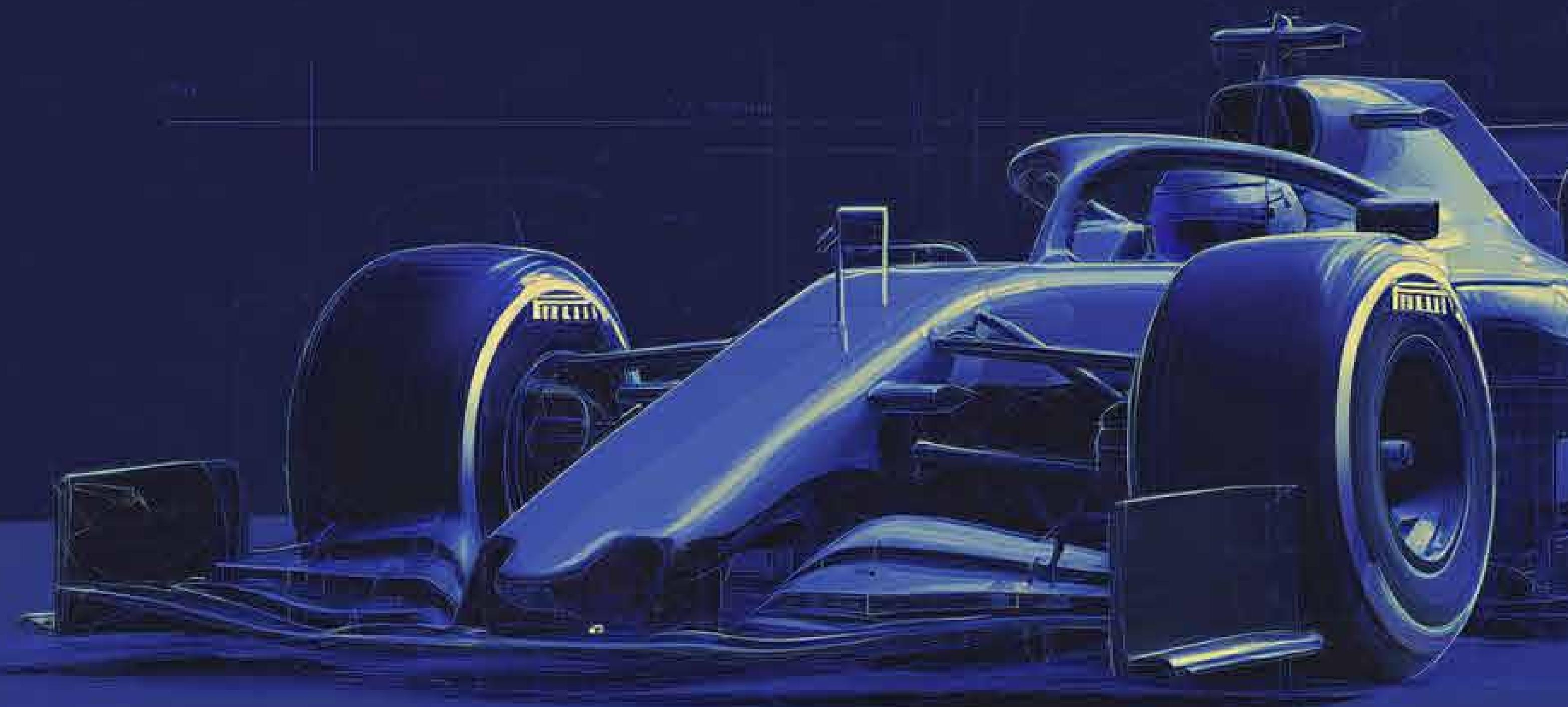




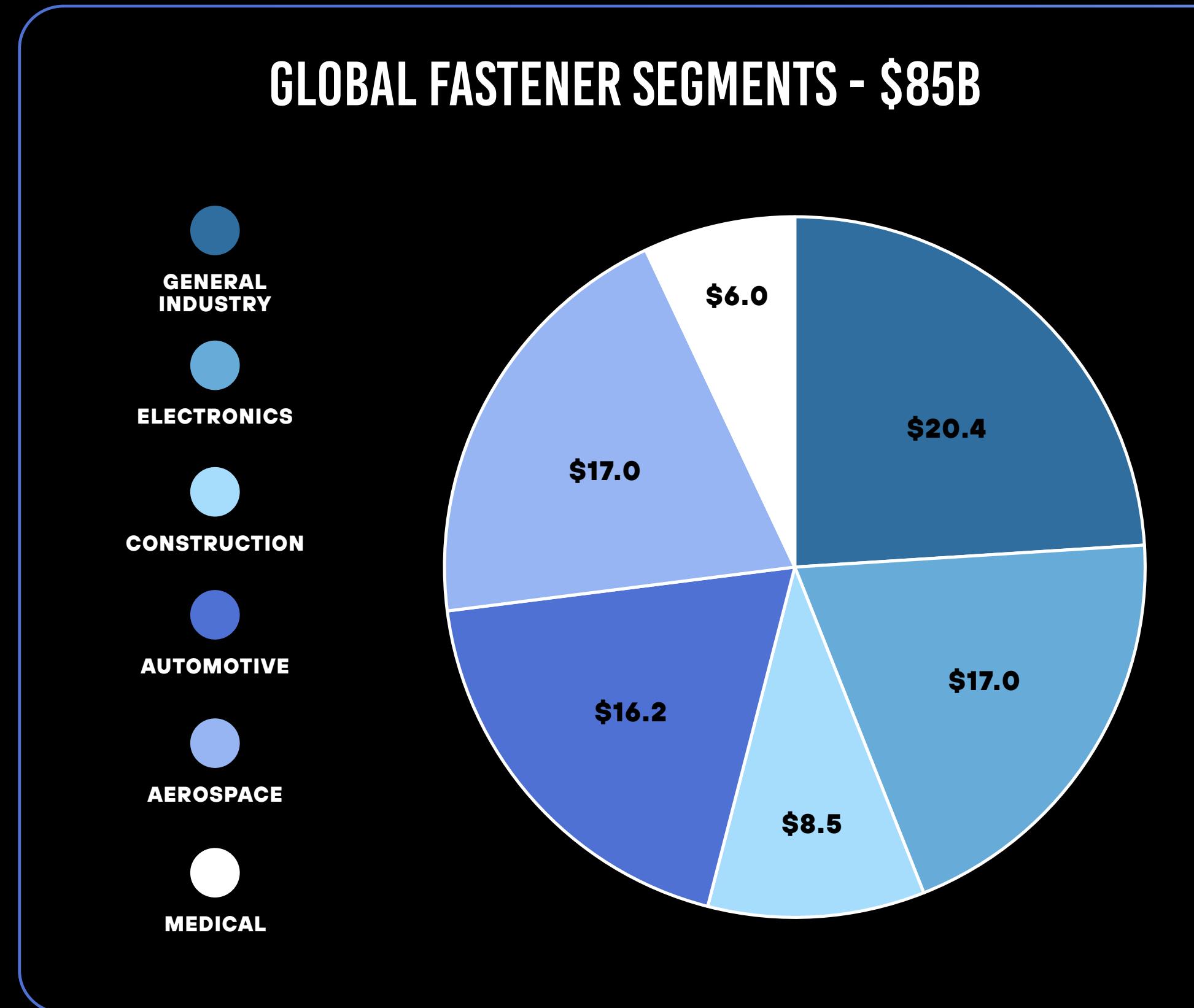
UnifiM.I.TM

AUTOMOTIVE, LLC

A FASTENER TECHNOLOGY COMPANY



INDUSTRY BREAKDOWN FOR FASTENERS



EV Fasteners Market to Reach \$20 Billion by 2030

According to an analysis by global market research firm, Stratview Research, the global Electric Vehicle (EV) Fasteners Market is projected to witness a growth rate of 13.5% annually from 2024 to 2030, with an anticipated size of some US\$20 billion by 2030. The analysis segments the global EV fasteners market based on vehicle type, EV type, application type, material type, threading type, fastener type and region. Visit the website below to get a free sample of the report:

www.stratviewresearch.com



EXPERIENCE MATTERS

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

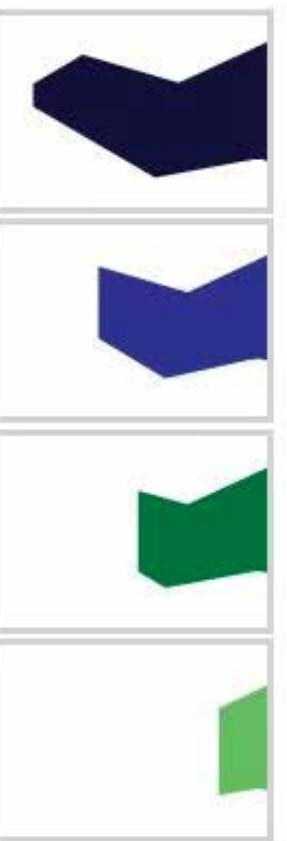
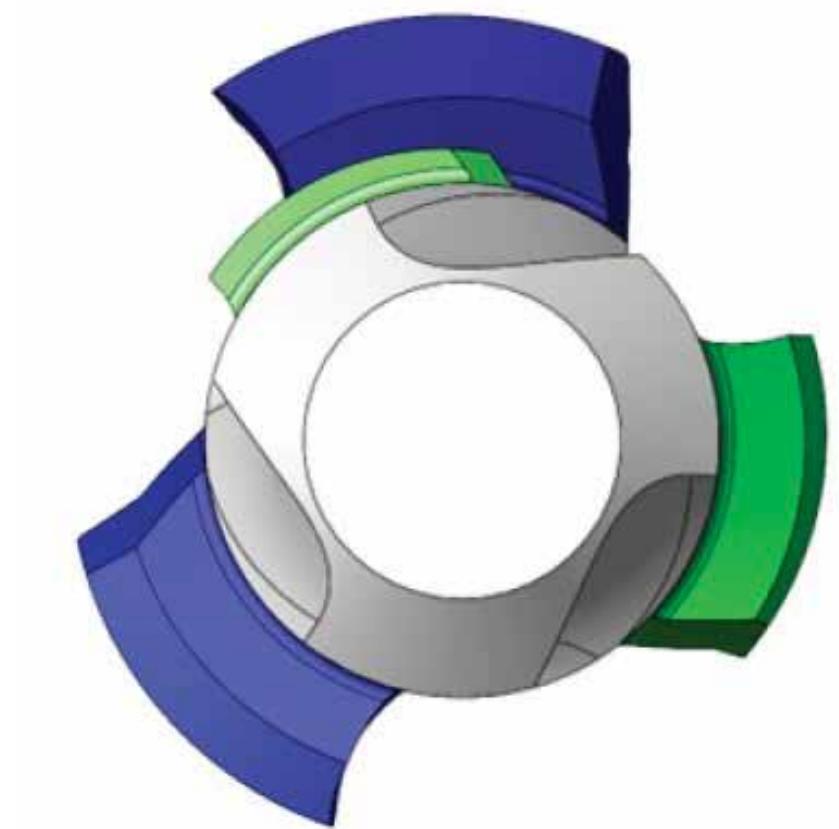
UTILIZED DAILY BY EXPERT SURGEONS
100 UNIVERSITY HOSPITALS TO
MAINTAIN IMPLANT STABILITY.



UNIFIM.I. PERFORMANCE CAPABILITIES

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

SUBSTRATE PRESERVING TAP



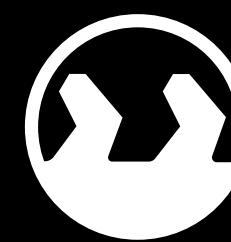
EXPERIENCE THE DIFFERENCE

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

INSERTION TEST



CONVENTIONAL 'BUTTRESS'
THREAD FORM



UNIFIM.I.
THREAD FORM



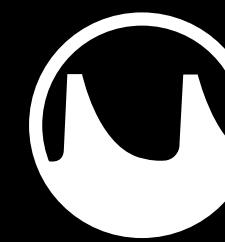
Conventional

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

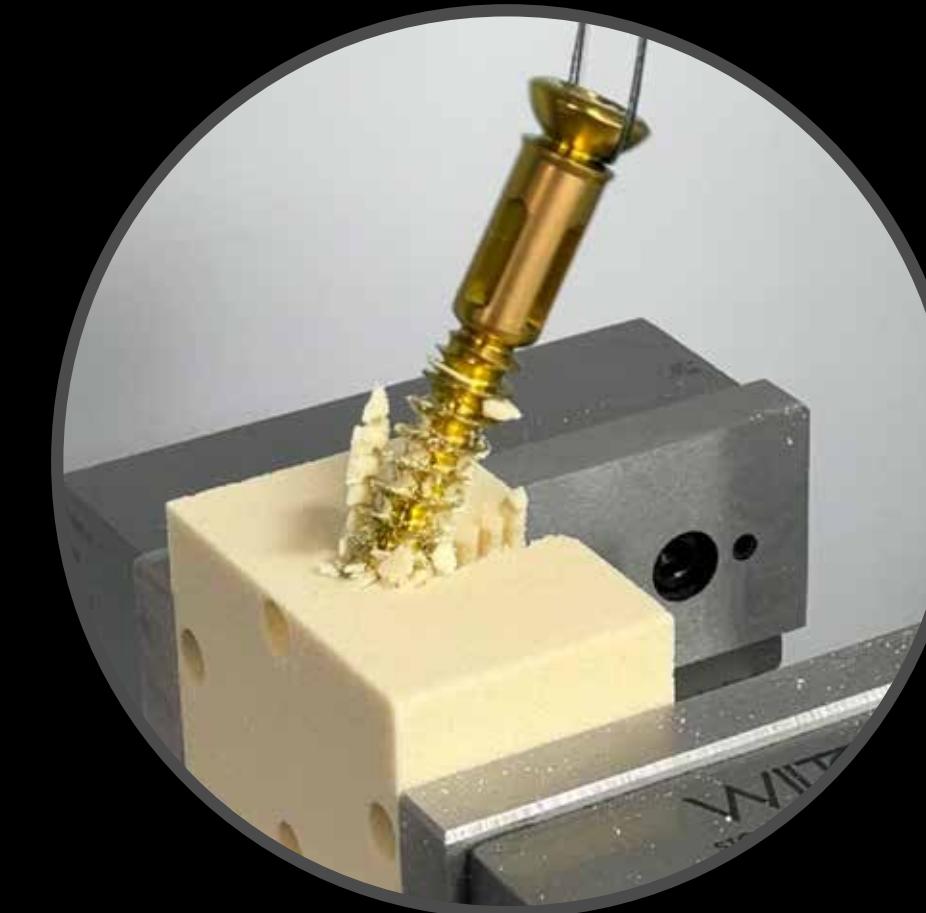
UnifiM.I.

