



## GLOBAL HIGH-CAPABILITY TOOLING SUCCESSES



Global Assembly Solutions Since 1970





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For more than 50 years, AIMCO has been working with manufacturers around the world. We are the complete global source for all critical fastening and bolting solutions. AIMCO can effectively and swiftly meet your needs whether you're in Tennessee, USA fastening a 3 mm nut at 3 Nm, or in Denmark servicing wind-turbine bolts at 17,000 Nm. AIMCO provides the tools and solutions, on a global scale, that guarantee the success of your project. It is with great pride that AIMCO can say the products that we manufacture are MADE IN THE USA.

# Our Associations





Global leader in the design, manufacturing, and distribution of agricultural equipment

**Need:** Tools for transmission and final assembly lines.

**AcraDyne Solution:** Tools ranging from 1000 series up to HT DC series to cover complete production line.

Changzhou, China: Transmission Line for Massey Ferguson Tractor





Changzhou, China: Axle Line for Massey Ferguson Tractor



St. Petersburg, Russia: 300 Gang Assembly



St. Petersburg, Russia: Two Spindle Chain Assembly



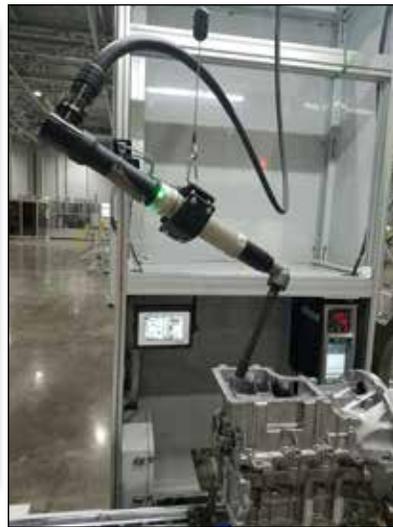


Automobile manufacturing company that produces Hyundai-branded automobiles for the Chinese market

Need: Tools for engine assembly line.

AcraDyne Solution: 1000, 2000, and 5000 series tools.

Engine Assembly Line, Beijing





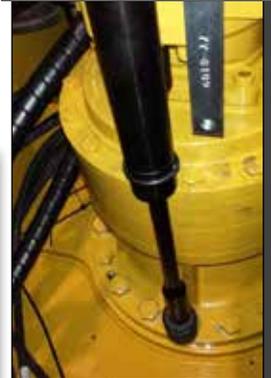
World's leading manufacturer of construction and mining equipment, diesel and natural gas engines, industrial gas turbines, and diesel-electric locomotives

Northern Ireland: MH-3000 Series Material Handling Machine



**Swing Motor**  
Target Torques:  
260 nm, 608 nm,  
900 nm

System on portable  
base. Arm absorbs  
torque reaction.



Rear Axle to  
Lower Section

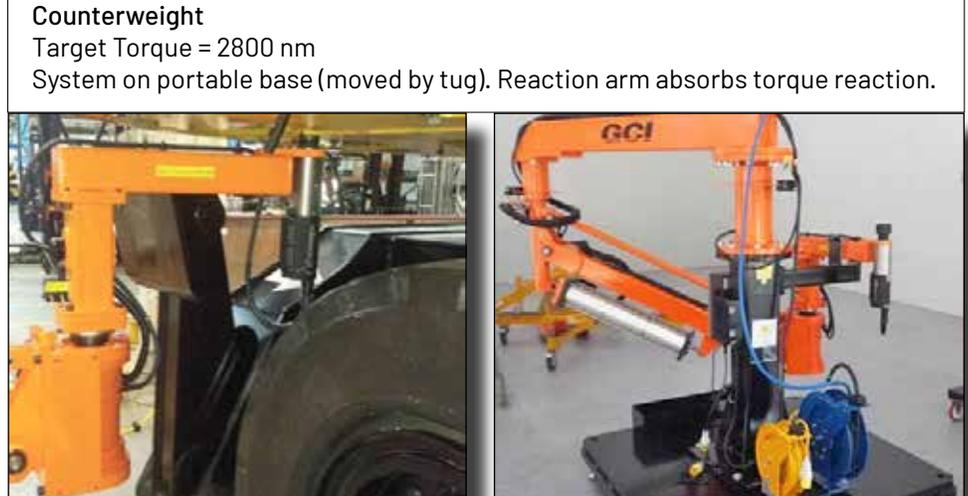
Target Torques:  
265 nm, 800 nm



Drive Shaft



**Wheels to Hub**  
2 step tightening  
12 bolts  
Torque 1 = 200 nm  
Torque 2 = 600 nm



**Counterweight**

Target Torque = 2800 nm

System on portable base (moved by tug). Reaction arm absorbs torque reaction.



