

# Case Study Degassing Rotors

## -purifying aluminium alloys

### Info

- Product name: DGRU 150-700-S02T2
- Application: Aluminum sand casting & permanent mold casting
- Casting parts: A wide range of cast parts, unit weight of up to 300 kg (66 l lbs.)

### Parameters

- Furnace: Electric resistance
- Capacity: Crucible - 300 kg (66 l lbs.)
- Temperature: 730 - 750°C (1346 - 1382°F)
- Alloy: AlSi10Mg – Aluminium Alloy
- Process duration: 5 minutes



## Benefits - Comparison of DGRU 150-700-S02T2 against existing rotor\*



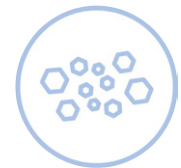
less dross adhesion



increased lifetime



less crucible change overs



consistent density index value

\*For more details, please refer to page 2.

## Existing Rotor

The customer was not happy about the short lifespan of existing degassing rotor (approximately 1 day). The rotor lifespan had reduced over the years to only 100 treatment cycles. The customer was eager to save costs of degassing without compromising the quality and efficiency of degassing process.



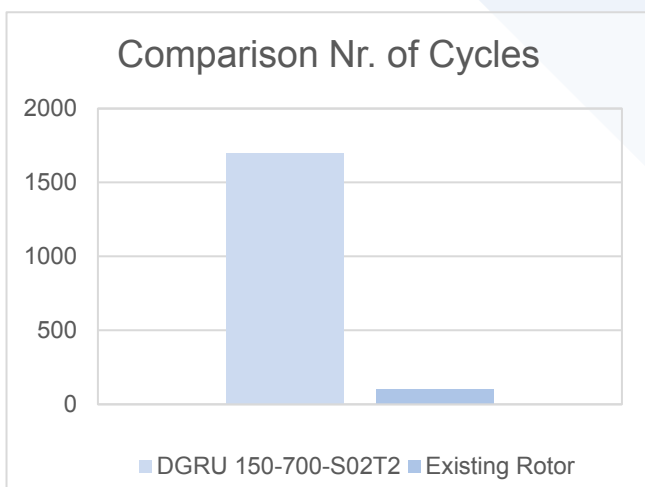
Picture 1 Existing Rotor after 100 treatment cycles.

## DGRU I50-700-S02T2

The customer was delighted after using Morgan DGR for 1700 cycles without any significant change in density index. The rotor remained intact as shown in the photo.



Picture 2 DGRU I50-700-S02T2 after 1700 treatment cycles.



## Benefits

- Improved erosion resistance
- Improved lifespan
- Less impurities
- Due to prolonged life time, less change overs, smaller stock
- Consistent density index value along the lifespan