

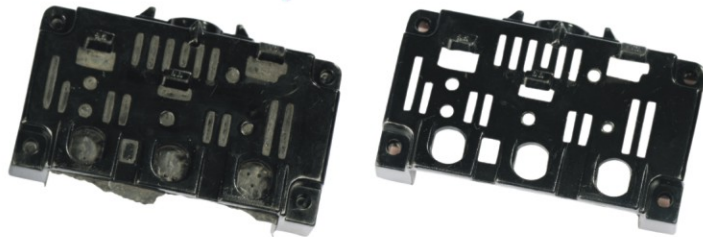


# SYNCO INDUSTRIES LTD.



## PRESENTS

DEFLASHING MACHINES & DEFLASHING MEDIA

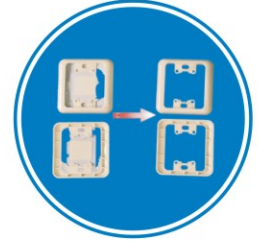


DEFLASHING SOLUTIONS



**Synco Deflashing Machines** for deflashing of thermoset (sintered, and injection molded) plastics and fiberglass parts. The deflashing process carried out by our deflashing machine allows removing perimeter burrs and cartilage formed during the production process.

We make standard, tailor made batch type and continuous deflashing machines. Standard tumble type machine has endless belt for tumbling of parts enabling parts to get exposed to nylon shot stream for effective deflashing. This machine is ideally suited for small to medium bakelite, melamine, urea, epoxy, engineering plastic parts etc.



**USP of Synco Deflashing Machines :**

- ◆ An automatic pump will be provided for spraying anti-static agent in order to control static current and prevent nylon shots to stick on parts.
- ◆ An air washing arrangement for better media and parts cleansing.
- ◆ Compact cartridge element type dust collector having high filtration efficiency and auto filter cleaning system through cyclic reverse pulsing.
- ◆ A variable speed drive can be provided optionally to control speed of tumbler.
- ◆ Advanced integrated electrical control panel for easy control of all functions of machine.
- ◆ Apart from standard model tailor made machines can be made as per specific parts and productivity requirement.

**CRYOGENIC DEFLASHING MACHINE** Synco supplies cryogenic deflashing machines specifically designed to meet the most exacting demands of the rubber and other industries.

MACHINE SPECIFICATIONS			
MODEL	SYNCOT-150	SYNCOT-80	SYNCOT-60
Machine Size (LXWXH)	1256 X 1300 X 2198	1080 X 1180 X 2020	984 X 1000 X 1935
Temperature	- 130 °C Max.	- 130 °C Max.	- 130 °C Max.
Shaker Diameter	600 mm	500 mm	500 mm
Denice Volume	150 L	80 L	60 L
Impeller Size	∅ 360 mm	∅ 300 mm	∅ 250 mm

**Working of Machine :** Molded parts are placed into a perforated stainless steel parts basket and then inserted into the blast chamber and the basket is mechanically rotated to expose all parts to the blast media. Liquid nitrogen lowers the temperature while freezing the rubber to make it brittle. The physical properties of the parts are not affected during the deflashing process. A unique high speed impeller directs and throws the polycarbonate shots into the rotating basket and by travelling at high speed, the small pellets cleanly trim off the brittle flash leaving a high quality, flash less molding.



**USP of Synco Cryogenic Deflashing Machine :**

- ◆ Improved product quality in terms of finish and complete deflashing.
- ◆ Increased productivity by means of automation.
- ◆ User friendly, easy maintenance and reasonable spare parts cost.
- ◆ Compact design and space saving.
- ◆ Safe and environment friendly.





**Deflashing Media :** Nylon Shots are used for effective deflashing without damaging surfaces of thermoset parts, rubber parts, electrical parts, computer components and metal die-castings. Nylon Shots have almost no dust formation and no color contamination when blasting components of different colors. Nylon media can be used effectively in both air-blast & wheel-blast equipment, with excellent longevity; its extremely low abrasion extends operational life.

## USP OF OUR DEFLASHING MEDIA :

1. Ambient & cryogenic grades available.
2. Abrasion resistance.
3. Non-toxic, dust-free deflashing.
4. Long-lasting & reusable.
5. High impact strength.
6. High abrasion resistance.
7. Dimensional stability.
8. Low dust generation.
9. No transfer of color.
10. No surface damage.



## DEFLASHING MEDIA TYPES :

**SYNCLON N** Nylon based deflashing media for deflashing thermoset and thermoplastic moulded parts. Available in cubed and cylindrical shapes. Size ranges between 0.3mm - 3.00mm. Various colours are available.

SHAPE	SIZE (mm)	COLOUR
Cubic	0.50	Red, Natural
Cubic	0.60	Red
Cubic	0.75	Red, Natural
Cubic	1.00	Red, Natural
Cubic	1.20	Red, Natural
Cubic	1.50	Red, Natural
Cubic	2.00	Red, Natural



**SYNCLON C** Polycarbonate based cryogenic deflashing Media for deflashing rubber parts at sub zero temperatures down to -140° C. Available in cubed and cylindrical shapes. Size ranges between 0.3mm - 3.00mm. Various colours are available.

SHAPE	SIZE (mm)	COLOUR
Cubic	0.75	Natural
Cubic	1.00	Natural
Cubic	1.50	Natural
Cubic	2.00	Natural



**SYNCLON S** PA based Bisphenol A free cryogenic deflashing Media for deflashing silicon and rubber parts at sub zero temperatures down to -190° C. Ideal for medical applications. Available in cubed and cylindrical shapes. Size ranges between 0.3mm 3.00mm. Various colours are available.

