



# Uniblade

## Woven carbon fiber single wiper system for corrugated post print

### Key benefits achieved by existing customers include:

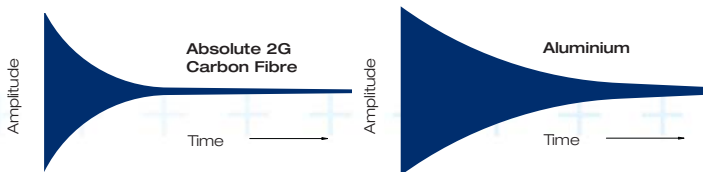


#### Anti-corrosion guarantee

Uniblade is manufactured from high grade woven carbon fiber combined with stainless steel components. This guarantees resistance to high or low pH solutions, allowing Absolute to offer a unique 15 year guarantee against corrosion.

#### Rapid blade change

Boasting a blade change time of less than 3 minutes on a 2,400mm (94") unit, Uniblade can massively reduce downtime on each unit. The proven carbon fiber clamp system also allows the operator to ensure that the surface of the blade clamp is perfectly clean, allowing true blade flatness against the clamp surface, giving consistent doctoring.



Graphs showing the superior ability of Absolute Carbon Fibre to absorb shock over traditional aluminium

#### Unique vibration damping construction

Flexo has often suffered with vibration issues, due to the plate layout or weakness in the design of the unit. Uniblade is specifically designed with a carbon fiber construction which absorbs vibration, allowing the unit to run faster without bounce or chatter, producing consistent print at higher speeds.

#### Ink repelling resin

Uniblade is produced with a resin surface that simply repels ink, allowing rapid and easy cleaning of the unit. The resin has such an impact that Absolute can demonstrate improved wash cycles without upgrading the existing washup system.

#### Woven carbon fiber

Uniblade is unique in that its skin is made from woven carbon fiber and not UD (unidirectional) fibers. The woven structure ensures stability and rigidity at widths and speeds where conventional UD would twist and deflect. Conventional UD also splinters very easily, as the fibers all lie in the same direction, not unlike a fine grain wood. The unique woven structure of Absolute's mouldings completely eradicates these issues.

#### Superior strength to weight ratio

Uniblade is manufactured from high strength woven carbon fiber, which is 300% stiffer than aluminium, this removes any risk of deflection in the chamber.

#### Non-twist or warp

Nylon, UHMW or any other plastic moulded product ages over time, and is susceptible to variations or extremes of temperature, inducing bowing, twist and warp in the structure. Aluminium extrusions also experience warp, as it is impossible to stress relieve them after the final machining process. This stress eventually shows itself as twist, and makes it impossible to produce an even wipe across the anilox, massively increasing rejected product, and creating huge production delays. By comparison woven carbon fiber is unaffected by variations or extremes in temperature. This ensures that the unit will provide consistent doctoring regardless of the harsh environment in which the unit operates.

Absolute carbon fiber doctoring systems are designed and specified by the team that produced the world's first carbon fiber chamber in 1990.

In the past 18 years we have produced thousands of carbon fiber doctoring systems to improve the performance of virtually every type of flexopress manufactured. We provide systems for corrugated printers, tissue decorators, label machines, litho tower coaters, newspapers, coating units, envelope printers.

We have installations on every continent, and most countries, along with a team of engineers who constantly travel the world to install and commission our equipment. They then train the operators in the best methods of optimizing the equipment's performance immediately.

Our technical team utilize a base of knowledge that encompasses aerospace, Formula 1 and supercar production, high specification sailing yachts and defence products.

The same technology and standards are incorporated into our inking systems ensuring absolute consistency and performance.

In essence, we have an unsurpassed breadth of knowledge, technology and experience to optimize the doctoring performance of any flexo unit.....including YOURS!

“Our technical team utilize a base of knowledge that encompasses aerospace, Formula 1 and supercar production...”



**“...the install took just 2 hours - the operators really like the simple operation and the quick cleanup.”**

**Absolute also produce other equipment that improves print performance...**

**I-Max**

A revolutionary new woven carbon fiber chambered doctor blade system from Absolute.

It is the first chamber in the World to deliver:

- 80% savings on colour change ink waste
- 80% savings on downstream wash-up costs
- Dramatically reduced production downtime
- Reduced in-plant maintenance costs
- Improved colour consistency
- Reduced environmental costs
- Total payback within months, not years



**2G**

Absolute 2G is the most successful chamber system available.

Our systems vary considerably in width and application. Our narrowest units are 100mm (4") wide, whilst our widest systems in operation are in excess of 5000mm (200"). We have systems on specialist coating applications that run at 20mpm (60fpm), whilst our fastest systems run at over 1000mpm (3000fpm).

We provide systems that run with water based ink, solvent inks, UV inks and coatings, dye based inks in addition to a huge variety of coatings, glues and adhesives.

