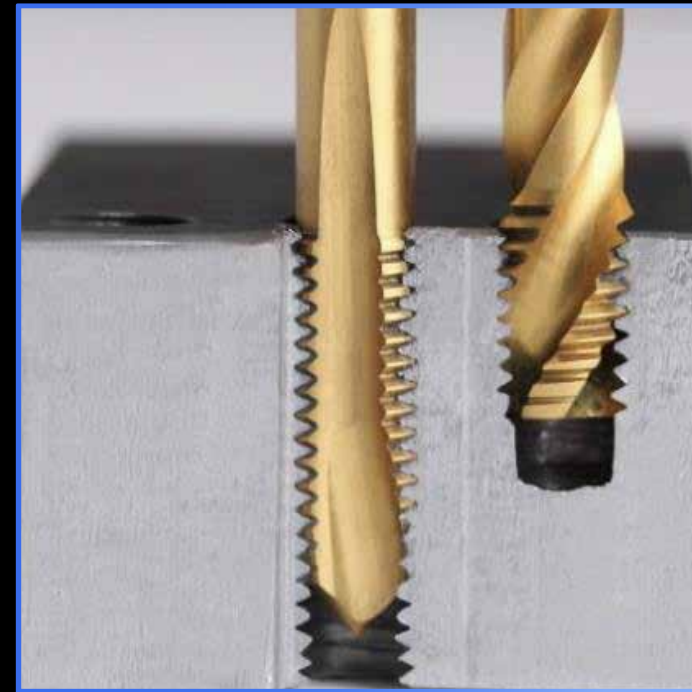
LEVERAGING KNOWLEDGE

APPLICATION OF INTELLECTUAL PROPERTY

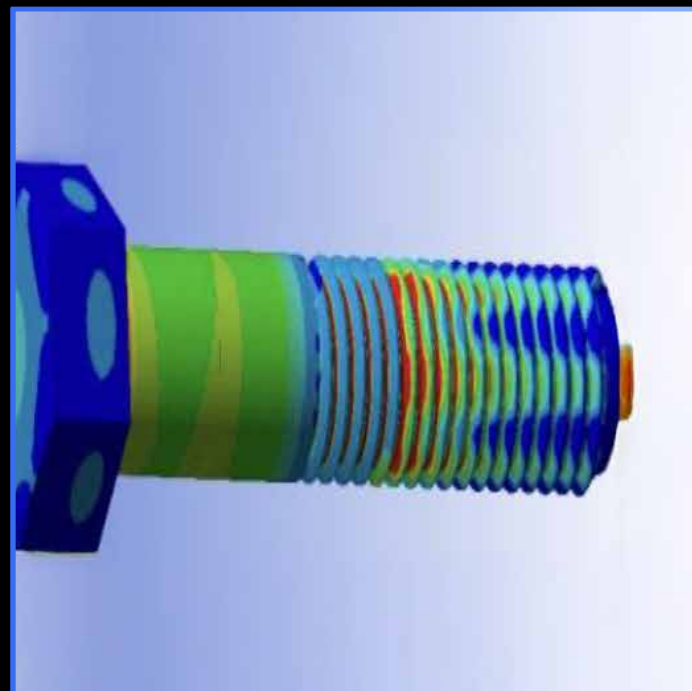
DRILLING



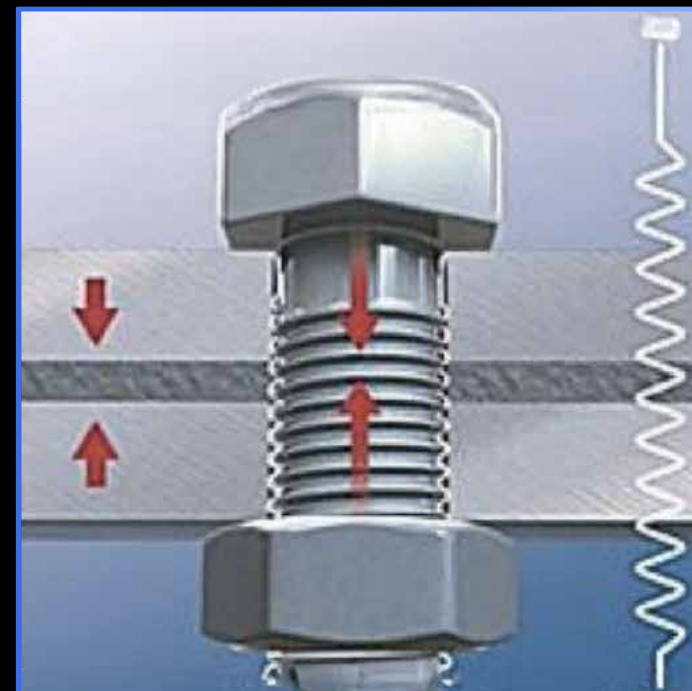
TAPPING



STRESS MANAGEMENT



STABILITY



AEROSPACE & DEFENSE APPLICATIONS

ADDRESSING KEY MARKET CHALLENGES





UnifiM./. 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

\$79B
SALES



**COLLINS
AEROSPACE**



**PRATT
WHITNEY**



RAYTHEON



\$67B
SALES



AERONAUTICS

MISSILES AND FIRE CONTROL

ROTARY AND MISSION SYSTEMS

SPACE

\$7.5B
SALES

TRANSDIGM
GROUP INC.