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

PULL TEST

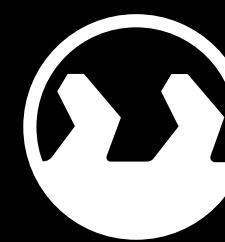


CONVENTIONAL 'BUTTRESS'
THREAD FORM



Conventional

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



UNIFIM.I.
THREAD FORM



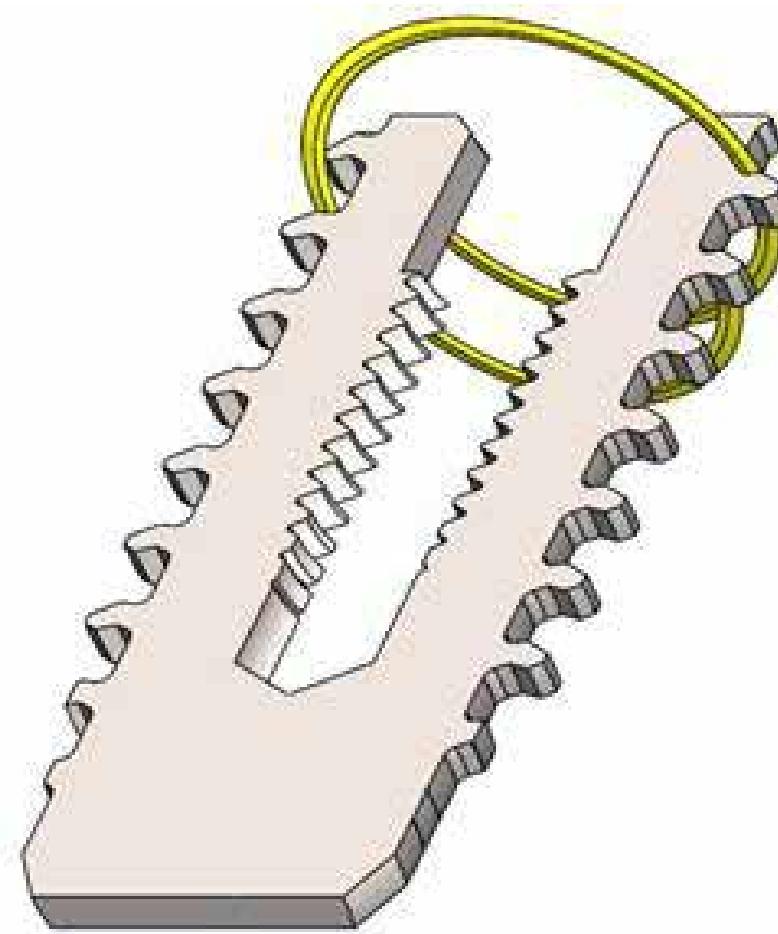
UnifiM.I.

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



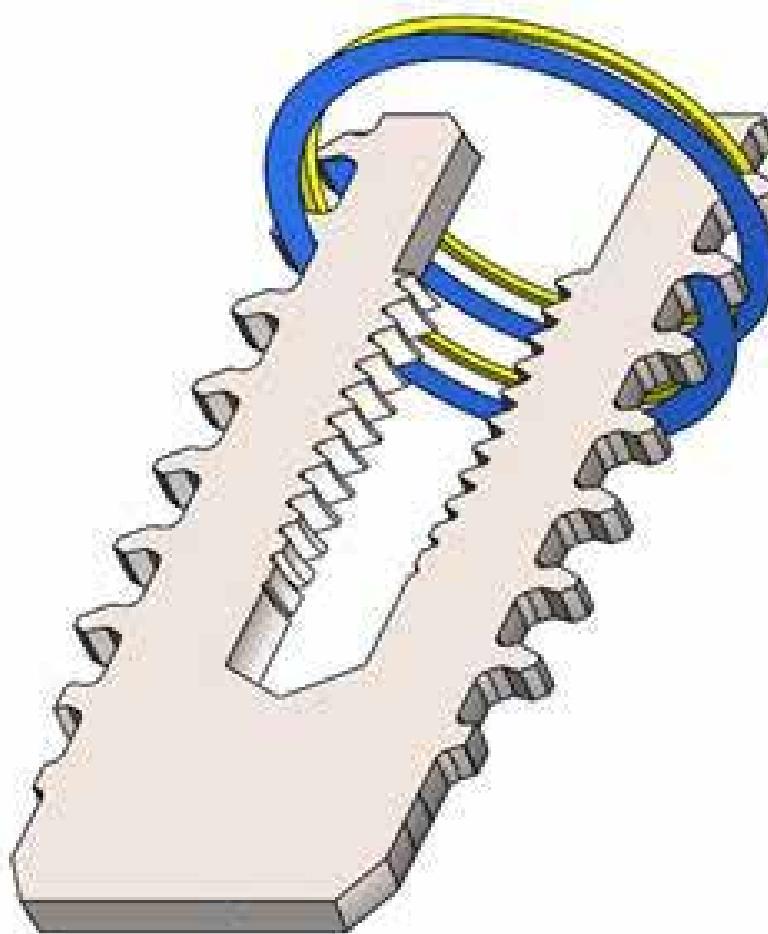
UnifiM.I. EXPLAINED

UNIQUE THREAD GEOMETRY: USING UNDERCUTS TO INTERLOCK WITH SUBSTRATE



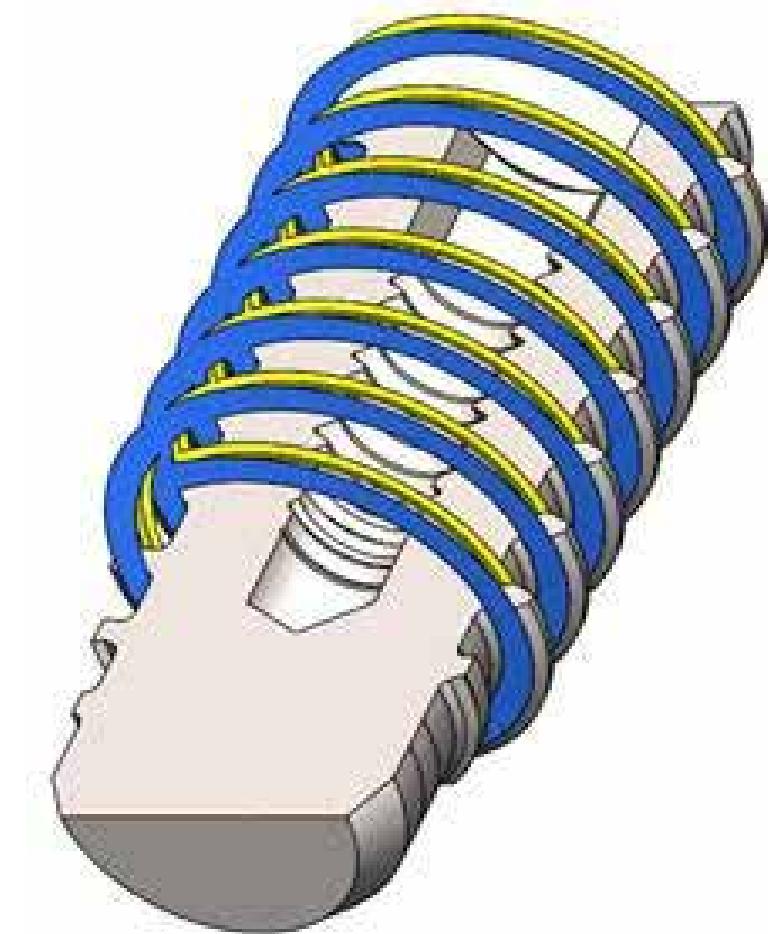
TRAILING UNDERCUT

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



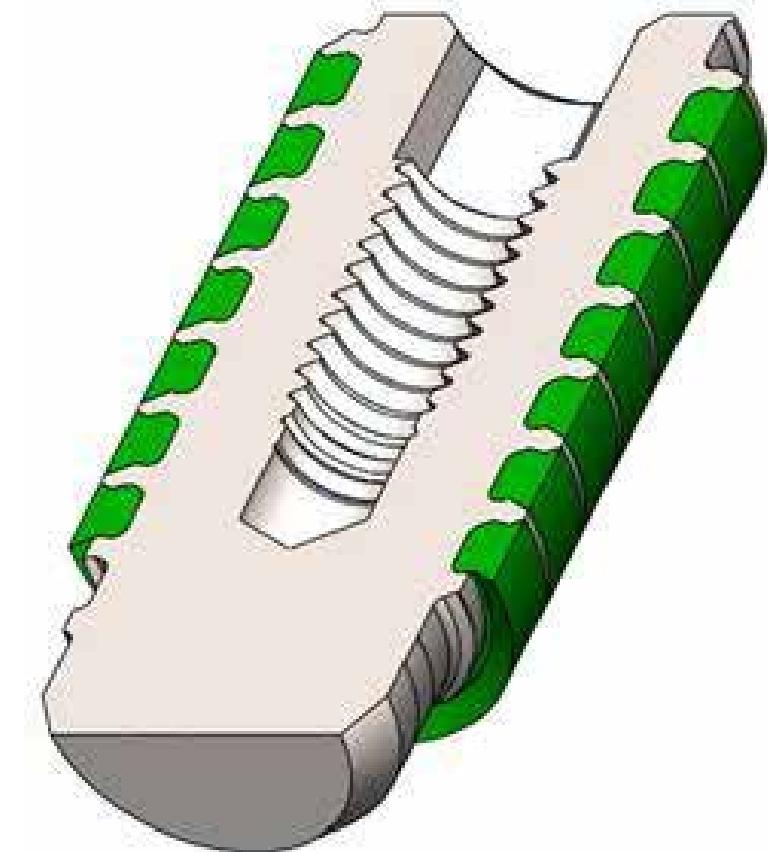
LEADING UNDERCUT

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.

