

# Thermal Barrier Machinery

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## LANCER™ SERIES 70 MECHANICAL LOCK PRODUCT INFORMATION

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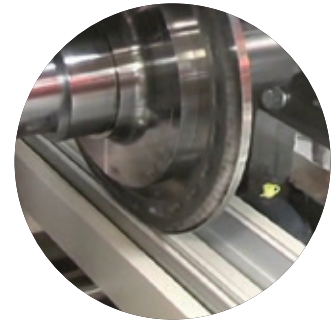
### Mechanical Surface Conditioning



## CORE FEATURES

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The Azon Lancer™ works inline with Azon Pour and Debridge machinery to mechanically resurface the extrusion cavity before it is filled with polyurethane polymer. The Lancer punches curved indentations along the lugs of the aluminum, creating more surface area in the thermal barrier cavity, improving the adherence of the polymer, and creating a mechanical lock. The Lancer improves thermal performance, protects against polymer dry shrinkage and fracturing, and increases the shear strength of the aluminum composite.



- **Two Semi-Independent Lancing and Support Wheels**
- **Dual Cavity Extrusions Lancing at Different Spacings with No Tooling Changes**
- **Support for Complexly Shaped Extrusions and a Wide Array of Cavity Sizes**
- **True “Recipe Recall” for Automated Wheel Movements and Speeds**
- **Magnetostrictive Position Sensing**
- **Park Feature Which Allows Extrusions to Pass Through When Lancer is Not in Use**
- **Compatible with the Azon Fillameter™ or stand-alone**
- **100% Electric Drive Motor**
- **Modular Electrical System**
- **Automated Hold-Up/Hold-Down Wheels**
- **Left or Right-Side Operation**
- **Safety Doors with Automatic Locking Latches**

## MACHINE SPECS

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### Machine Dimensions:

Width 132.08 cm, Length 425.88 cm, Height 182.88 cm

### Work Envelope Dimensions:

Width 400 mm, Height 250 mm

### Throughput Capacity:

9.1 - 54.9 Meters (30 - 180 Feet) Per Minute

### Electrical:

480 Volt, 3 Phase, X Amps, FLA (Full-Load Amperage)

\*All electrical components are mounted inside NEMA 12 enclosures



## CONSTRUCTION AND COMPONENTS

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- The Lancer is constructed from one piece of 5 cm 4140 pre-hardened steel
- Pre-hardened 7.6 cm 4140 shafts support lancing and support wheels
- Oversized 3 HP direct mount gear motor
- Wide, self-lubricating hub bushings are constructed from tribological materials
- Composite keys designed to shear before damaging core components
- Frame features lifting tubes for easy forklift transport

## WARRANTY

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Azon offers Approved Azo-Brader™ and Lancer™ Applicators a 10-year warranty program, which protects against failure of the thermal barrier polymer due to dry shrinkage and fracturing. To qualify for the program, Azon customers must use Azon polyurethane polymers in the Azon machinery and adhere to strict quality control procedures and testing. In addition to the warranty, Azon provides program participants with quality assurance practices, design service analysis, certified training of mechanical lock machine operations, and marketing support.

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