



## Ford Improves Car Making the Same Way Sports Stars Raise Their Game – With Body Tracking Technology

- Ford employs body tracking technology on the assembly line just as sport stars perfect technique and replicate signature moves for video games
- Ford Valencia Engine Assembly Plant workers wear special suit with sensors that helps promote good posture
- The company is considering further rollout to its other European manufacturing facilities.

**VALENCIA, Spain, Aug. 7, 2018** – Technology typically used by the world’s top sport stars to raise their game, or ensure their signature skills are accurately replicated in leading video games, is now being used on an auto assembly line. Employees at Ford’s Valencia Engine Assembly Plant, in Spain, are using a special suit equipped with advanced body tracking technology. The pilot system, created by Ford and the Instituto Biomecánica de Valencia, has involved 70 employees in 21 work areas.

Player motion technology usually records how athletes sprint or turn, enabling sport coaches or game developers to unlock the potential of sport stars in the real world or on screen. Ford is using it to design less physically stressful workstations for enhanced manufacturing quality.

“It’s been proven on the sports field that with motion tracking technology, tiny adjustments to the way you move can have a huge benefit,” said Javier Gisbert, production area manager, Ford Valencia Engine Assembly Plant. “For our employees, changes made to work areas using similar technology can ultimately ensure that, even on a long day, they are able to work comfortably.”

Watch the video here <https://youtu.be/HmDXskVICtg>

Engineers took inspiration from a suit they saw at a trade fair that demonstrated how robots could replicate human movement and then applied it to their workplace, where production of the [new Ford Transit Connect](#) and 2.0-litre EcoBoost Duratec engines began this month.

The skin-tight suit consists of 15 tiny movement tracking light sensors connected to a wireless detection unit. The system tracks how the person moves at work, highlighting head, neck, shoulder and limb movements. Movement is recorded by four specialised motion-tracking cameras – similar to those usually paired with computer game consoles – placed near the worker and captured as a 3D skeletal character animation of the user.

Specially trained ergonomists then use the data to help employees align their posture correctly. Measurements captured by the system, such as an employee’s height or arm length, are used to design workstations, so they better fit employees.

Ford is now considering further rollout to its other European manufacturing facilities. It is part of Ford’s work – underway since 2003 – to [reduce the injury rate for its employees](#) worldwide through the introduction of ergonomics technologies and data-driven process changes.

## About Ford Motor Company

Ford Motor Company is a global company based in Dearborn, Michigan. The company designs, manufactures, markets and services a full line of Ford cars, trucks, SUVs, electrified vehicles and Lincoln luxury vehicles, provides financial services through Ford Motor Credit Company and is pursuing leadership positions in electrification, autonomous vehicles and mobility solutions. Ford employs approximately 201,000 people worldwide. For more information regarding Ford, its products and Ford Motor Credit Company, please visit [www.corporate.ford.com](http://www.corporate.ford.com).