

# J&M Manufacturing From The U.S. Wins The International Golden Manus Award 2023

*Four unique projects receive international prizes from igus for their creative use of dry-running plastic bearings*

CT, UNITED STATES, April 20, 2023 /EINPresswire.com/ -- An Ohio manufacturer of grain handling equipment won the Gold manus award from igus for its innovative use of plastic bearings in an assembly that applies liquid fertilizer.

J&M Manufacturing of Fort Recovery, Ohio, won the award for its use of igus bearings in its Para-Linkage coulter, which is used on J&M NitroGro nitrogen applicators. The bearings withstand the corrosive environment, require no lubrication, and save time by eliminating the need to apply grease to the applicator.

The biennial manus awards, launched in 2003, honor manufacturers for their applications that demonstrate technical, economic, and ecological efficiency as well as the developer's creativity. Judges reviewed 480 entries from 36 countries for the award. The first prize in the contest is €5,000. igus also awards a Silver (€2,500), Bronze (€1,000), and a Green prize (€1,000), which honors products for their sustainability.

Silver manus award for a French exoskeleton in a slim design

An exoskeleton used for high-pressure cleaning won the manus silver award for a creative application that provides a reliable, robust, and efficient solution that protects user health.



The winners of the 11th manus award (Source: igus GmbH)

Aufratech, based in Cabris, France, uses linear slide bearings and corrosion-free polymer plain bearings from the [iglide®](#) J3 series in its EXO N exoskeleton. At the core of the design is a control system that enables the user to guide the attached lances while keeping the back straight. Engineers succeeded in implementing a slim design that grouped as many functions as possible around an aluminum shaft.

The hollow structure of the shaft allows integration of the hydraulic control hoses and the steel water spray lance so that the valve body can be moved to the rear of the lance and the system is balanced around the user's center of gravity.

Bronze manus award for a telescopic high-pressure cleaner from Germany  
Another cleaning device captured the manus Bronze award. Fiedler Maschinenbau und Technikvertrieb GmbH built a high-pressure cleaner for municipal vehicles in which the unit's working area can be changed at the touch of a button.

Based in Schmolin-Putzkau, the core of the company's cleaner is the FSB 1500/2600 double spray boom mounted in front of the vehicle, equipped with side nozzles, a middle section, and electronically switchable high-pressure underfloor nozzles for cleaning services with high water pressure.

The double spray boom can be telescoped up to 500mm on each side. The adaptability enables the driver to clean large areas faster or to drive between park benches and rubbish bins with complicated steering maneuvers. Engineers selected profile guides and pillow blocks from the igus [drylin®](#) W series for the telescopic function.

Green manus award for dry-running coupling from Germany  
Rockinger Agriculture GmbH in Waltershausen, Germany, developed farm equipment that no longer requires lubrication to win the Green award.

The company designed KS80 ball couplings and wear inserts to be used on balers, loader wagons, manure spreaders, tippers, and field sprayers. The couplings are made with high-performance plastic from the [iglide®](#) series and were developed by igus, especially for the company.

Inserts in the coupling survived two million load changes with a support load of 4.5 tons. If 33 percent of tractors in Germany were equipped with KS80 and the wear insert, approximately 8,300 couplings would not require lubrication and would save eight tons of grease per year.

Find out more about the winners and all 480 entries at: [www.igus.com/manus](http://www.igus.com/manus)

#### ABOUT IGUS:

igus GmbH develops and produces motion plastics. These self-lubricating, high-performance polymers improve technology and reduce costs wherever things move. In energy supplies, highly

flexible cables, plain and linear bearings, and lead screw technology made of tribo-polymers, igus is the worldwide market leader. The family-run company based in Cologne, Germany, is represented in 35 countries and employs 4,900 people across the globe. In 2021, igus generated a turnover of €961 million. Research in the industry's largest test laboratories constantly yields innovations and more user security. Two hundred thirty-four thousand articles are available from stock, and service life can be calculated online. In recent years, the company has expanded by creating internal startups, for example, ball bearings, robot drives, 3D printing, the RBTX platform for Lean Robotics, and intelligent "smart plastics" for Industry 4.0. Among the most significant environmental investments are the "chainge" program – recycling used e-chains and participating in an enterprise that produces oil from plastic waste.

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