

Options for

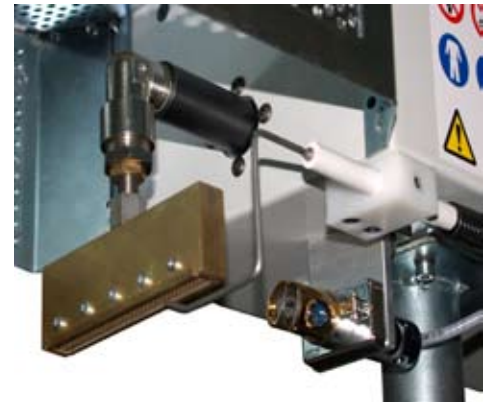
Pre-Treatment

Many print surfaces benefit from pre-treatment to enable proper ink adhesion. Several pre-treatment options are available.

Stand-alone or Conveyor Flamers

Stand-alone Unit

- ▶ Fully adjustable to accommodate small to medium sized parts
- ▶ Flamer nozzle stroke is 14"
- ▶ Adjustable fuel/air mix
- ▶ Can be adapted for in-line process
- ▶ Multiple burner sizes
- ▶ Can be programmed within print cycle



▲ Flamer can be mounted on the printer or stand-alone

Conveyor Unit

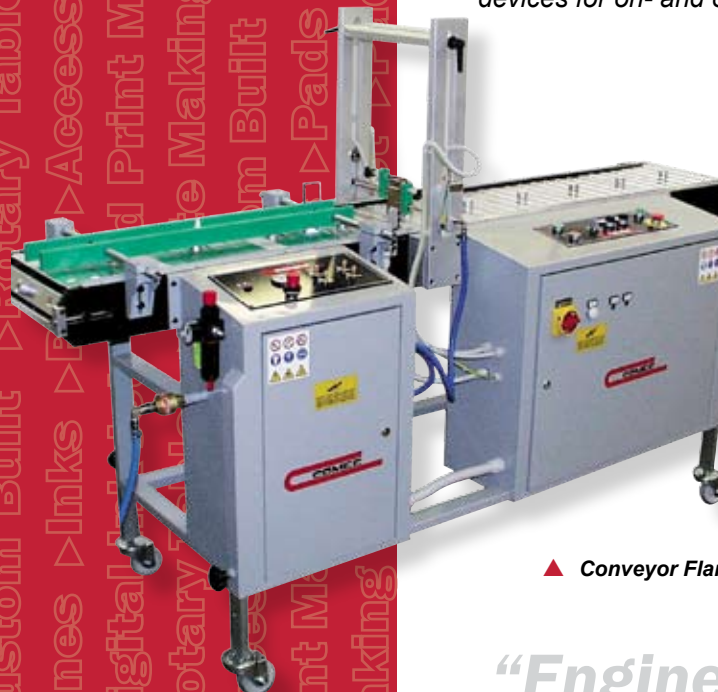
- ▶ Designed for medium to larger parts
- ▶ Adjustable guides
- ▶ Adjustable flame control
- ▶ Can be configured with a 360° rotational device
- ▶ Easily adapted to an existing automated system
- ▶ Can incorporate Pick-n-Place devices for on- and off-loading



▲ Custom 360° flamer for safety helmets.



▲ Stand-alone Flame Unit



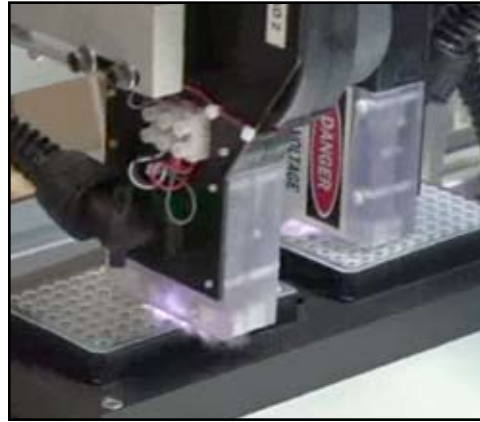
▲ Conveyor Flame Unit

“Engineered Printing Solutions”

Pre-Treatment Options

Corona Unit

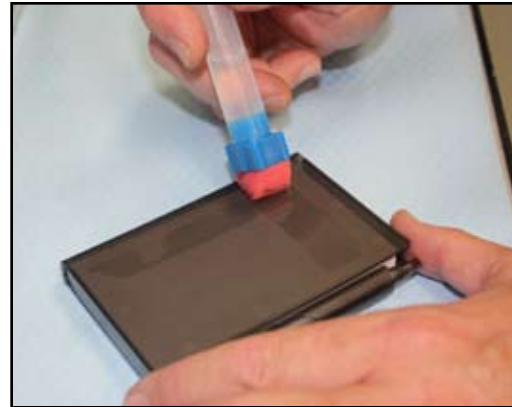
Corona treatment involves high speed oxidation. The energy of the corona breaks the molecular bonds on the surface of the non-polar substrate. The broken bonds then recombine with the free radicals in the corona environment to form additional polar groups on the surface.



◀ *In-line corona unit passes over products, fixtures are mounted on a rotary table.*

Primer Wipe - PW3

This primer wipe can be applied directly to difficult-to-print surfaces prior to printing to promote better ink adhesion. Typically applied via a cloth or sponge applicator, **PW3** is often used as an alternative to flaming or corona/plasma pre-treatments. Dries quickly after contact.



◀ *Applying primer wipe -PW3*

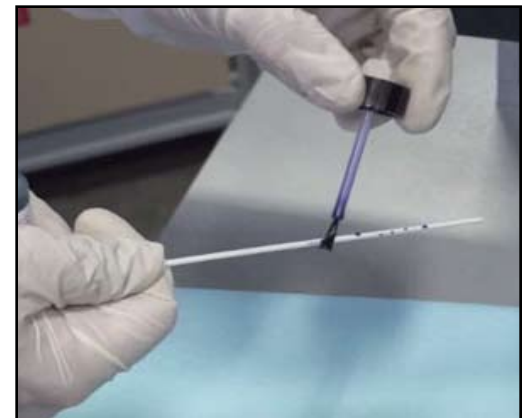
Product Testing

Not sure if pre-treatment is beneficial?
Unsure which method is best for your specific application?

Consult our Technical Services team, we can conduct a surface energy measurement and pre-treatment testing to determine your best options.



◀ *Ink passing tape test for adhesion quality*



▶ *The scientific test to check the different types of plastic surfaces is conducted using a dyne kit.*



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