

# HIWIN<sup>®</sup>

Motion Control and System Technology

We would like to invite you to visit us at the 31st edition of IMTS • September 12-17, 2016 at McCormick Place • 2301 S Lake Shore Dr • Chicago, IL 60616 USA

HIWIN will be displaying a full selection of motion products, including several new products like the **CG Series Guideway**, designed to improve automated processes and extend system service life. See a **fully automated work cell** display highlighting HIWIN motion control products and featuring our new **RA-605 6-axis robots**. The work cell can be seen in the HIWIN **East Hall Booth 4757**.

Hear the latest developments in linear motion from HIWIN's Dr Jean-Marie Renetaud at the IMTS Integrated Industries Conference • Tuesday, 9/13/16 • 2:15 - 3:10PM • Room: W196-A



## CG Series Guideway

The CG series guideway features an O-type bearing configuration greatly improving moment load capacity in all directions for exceptional performance and a new lubrication design that better coats the rail and rolling elements increasing service life.

The rail cover strip offers superior protection for the block and rolling elements and resists particulates that could collect in mounting hole. The cover strip is constructed of stainless steel material and is simple to install on the CG rail.

Applications include automated solutions where dust and other contaminants are present such as Woodworking Machines, Machine Tools, Grinders and Packaging / Handling Equipment.

Dr Jean-Marie Renetaud of HIWIN will present **Synchronous PM Linear Motor Motion technology** at the IMTS 2016 Integrated Industries Conference. Dr Renetaud has 35 years experience in the design and manufacturing of electric motors and holds 34 international patents.

## Abstract:

The synchronous PM linear motor became popular in the early 90s as NdFeB magnets entered the market as substitute to SmCo magnets in linear motors.

This presentation will show real world applications of linear motors in various industries and compare synchronous PM motors with other types of drives such as Ball Screws, Belts, Rack and pinion, etc.

Some basic principles of calculations and sizing of linear motors and estimates for service life will be discussed.

