

# Press information

## **BIONIK INSIDE: Little effort, big effect**

**Reduced wear, increased service life of the parts under load and reduced maintenance effort: These are the main advantages of BIONIK INSIDE, an innovation by Knauf PFT in the field of mixing pumps. Some processors already had the chance to convince themselves of the functionality and operating ease of the new system.**

BIONIK sounds like a mixture of bio and mechanics. And in fact - the template for the new design was delivered by the human knee joint, which on the one hand must be very flexible, on the other hand it must also offer greatest possible stability. This intelligent construction was integrated in the development of BIONIK INSIDE - as optimisation of the existing system. During continuous use on the construction site, the innovation entails a number of advantages compared to standard mixing shafts. During new construction of the relevant parts - from investment casting and wear-free steel - the contact surface was increased by almost 10 times, among other things. Wear parts such as mixing shafts and hauling bracket were optimised so that wear was reduced significantly. The changed shape favours unwinding of the cardanic movement in the drive system. This reduces the wear progress in axial direction. With the following result: If there is no axial displacement of the rotor in the stator, the pump pressure remains constant for longer.

Karl Schmidt, Managing Director of the professional painter company Karl Schmidt GmbH from Großharbach, Germany could convince himself of the advantages. The specialist for paintwork, plaster, stucco and drywall construction has been using the optimised mixing shafts on construction sites on a daily basis since January. A total of twelve machines type PFT G 4 were retrofitted to BIONIK during the last service. Retrofitting was "no big deal", the boss of the specialist company remarks, and his employees did not even notice it at first glance. Work is simply easier and more comfortable", explains Karl Schmidt. The other benefits

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will come to light only after a certain time - precisely, when it comes to wear and maintenance cost.

He got to know about the possibility of retrofitting from the construction machine trading company Stöcker in Mainstockheim Germany, from where he bought the PFT G 4. “Stöcker were carrying out some servicing and recommended BIONIK to me”, explains Karl Schmidt. The fact that expenditure would be minimal was a convincing argument for the company manager. “Retrofitting from standard to the BIONIK feature is done without any problems and completed in most cases in about 20 minutes”, explains Michael Hornig of Wolfgang Stöcker Baumaschinen GmbH. Furthermore, by simply removing a small nipple at the head of the old mixing shaft, the customers can continue to use it with an angle grinder. Hornig: “The wear to motor, mixing shaft and hauling bracket is therefore minimised efficiently and quickly.



Karl Schmidt “retrofitting was no big deal”.

(Photo: Karl Schmidt)

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The new BIONIK shape guarantees continuous good use.

(Photo: Knauf PFT GmbH & Co. KG)

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