

**CYCLOJET<sup>1</sup>**

**ORBITAL JET WASHER**



**A SOLVENT FREE WORLD.**





# PRECISION AQUEOUS CLEANING OF SMALL, COMPLEX PARTS.

*Orbiting,  
Tumbling Motion. Spray-Immersion-  
Agitation. Wash-Rinse-Dry.*

THE **CYCLOJET<sup>1</sup>**

**T**oday, there are over 10,000 Better Engineering aqueous cleaning systems-like the Cyclojet-in service throughout the world. Established in 1960, Better Engineering pioneered the field of aqueous cleaning and continues to set the standard for precision cleaning machinery.

## OUR CUSTOMERS INCLUDE

- G.E. Aircraft
- General Motors
- Martin Marietta
- Japan Airlines
- Bendix
- Westinghouse
- Ford
- Caterpillar

## CLEANING WITH WATER

The Cyclojet, like all Better Engineering jet washers, automatically cleans parts with biodegradable detergent and water. A combination of mechanical force (spray and agitation), heat (130°-180° F), and the chemical action of the detergent strips away oils, chips, etc....in 1-15 minutes. The wash solution is continuously filtered and recycled.

In most cases, the Cyclojet will out perform solvent systems.

## ONE CHAMBER/ FIVE STAGES

Knowing that time, space, and money are precious commodities, B.E. designs machinery that can perform multiple tasks in a single chamber. The Cyclojet, using just 3 ft x 3 ft of floor space, does more work than systems that are 20 feet long.

Simply slide the two (2) covered baskets into the rotation fixture, engage the single action latch, and start the cycle. The Cyclojet automatically progresses thru as many as five (5) stages producing clean, dry parts.

## FIVE STAGE CLEANING CYCLE



15 MINUTE AVERAGE CYCLE TIME

## THE CYCLOJET

### STAGE 1-3

Some machines spray while others immerse. The Cyclojet does both as the small parts gently tumble. The 3rd stage spray wash removes floating contaminants that are the curse of simple immersion systems.

### STAGE 4

Fresh water is pulsed onto the parts to remove detergent residue. The rinse water drains into the wash tank,

compensating for evaporation. A water level sensor prevents unintentional tank overflow by stopping the incoming flow.

### STAGE 5

While the tumbling action sheds most of the water, there may still be a thin film of water left on the parts. During the final drying stage, the parts are blasted with approximately 40 CFM (at 40 PSI) of compressed air (customer supplied) to shear off the remaining moisture.

LOADING THE BASKETS INTO THE ROTATIONAL FIXTURE IS FAST (5 SEC.) AND EASY (40" LOADING HEIGHT).



THE LOCKED AND LOADED ROTATIONAL FIXTURE SHOWN IN SUSPENSION.



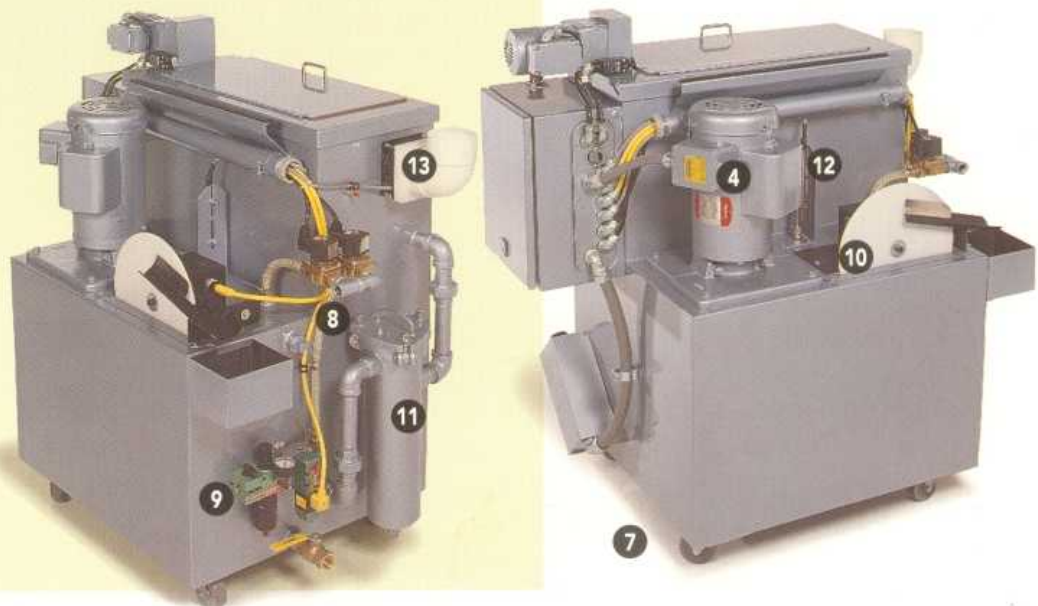
THE BASKETS CAN BE CUSTOMIZED FOR A GIVEN APPLICATION.

