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Summary

- Features and Benefits
- Locking System
- Pin



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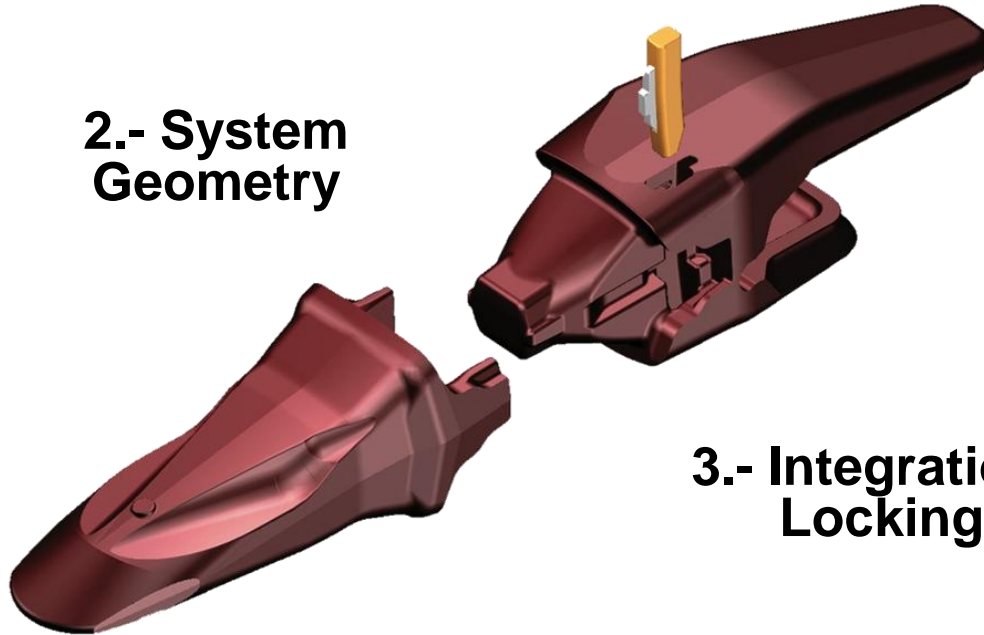


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Main System points

1.- Pin

2.- System
Geometry



3.- Integration of the
Locking System

4.- New range
of MTG Designs



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Features and Benefits



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Nose Geometry

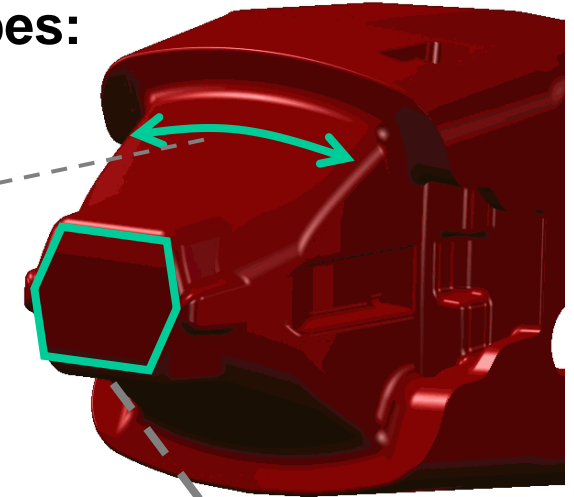
The basic shapes:

The profile:



PROFILE ADVANTAGES

ELLIPSE ADVANTAGES



HEXAGON ADVANTAGES

More Optimisation

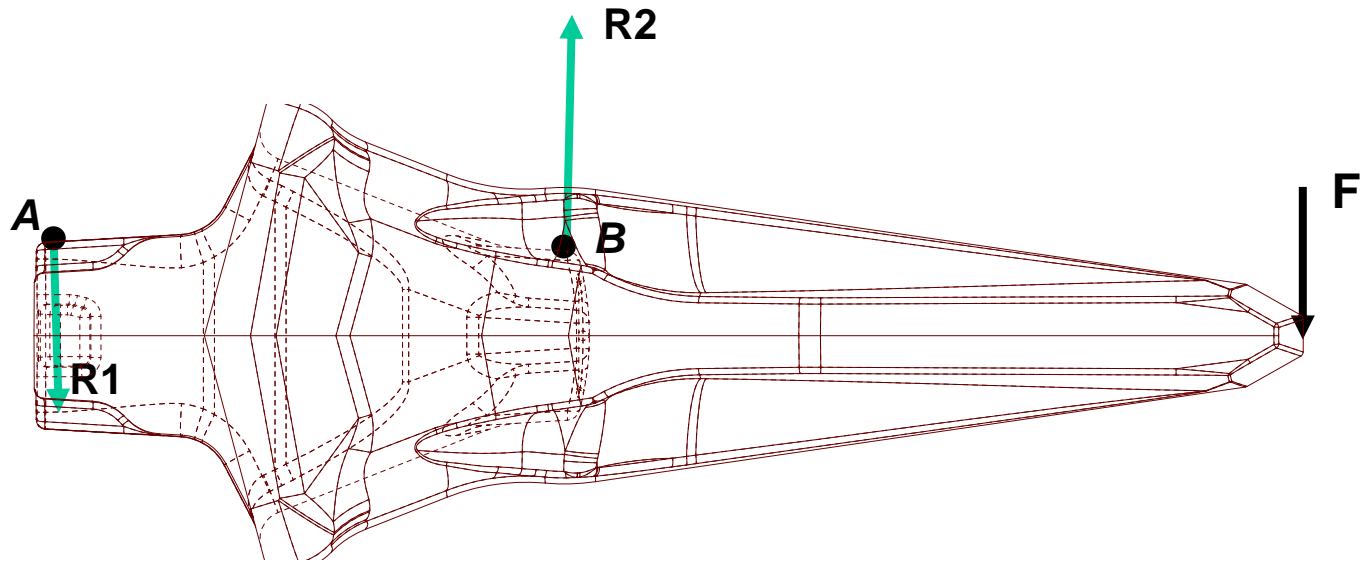


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Absorption of Vertical Loads



- LESS tensions (R1 and R2), in contact points (A and B).
- Teeth, adapters and pin, subjected to LOWER levels of effort.