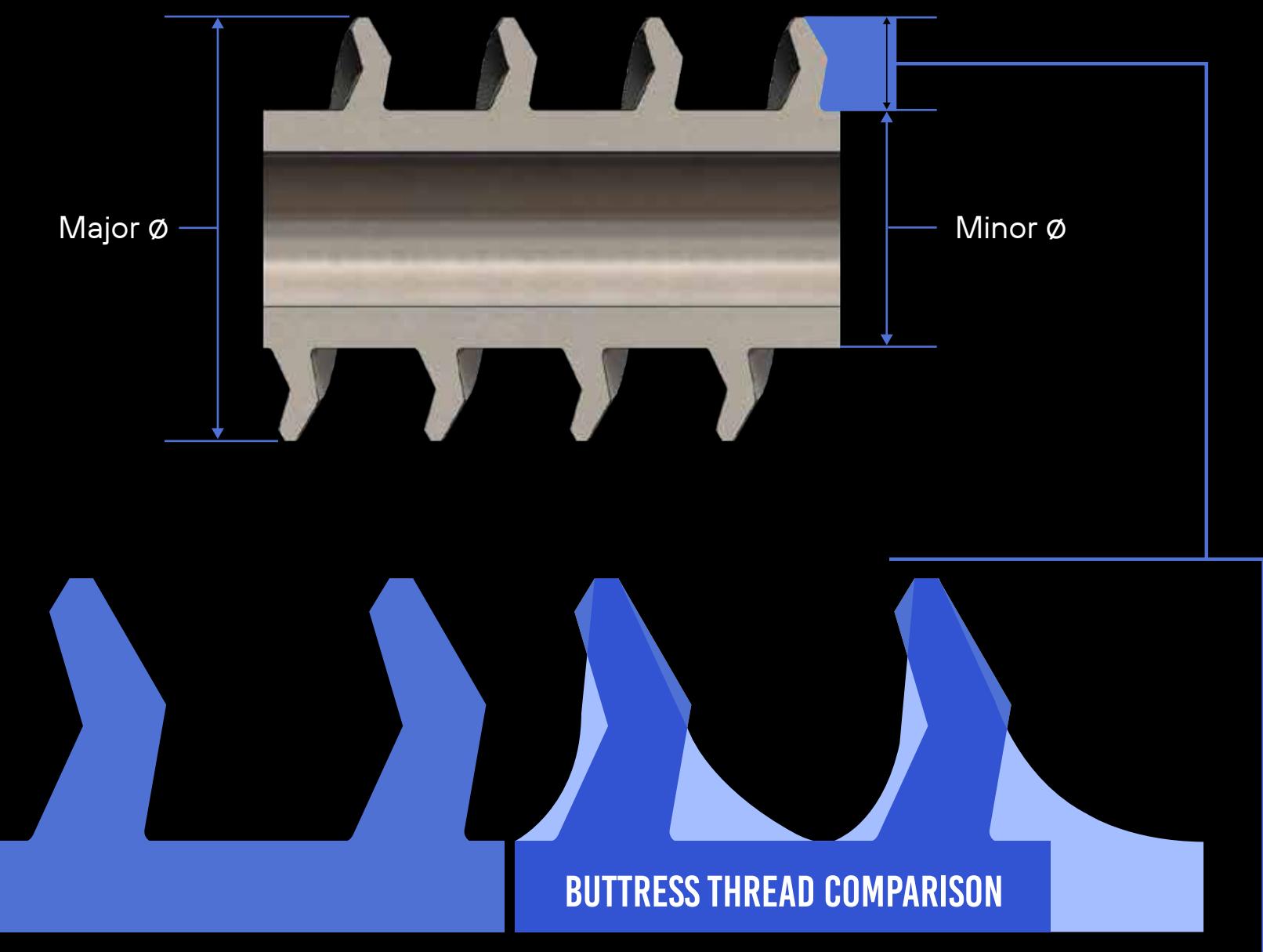


ADAPTABLE CHARACTERISTICS

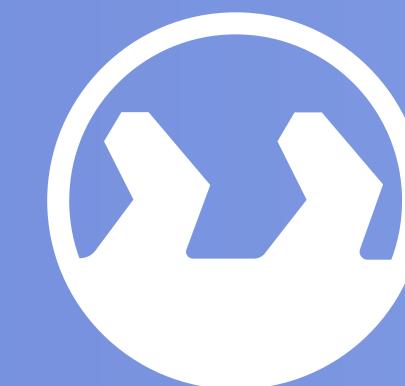
BY SUBSTRATE APPLICATION

Ability to control interface depending upon:

- Material Demands
- Application Needs



PERFORMANCE DRIVEN DESIGN



UNIFIM.I. THREAD FORM



CONVENTIONAL 'BUTRESS' THREAD FORM

DRILL OPTIMIZATION

TIP ANGLE

SPLIT POINT

PRIMARY & SECONDARY RELIEF

CORNER CHAMFER

FLUTE HELICAL ANGLE

FLUTE EDGE BREAK

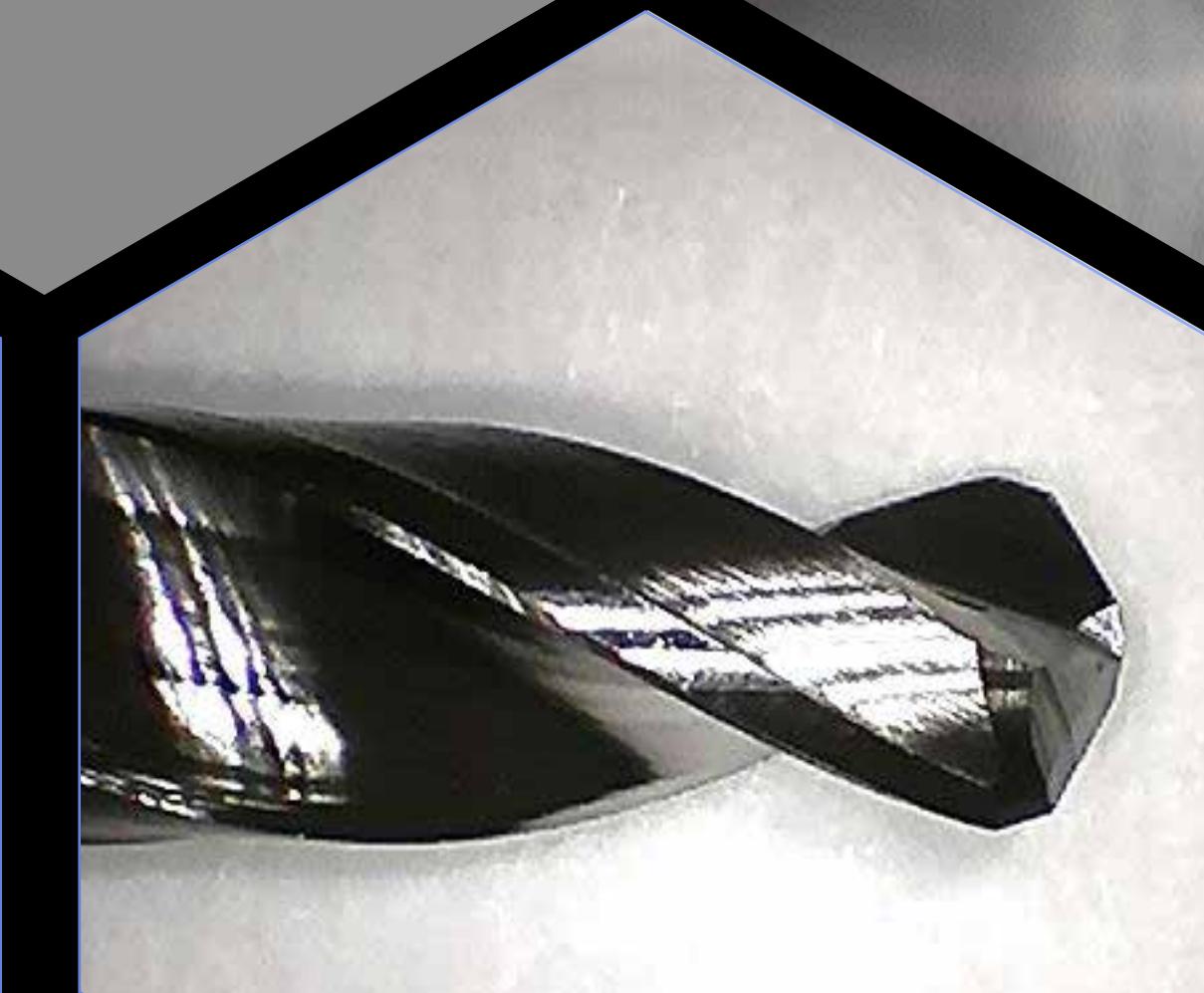
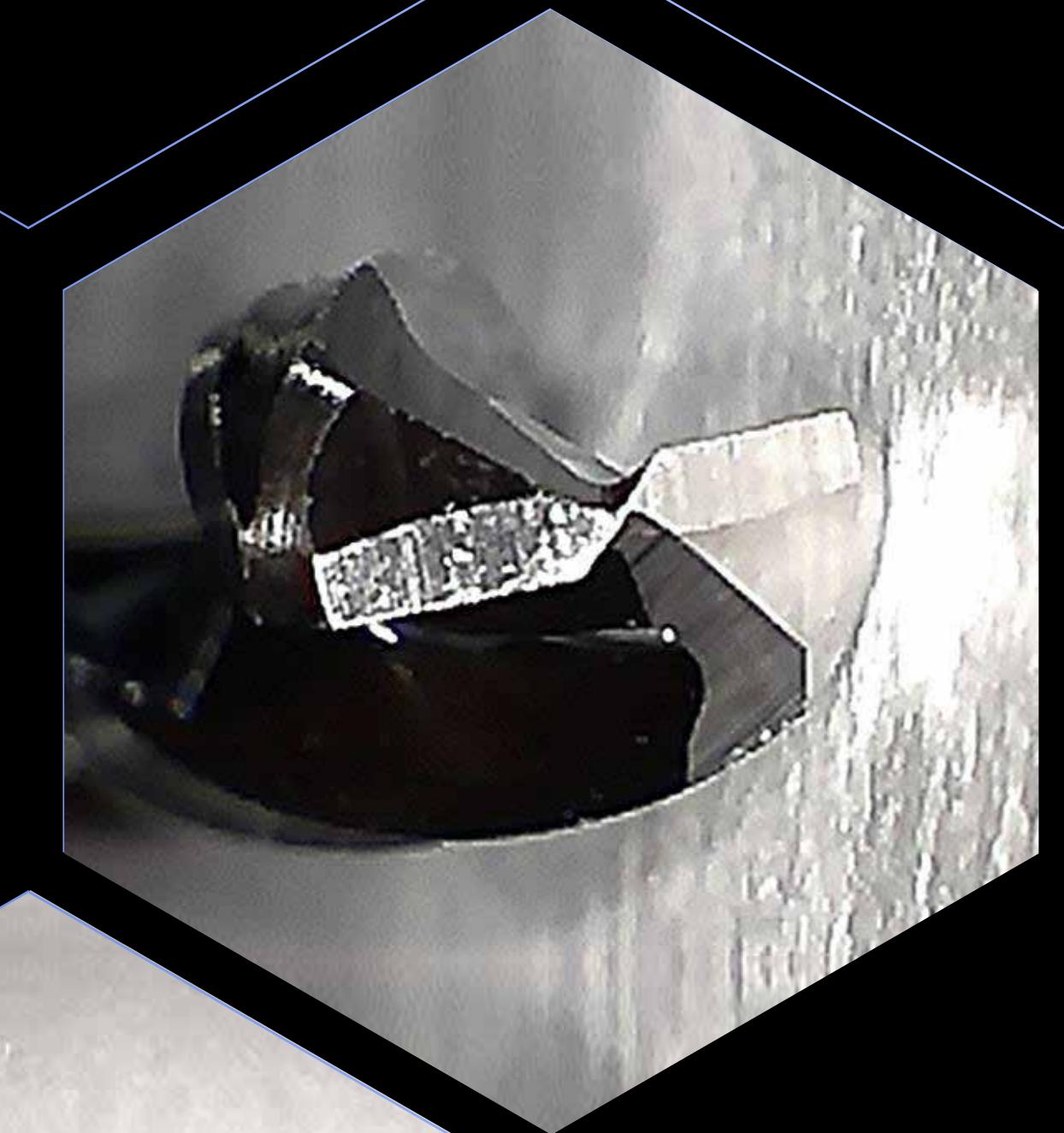
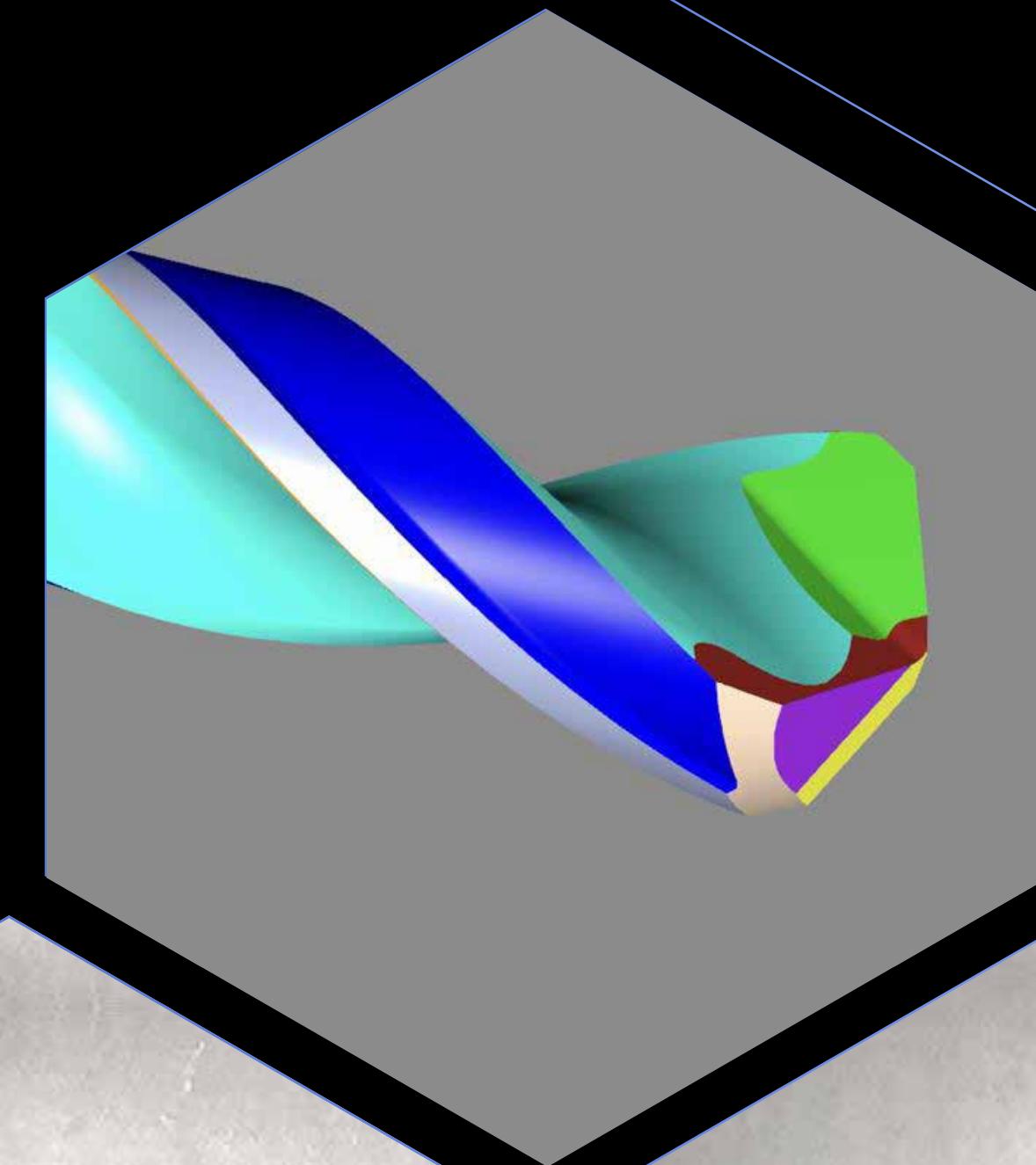
FLUTE MARGIN

