



# Agitator Blade Coating

At Berg, we provide clients value-adding solutions that reduce operating costs, maximise performance, and extend asset life.

We achieve this by applying holistic, responsive engineering solutions at every stage of an asset's lifecycle, and by staying true to what makes us unique: precision, collaboration, trust, and experience.

[bergengineering.com.au](http://bergengineering.com.au)





## Berg Engineering is the original equipment supplier of uniquely designed long lasting Agitator Blade and Stub Shaft repair components.

Berg has carried out extensive research regarding material grades, coating options and techniques, and causes and management of cavitation. This has resulted in the following product improvements:

- Upgrade material to Titanium Gr5 discs and blades which has approximately 3x the cavitation resistance of Gr2.
- Coating of the outer edge and partial top and bottom of the disc where cavitation is causing damage.
- Berg has incorporated a minimum 3mm radius on all edges exposed to the media to improve the application of the coating and minimise localised erosion of the sharp edges

### In Field Results

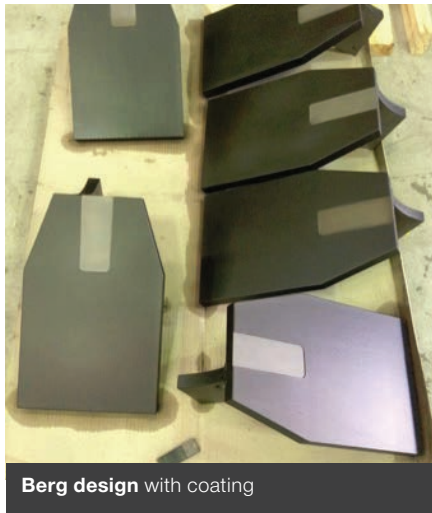
The performance of Berg's uniquely designed components speaks for themselves with results from recent use by one of our major processing plant suppliers who employed Berg's technology in upgrades and repairs to their autoclave agitation equipment.

#### Operating Conditions:

- Temperature: 210 deg C
- Acidity: 30 gpl sulphuric, pH < 0.5
- Pressure: 2650 KPag
- Particle size approx.: 80% passing 150 micron



**Old design:** after 9 months work completely scrapped



**Berg design with coating**



**Berg design with coating:** This is after 18 months of use in the feed end compartments – client will still get another 9 months out of these in the discharge end compartments.

### Time & Cost Savings

Results from initial applications indicate that Berg Engineering's unique design solution could provide cost savings of up to 40% in direct cost, but most significantly to the cost of life savings of the components due to their increased longevity in the field.

Delivery offered for a complete set is 14-16 weeks ex-works Brisbane, Australia. This timeframe may be further shortened depending on workshop loading at the time of order. Goods can be packed for travel either by sea or air.

### Interested?

For further information on how Berg's unique product offerings could work for your company, please contact David Rizet-Blancher - [drizetblancher@bergengineering.com.au](mailto:drizetblancher@bergengineering.com.au) or +687 97 35 76.

### Brisbane

**Berg Engineering Workshop**  
11 Terrence Road, Brendale QLD 4500  
**Telephone** +61 (0) 7 3881 6222  
**Email** [groupsales@bergeng.com.au](mailto:groupsales@bergeng.com.au)

### Gladstone

**Berg Engineering Workshop**  
15 Bensted Street, Gladstone QLD 4680  
**Telephone** +61 (0) 7 4976 3900  
**Email** [groupsales@bergeng.com.au](mailto:groupsales@bergeng.com.au)