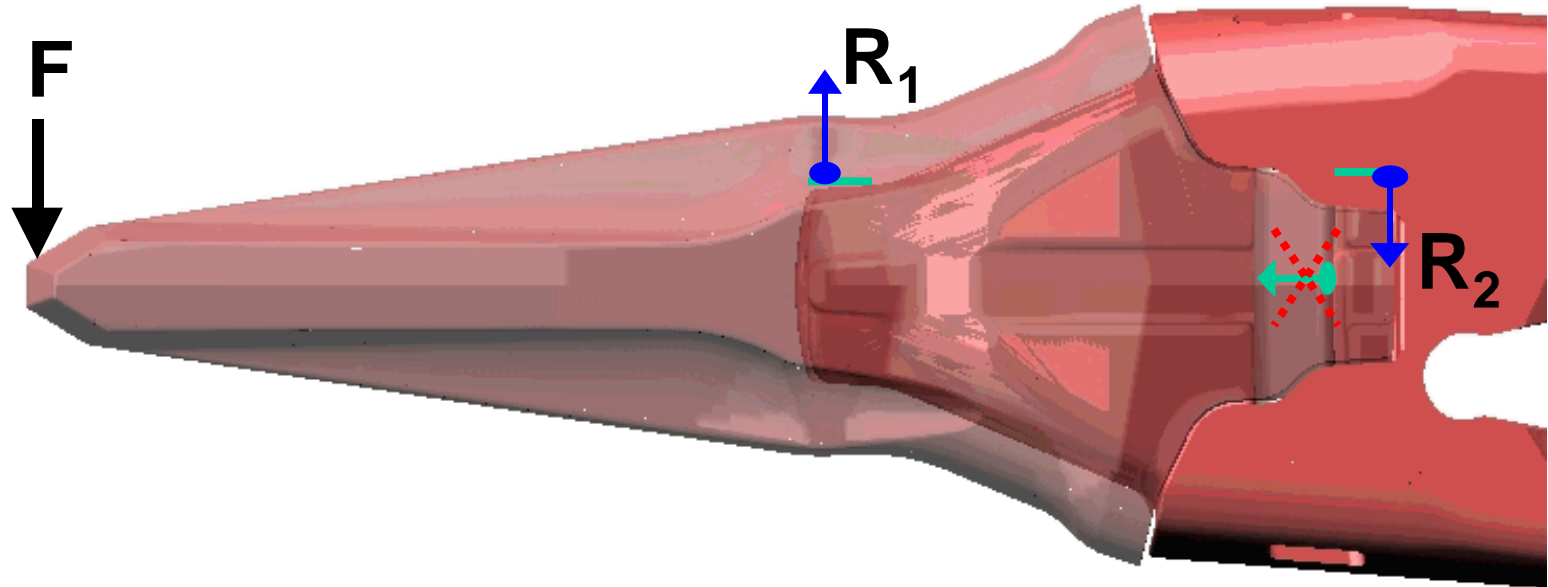
More Resistance





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Stabilization Surfaces



- LOWER level of stress on the pin.
- LESS risk of pin loss.

More Reliable



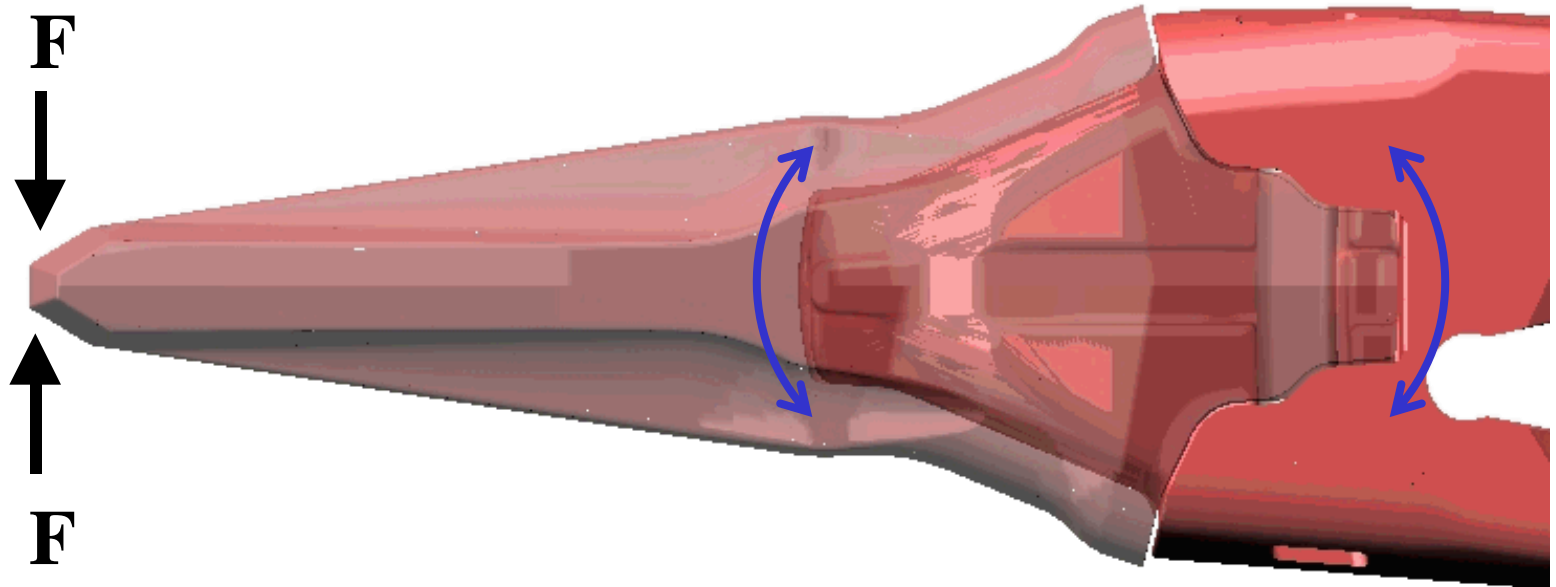
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Natural Movement



!!!Less wear due to deformation!!! **More Useful Life**



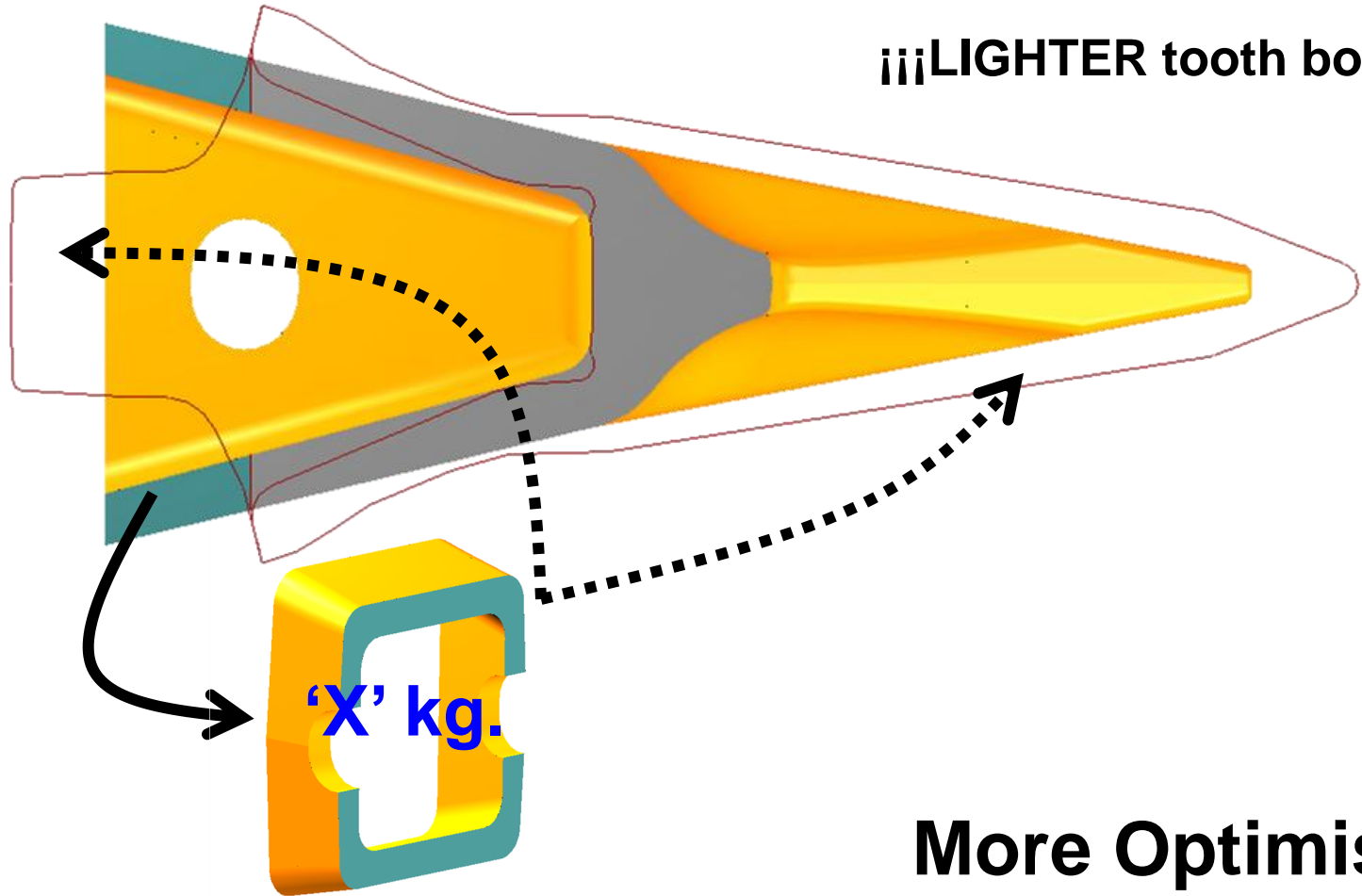
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Fitting system with ears



