



Case Study Custom Solutions



Improving Our Equipment to Meet Your Needs

Working in collaboration, creating tailored solutions,
engineering to improve efficiency.

- **The Application:**

- To provide multiple valves to process abrasive torrefied pellets 24 hours a day 365 days per year with minimal air loss across the units.

- **The requirement:**

- To provide a valve that would meet ST2 (10bar) explosion certification, handling an abrasive product whilst maintaining the desired air lock. The valves would be subject to intensive maintenance process and so needed to be extremely robust yet simple to maintain.

- **The solution:**

- Working hand in hand with our customer Rotolok developed an all new version of its class leading 600mm Rotary Valve. This involved laying down new casting patterns for the main body and covers alongside other critical design features. Casting thicknesses were increased in all key areas by 25%. The rotor shaft diameter was increased by 75% and the bearings were updated.

- **The result**

- An extremely robust valve that can handle all that is thrown at it and continue to operate at maximum efficiency. A happy customer so pleased they have since placed repeat orders for multiple units.