## FEATURES

- Two 350 cubic inch baskets (0.1" x 0.1") holes.
- Baskets can be customized for part size, degree of tumbling, and weight capacity.
- Takes five seconds to load and latch the baskets.
- Vertical (seal-less) pump.
- Emergency stop and jog controls.
- External timers for wash, rinse, and dry....adjustable thermostat for the water heaters.
- Portable/mounted on casters.
- OSW-11 oil skimmer with catch tray.
- ILF-22-20 micron bag filter.
- LWS-11 low water level protection.
- ASX-33 steam exhaust system.
- ATC-24-2 auto timer for heat and oil skimmer.
- 220 Volt/1 phase, 440 Volt/3 phase.

## OPTIONS

- ARC-33 automatic, fresh water rinsing system.
- CAD-33 automatic, compressed air drying system.



## SPECIFICATIONS

WORKING CAPACITY	Two (2) baskets, each 7 <sup>1</sup> / <sub>8</sub> "w x 8 <sup>1</sup> / <sub>4</sub> "L x 4 <sup>7</sup> / <sub>8</sub> "d, 50 lb. capacity/each.
ROTATION SPEED	5 RPM's. Adjustable with a sprocket change.
TANK SIZE/HEAT	55 gallons, 9.0 kW (electric).
WASH PUMP	Vertical (seal-less) style, 2.0 HP, 35 GPM at 45 PSI.
ELECTRICAL POWER	220 Volts/3 Phase/32 amps.
OVERALL DIMENSIONS	44" w x 26" d x 46" h with all options.

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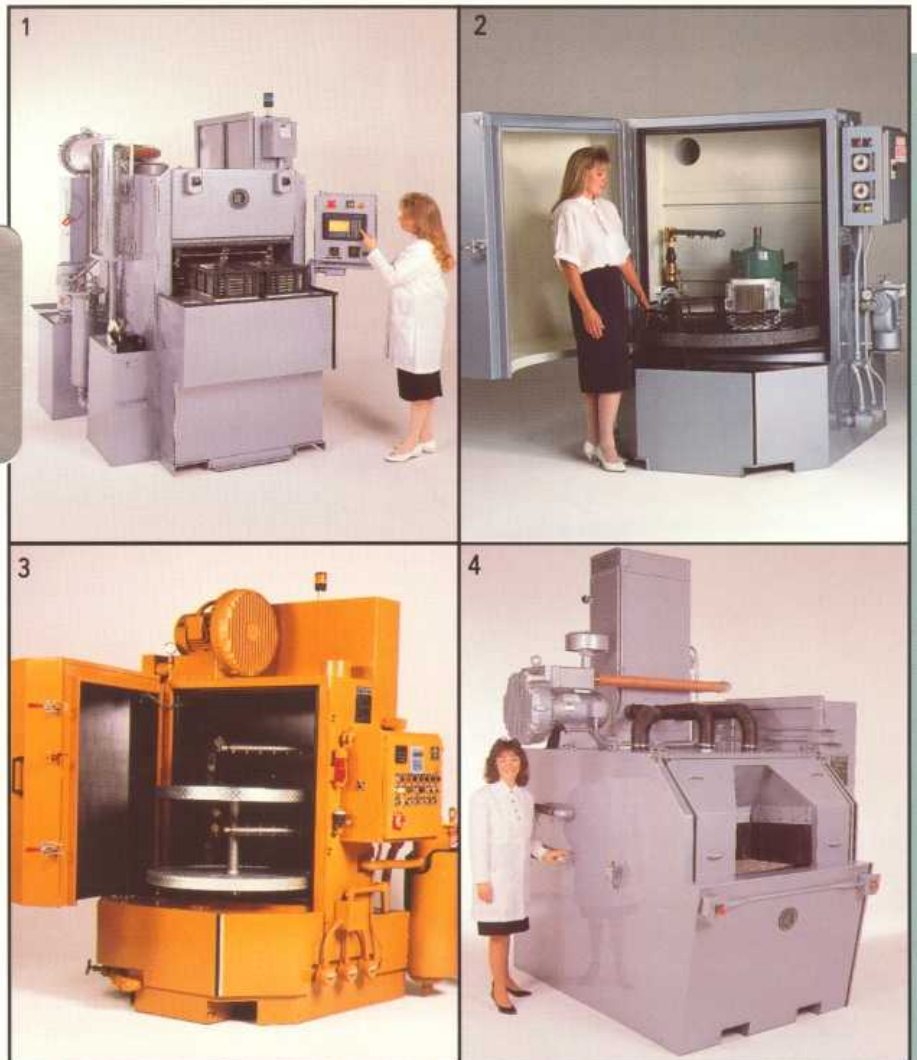
## OVER 10,000 SYSTEMS IN SERVICE

Better Engineering has an extensive line of water-based parts washing machinery. Examples of these systems are:

- 1 The Cyclojet 3 is the big brother of the Cyclojet 1. This stainless steel Jet Washer has four (4) slide-out baskets, two (2) tanks for high volume rinsing, and a hot air drying system.
- 2 The F-4000-P is one of fifteen (15) turntable Jet Washers offered by

Better Engineering. The turntable diameters vary from 27" to 72".

- 3 This F-4000-P-ZX has sequential wash/rinse/dry cycles and is built to G.M. specifications. Twelve (12) of these machines clean every fuel injector used in every G.M. car in the world.
- 4 The C-5000-P Carousel Jet Washer cleans, rinses, and dries parts in one revolution. These systems are ideal for "work cells", which don't have space for a linear conveyor system.



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