!!!LIGHTER tooth box!!!

'X' kg.

More Optimisation



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Ear Geometry

Ear Recess



- **BETTER** absorption of lateral-type loads
- **AVOIDS** the tendency of the ear to open

More Safety



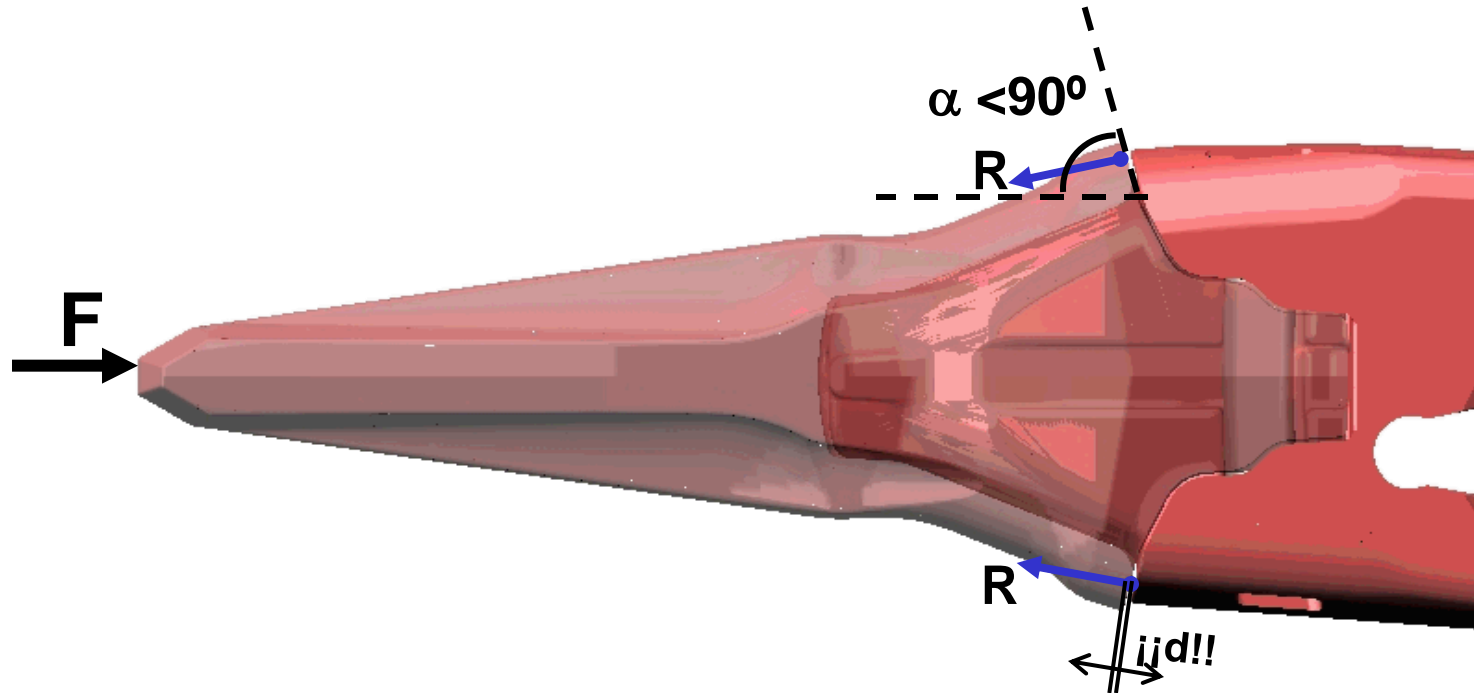
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Adapter Shoulder



!!! Thanks to the 'R' force, the tooth box has a tendency to
close!!!

More Resistance



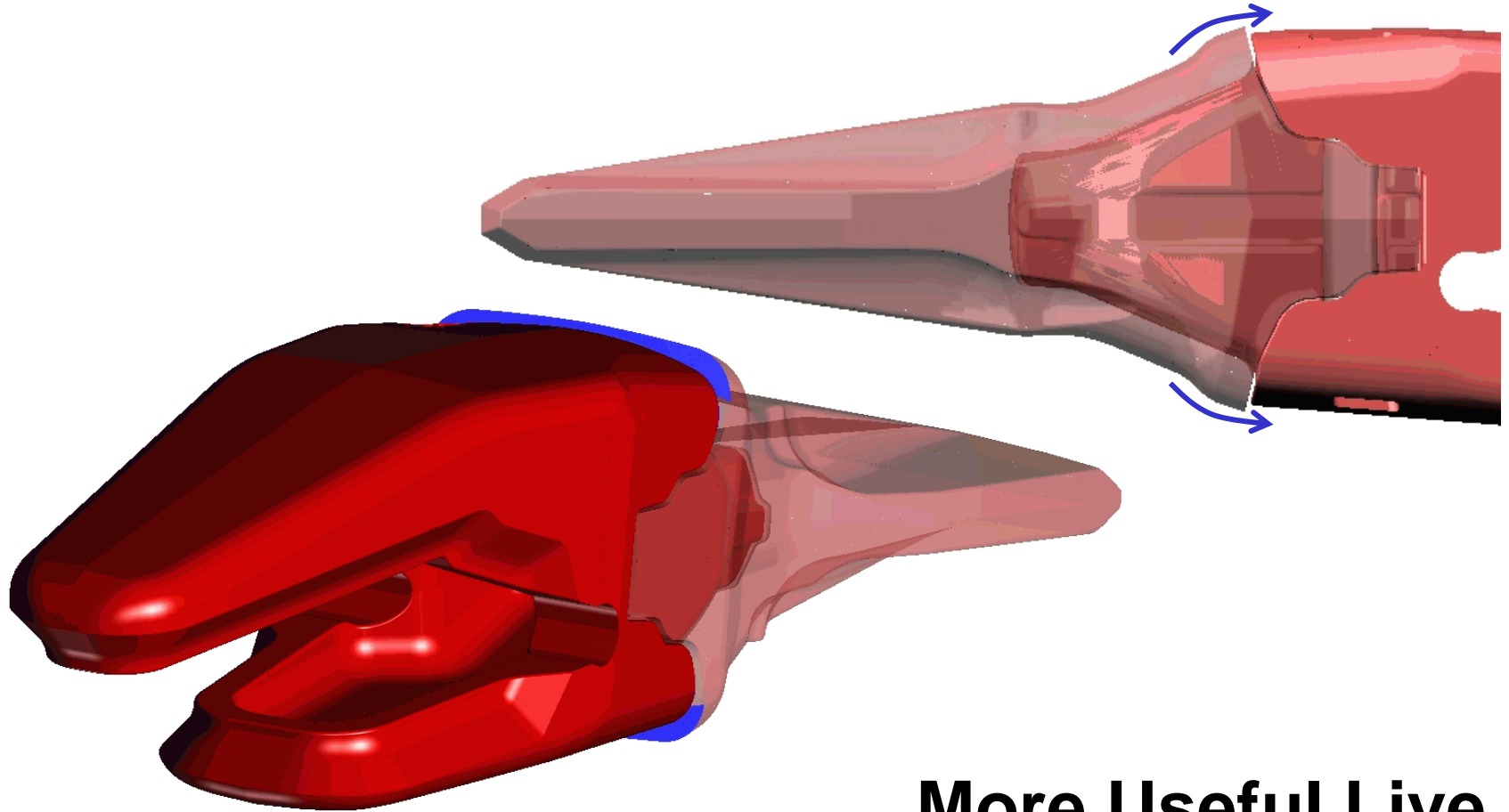
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Extra-Adapter protection



