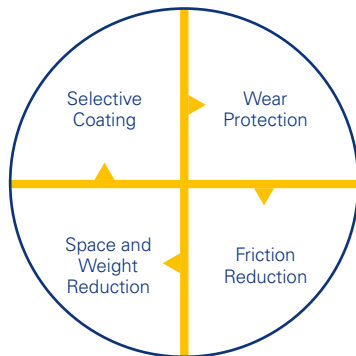




Example application: bevel gear and thrust washer from an E-axis differential

Functional Coating Solutions for MOBILITY APPLICATION

Especially in the application of the E-Axle differential, it is important to ensure high wear resistance and bearing function in a small installation space. MOTIONCOAT® SYNTHEC coating is tailormade for each application to reach best bearing performance.



Tailormade bearing solution according to customer needs.

COATING OFFER

Technology independent



Development partner for high-performance coatings



Advanced concepts for automation and industrialization of the coating process



Mid- and high volume production



Full customer service including packaging, logistics and transport



High Tech Coatings GmbH

Dr.-Mitterbauer-Str. 3
4655 Vorchdorf, Austria
T +43/76 14/65 41-0
htc-support@miba.com

www.miba.com

Innovation in Motion



MOTIONCOAT®

Direct Coating as Bearing Solution



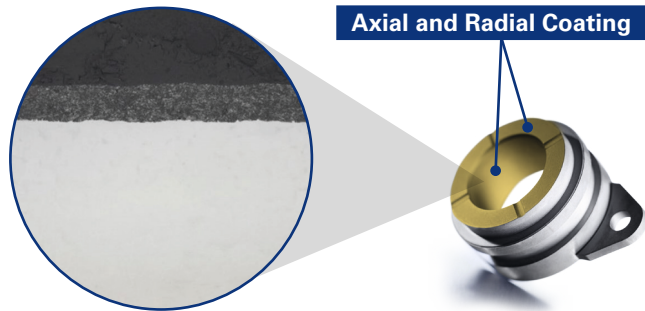
TECHNOLOGIES FOR A CLEANER PLANET

MOTIONCOAT® SYNTHEC

for axial and radial bearings



COATING DETAILS	
Substrate	Steel, aluminum, non-ferrous metal, sintered parts
Layer thickness	5- 30µm
Short Time Temperature Limit	240°C
Long Term Temperature Limit	180°C
Max. Running Speed	22 m/s
Max. Process Temperatur	180 – 250°C
Friction Coefficient	up to $\mu = 0.02$

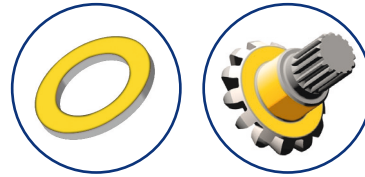


Direct coating to reduce the design space and to replace additional components.

MOTIONCOAT® SYNTHEC

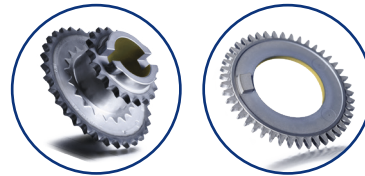
Examples of Use

E-Axles



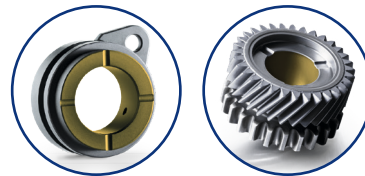
Axle bevel gears
Thrust washers

Timing gear, camshaft & drive



Idler gear
Split gear
Bearing surfaces
Chain tensioner

Balancing drive



Idler gear
Split gear
Bearing surfaces
(e.g.: Bearing block)



MOTIONCOAT® SYNTHEC is PFAS-free, meets all ROHS requirements and is REACH conform.

MOTIONCOAT® SYNTHEC

Coating solution for optimized friction and wear

MOTIONCOAT® SYNTHEC is a polyamide-imide based coating that has excellent tribological characteristics, and is applied directly to the component. Wear resistance and low coefficient of friction, MOTIONCOAT® SYNTHEC ensures maximum performance. Saving installation space and weight by direct coating.



IMPROVED WEAR RESISTANCE

MOTIONCOAT® SYNTHEC improves the wear resistance of the component surface and provides excellent emergency running properties.



FRICION REDUCTION

Reduce the friction of functional surfaces and increase the overall efficiency with MOTIONCOAT® SYNTHEC. Friction coefficient reduced up to $\mu=0.02$



WEIGHT REDUCTION

Weight reduction due to smaller components and reduced number of components.