

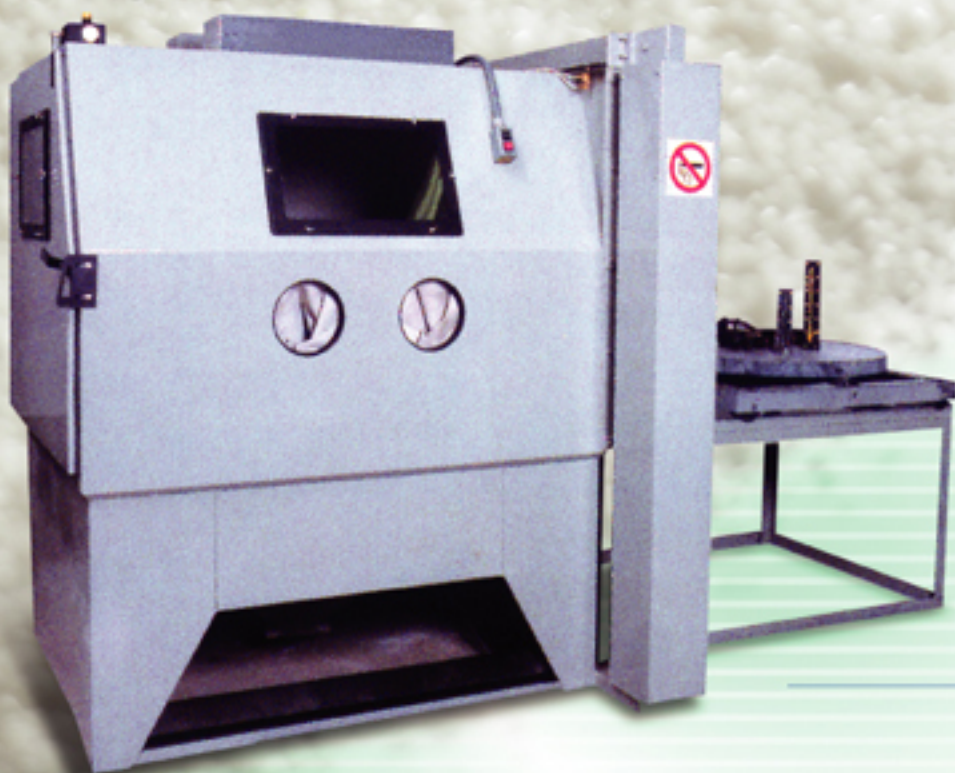
# ZIRCO-BLAST

Specialists in plastic abrasives

## PBCM

**ZIRCO-BLAST** Plastic Blast Cleaning Media (PBCM) is designed specifically for deflashing, coating removal, paint stripping, mold cleaning and surface preparation. Engineered for high performance, PBCM is clearly the leader when it comes to productivity and value.

All PBCM grades are non-toxic contains no chemicals and are 100% recyclable, making them the ideal choice for most applications. PBCM works on all substrates including fiberglass, aluminum, copper, brass, plastics, rubber, composites and steel due to its ease on the material's surface, with no heat buildup or distortion. PBCM works on most blast cleaning equipment while generating little dust and has extended product life compared to other types of media.





**ZIRCO-BLAST** plastic abrasives meet today's demand for deflashing, coating removal and mold cleaning. Engineered for high performance, plastic abrasives are clearly the leader when it comes to productivity and value.

Plastic abrasives are non-toxic, contain no chemicals, and are 100 % recyclable and it is ideal for most applications.