More Useful Live



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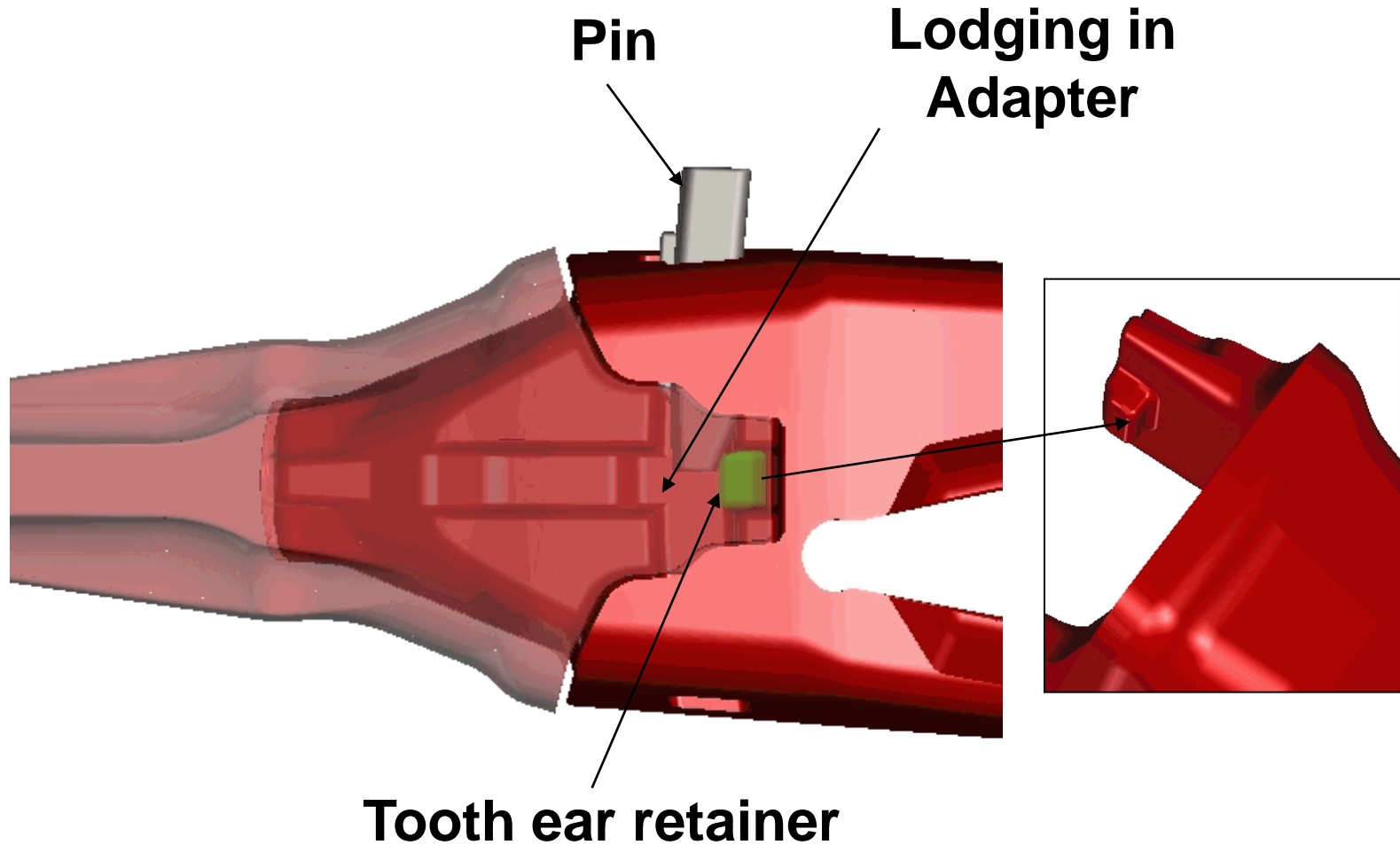
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Locking System



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Locking System Parts

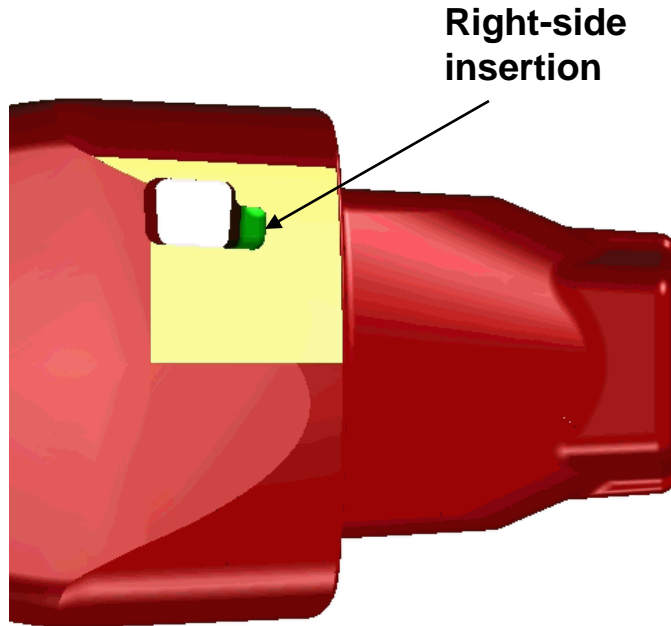


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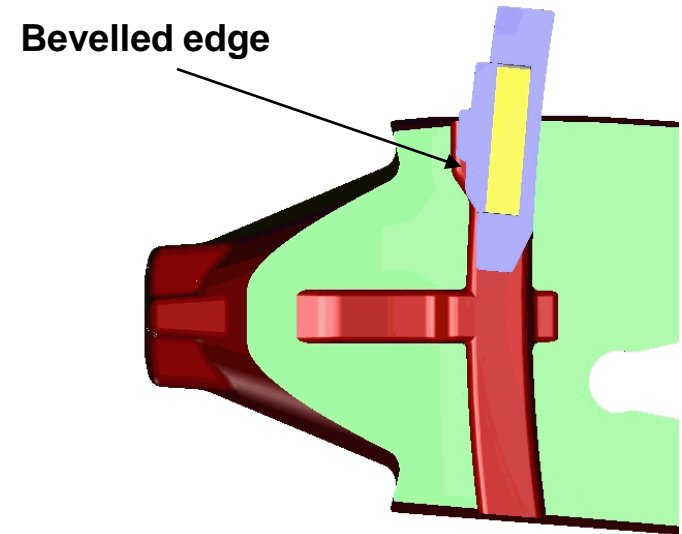
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Bevelled edge in the adapter



