

# DD SERIES DIGITAL DOSING SYSTEM



## DD SERIES DIGITAL DOSING SYSTEM

The DD Digital Dosing System offers precise feeding for almost any plastics machine, whether your application is injection molding, blow molding, or extrusion. The DD 2 dosing unit offers the ability to use dual additives at different rates. The DD dosing unit uses a variable speed DC drive motor and a correctly sized dosing disc to precisely feed powder or pellet additives, at the set rate, into the throat of the processing machine. Precision design and closed loop control ensures high accuracy to setpoint.

Material changeover has never been easier. Just lift two quick disconnects and remove the additive station. With the optional spare station, changeover is immediate. The simple changeover design reduces downtime and safety risk. The controller is designed for either injection molding applications or extrusion applications. Both controllers are microprocessor-based, and the feeder's motor speed is monitored continuously to compensate for fluctuations in the screw speed of the processing machine. The controllers are easy to operate, with user-friendly icons and storage of up to 10 recipes. Additive consumption is conveniently displayed on the 5 digit LED display.

## STANDARD FEATURES

- Disc style feeder module to dose pellets, microbatch, granulate or powders (specify disc size)
- 0-12 RPM variable speed, closed loop drive
- Choice of several styles and sizes of discs for precise additive feeding
- Clear plastic additive hopper with fill cover
- Quick disconnect additive hopper for "off the machine" clean-out/material change
- 2" (51mm) diameter material feed tube with 6" (152mm) square mounting flanges (top and bottom)

## OPTIONS

- Disc style feeder module to dose pellets, microbatch, granulate or powders (please specify)
- Spare station for immediate changeover for pellets or powders
- Optional motor speeds
- Optional hopper capacities
- Audible alarm
- Alarm light
- Low level sensors
- Hopper loaders for automatic refill
- Special voltage
- Intermediate hoppers for main component side
- Larger base piece for larger processing machines (3" or 4" (76mm or 102mm))

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**W S**  
ACS GROUP • WALTON/STOUT

ACS Group • Walton/Stout  
2900 S. 160th Street  
New Berlin, WI 53151

Phone: 262-641-8600  
Fax: 262-641-8653  
Email: [waltonstout@waltonstout.com](mailto:waltonstout@waltonstout.com)

[www.waltonstout.com](http://www.waltonstout.com)

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## CONTROL FEATURES

Available for either extrusion or injection molding machines, the controller automatically calculates calibration values and allows for direct input of desired percentages. The controller features user-friendly icons and a 5 digit LED display that shows additive consumption. It stores up to 10 recipes, with memory backup for recipe and data storage.

- Dry contact signal input and dry contact alarm output
- Input for level probe for both raw material and additives
- IP64 shielding
- Short circuit proof outputs
- Operates between 32 to 122°F (0 to 50°C)
- Operating voltage 115 VAC +/-10%, 50/60 Hz
- Connected load of 100 W maximum during operation
- Thermal device protection



DD 1  
Feed Rate: 0.2-800 lbs/hr  
Operating Load: 0.2 kW  
Weight: 51lbs (23kg)



DD 2  
Feed Rate: 0.2-800 lbs/hr  
Operating Load: 0.4 kW  
Weight: 100lbs (45kg)



A properly sized dosing disc provides high performance at feed rates below 50 g/hr (0.1 lbs./hr)

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Phone: 262-641-8600  
Fax: 262-641-8653  
Email: [waltonstout@waltonstout.com](mailto:waltonstout@waltonstout.com)

[www.waltonstout.com](http://www.waltonstout.com)