RESULTING IN

MORE ACCURATE HOLE SIZE

FASTER DRILLING SPEED

LOWER HEAT GENERATION



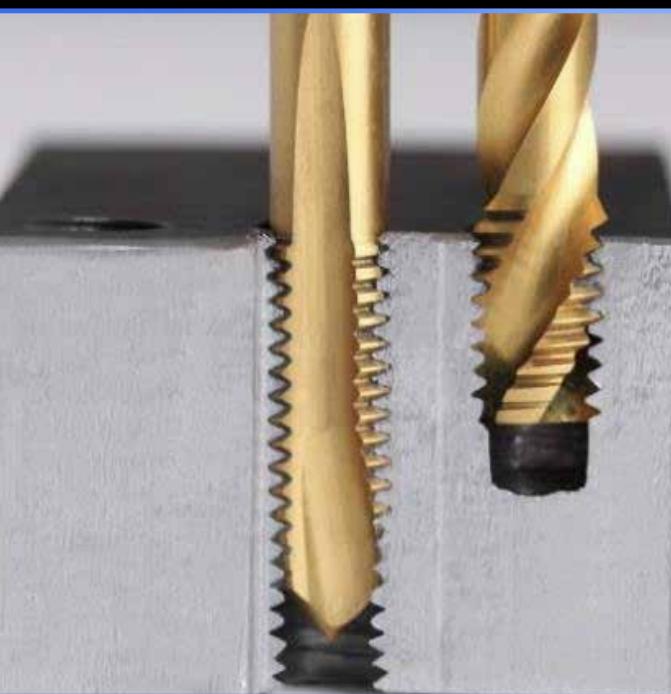
LEVERAGING KNOWLEDGE

APPLICATION OF INTELLECTUAL PROPERTY

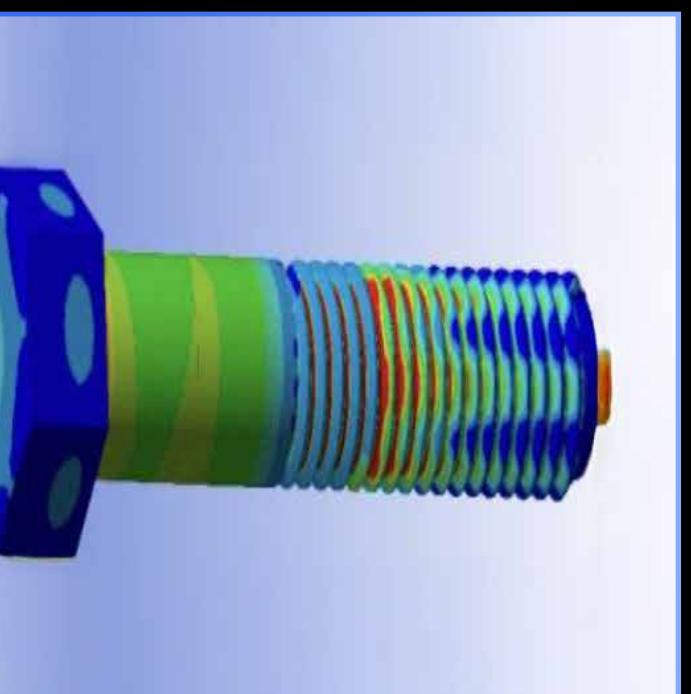
DRILLING



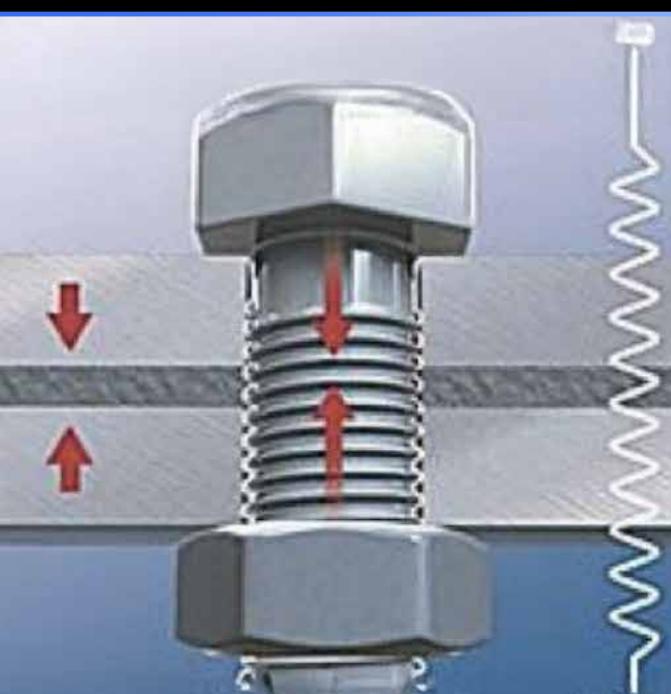
TAPPING



STRESS MANAGEMENT



STABILITY



AUTOMOTIVE APPLICATION

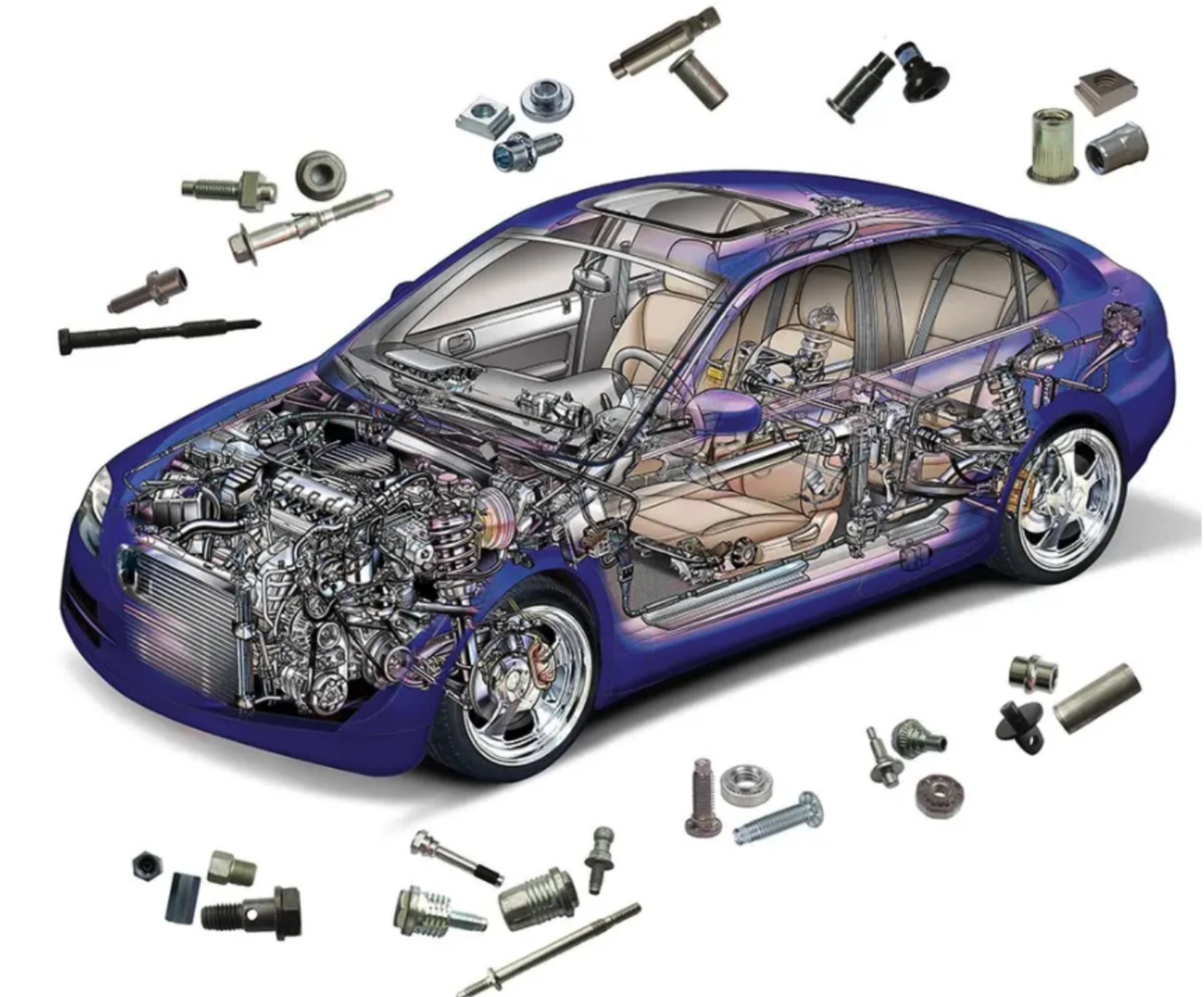
AREAS OF FOCUS

NUT & BOLTS: Engine components, suspension systems, body panels, wheels

SELF-TAPPING SCREWS: Interior trim, electrical components, air intake systems