Northern Ireland: MH-3000 Series Material Handling Machine

Slew Ring to Upper  
Target Torques = 183 nm, 475 nm, 610 nm



Singapore: Excavator Engine Assembly





*Global leader in designing, producing, and selling agricultural and construction equipment, trucks, commercial vehicles, buses, and specialty vehicles, as well as powertrain applications*

**Need:** Tools for complete control and monitoring of torque on tractor assembly line for consistent quality of final product. CNH previously used pulse tools.

**AcraDyne Solution:** Various AcraDyne tools, from low to high torque, provide complete control torque control, and integrate with the CNH network to send data.

Queretaro, Queretaro, Mexico: Tractor Assembly Line

Power Train: Gear Box Assembly



Exhaust Assembly



Tire Assembly



Assembly Feeder





Queretaro, Queretaro, Mexico: Tractor Assembly Line

Final Assembly of Rear Wheels



Tightening Car Tandem



Saddle Reaction Arm



Final Assembly  
Tightening Car Swing Bearing





*Designs, manufactures, and distributes engines, filtration, and power generation products*

Engine Rebuild



# DAIMLER

*One of the biggest producers of premium cars and the world's biggest manufacturer of commercial vehicles with a global reach*

**Need:** Replace set of Atlas Copco tools because of poor customer service and support.  
**AcraDyne Solution:** AEN35350A with Gen IV controller provides semi-automatic tightening.

Derramadero, Coahuila, Mexico: Truck Assembly

Rear Axle Assembly



Chasis Assembly





*Doosan Infracore's Construction Equipment Division is a global construction equipment supplier with a broad lineup ranging from mid-large excavators to refractive dump trucks and small machinery*

Need: Tools for counterweight balance application.

AcraDyne Solution: 3000 Nm inline HT DC tools with torque reaction arm.

Seosan, Korea: Manufacture of Excavator and Weight Balancer



**Need:** A high-torque bolting tool for tightening bolts around a pitch bearing in a wind tower. Hydraulic tools were heavy, cumbersome, slow, and had not supplied the needed torque accuracy for the customer.

**AcraDyne Solution:** a high-torque DC angle tool – AEN4B773000B – with a single-ended offset reaction bar to complete the application at 2,800 Nm. Customer was able to tighten all 200 pitch-bearing bolts in 1-1/4 hours. Previously the application had taken 6 - 7 hours with the hydraulic tool

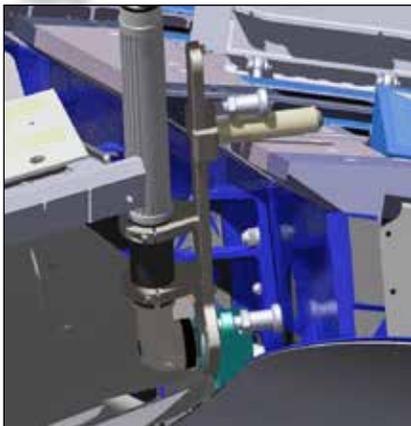
#### Pitch-Bearing Bolts



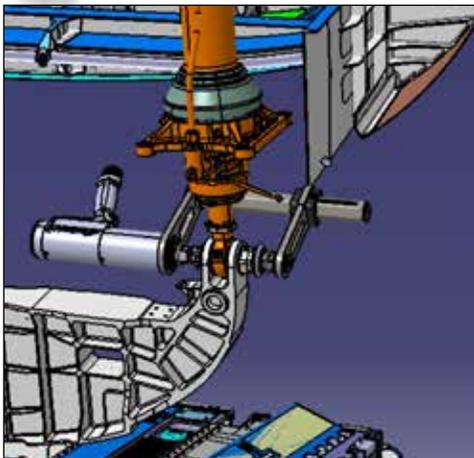
KC-390 Military Transport Aircraft



Ramp



Harp





**Global automotive industry leader that manufactures and distributes automobiles across six continents**

**Need:** Tools and controllers for complete line of 6.7 and 4.4 engine assembly. System has to monitor and control torque and angle, communicate with Toolsnet, include IP networking capability, and comply with Ford's budget and timeline. Solution requires full structure to hang tools, and requires that all tool rails be supplied and installed.

