

## shhark® LoNoise

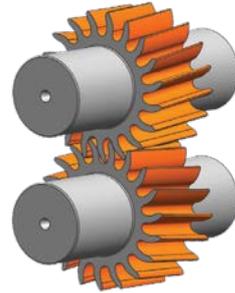
shhark® is the LoNoise gear pump by Turolla.

The most important value of shhark® is to be a quiet and efficient pump able to keep high performances even after many hours of heavy duty operation in the field.

Thanks to its revolutionary patented design, Turolla shhark® has almost twice the number of teeth of a standard gear machine of the same frame size. Moreover, through the further addition of a small helix angle, shhark® gears are able to deliver a steadier outlet flow and to reduce the flow pulsation by a stunning 78% and a significant reduction of noise emissions to 7 dB(A) on average compared to standard gear pumps.

Another effect of the higher number of teeth is also that the sealing teeth are 3 (shhark®) than 1 (standard pump), allowing to work on higher volume with the same dimensions, resulting in higher efficiency.

shhark®   
*when less is more*



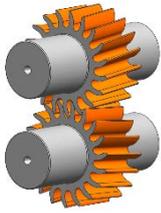
The gears of the shhark® pump are covered by multiple patents and define a new standard in the design of quiet gear pumps. The special profile of the tooth ensures low noise and maximum pump performance even after many hours of field operation.

## Features & Benefits

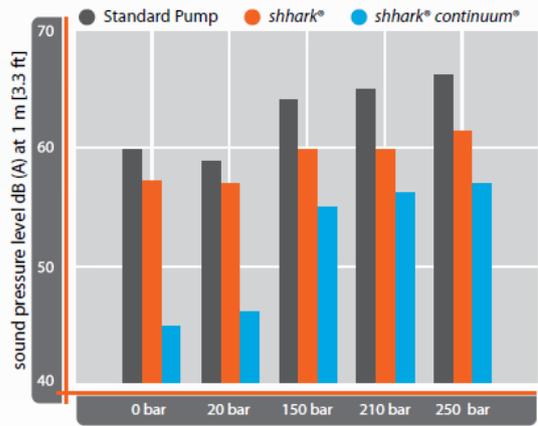
shhark® LoNoise is the gear pump to choose when low noise and high efficiency are required:

- Reduce pump noise emission by 7 dB(A) compared to a standard gear pump
- Low noise performance throughout the whole life of the pump
- Offers superior efficiency
- Reduces the flow pulsation by a stunning 78%
- Cost, weight and bulk savings by eliminating secondary noise reduction measures
- Helps meet legal NVH (noise, vibration, harshness) requirements
- Drop in compatibility with all Turolla external gear pumps

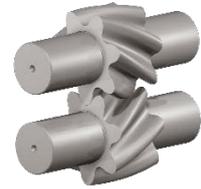
**shhark**   
 when less is more



**LoNoise.**



**shhark**  **continuum**   
 when less is more



**NoNoise.**

## shhark® bites your noise. Everywhere

### Typical applications:

- Indoor lift trucks
- Aerial work platforms
- Waste compactors
- Wheel loaders
- Agricultural (tractors, combines, harvesters)
- Hydraulic steering systems
- Electro-Hydraulic steering systems (EHPS)



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