**1. Indicates correct pin
insertion**



2. Facilitates pin insertion

**More Easy to
Assemble**

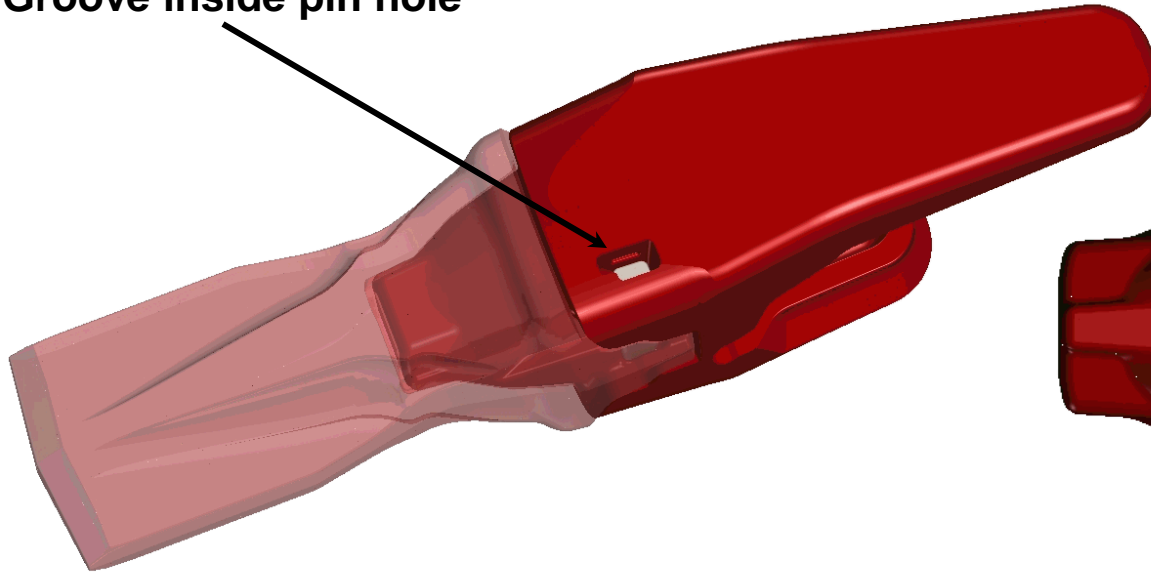




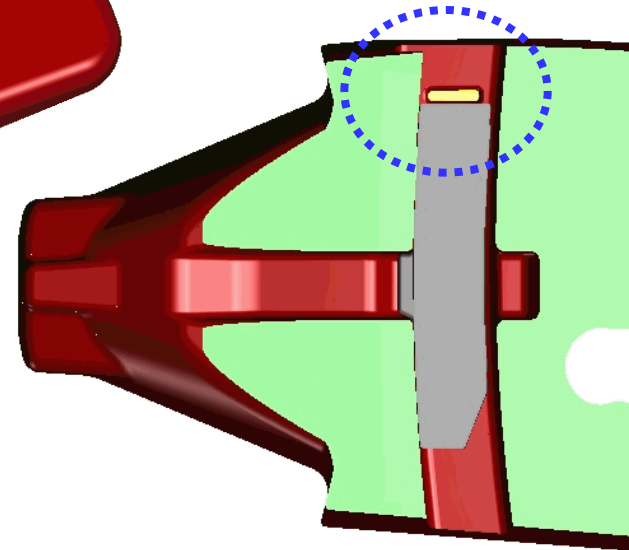
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Pin position groove

Groove inside pin hole



!!!OK!!!



More Easy to Assemble



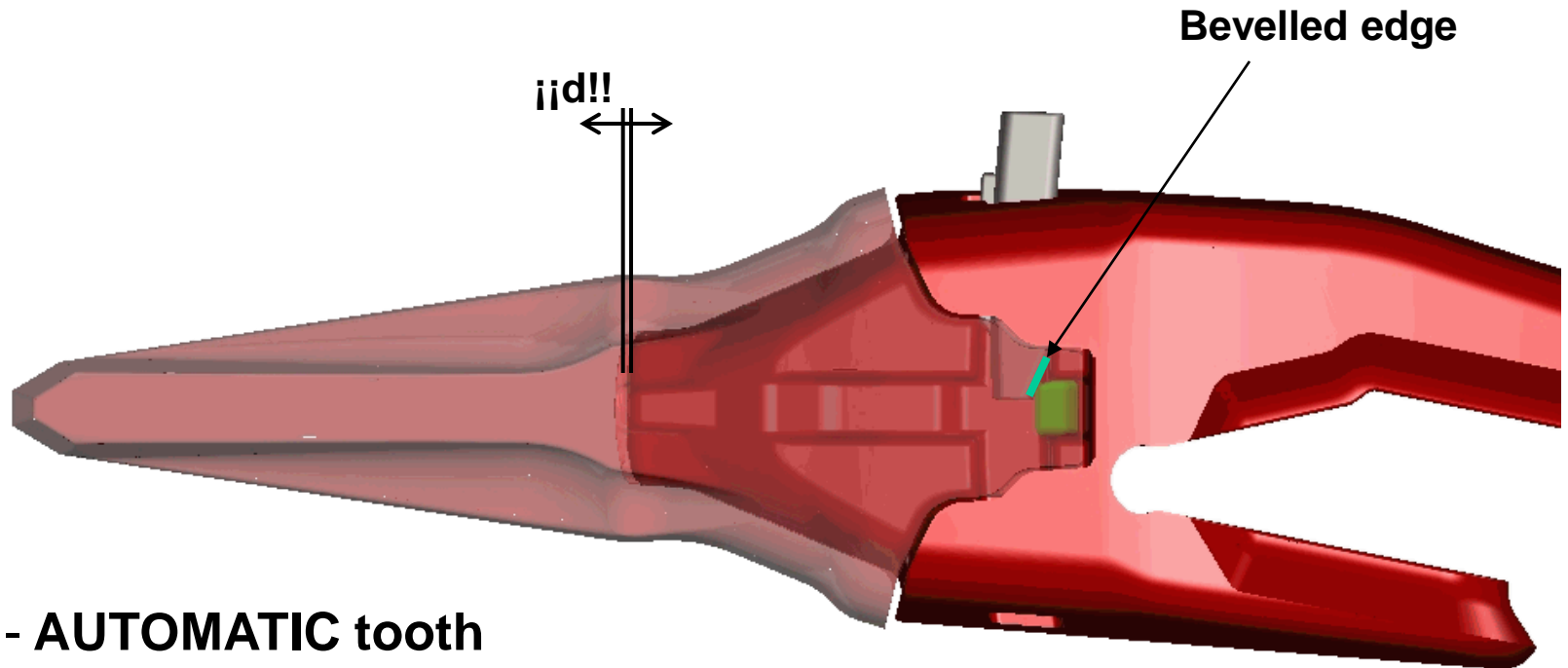
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Bevelled pin edge



- **AUTOMATIC** tooth adjustment.
- **AVOIDS** the tooth being struck.