**AcraDyne Solution:** More than 300 tools and controllers supplied to Ford. The system incorporated all requirements. Best bits/sockets for application were supplied, as well covered sockets that protect operators.

Chihuahua, Chihuahua, Mexico: Engine Assembly and Repair (I4, J56, 4.4, and 6.7 Diesel)

6.7 L Diesel Assembly Line  
Low-Pressure Fuel Lines, Stud Bolt  
One Bolt to FIP and two to LH Cover

Assembly Area



4.4L Repair Bay



Final Assembly



Assembly Plant



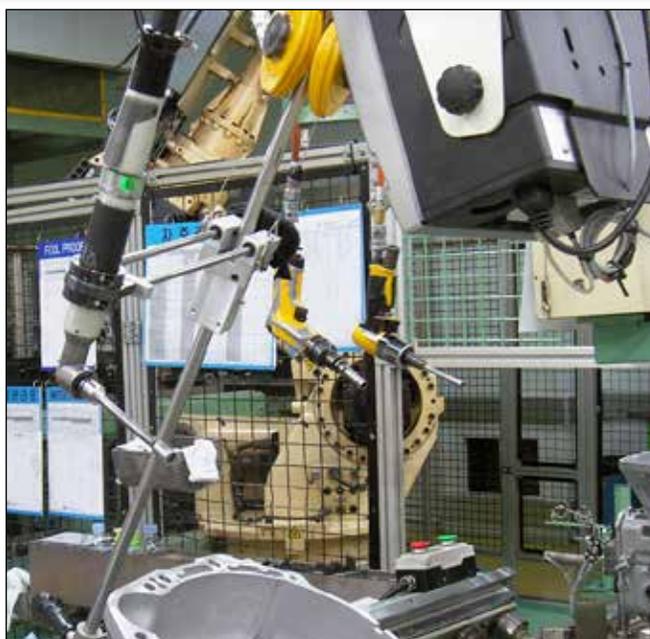
Stator Assembly



**Need:** Tools for transmission assembly line.

**AcraDyne Solution:** 1000 and 2000 series AcraDyne DC tools with Ergo Arms and fixtures.

Rizhao, China: Transmission Assembly





International manufacturer and supplier of commercial trucks, parts, and diesel engines

Argentina: Truck Assembly

Axle Assembly



CNH Iveco Factory, Bourbon Lancy, France

Application: Engine dressing, sub-assembly mounting  
Application torque: 1.6 to 4 Nm  
AcraDyne tool used: AES4A12006BQ  
Controller: IEC4EV





Multinational manufacturer of equipment for construction, agriculture, waste handling, and demolition

Wheel Installation





*Manufactures agricultural, construction, and forestry machinery, diesel engines, drivetrains used in heavy equipment, and lawn care equipment*

Assembly

Small Loader Wheel Mount



Steer Skidder Plate Mount



Wheel Assembly



Tie Rod Adjustment





Torque Cart for Sprayer Tank Assembly



Torque Cart for Combine Frame



Multi-Spindle System for Row Planter





Two-Spindle System for Loader Wheels



Angle Tool for Row Planter



Sprocket Assembly



Forestry Cab Assembly





*One of Europe's leading manufacturers of commercial vehicles, engines, and mechanical engineering equipment*