SHAPE	SIZE (mm)	COLOUR
Cubic	0.75	Natural
Cubic	1.00	Red, Natural
Cubic	1.50	Natural
Cubic	2.00	Natural



MAKE OF DEFLASHING MEDIA : EMSODUR SWITZERLAND

SPECIFICATIONS				
	Bulk Density [kg/m <sup>3</sup> ]	Hardness		
		Shore-D	Rockwell	Mohs
SYNCLON N	1.14	67	96	2-3
SYNCLON C	1.20	74	-	-
SYNCLON S	1.01	72	100	2-3

## PLASTIC GRIT

**MELAMINE- TYPE III** It is the hardest and most aggressive plastic media type. We supply Melamine blast media for mold cleaning; stripping paints, primers & coatings from steel and hard surfaces; and removing grit & grime from engines, turbines and parts. In mold cleaning, Melamine does not damage molds and is therefore an excellent replacement to glass beads and other hard abrasives.

**ACRYLIC- TYPE V** It is softer than Urea or Melamine and considerably “more forgiving” in the hands of the operator. Acrylic media blasting is recommended for removing paint and coatings from cars, trucks, tractors, rail cars, vans, motor homes, automotive restoration, aircraft maintenance and marine vessels.

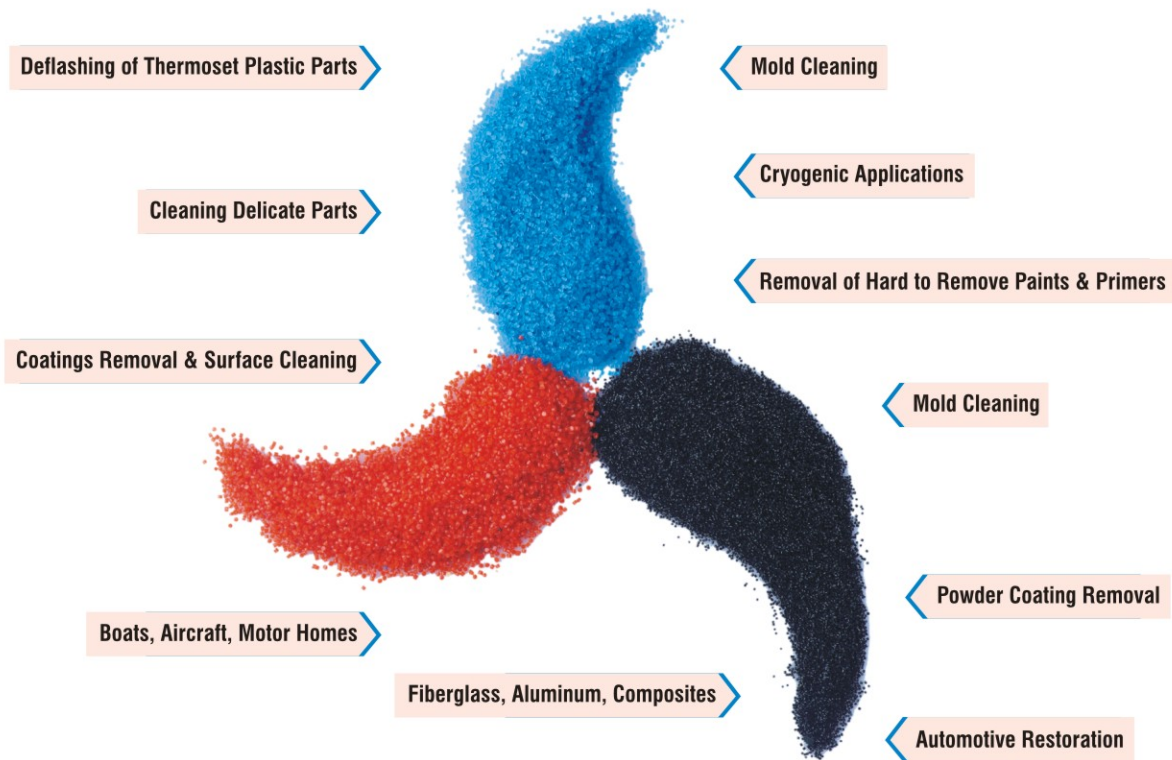
**UREA - TYPE II** It is the fastest and most versatile plastic media for paint stripping and coatings removal from cars, aircraft, trucks, trailers, tractors, rail cars, trains, vans, motor homes, boats and buses. We supply Urea Plastic Blast Media for industries that include: automotive repair & restoration, paint & coatings and aircraft maintenance.

SPECIFICATIONS			
	MELAMINE TYPE III	ACRYLIC- TYPE V	UREA - TYPE II
Appearance	Granular	Granular	Granular
Color	Multi-Colored	Clear	Multi-Colored or White
MOH Hardness	4.0	3.2-3.5	3.5
Barcol Hardness	64-72	46-54	54-62
Sp. Gravity (gm/cm <sup>3</sup> )	1.47 - 1.52	1.1 - 1.2	1.47 - 1.52



STANDARD SIZES						
Grade	8/16	12/20	16/20	16/30	20/30	20/40
Microns	425-600	250-425	180-250	150-250	150-212	53-150

## APPLICATIONS



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