More Safety



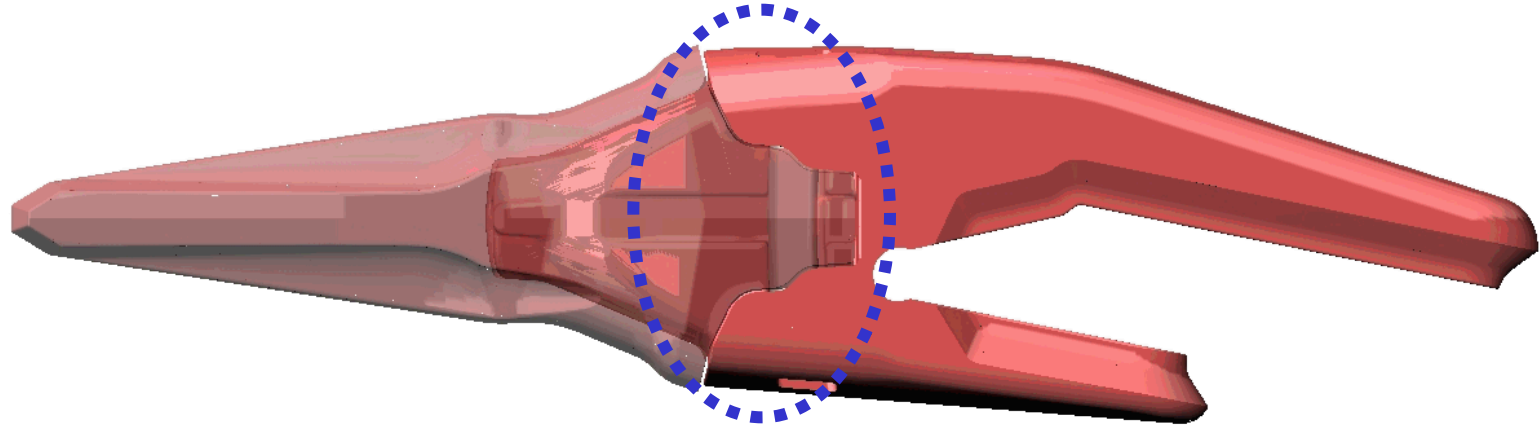
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Pin integration



- REUSABLE pin.
- PIN PROTECTED against impacts (rocks,...)

More Life



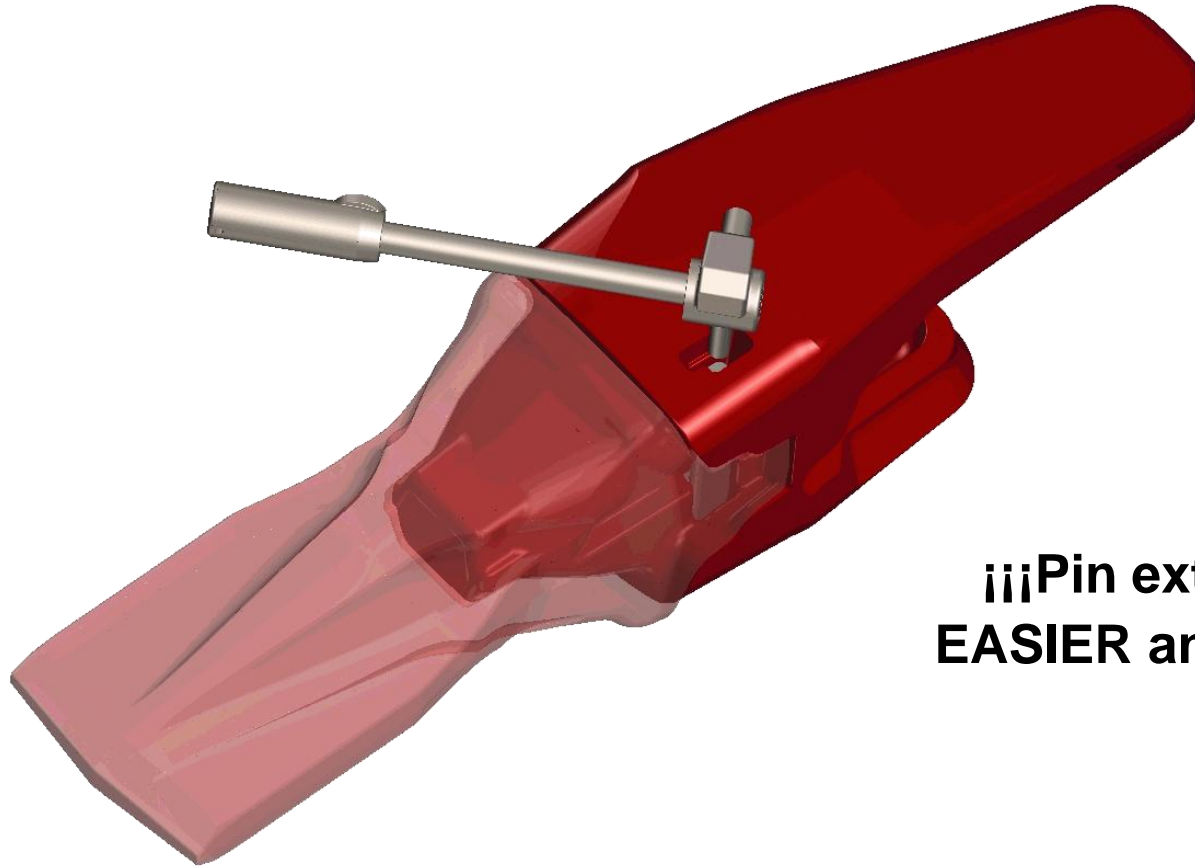
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Pin inside adapter



!!! Pin extraction is
EASIER and SAFER!!!

More Safety



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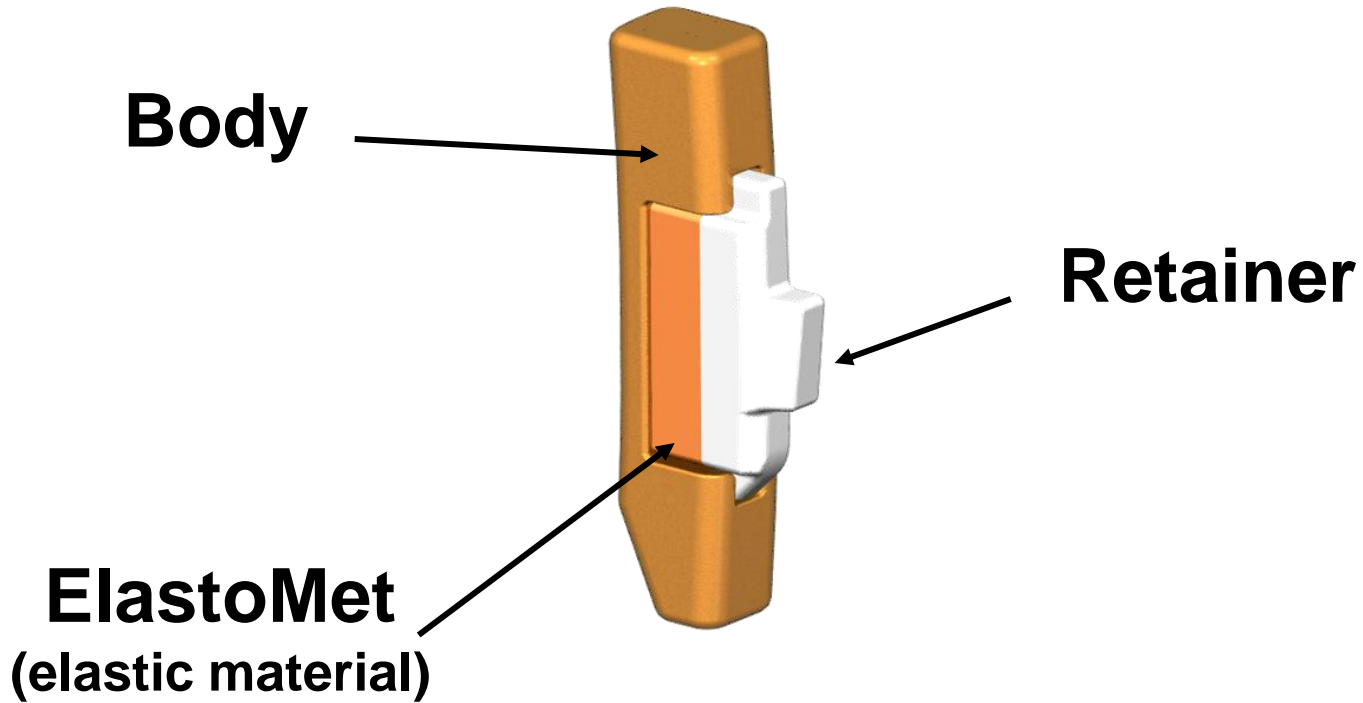
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Pin



