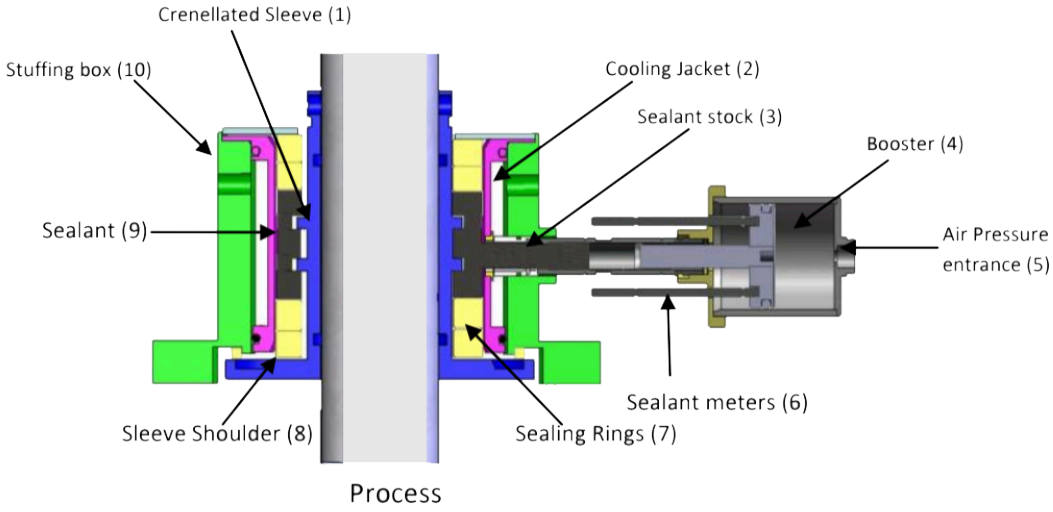
TAMAR SEAL
Innovative sealing technology

MTZ Technology – Revolutionary sealing technology from Tamar Technological Development Ltd.

MTZ Technology

MTZ technology combines all of the benefits of the conventional sealing methods to create a synergetic solution that contains **eight layers** of protection against leakage. The result is Zero leakage even under extreme conditions of slurry and run-outs.



1. **MTZ seal in the S.O.I.P.C test**

   a. **S**ealability – The MTZ seal with eight protection layers provides zero leakage even under extreme run-out and slurry environments.

   b. **O**perational Flexibility – The MTZ seal does not include any ceramic or silicon materials and it is an almost infallible solution. Even when the environment goes way beyond the limits of the seal, the seal will continue to work even if in a partial manner to prevent toxic emissions and costly downtime.

   c. **I**ndependent – The MTZ seal is a dry-running seal and uses a separate cooling jacket for cooling. It operates without impacting the process it is designed to protect.

   d. **P**redictability – The MTZ seal has a built-in mechanism that provides operators with an early warning of around 3 – 4 weeks before a sealant refill is required. As long there is some sealant in the stock, a positive pressure is maintained preventing pressure drops and leakage.
   Adding sealant is done on line and does not require production shut down.

   e. **Co**st – The cost of the MTZ seal is within the range of a mechanical seal. However, the huge advantage of the MTZ seal is its ability to minimize production down-time, adding only a very small maintenance cost. This combined with dry-running operation; minimal on-site maintenance means an excellent cost-effective sealing solution.

	Packing Seal	Injectable packing	Mechanical seal	MTZ Seal
Sealability	Low	Medium	High	High
Operational flexibility	High	Medium	Low	High
Independent	Low	Low	Medium	High
Predictability	Low	Low	Low	High
Cost Purchasing	Low	Low	High	High
Cost installation	Low	Low	High	Medium
Cost Operation	High	Low	Medium	Low
Cost Maintenance	High	Medium	Low	Low
Cost Replacement	Low	Medium	High	Low
Cost Stock	Low	Low	High	Low
Cost Failure	Low	Low	High	Low
Total Cost-effectiveness	**Low**	**Low**	**Medium**	**High**