

Total Solution for Target Change

Oct 2009



ISO 9001 : 2000
REGISTERED FIRM



Mission Statement

We will do whatever it takes to meet the needs of our customers.

We will diligently strive for the best quality, price and delivery while maintaining a path of continuous improvement.

100% customer satisfaction is our goal.

Capability of PTR Manufacturing

- Providing cost effective target.
 - ~20% more cost effective.
 - Specialized in AZO and ITO target. Planer and rotary.
 - Typical Rotary target size: 153mm OD x 400 mm H
 - Max Planer target size: 800 x 300 x 10 mm
- Large precision machining. Baking plate, backing tube, chamber shield. Up to Gen 7 size.
- Engineering capability
 - Redesign of chamber shield. Cost oriented and less particle.
 - Redesign of backing plate and backing tube.
 - Any PVD related engineering consultation. (Particle, arcing, target utilization, target bonding)
- Precision machining capability up to 5029mm x 3429mm x 1219mm or (198 inches x 135 inches x 42 inches)

One Stop Shopping for Target Change

- Nearly 30 years of experience in manufacturing and engineering services for the semiconductor and flat panel display industries.
- Capable of providing cost effective and less hassle target change for customers.
- Target change and shield cleaning service at one stop shopping.
- Any problem after target change? (Arcing, particle etc). Any improvement necessary? (Target utilization, arcing etc).
- Engineering consultation, design changes and immediate in-house manufacturing available.

- Truly a one stop shop for all your target needs.

Photo of target



AZO rotary
(400mm H)

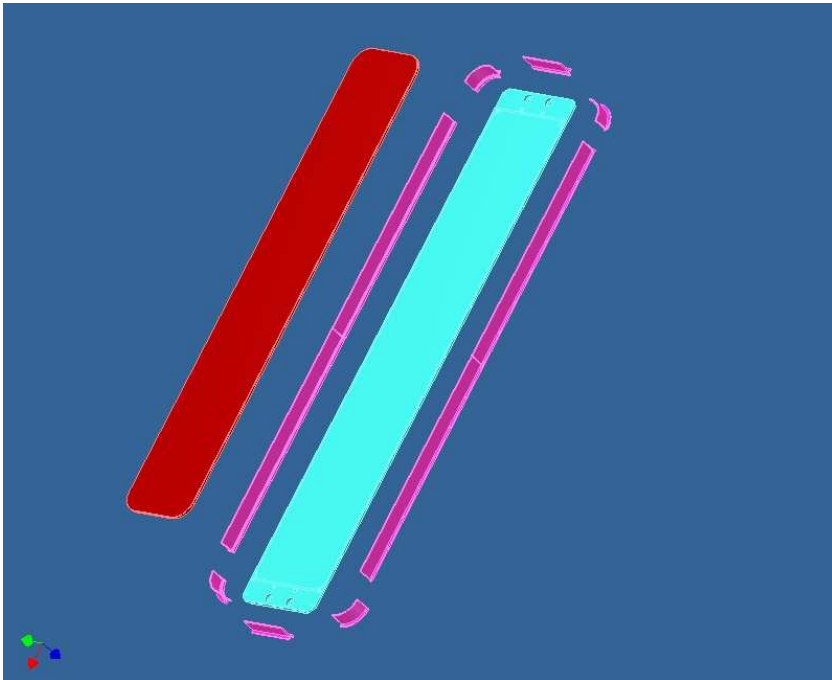


ITO rotary

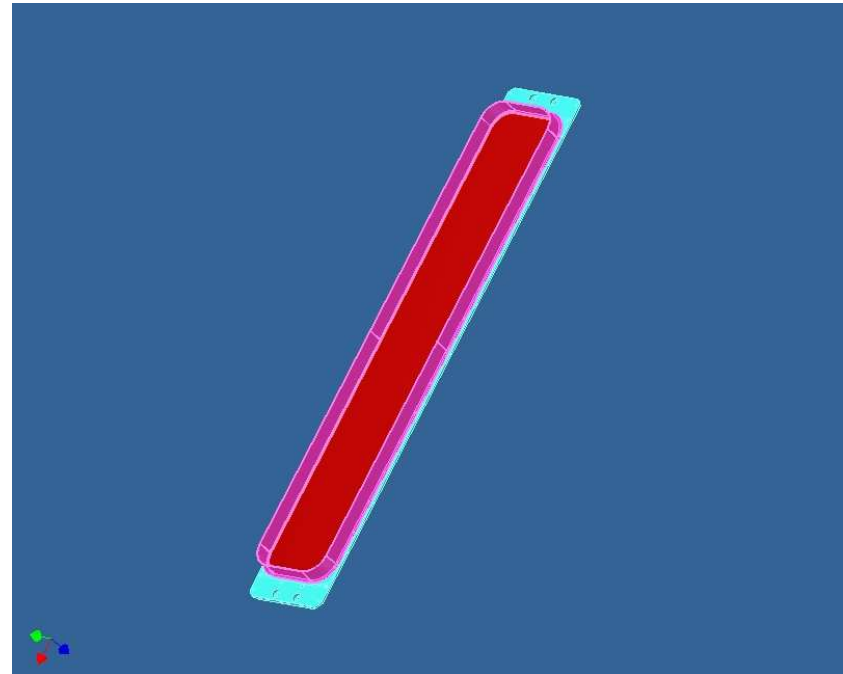


Metal Target
Resurface up
to Gen 7

Typical Target Change



Shield to be cleaned, target to be replaced, backing plate sometimes warp.



PTR will deliver ready to assemble Target.

Summary

- Providing cost effective target.
 - ~20% more cost effective.
 - Specialized in AZO and ITO target. Planer and rotary.
- One stop shopping for target change.
 - Replace target
 - Clean shield
 - Deliver ready to install target.
- Engineering and manufacturing capability
 - Redesign and manufacture of chamber shields.
 - Redesign and manufacture of backing plate and backing tube.
 - Any PVD related engineering consultation. (Particle, arcing, target utilization, target bonding)
- **Cost reduction and higher efficiency (less particle) oriented services.**