Grits	Grade	Density MOHS	Barcol Hardness	Hardness
Polyester Type I	Soft	1.20	3.0	34 – 42
Urea Type II	Medium	1.50	3.5	54 – 62
Melamine Type III	Hard	1.50	4.0	64 – 72
Acrylic Type V	Medium	1.20	3.5	45 – 54
Poly-Allyl Type VI	Soft	1.30	3.0	30 – 40

Sizes	Inches	Millimeters
12/16	0.066 – 0.047	1.70 – 1.18
16/20	0.047 – 0.033	1.18 – 0.85
20/30	0.033 – 0.023	0.85 – 0.60
30/40	0.023 – 0.016	0.60 – 0.42
40/60	0.016 – 0.010	0.42 – 0.25
60/80	0.010 – 0.007	0.25 – 0.18

Other sizes, special screening and finer Wet Blast media is also available upon request.

# ZIRCO

## PBCM technical data

### THERMOPLASTIC GRADES

#### NYLON & POLYCARBONATE

These are specifically designed for deflashing complex parts made from Thermoset plastics and Engineering plastics – Circuit breakers, Electrical connectors, Electrical wall plates / switches, Industrial motor controls and Automotive electrical parts.

#### CRYOGENIC GRADE POLYCARBONATE

This material can withstand extremely low temperatures up to –150 C without becoming brittle. This is ideal for Cryogenic deflashing of precision rubber parts and precision metal die cast parts.

- O-rings, Oil seals, Medical parts / Syringe stoppers, Automotive parts, Grommets & Bellows.
- Precision die cast parts for Cd-rom / DVD players, Hard disks and Audio-visual equipment and Cameras.

Material	Grade	Density	MOHS Hardness	Barcol Hardness	Rockwell Hardness
Polycarbonate (cylindrical)	Cryogenic	1.20	3.0	–	R 118
Polycarbonate (cylindrical)	Ambient	1.20	3.0	–	R 118
Nylon (cubical)	Ambient	1.20	3.0	30 – 40	–
Nylon (cylindrical)	Ambient	1.20	3.0	30 – 40	–

**ZIRCO-BLAST** endeavors to be an all-in-one solution to your challenging applications. Call our experts today for materials testing to hands-on assistance.

**ZIRCO-BLAST USA LTD.**

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## Cryogenic Deflashing Unit



- Small Footprint 1.15m (W) x 1.00m (D) x 2.15m (H)
- Low Noise Level (superior sound insulation)
- Low Nitrogen Usage
- Low Media Consumption
- Simple Electrical Controls
- High Efficiency Blast Wheel
- Excellent Separation System
- Heated Door Seal
- Safety Interlocks
- Easy Media Change Over
- Simple and Very Low Maintenance
- Easy Cleanup



## Model CB-30 Liquid Nitrogen Deflashing System

The **ZIRCO-BLAST** Cryogenic Deflashing System is specifically designed for the deflashing of precision parts and components made from rubber, engineering plastics and metal die cast (zinc, magnesium and any other metals). This unit can be used with a liquid nitrogen tank, a portable tank or dewar. Mobile and easily relocated, this is the ideal machine for cell production. This machine can also be used for ambient deflashing.

### Model CB-30 Features

- No Screw or Conveyors
- PLC Controls
- Maximum Cooling Temperature – 155 Deg C
- Weight 800 kg
- Solid Construction and 80mm Insulated Walls to reduce Nitrogen Usage
- 7,000 RPM Blast Wheel – Variable Speed
- Variable Basket Speed
- 30 Liters Effective Capacity
- Coarse and Fine Flash Removal Contained

