

## *Ultrasonics at Work in the Printing Industry*

From newspaper publishers to specialty houses, press room to maintenance shop, the need for an efficient, economical and environmentally safe parts cleaning process continues to grow. In particular, ultrasonic cleaning has proven to be a reliable solution to a wide variety of parts cleaning chores that were once performed with solvents. By putting ultrasonics to work, printers and related industries can achieve

- Lower operating costs
  - Elimination of manual cleaning operations
    - Solvent - free user safety
    - Minimized regulatory concerns
    - Reduced waste disposal

Blackstone~NEY Ultrasonics brings its fifty years' experience in the design and manufacture of high performance ultrasonic cleaning equipment to the print industry with a versatile line of products for a variety of parts.

- *A major New York newspaper uses the GMC-3523 for normal maintenance of a Goss Newsliner. Components, including electrical relays and wiring harnesses, are routinely cleaned to remove inks, oils and other contaminants.*
- *A publisher in the Southwest has placed three of these machines in his facility: One to serve the pressroom, one in the maintenance and tool shop, and one in the fleet service bay. Parts are immersed using premium-construction baskets in sizes to suit particular parts.*
- *An international supplier of business forms relies on the DT-10 to clean anilox rolls. The space-saving cleaning system can be conveniently located in-line with presses for ease of use and reduced downtime. The DT-Series features both washing and rinsing functionality, using drive motors to rotate the rolls for thorough, hands-free cleaning.*



40 Gallon  
GMC-3523



DT-10

These are just a few examples of the many cleaning tasks that can be successfully performed with ultrasonics. From critical press components to shop tools, aqueous ultrasonic cleaning can protect your capital investments by achieving superior levels of cleanliness, while minimizing the time, labor and hazards associated with solvents.



## Typical Cleaning Applications

Component	Contaminant	Approximate Part Sizes	Approximate Cleaning Time	Recommended Equipment
Ink pumps	Soy/Solvent Based inks	8" dia.	20 min.	GMC-3523/GMC-1818
Ink injectors	Soy/Solvent Based inks	1" x 2" 3	30 min.	GMC-3523/GMC-1818
Ink hoses	Soy/Solvent Based inks	2' x 1/2"	45 min.	GMC-3523/GMC-1818
Film developer roller racks	Soy/Solvent Based inks	2' x 2' x 4"	45 min.	GMC-3523/GMC-1818
Hayward Ink strainer baskets	Soy/Solvent Based inks	1" x 4" dia.	10 min.	GMC-3523/GMC-1818
Ink strainer metal mesh filters	Soy/Solvent Based inks	3" x 2 " dia.	10 min.	GMC-3523/GMC-1818
Page packs	Soy/Solvent Based inks	2' x 2' x 4"	45 min.	GMC- or GMP-Series
Insertor pockets	Soy/Solvent Based inks	8" x 12" x 6"	5 min.	GMC-3523/GMC-1818
Insertor grippers	Soy/Solvent Based inks	6" x 12"	5 min.	GMC-3523/GMC-1818
Ink screens	Soy/Solvent Based inks	1" x 4"	5 min.	GMC-3523/GMC-1818
Ink Cans	Soy/Solvent Based inks	3' x 8" dia.	5 min.	GMC-3523/GMC-1818
S/S Shield	Soy/Solvent Based inks	4' x 3' x 1/4"	1 min.	GMP-Plus Series
Press line shaft clutches	Oils & Grease	2" dia. X 3"	5 min.	GMC-3523/GMC-1818
Press line gears	Oils & Grease	6" dia. X 1"	5 min.	GMC-3523/GMC-1818
Bearings	Oils & Grease	5" dia.	5 min.	GMC-3523/GMC-1818
Hydraulic filters	Hydraulic oils	3" x 2 " dia.	3 min.	GMC-3523/GMC-1818
Anilox rolls	Soy/Solvent Based inks	Variable	30 min.	DT-Series

Consult Blackstone~NEY Ultrasonics or your Sales Representative for the correct equipment and chemistry selection to suit your cleaning needs.

### Ultrasonic Cleaning At a Glance

A solid state electronic generator converts standard electrical current into electrical energy of a higher frequency. A transducer then converts this energy into mechanical waves. These transducers are either bonded to the exterior wall of the tank or are enclosed in a stainless steel immersible housing which is mounted inside the tank. The sound waves produced by these transducers cause disruption of the liquid as alternate positive and negative pressure areas are produced. Vacuum



Ultrasonic generator

cavities, or cavitation bubbles, are created during negative pressure periods, grow larger over several cycles and then collapse. The pressure exerted by the imploding bubbles accomplishes a scrubbing action which results in rapid, efficient and gentle cleaning. The small size of the bubbles permits their penetration into areas such as blind holes or crevices that cannot be

reached using brushes or sprays.

Ultrasonic cleaning achieves

- Improved Quality
  - Consistency
  - Cleaner parts
- Increased Productivity
  - Faster throughput
  - Reduced labor
- Environmentally Clean
  - Safer chemicals
  - Lower concentrations
  - Less waste water treatment
- Lowest Total Cost



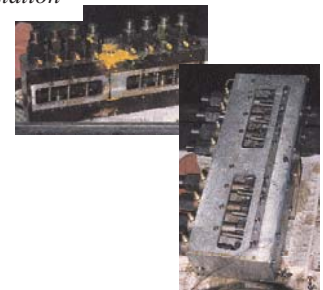
Ultrasonic transducers



Large Capacity Plus Series with agitation



25 Gallon GMC-1818



# BLACKSTONE~NEY ULTRASONICS

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