Bat Doctoring 101 – An Introduction
What is a Doctored Bat?

Any bat whose physical characteristics and/or properties have been intentionally altered or modified for the purpose of improving performance

How are Bats Doctored?

• Wall Thinning / Barrel Shaving
• Loading
• Accelerated Break In (ABI) Techniques
• Painting
Bat Doctoring Methods – Wall Thinning

- Performed on all bats
- Increased performance
- Decreased durability
Bat Doctoring Methods – Loading

• Techniques
  • End loading
  • Knob loading

• Performed on all bats

• Performance variations
  • Swing speed vs. endload

• Durability is unaffected
Bat Doctoring Methods – ABI Techniques

ABI Techniques are processes which do not change the physical characteristics of a bat (weight, inertia, wall thickness, etc). Instead, these processes change the physical properties (flex, barrel stiffness, etc) of the bats.

The most common ABI Techniques consist of applying heat and pressure to the barrel portion of a bat

ABI Techniques
  • Rolling (ACT, BCT, etc)
  • Vising
  • Hammering / Impacting foreign objects
Bat Doctoring Methods – ABI Techniques

- Performed on composite bats
- Increased performance – depends on severity of process
- Durability effects depend on severity of process
Bat Doctoring Methods – Painting

• Any bat can be painted
• Durability and quality of paint job depends on who did the work
Test Results – Shaved Bats

Performance Changes - Shaved Bats

<table>
<thead>
<tr>
<th>Bat</th>
<th>Pre Doctored</th>
<th>Post Doctored</th>
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<tbody>
<tr>
<td>A</td>
<td>92</td>
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<td>B</td>
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<td>J</td>
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</tbody>
</table>
Test Results – ABI Bats

Performance Changes - ABI Bats

- Rolled
  - BCT: K
  - ACT: L
- Viced
  - Rolled: M
  - BCT: N
- Post Doctored
  - BCT: O
  - ACT: P
  - Viced: Q
  - Pre Doctored: R

BBS (mph)

92
Test Results – Weighted Bats

- Bats’ endload increased by 20%

Performance Changes - Weighted Bats

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<thead>
<tr>
<th></th>
<th>Stock</th>
<th>Endloaded</th>
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<tbody>
<tr>
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BBS (mph)

84
Performance Trends

• Aluminum Bats
  – Performance vs Durability

• Composite Bats
  – Performance vs Durability
What to look for – Shaved / Loaded bats

• Tooling marks (from lathe jaws)
• Screwdriver marks around endcap
• Poor endcap fit
• Excessive adhesive around endcap
• Hole in knob
What to look for – ABI Bats

- Surface cracks
- Vise marks

Surface cracks visible on these bats
What to look for – Painted Bats

- ASA Ring Gauge
- Serial number – decal vs printed
- Paint line near endcap
- Paint on the endcap
Questions / Comments