### Compressed Air Requirements

- Air Supply for Safety Interlocks and Blow Down
- Minimum pressure – 5 Bars

### Electrical

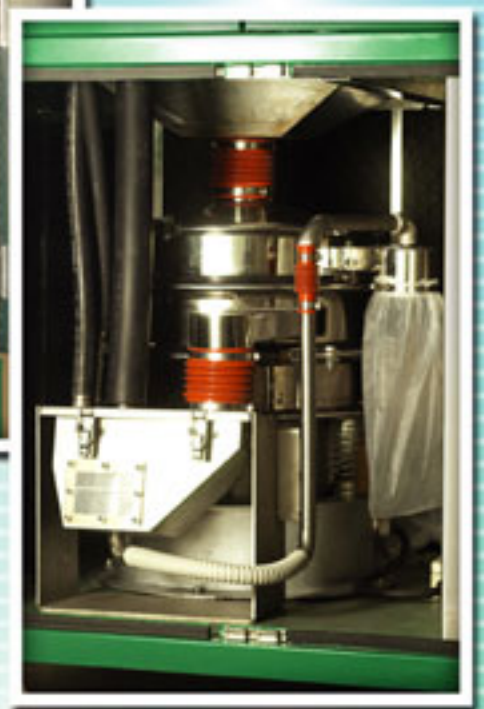
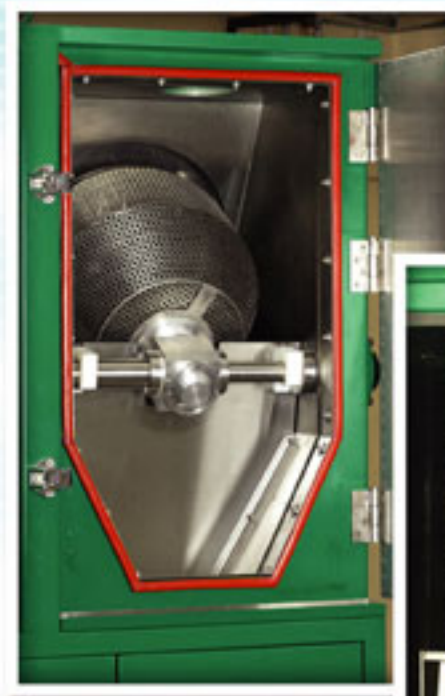
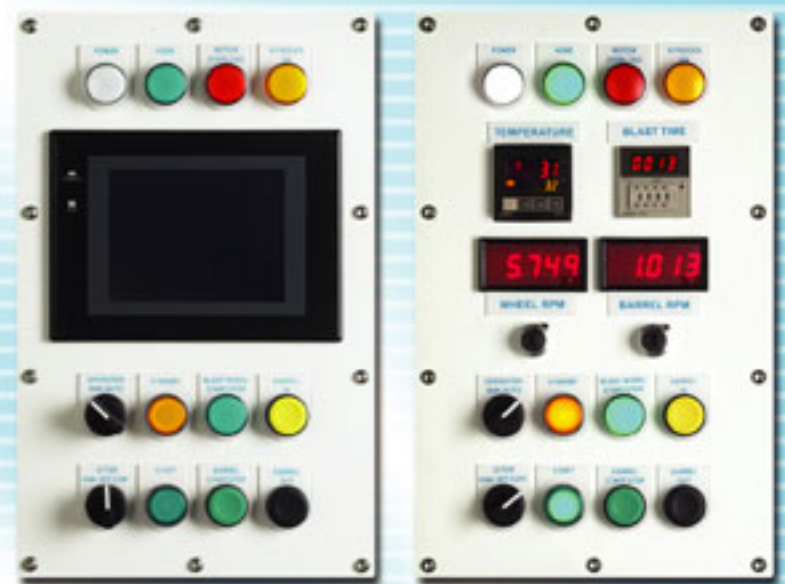
- 3 ph., 380-460VAC, 50/60 Hz
- All Reputable Electrical / Electronic Components which are commonly available

### Mechanical

- All Stainless Steel Construction – Chamber, Machine Frame and Door Panels.
- All Bellows and Seals are Silicone
- Completely Enclosed System
- Direct Drive Blast Wheel
- Easy Cleanup
- Solid Door Construction

### Optional Colour Touch Screen Model

- Ability to store pre-programmed menu.
- Supervisor code to setup and alter parameters
- Easy Menu Selection with warning on media size to use



### ZIRCO-BLAST Services Include

- Plastic Blast Cleaning Media
- Cryogenic Deflashing Media
- Mold Cleaning Cabinets
- Cryogenic Tumblers
- Dry-Ice Blasting Machines
- Custom Deflashing Services
- Dry-Ice Blasting Services

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## Cryogenic Tumbling Unit



### Model CT-60 Liquid Nitrogen Tumbling System

The **ZIRCO-BLAST** Cryogenic Tumbling System is specifically designed to deflash rubber parts and deburr metal die cast parts. The model CT-60 can be used to break parts loose from rubber sheets, stringy flashes and runners. This is effective in cleaning a variety of parts. The machine can also use special steel balls or other media to clean parts with through holes.