CLIPS & RETAINERS: Wiring hoses, interior trim

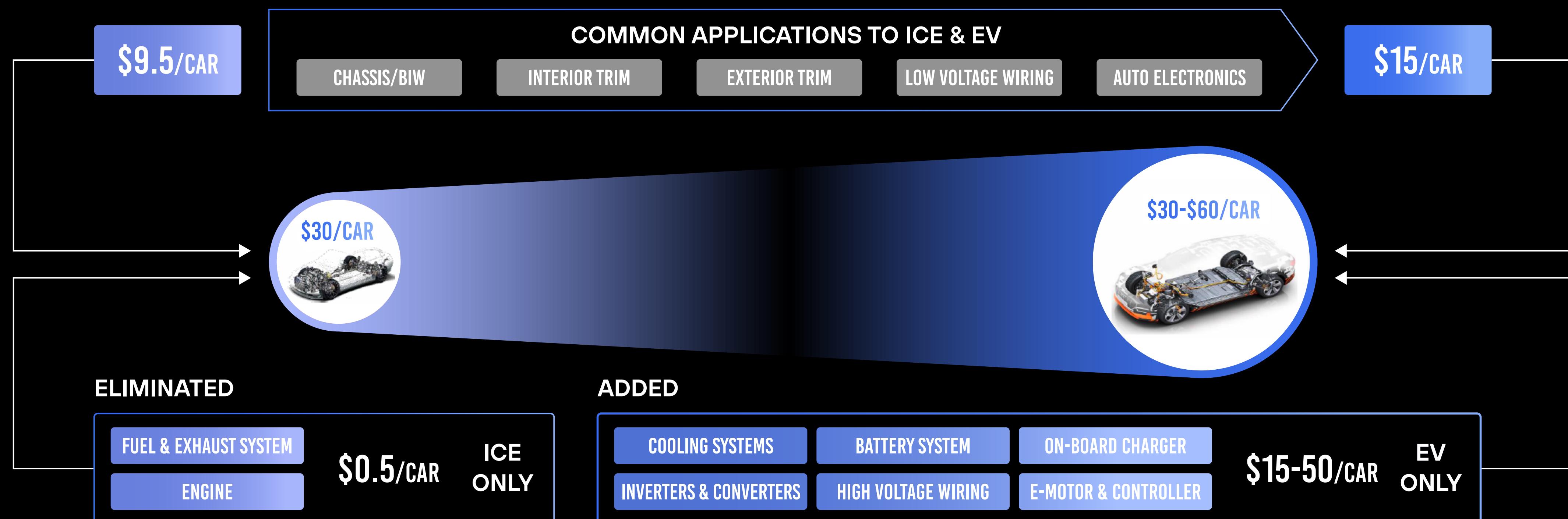
RIVETS: Body panels, chassis components



EV FASTENER NEEDS

INTERNAL COMBUSTION (ICE) VEHICLE AVERAGE CONTENT

FULLY ELECTRIC & HYBRID ELECTRIC VEHICLE PROJECTED CONTENT



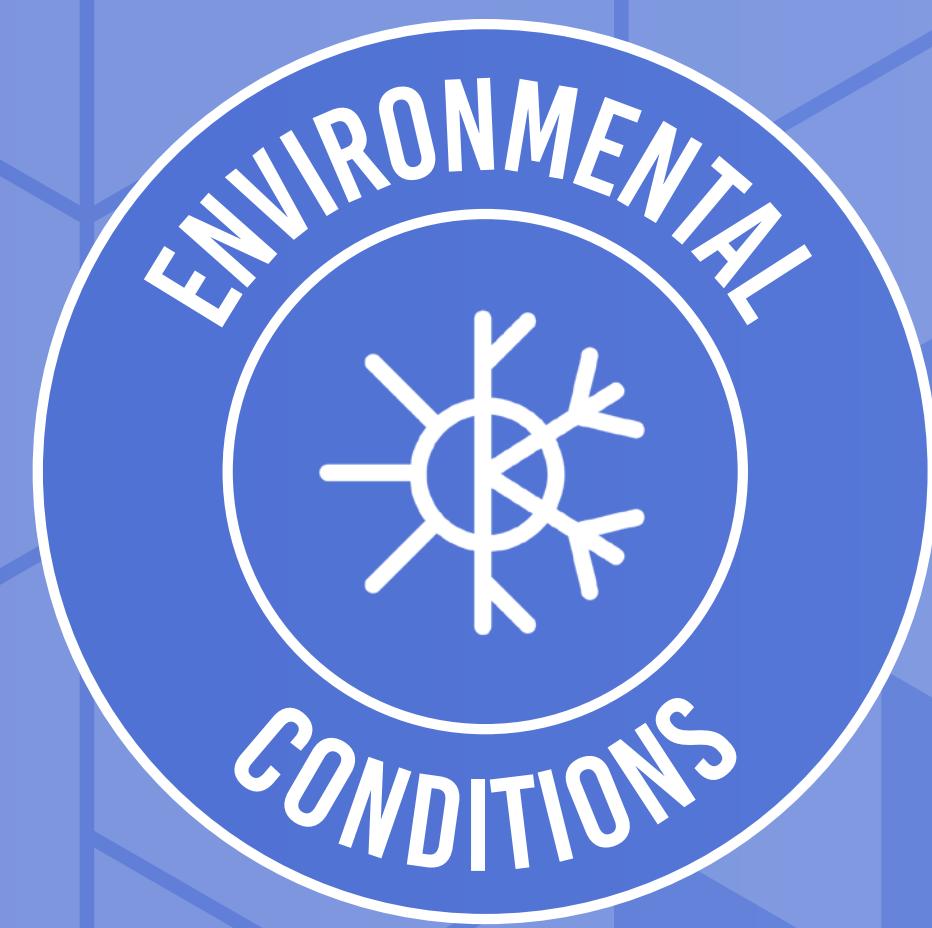
ELECTRIFICATION DRIVES 3X TO 6X HIGHER CONTENT \$ POTENTIAL PER VEHICLE

StanleyBlack&Decker | Investor Presentation | August 2024



AUTOMOTIVE APPLICATIONS

ADDRESSING KEY MARKET CHALLENGES



UnifiM.I. FASTENER PLATFORM

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