50

**OPERATING
UNITS**

115+

**BUSINESS
UNITS**

\$14B
SALES

TEXTRON



\$1.4B
SALES

**GENERAL
DYNAMICS**

AEROSPACE



**MARINE
SYSTEMS**



**COMBAT
SYSTEMS**



\$6.6B
SALES

**HOWMET
AEROSPACE**

**ENGINE
PRODUCTS**

**ENGINEERED
STRUCTURES**

**FASTENING
SYSTEMS**

**FORGED
WHEELS**

\$1.3B
SALES

PCC

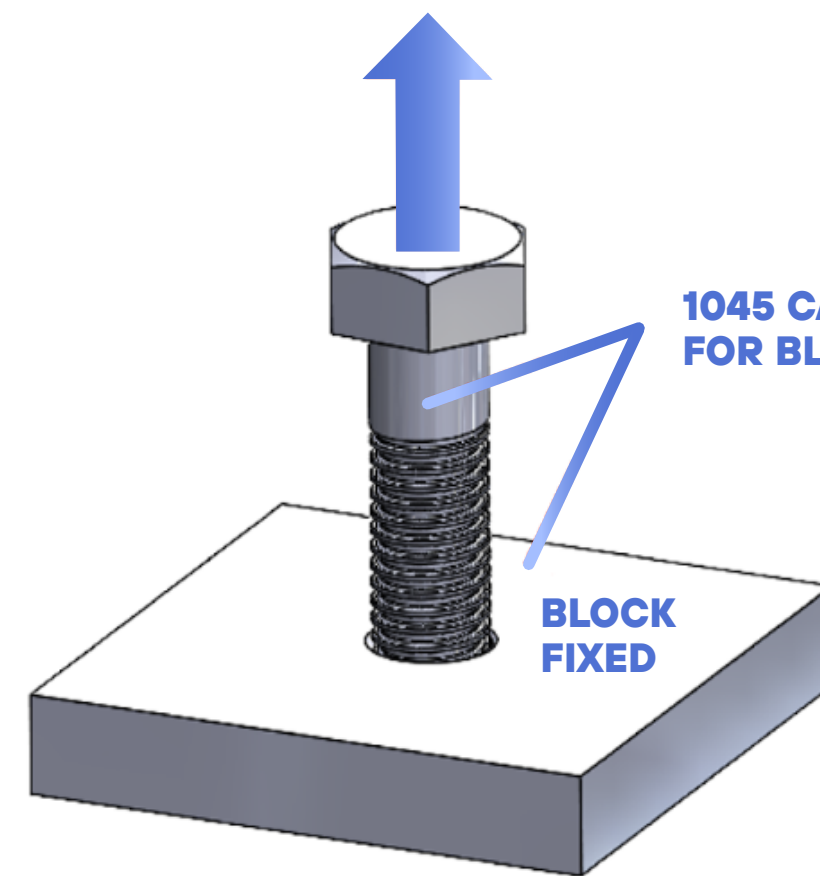




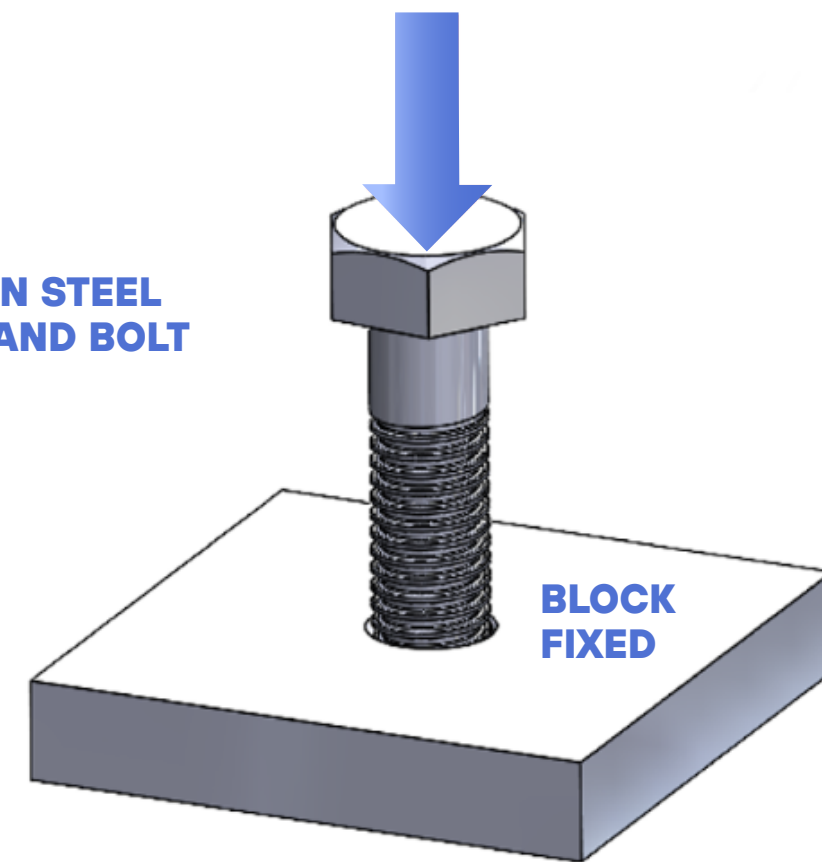
UnifiM.I. A&D ACTION PLAN

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