### Low Cost

- 60 liters Effective Capacity
- Few Mechanical and Electrical Parts
- Durable Solid Construction from Stainless Steel
- Low Nitrogen Usage
- Built in Vibratory shaker
- Compact Footprint 1.65m (L), 1.00m (D), 1.30m (H)
- Manual or Automatic Operation
- Variable Barrel Tumbling Speed
- Pre-chill Cycle
- User Friendly Electrical Cycle
- Uses Steel Ball to Assist in Deflashing
- Ideal for Removing Heavy Flashes
- Simple and Very Low Maintenance



# before



# &

# after



## Model CT-60 Features

- All Stainless Steel Construction
- Maximum Cooling Temperature – 155 Deg C
- Weight 600 kg
- Solid Construction and Insulated to reduce Nitrogen Usage
- Chrome Steel Balls or Other Media can be used to Assist in Deflashing

## Electrical

- 3 ph., 380-460VAC, 50/60 Hz
- All Reputable Electrical Components which are commonly available

## ZIRCO-BLAST Services Include

- Plastic Blast Cleaning Media
- Cryogenic Deflashing Media
- Mold Cleaning Cabinets
- Cryogenic Deflashing Systems
- Dry-Ice Blasting Machines
- Custom Deflashing Services
- Dry-Ice Blasting Services



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## Cryogenic Deflashing Services

Introducing our Specialized  
Cryogenic Deflashing Services for  
Precision Rubber Parts, Engineering Plastic Parts  
and Precision Metal Die Cast Parts.

Small & Large Batch Processing

New Product Testing

Able to Deflash Very Sensitive Parts or for  
Very Heavy Flashes

Parts Washing

Inspection Services

Packaging Services

Pick-up & Delivery in Limited Areas

We can assist you with your deflashing requirements.  
Please give us a call to discuss your deflashing needs,  
set up a trial or for a quote.





**You now have an alternative –  
ZIRCO-BLAST deflashing services.  
We specialize in cryogenic  
deflashing of:-**

- Precision rubber components  
– NR to Silicon Rubber
- Precision Metal Die cast parts  
– Zinc, Aluminum, Magnesium and others
- Plastic components with complex profiles.

#### **Specialty areas include**

- Automotive
- Medical
- Appliance
- Food
- Agricultural
- Electronics
- Marine

#### **What we can do for you?**

- Eliminate concerns of supplying your customers with questionable finished parts.
- Meet "on time" delivery schedules.
- If you already have cryogenic deflashing equipment, we can be your secondary source, if you should experience machine downtime, difficult parts or can't keep up with your growing customers demands. You can now offload some of your requirements.
- Offer you peace of mind, knowing your parts are in the best of hands.
- We can provide Cleaning, Inspection and Packing services.
- Free testing, prompt and courteous service.

# ZIRCO BLAST

#### **What you can do for us?**

- Trust us with your parts and understand that we are in business to help you become more successful.
- Send us your most difficult parts for free sample testing and quoting. When sending parts, please provide us the following information.
- The type of Rubber or Plastic Compound.
- A part to your quality control satisfaction
- Volume (daily, weekly or monthly)

#### **Zirco-Blast Services Include**

- Plastic Blast Cleaning Media
- Cryogenic Deflashing Media
- Mold Cleaning Cabinets
- Cryogenic Deflashing Systems
- Cryogenic Tumbling Systems
- Dry-Ice Blasting Machines
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