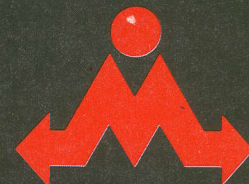


**AUTOMATIC**



## MICROSEPARATOR

### APPLICATIONS :

- Aluminum and Copper Wire Drawing
- Glass and Ceramic Grinding, Polishing and Lapping
- Water Wash Spray Paint Booths
- Waste Oil Treatment
- Grinding, Honing and Finishing of Metals
- Vibratory Deburring
- Waste Water Recycling
- Remediation of Heavy Oils and Water Soluble Coolants

### FEATURES :

- No Filters. No consumables
- Never Needs Hardsurfacing
- Automatic Discharge of Separated Solids into a 55 Gallon Drum
- Portable
- Very Low Maintenance
- Very Few Moving parts.

### BENEFITS :

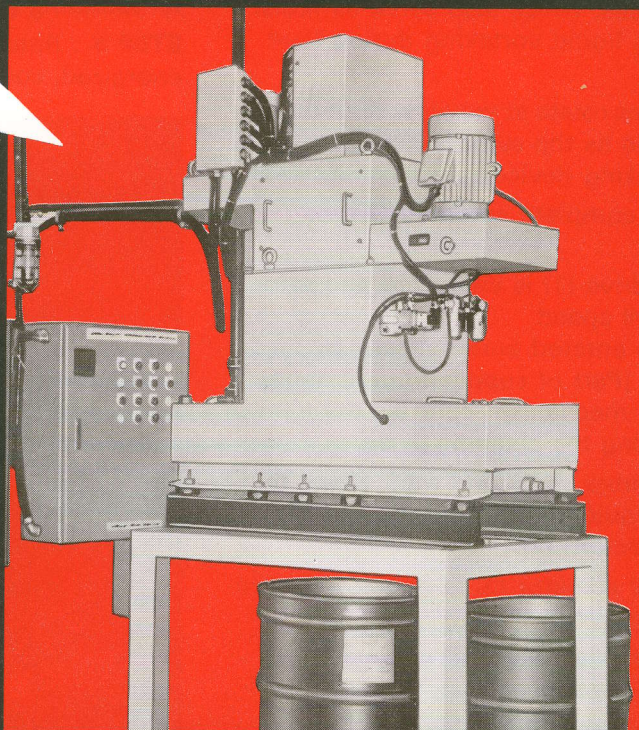
- Cut Disposal Costs Dramatically
- Reuse Liquids Indefinitely
- Helps in RCRA Compliance
- Eliminate Equipment Downtime
- Save Cleanout Costs
- Cost Justification in Months. Not Years.

### SAMPLE TESTING

FREE laboratory spin test. Send one quart sample for a no obligation evaluation and recommendation.

### ON SITE TESTING

Full size Automatic and Manual Microseparator units are available for testing under actual operation conditions at your plant.



MODEL TSK 100 A

**FOR THE FILTRATION OF  
ABRASIVE  
HARD  
PACKING  
OR STICKY  
SUBSTANCES**

MODEL TSK 100 A    MODEL TSK 150 A



## OPERATION

### KEY NOTES :

The entire rotor bottom is open for automatic expulsion of sludge deposits. Sludge is literally scraped from the rotor perimeter by two (2) heavy duty scraper blades, which also serve as radial vanes preventing liquid vortexing during feed cycle.

The scraper blades rotate at very low RPM during the cleaning cycle as the rotor is held in a fixed position by a locking device.

Following is the complete automatic event sequence :

**STEP 1 :** Rotor drive (1) is energized and rotor is accelerated to full speed.

**STEP 2 :** Feed is entered automatically by feed pump starter (2) (Part of supplied automation). Adjustable timer mechanism controls duration of feed cycle initiating the cleaning cycle.

**STEP 3 :** Rotor drive stops and rotor slows to complete stop. Liquid in rotor body flows onto side (6) and to drain return (7).

**STEP 4 :** Scraper actuator (3) is now lowered to engage Hex nut drive.

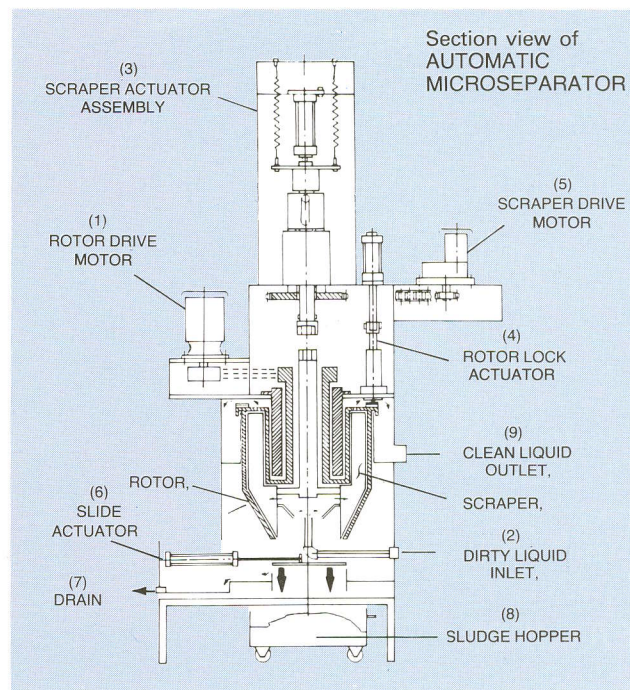
**STEP 5 :** Rotor lock actuator (4) is lowered to prevent rotation of rotor body.

**STEP 6 :** Slide actuator (6) is energized.

**STEP 7 :** Scraper drive motor (5) is energized. Sludge drops into 55 gallon drum (8).

**STEP 8 :** Air solenoid valves positioning scraper actuator, rotor lock and slide actuator are de-energized, returning the respective mechanism to operating position.

**STEP 9 :** Rotor drive motor and feed pump are energized, completing the cleaning cycle.



## TECHNICAL DATA

DESCRIPTION	TSK 100 A		TSK 150 A	
Nominal Capacity	20 GPM	90 LPM	40 GPM	175 LPM
Rotor Volume	3.75 Gal.	15 liters	5.5 Gal.	25 liters
Rotor Speed	2000 RPM		2000 RPM	
Power Required	3.0 HP	2.2 KW	5.0 HP	3.7 KW
DIMENSIONS				
Length	35 in.	900 mm	40 in.	1000 mm
Width	20 in.	500 mm	24 in.	600 mm
Height	67 in.	2200 mm	99 in.	2510 mm
Weight	1320 lb.	600 kg.	1760 lb.	800 kg.
Shipping Weight	1694 lb.	770 kg	2244 lb.	1020 kg.
Shipping Volume	124 cu.ft.	3.51 cu.m.	162 cu.ft.	4.60 cu.m.

### NEW MODELS

CF 65G	15 GPM
CF 105G	25 GPM
CF 125G	45 GPM
CF 155G	53 GPM
CF 175G	75 GPM



**MARS TECH**  
Equipment for Liquid-Solid Processing  
DIV. OF KENDALE AND CO., INC.

Microseparator® is a regd TM of Bazell Technologies Corporation

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