



# Spin Trim Deflashing Machine Shot



Made In  
India



CE  
Certified



Highly  
Efficient



Hotspot  
connectivity

No Liquid Nitrogen  
No Cryogenic Deflashing Media

Suitable for Rubber & Elastomeric Parts

**ULAI ENTERPRISES PRIVATE LIMITED**



## SPIN TRIM DEFLASHING

Spin trim deflashing machine uses the principal of aerodynamics and centrifugal force to remove the flashes automatically with high spinning action. The machine can be widely applied for deburring process of rubber, silicone, fluoro rubber parts e.g. O-rings, round shaped etc.

Spin trim machine does not require liquid nitrogen or blasting media for flash removal. It is a single process, economical machine for flash removal and/or can also be used as cost reducing first stage before cryogenic deflashing process.

Spin trim machine are used for molds having tear trim / groove design with very thin flash that can be tear to remove easily without excess pressure, force if done manually.

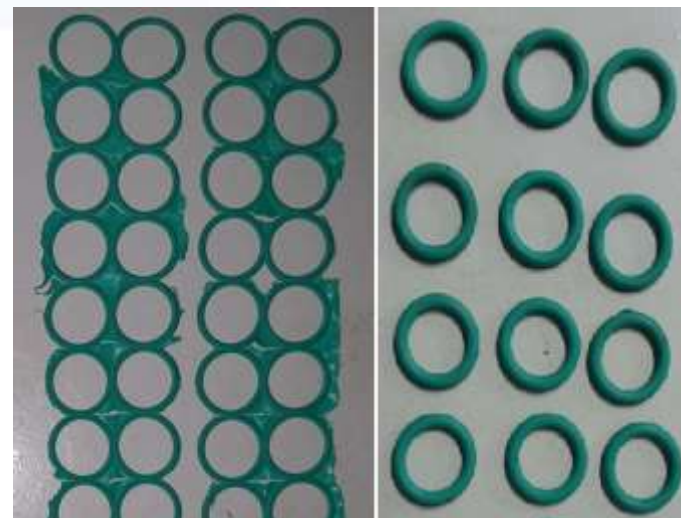
Parts required for deflashing are place

into the cylindrical compartment from the top of the machine and once the parameters are set, the disc spins the rubber parts at a very high speed with air pressure. The resultant force causes the rubber parts to collide with each other results into separation of flashes from the parts. The deflashed parts and flashes exit via a chute into a bin or a separator unit, having perforated mesh sheets of different hole size from where the parts can be collected.

Prerequisites:

Flash as thin as possible (<0.25mm). Lesser the better.

Advisable to have rubber parts made in cryo-mold -> better finishing Vs tear groove mold. Cryo mold also helps in less rubber compound consumption and lower liquid nitrogen usage.



# SPIN TRIM DEFLASHING

## Air Separation Method

The machine model USPTR is a highly efficient, automated as well as highly economical machine for deflashing of excess flashes of injection, compression molded rubber parts by using high air pressure process.

- Machine is suitable for most rubber parts of small to medium size dimension.
- Suitable for rubber parts with tear groove.
- Provides high level of quality deflashing finish
- One man job-operating the machine.



### MACHINE HIGHLIGHTS

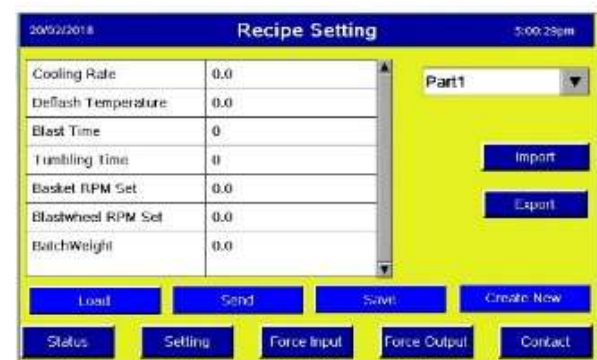
- 100% Made In India.
- PLC & HMI based mode.
- Capacity 15ltr (usable volume 5kg max).
- Compact design and easy to operate. Automatic Self lubrication.
- Lesser maintenance, faster and economical deflashing.
- No requirement of liquid nitrogen and deflashing media.
- Comes with separator and vibrator mesh of different size.
- CE certified – global standards.
- Worldwide customer acceptance.

## MACHINE USER INTERFACE

- Colored touch screen human machine interface.
- Schneider / Siemens PLC HMI.
- Option for multi language support for international customer.
- Option of saving different process parameters for different products.
- Remote access thru WIFI hotspot for online program troubleshooting.
- Alarms, diagnostics, errors.



Sample of HMI Screen



Recipe Manager Screen

## ADVANTAGES

### Proven deflashing solution for rubber parts.

Spin trim deflashing is a proven technology to spin out thin and big flashes out from the rubber parts (regular shape e.g. oring and/or irregular shape) with high centrifugal spinning force method principal. Parts must have tear trim line or grooves.

### Less space and high productivity

The spin trim machine utilize very less space compared to other methods. Single machine can separate rubber parts from the flashes in few minutes Vs long hours in manual deflashing process.

### No liquid nitrogen and no deflashing media

Spin trim machine do not require liquid nitrogen, deflashing media for flash

Removal. Hence, it is highly efficient and cost effective deflashing method for parts having majorly outer flashes with tear groove.

Spin Trim deflashing can also be considered as **economical first stage step** for deflashing of complicated , critical parts having extra flashes or require high finish in cryogenic deflashing machine.

**This helps in lower the cryogenic deflashing process time and process running cost.**





## **SUPPORT AND SERVICES**

**Trials, Installation, Training, Process optimization stabilization.**

**Branded and genuine spare parts.  
Easily available worldwide.**

**Onsite local service support for domestic (India) location.  
AMC option available**

**Remote service support thru hotspot connectivity and/or webmeet for International location.  
Onsite service support option available on need basis.**

**Mold design support and supply  
Mold support and supply for rubber parts  
- tear groove, flat flash – cryo design.**

## Machine Specifications

Model	USPTR-350
Drum size	350mm
Operating Mode	HMI + PLC
Spin Speed	0-7500 rpm
Air supply (max)	85 PSI
Electrical capacity	5.5KW
Power Supply (3Phase)	AC 410V, 50Hz
Electrical Components	Siemens, Schneider
Machine frame	MS long life powder coated painted sheet metal enclosure
Separation unit	MS vibrator separation unit with MS mesh screen plates.
Drum capacity	Upto 5kg
Drum	SS304
Machine Weight (approx.)	500kg