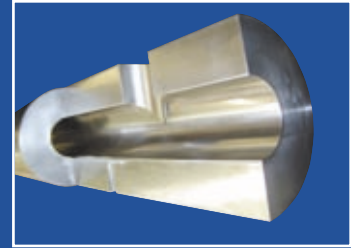
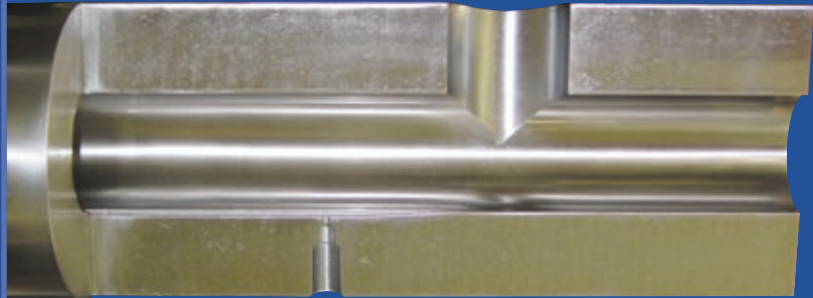


LAS™ 3000 and LAS™ 4000



The Advantages of Liquid Additives

Additives, modifiers and coloring for plastic materials have been done for years with various methods. These compound components have been available in either raw form or compounded with master batch type materials. Liquid color and other liquid modifiers are becoming the additive method of choice. The liquid systems offer lower cost, easier handling and higher loading capability than other systems available today.



Benefits of Liquid Additives:

- Less down time
- Faster changeover time
- Reduced waste, labor and rejects
- Can be supplied rapidly in any quantity
- Compatible with most resin systems
- Requires minimal storage
- Easily match new colors
- Improved machine-to-machine and lot-to-lot consistency
- Never needs drying
- Utilizes simple metering device

Xaloy, a leader in melt stream technology, now offers this patented design as an option on all barrels it manufactures offering the user additional benefits. Unlike master batch or pre-compounds which are affected by both pigment and resin costs, liquid systems provide a more stable pricing structure because of the level price of the liquid carrier material.

The LAS™ 3000 and LAS™ 4000 from Xaloy. Another processing advantage from Xaloy for introducing liquid additives provides multiple benefits. The patented design of the grooved barrel, available for both reciprocating screw machines and continuous rotating screw machines, minimizes screw slippage. This patented concept also allows the liquid additive to be introduced into the barrel, downstream from the feed throat opening and in the delay zone for the screw's feed section, positioning it into the pellet stream just prior to the melt. In doing so, slippage in the feed of the screw is minimized, injection molding recovery times and pellet feed rates in extrusion are improved. Entering the barrel down stream from the feed throat also provides the capability for higher loadings of liquid additives.

Turnkey Systems for Process Optimization. Along with the patented barrel design, Xaloy offers a complete turnkey package for using liquid additives. These components optimize the process and include: the complete melt system and the delivery pump. Xaloy's comprehensive line of melt stream components is made to OEM original specifications with improved wear and corrosion resistance. You can select from a broad range of materials of construction and top that with low cost and fast delivery, for true savings.

Screws. Xaloy selects the screw design to optimize additive dispersion and melt quality while maintaining or increasing process throughput. Screws based on our patented Xaloy technology using the Multimelt™, Efficient™, or Fusion™ plasticizing screw designs offer higher throughput rates. Higher loadings and better dispersion of additives can be achieved both in the injection and extrusion processes.

Front End Components. Whether it's non return valves, barrel end caps or other down stream components for extrusion such as static mixers, screen changers or melt pumps, Xaloy can supply the required system from its standard product offerings.

Color Delivery Methods. A precision metering pump is used to deliver the highly loaded liquid additives to the High Pressure Booster Pump which injects the additive directly into the melt stream of injection or extrusion machines. Multiple options are available to meet system requirements.

To take advantage of Xaloy Technology offering the highest productivity and finished product quality, call your local representative or contact us directly.

XALOY

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www.xaloy.com

EXTRUSION
1291 19th Street Lane NW
Hickory, NC 28601
Tel: 828-326-9888
Toll-free: 800-457-7550
Fax: 828-326-8882

INJECTION
102 Xaloy Way
Pulaski, VA 24301
Tel: 540-980-7560
Toll-free: 800-816-7711
Fax: 540-980-5670

EUROPE
Xaloy GMBH
Wannenäckerstrasse 24
74078 Heilbronn
Germany
Tel: 49-7131-20360-0
Fax: 49-7131-20360-29

ASIA
Xaloy (Asia) Thailand, Ltd.
700/446 Moo7 Amatanakorn Ind. Estate
T.Don Hua Roh, A.Muang, Chonburi
Chonburi 20000
Tel: +66 (38) 717 084
Fax: +66 (38) 454 377

JAPAN
Xaloy Japan Ltd.
74-1 Yamashita-cho, Naka-Ku
Yokohama, 231-0023
Tel: +81-45-661-3508
Fax: +81-45-661-3507

LAS™ 3000 and LAS™ 4000



Multiple liquid additive methods can be used with the High Pressure Booster pump supplied with each Xaloy system.

1. The user can use existing metering equipment.
2. New volumetric metering pumping systems can be supplied as part of a complete system package.
3. New gravimetric metering equipment can be purchased and added to the system.

The ability to work with various liquid additive suppliers and metering equipment makes this a flexible cost effective technology from Xaloy, the leading melt system supplier.

HIGH PRESSURE BOOSTER

For metering liquid color directly into the barrel of a processing machine the Xaloy High Pressure Booster (HPB) is required. The HPB can take any metered input, and boost it to 1500 PSI for delivery into the barrel of an extruder, injection molding machine or blow molding machine.

The HPB is very simple. It requires 80 psi of compressed air to operate and a 110 volt control box to operate the booster.

A separate metering device delivers the additive either by volume or weight measurement to the HPB (High Pressure Booster). The HPB introduces the color in pulses, each a fraction of a second long. The volume of each pulse is entirely dependent on the metering device that is supplying the booster.

The 110-volt control box is simple. It has an on/off switch and an outlet receptacle to supply power on to the metering pump. If the booster is turned off the metering pump will also be turned off.

Our worldwide presence includes sales and service offices located in the United States, Europe, Thailand, Japan, China and India and a global network of agents geographically positioned to serve customers throughout the world.

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Chonburi 20000
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Fax: +66 (38) 454 377

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