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Pin



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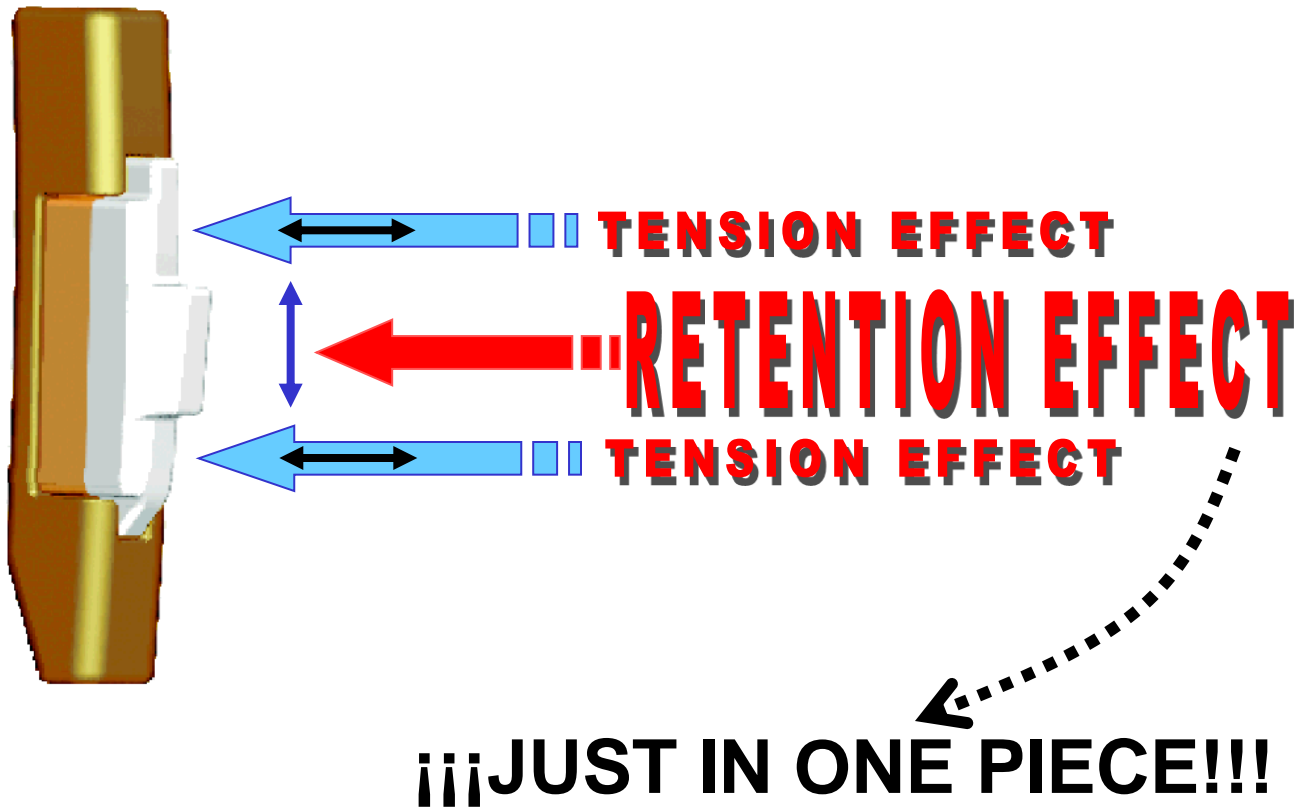
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Pin

TENSION and RETENTION



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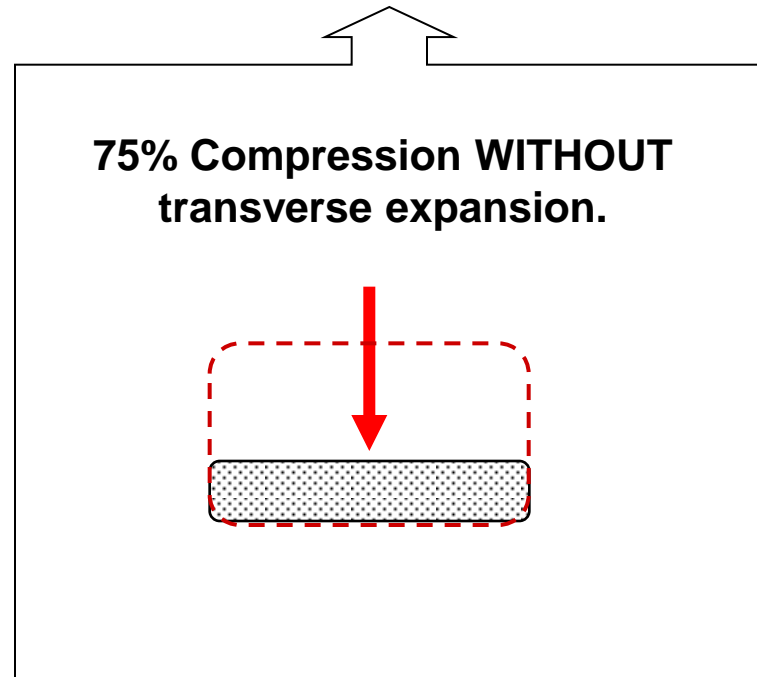
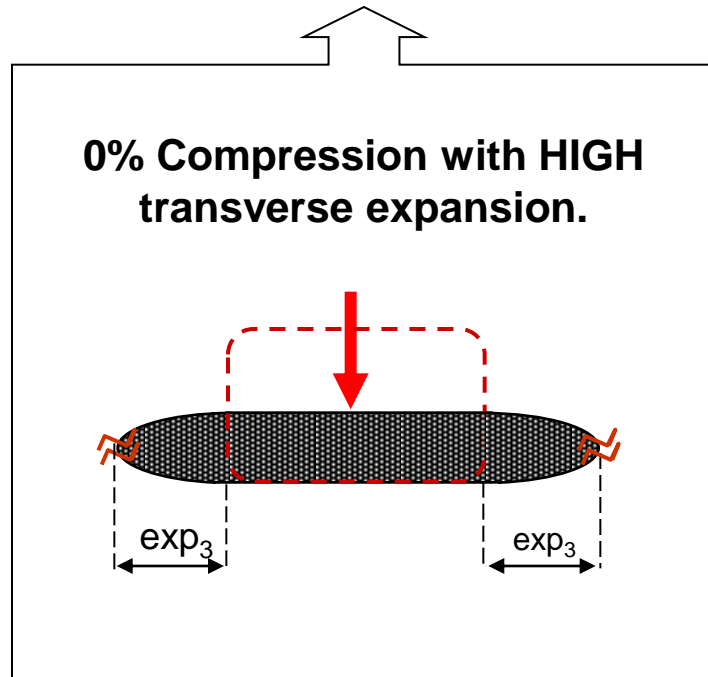
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ElastoMet:

COMPRESSION EFFECT

Rubber

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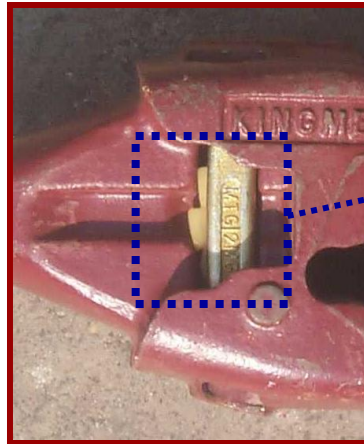


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Pin Assembly- Disassembly



Disassembly



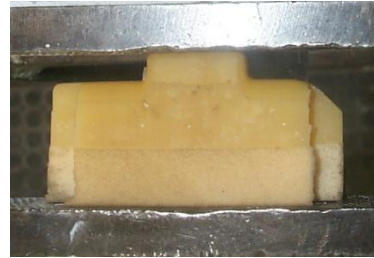
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Maximum Compression Test



!!Strain
capacity!!



!!Recovers its
initial shape!!



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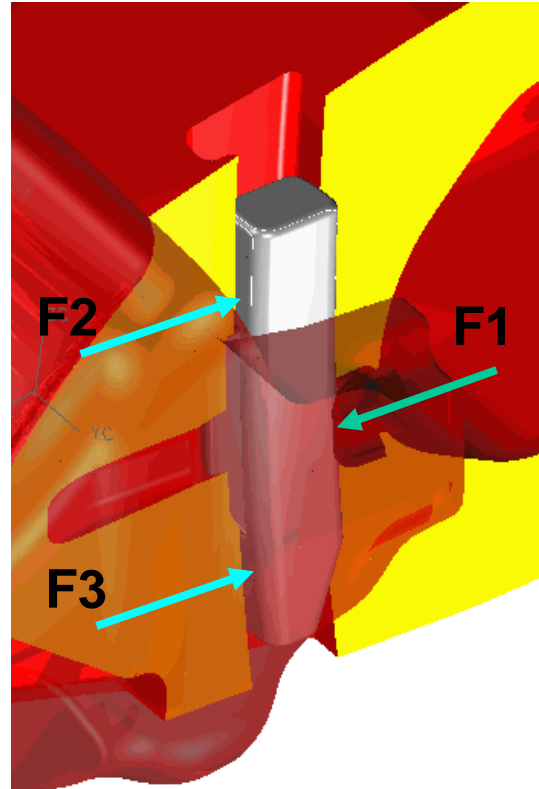
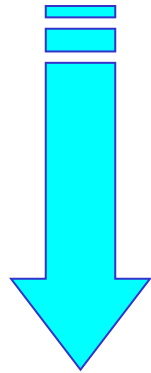
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Pin

In front of repetitive efforts the pin is in balance



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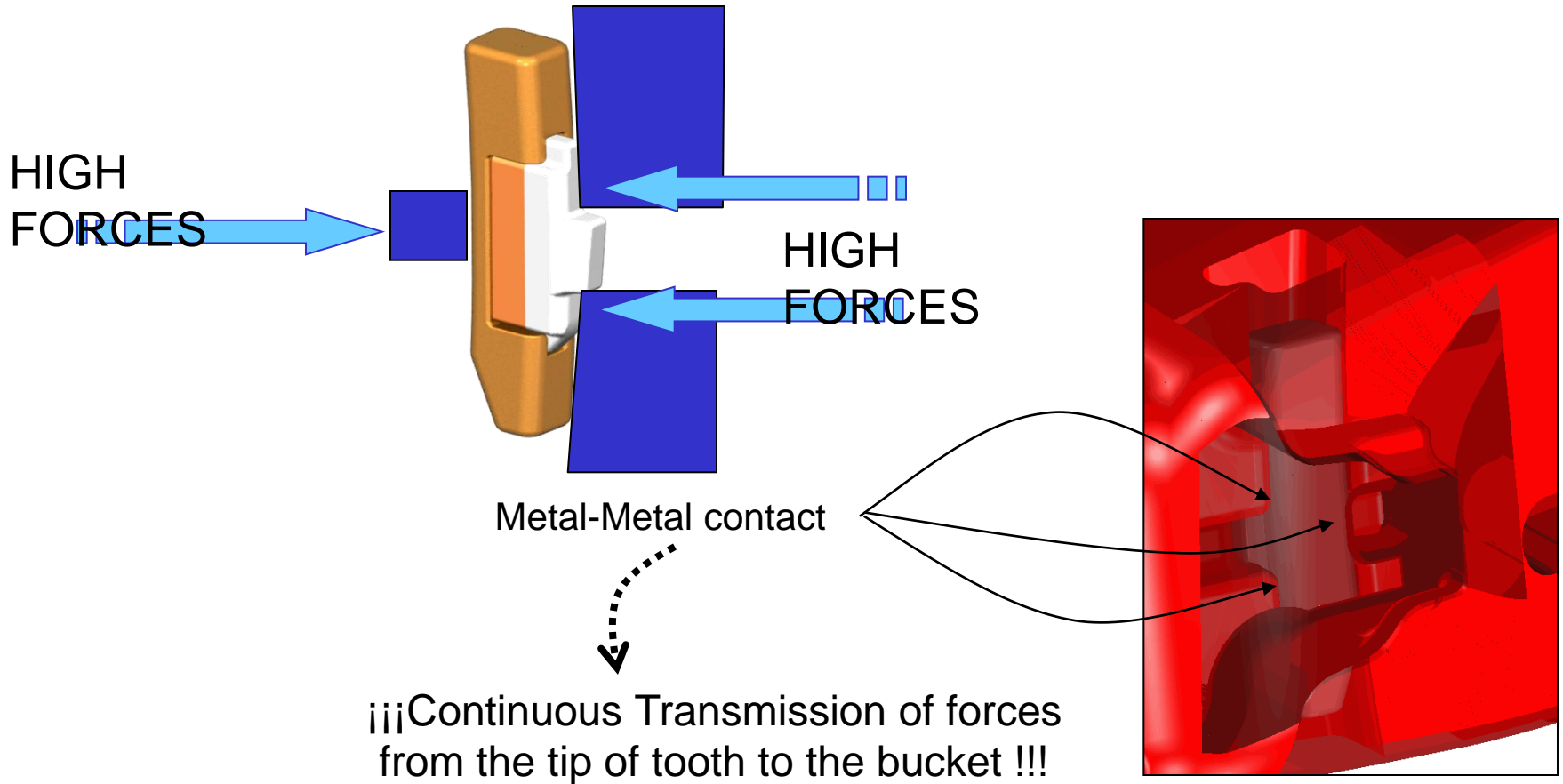
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METAL WITH METAL CONTACT



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