





ROTARY VALVES REPLACE SCREW PUMPS

» BAFA funding for energy efficiency projects «

Yesterday's solution, energy-intensive screw pump.
Today, **efficient rotary valve**.
Successfully built since 2005.
Now also supported by **national Climate programs**.

ADVANTAGES AT A GLANCE:

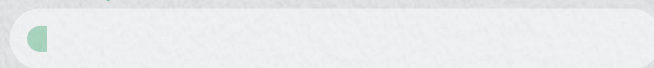
-  Smaller and more compact
-  Increased service life due to wear protection
-  Less energy consumption
-  Eligible for national subsidies

ENERGY CONSUMPTION IN COMPARISON



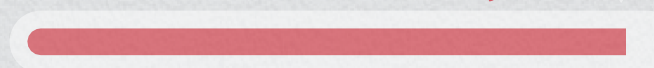
Rotary valves (~25 rpm)

▼ **5,5 kW**



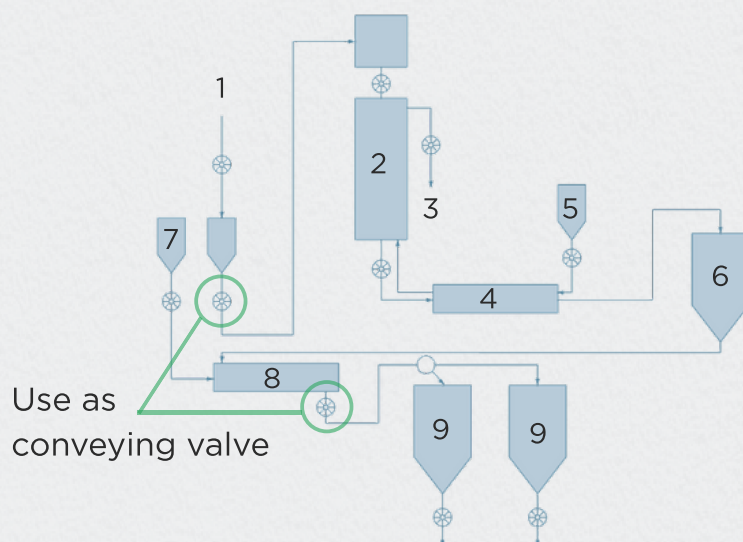
Screw pumps (~1500 rpm)

160,0 kW ▼



EXAMPLE OF REPLACEMENT IN A CEMENT PLANT

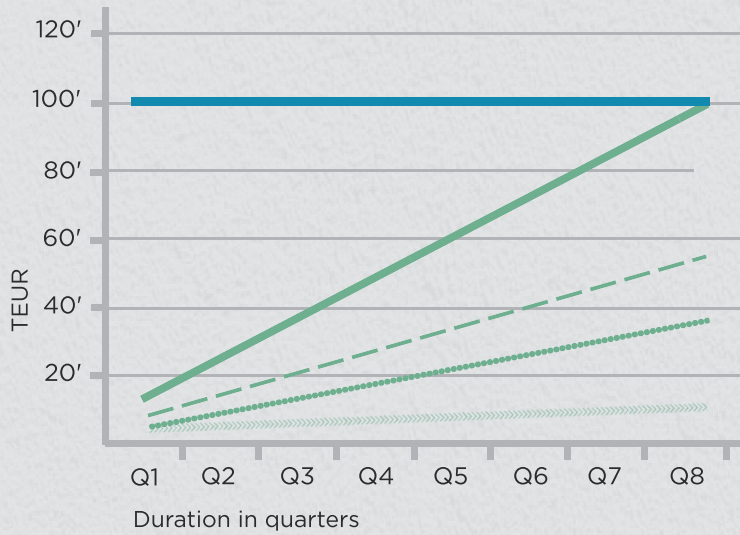
- 1 Raw meal
- 2 Cyclone preheater with discharge of Bypass dust
- 3 Bypass dust
- 4 Rotary kiln
- 5 Fuel
- 6 Clinker storage
- 7 Additives
- 8 Clinker grinding
- 9 Shipping



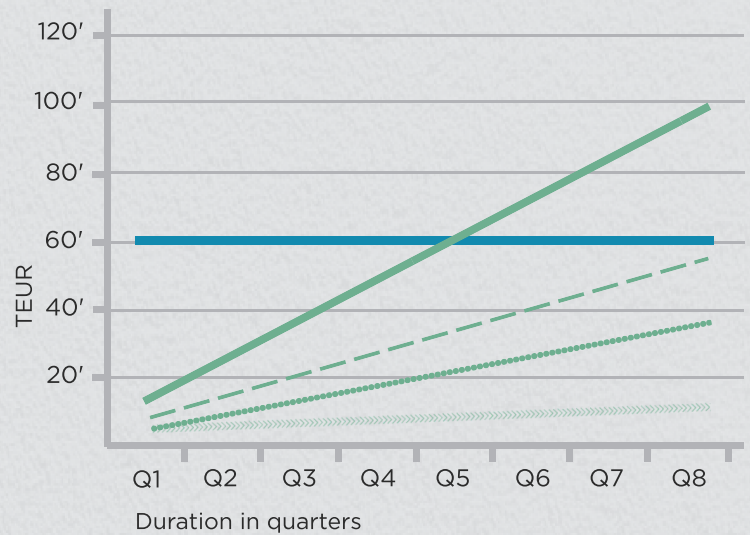
AMORTIZATION AND SAVINGS

Example: ZXQ 500-DP60 airlock replaces 90 kW pump

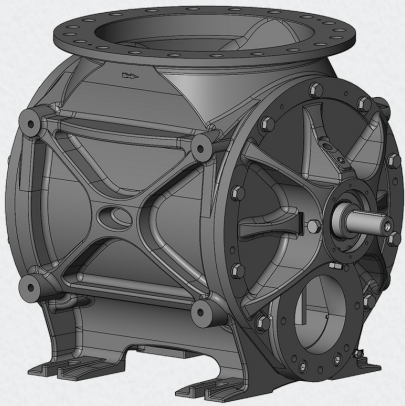
✗ Without subsidies



✓ With subsidies (example: German's BAFA program)



■ Investment costs
 ■ Total savings
 - - - Energy savings
 ●●●● CO₂ emission savings
 >>>>> Maintenance savings



ZXQ 500, approx. 130 tph

Investment costs without subsidies (incl. 100,000 € modification cost)	
Investment costs with subsidies	60,000 €
Return on investment without subsidies	24.1 months
Return on investment with subsidies	14.5 months
Energy cost savings	27,450 €
CO ₂ -savings	17,250 € / 690 t
Maintenance savings	5,000 €
Total annual savings	49,700 € yearly

CONTACT US!

We will gladly inform you about subsidies available and calculate the savings potential of your system. Contact your local Coperion agent via michael.kramer@coperion.com



Coperion is the industry and technology leader in extrusion and compounding systems, feeding systems and bulk material handling plants.

For more information please visit www.coperion.com or contact info@coperion.com

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