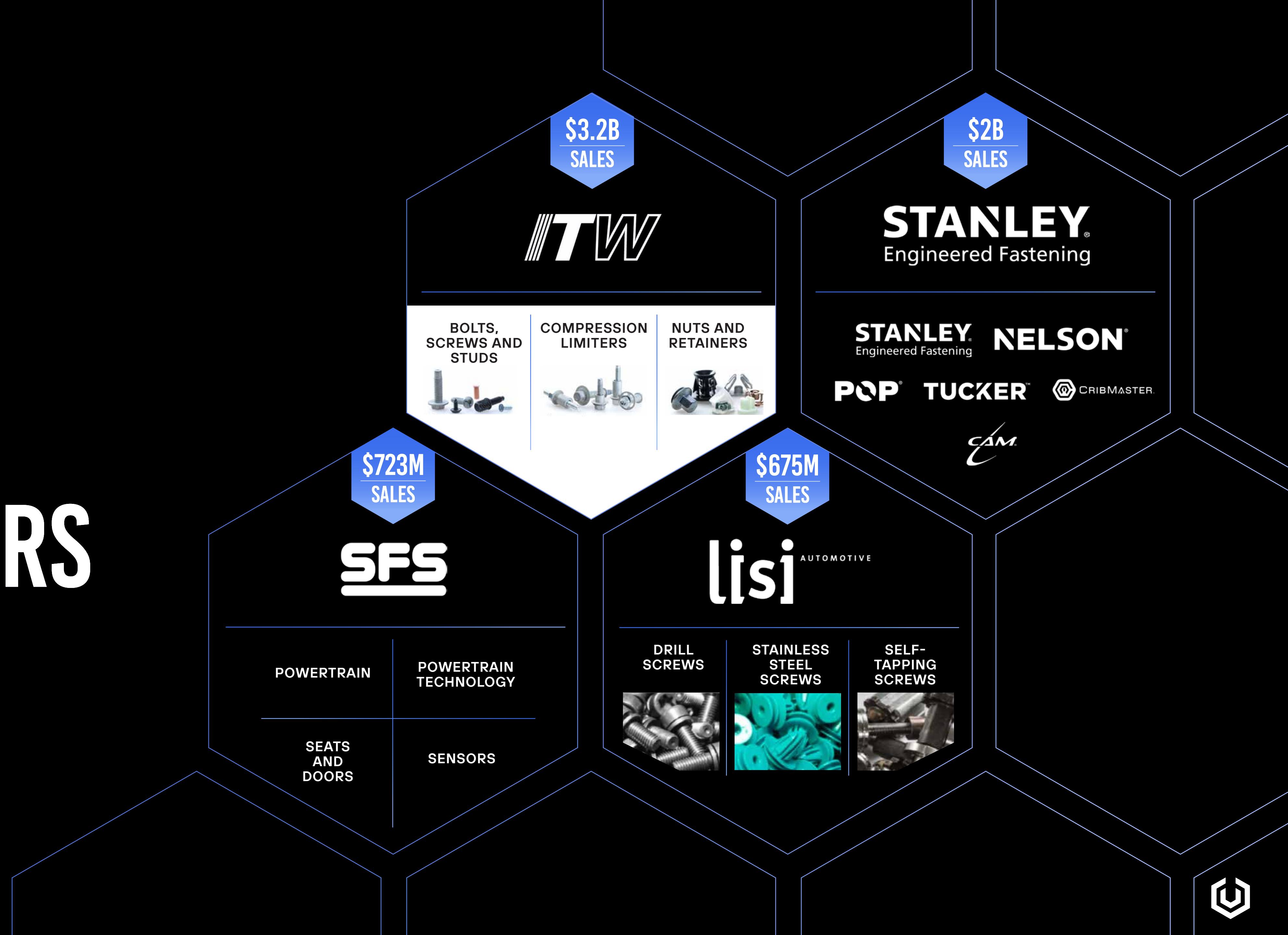
OPTIMAL MECHANICAL, STRUCTURAL & FUNCTIONAL CONNECTION

REDUCE ASSEMBLY TIME, COST & WEIGHT

UTILIZE TRADITIONAL MANUFACTURING TECHNIQUES



TARGET PARTNERS





UnifiM.I. AUTOMOTIVE 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

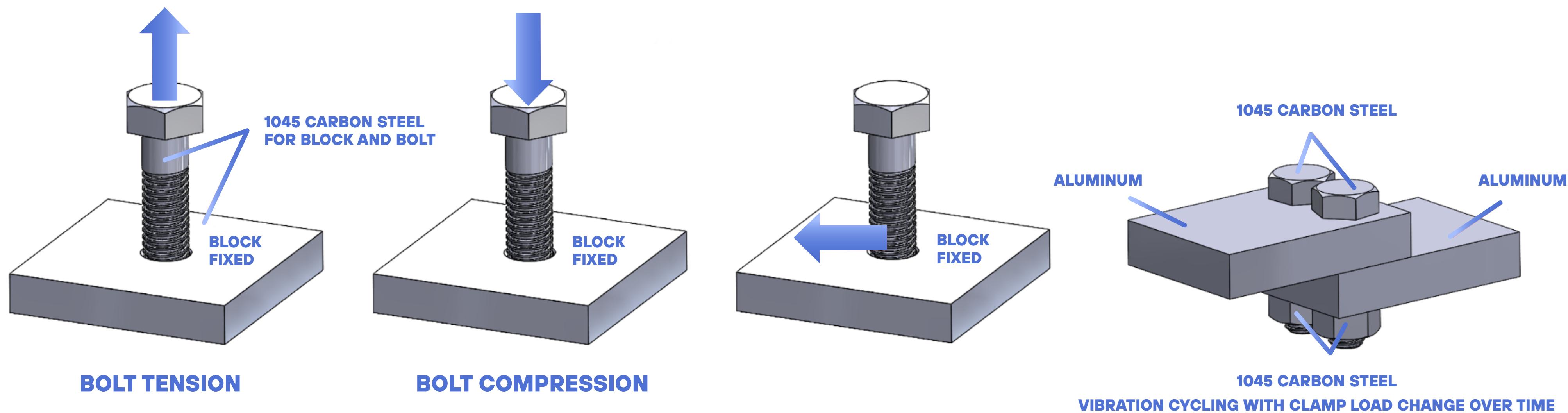
4. Bring “**killer app**” to market with partner

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



UnifiM.I. AUTOMOTIVE VALIDATION POINTS

STRUCTURAL & DYNAMIC MECHANICAL TESTING



RESHAPING THE FUTURE



UnifiM.I.TM
AUTOMOTIVE, LLC

