

VTP® - PULLEY

Ventilated Turbo Pulley

Vald. Birns A/S is one of Europe's leading producers of transmission components and always stocks a complete range of V-belt pulleys.

VTP® -Pulley (Ventilated Turbo Pulley)

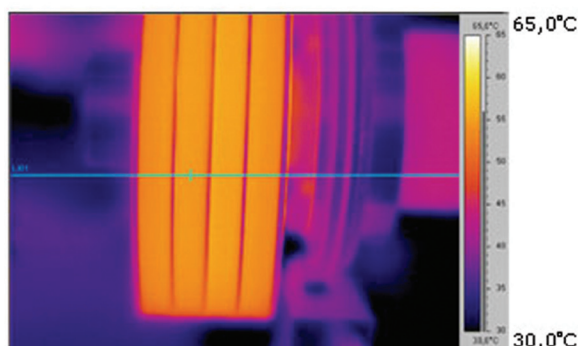
The latest addition is the internationally patented VTP® -Pulley, a V-belt pulley in a completely new design incorporating all aspects of optimized performance of V-belt pulleys. One of the improvements most worthy of mention is a combination of design and quality casting which has resulted in a weight reduction of up to 50% compared to conventional V-belt pulleys. Furthermore, due to the tilted spokes, the internal tensions of the V-belt pulley are reduced considerably.

The iron quality of GGG 60 allows the circumferential speed to be increased up to 100 m/sec. and the wear of the V-belts is considerably smaller than by the use of grey iron.

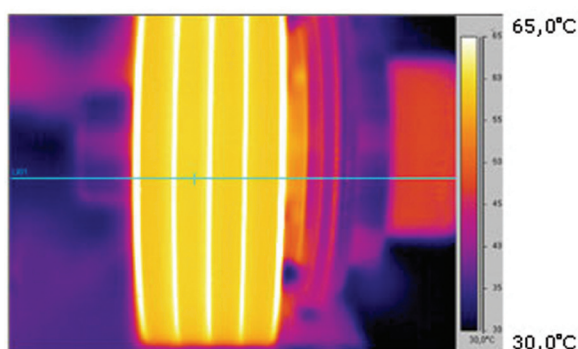
Higher effects transmission

The V-belts will have a lower working temperature. Up to 17oC lower than with standard V-belt pulleys. This is of great importance for the lifetime of the V-belts.

ACC®-surface treatment is a new and more efficient surface treatment of castings, and naturally all of our VTP®-pulleys and the other V-belt pulleys are treated in this plant. Among other advantages the ACC®-process adds a higher chemical resistance to oil, petrol, brake fluid and lubricants, and exceptional physical properties of the cured film (6H-pencil hardness), and priming paint and finishing paint can be applied direct to the ACC®-surface. This is a very environmentally-friendly process, being free from any air pollutants.



VTP®-pulleys



Other NON VTP®-pulleys



Increases the life of the V-belts due to the ventilated grooves resulting in lowering working temperatures (10oC-17oC).



Lower weight means less moments of inertia and requires smaller bearings. Also logistic costs are reduced.



Is made in nodular cast iron with a new design resulting in smaller tensions in the pulley.



VTP®-pulleys make it possible to use the V-belt transmissions at higher ambient temperatures.



Shock resistant, diminishing risk of damage during transport and mounting.



Allows more than a doubling of the belt speed (up to 100 m/s). Test @ 130 m/s.



New surface treatment. ACC®- Autophoretic Coating Chemicals –ensures improved rust protection.