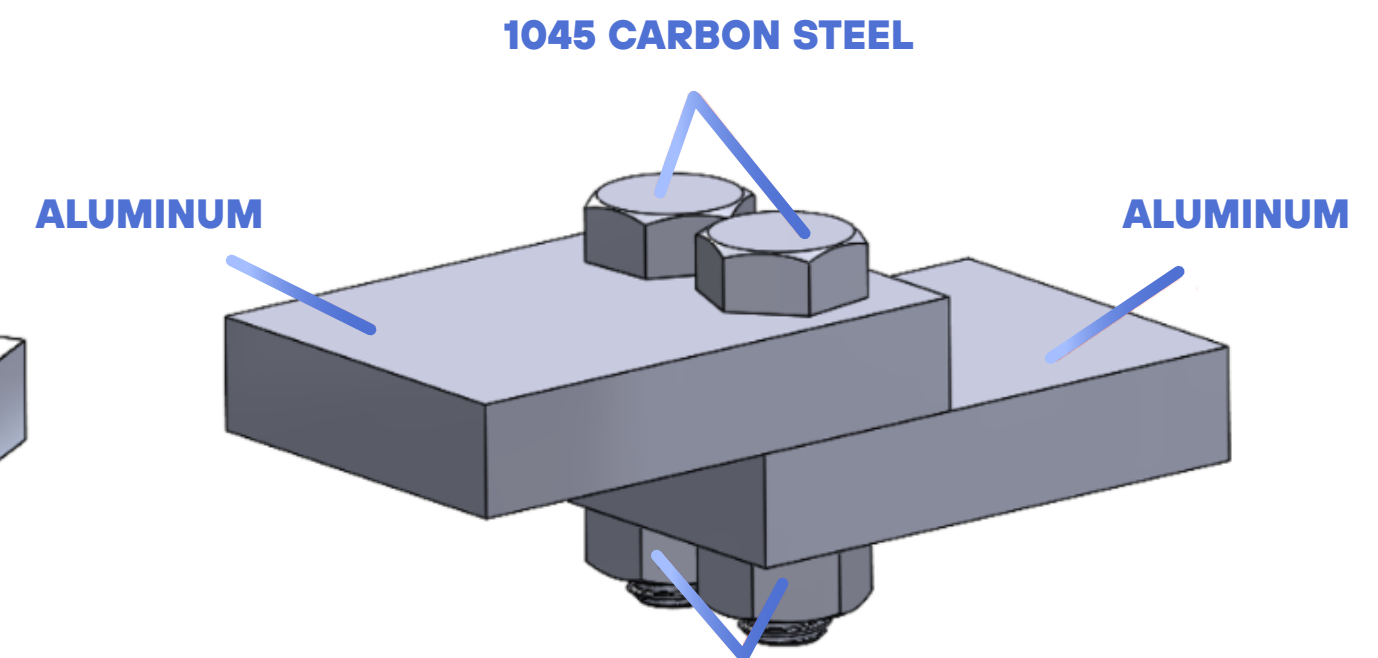
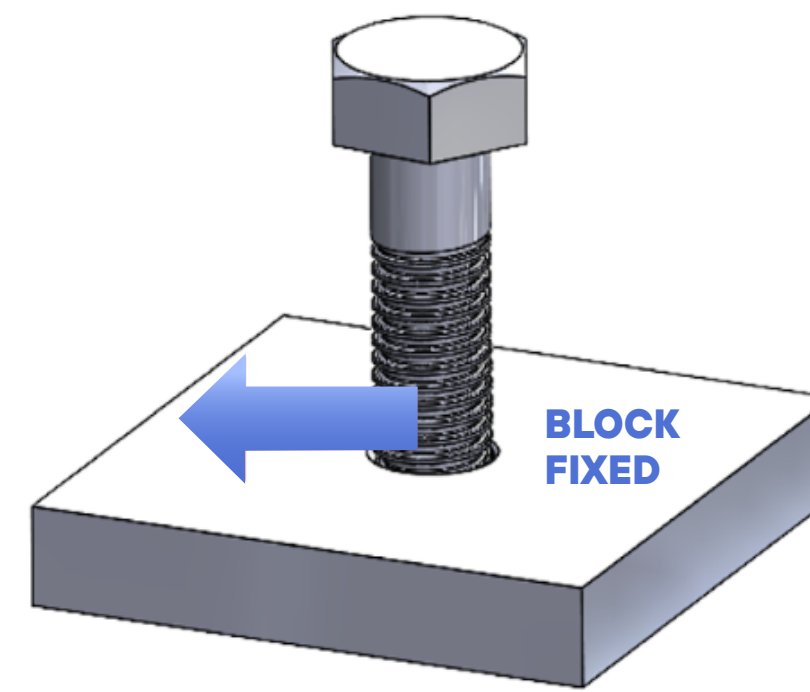
Unifi*M.I.* A&D VALIDATION POINTS



BOLT TENSION



BOLT COMPRESSION



1045 CARBON STEEL
VIBRATION CYCLING WITH CLAMP LOAD CHANGE OVER TIME

RESHAPING THE FUTURE

