



Use of VTP pulleys in Screwcompressors

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A number of world leading Screw compressor producers have chosen to use the VTP pulleys from Birn in their products. They have done so for a number of reasons:

- HIGHER COMPRESSOR PERFORMANCE - HIGHER SPEED ON THE PULLEYS
 - The VTP pulleys are able to withstand higher speed:
 - XPA: 70m/sec
 - XPZ: 80m/sec
 - The VTP Pulley alone are able to withstand 130 m/sec – and thus limited only by the performance of the V-belts
- LESS SERVICE
 - Longer lifetime of the V belts. The groves in the VTP are ventilated. The ventilation holes cools the belt and after hours of constant use, the VTP will leave the belts 10 to 17 degrees cooler than in similar setup with normal pulleys.
 - 50% less weight of the VTP pulley means less stress on the bearings

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- COMPRESSOR CAN BE USED IN HIGHER SURROUNDING TEMPERATURES
 - The ventilation and following reduction in operation temperature allows the Compressor to be used in higher surrounding temperatures.
- COMPRESSOR CAN BE USED IN MOIST ENVIRONMENTS
 - The VTP Pulleys are CDP coated, giving the best possible resistance against corrosion
- MORE RESILLIENT POWER TRANSMISSION
 - Made of GGG 60 nodular iron, not GG 25 grey iron, this means 2,5 times higher strengths of the pulley
- INCREASED HEALTH AND SAFETY FOR WORKERS
 - The VTP pulley weighs 50% less than normal pulleys. This means better working environments.
 - weight means easier assembling, less pressure for the bearings, that means less freight costs, less bearing costs.