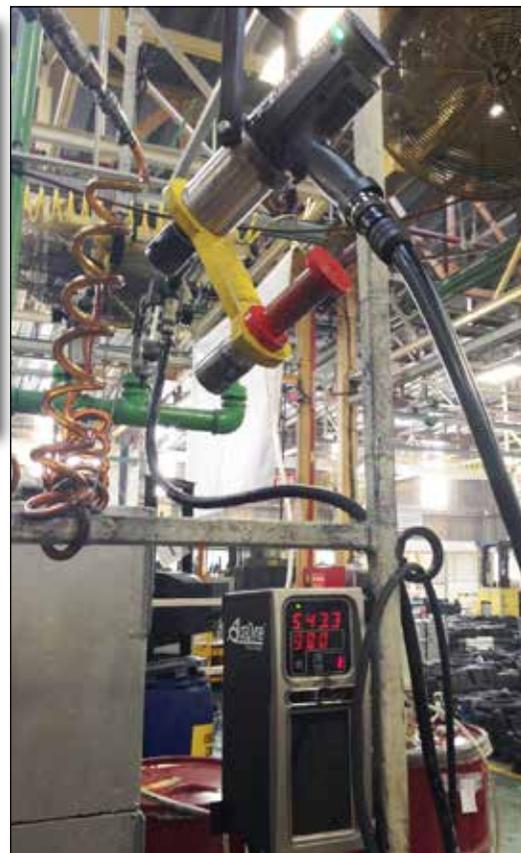
Marine Engine Assembly





Global provider of automotive systems, modules, and components for light vehicle, commercial truck, trailer, and specialty original equipment manufacturers

Assembly of Bearing Cap to Carrier



South Carolina: Four Spindle Multiples





Global full-line vehicle manufacturer

Smyrna, Georgia: Automotive Subframe Install

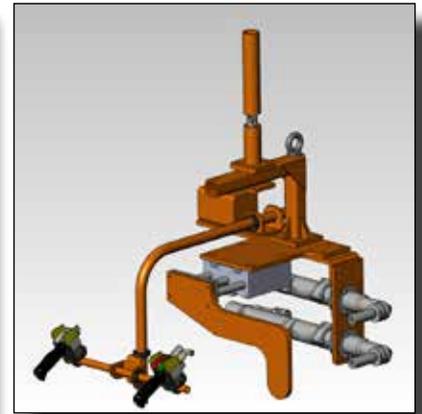
Car Subframe



TLink



Strut to Knuckle



Center Bearing and Lower Torque Rod



Upper Torque Rod





**SCANIA**

*Major Swedish automotive industry manufacturer of commercial vehicles, specifically heavy trucks and buses*

Brazil: Subassembly Truck Plant



**Need:** Tools for disassembly and reassembly/replacement of earthmover wheels.

**AcraDyne Solution:** 2000 Nm inline HT DC tool system with ABB articulated robot.

Australia: Mining Truck Wheel Nut Assembly and Disassembly



Wind Tower Assembly



Tool Lift Assist



Wind Tower Servicing





*Global company focused on providing active and passive safety products and services to the automotive industry*

**Need:** Four-bolt and six-bolt applications were having issues on valve cover assembly due to an o-ring that was not seated properly.

**AcraDyne Solution:** AEN35225B and AEP35350APT nutrunners, coupled with the Gen IV controller, allowed operators to create and set parameters to monitor and properly tighten all bolts.

Queretaro, Queretaro, Mexico: Driving Wheel Hydraulics Assembly







One of the world's leading manufacturers of trucks, buses, construction equipment, and marine and industrial engines

Brazil: Excavator, Backhoe, and Wheel Loader Assembly



Sub Assembly for Large Combustion Engines





World's leading global manufacturer of home appliances

Assembly-Line Screwdriving System



### DC

#### Continuous

##### PISTOL



Top Exit Cable



Rear Exit Cable



Bottom Exit Cable

##### HT



Pistol AEP Series



Rear Mounted Pistol AED Series



Axial AEJ Series



Fixtured AEF Series



Straight Lever AES Series



Angle AEN Series

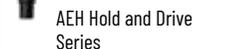


AEH Hold and Drive Series

##### ANGLE



AEN Series



##### INLINE



AES Series



Fixtured AEF Series



Push-to-Start AEL Series



Tubenut AET Series

Dual Lever Series



AES Type



AEF Type



AEJ Type



AEP Type

#### Discontinuous

##### Pistol



AEP4P Series



### BATTERY



High Torque



### CUSTOM ENGINEERED SYSTEMS



#### SPECIALS



AEG Series



High Torque Series



AEN Series

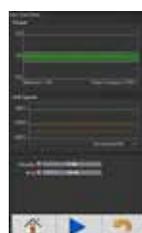


Mid-Exit

#### CONTROLLERS



Gen IV Controller Software



Gen IV Field Controller









CORPORATE HEADQUARTERS  
10000 SE Pine St.  
Portland, Oregon 97216  
Phone: (503) 254-6600  
Toll Free: 800-852-1368

AIMCO CORPORATION DE MEXICO SA DE CV  
Ave. Cristobal Colon 14529  
Chihuahua, Chihuahua. 31125  
Mexico  
Toll Free : (01-800) 801-1600  
Direct : (01-614) 380-1010  
Fax: (01-614) 380-1019