



WIND ENERGY  
SUCCESS STORIES



Since 1970, **AIMCO** has been providing Global Assembly and Critical Bolting Tooling solutions for the Automotive, Electronics, Aerospace, Energy Services, and General Assembly Industries.

Headquartered in Portland, Oregon, AIMCO has become a leading importer and exporter of industrial power tools. AIMCO currently exports to over 33 countries.

In 1999, AIMCO began manufacturing its **AcraDyne®** line, which produces a complete line of DC Controlled Tools and custom built multiple spindle systems ranging from approximately 1 to 17,000 Nm. Our service, repair, and calibration labs provide fast turnaround on repairs; additionally, all electronic torque equipment meets NIST standards.

If **Productivity, Ergonomics, Reliability, and Quality** are driving forces in your business, then let AcraDyne® be your value-added partner. AcraDyne® provides cost effective solutions for our customers by resolving challenges related to tightening and critical bolting strategies, tool selection and installation, joint failure analysis, audit trails, and methods. This, combined with operator training, maximizes the production efficiencies our tools provide.

Our strategically located sales force, coupled with our worldwide distributor network, make AcraDyne® the right choice for you.

**All AcraDyne DC Controlled corded tools and controllers are made in USA.**



# HIGH-TORQUE TOOLS FOR CRITICAL BOLTING

## DC TOOLS

Torque Ranges 250–12,000 Nm (185–8,850 ft-lb)



Pistol  
AEP Series



Rear Mounted Pistol  
AED Series



Axial  
AEJ Series



Fixture  
AEF Series



Straight Lever  
AES Series



Angle  
AEN Series



Dual Lever  
AEF Type

Dual Lever  
AEF Type



Torque Ranges 8,100–17,000 Nm  
(6,000–12,500 ft-lb)



## PNEUMATIC

Torque Ranges 400–5,100 Nm (300–3,775 ft-lb)

AAP1B Series



High-Speed  
Series

## BATTERY

Torque Range 115–4,100 Nm (85–3,025 ft-lb)



ABETP Series



ABP-CTA Series

## CONTROLLERS

Gen IV Controller



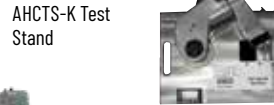
iEC4W Field Controller

## HIGH CAPACITY TEST STANDS

Capacities up to 33,750 Nm (25,000 ft-lb)



AHCTS Test  
Stand



AHCTS-K Test  
Stand



AHDTS Test Stand

AHBTS Test Stand

## TORQUE CARTS



iTVC Torque Cart

## GEARHEAD TOOLS AND NOSE EXTENSIONS



## DYNATORQUE MANUAL TORQUE MULTIPLIERS

Max Torque Outputs 800–1,600 Nm  
(590–11,808 ft-lb)



ATM-800

ATM-3800

## ACCESSORIES



Sockets



Reaction Bars

Air Preparation Units



Custom Accessories



Air Line





AcraDyne provides application solutions for a growing list of customers in the wind industry



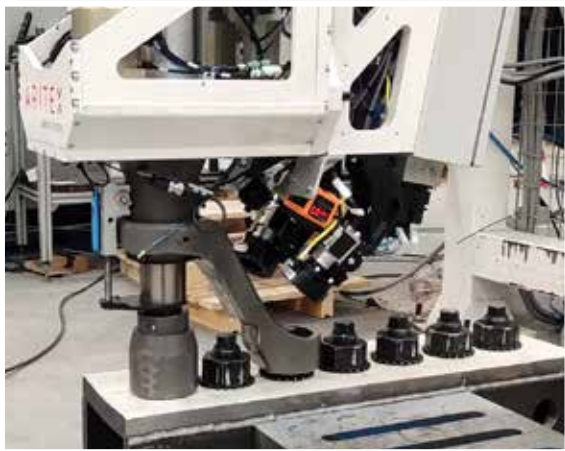


The most complete portfolio of high capability bolting and critical fastening solutions for the wind industry





Providing powerful solutions for robotics and automation on the factory floor





## HIGH-TORQUE TOOL SPECIALS

AIMCO can provide customized tooling solutions for even the most unique applications. Let us propose a solution tailored to your needs. Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.

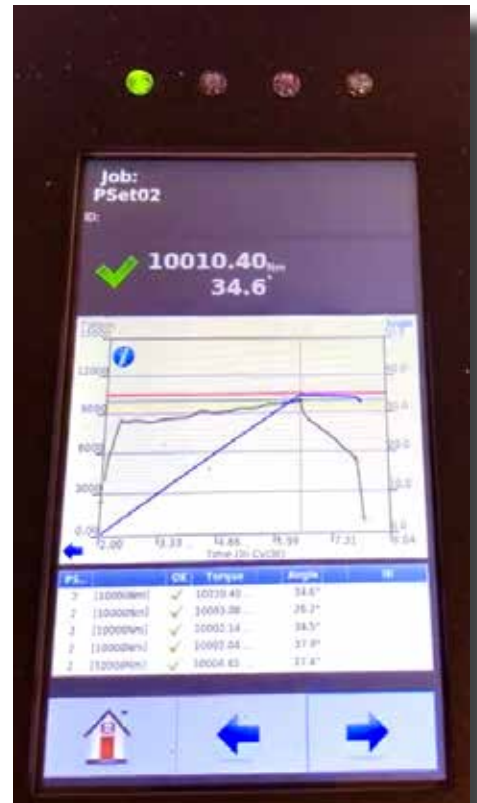
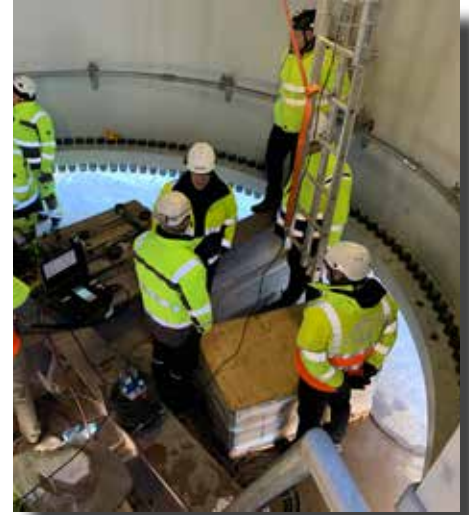


# SIEMENS Gamesa

RENEWABLE ENERGY

Denmark

## AcraDyne® HTXD EXTREME DUTY



### Siemens

Manufacturer of wind turbines and provider of onshore and offshore wind services

### Need:

DC Controlled Tooling to replace Hydraulic tools for improved quality and data traceability

Competition was disqualified because of failure to meet project specifications accurately with traceable data

### AcraDyne Solution:

- AcraDyne HT DC 12,000 Nm Dual-Lever J-Handle Tool
- Gen IV iEC4W Field Controller
- Systems performed all levels of the tests with zero issues
- 3x faster than hydraulic tools
- Dual-Lever handle and alternate handle designs met safety requirement



# SIEMENS Gamesa

RENEWABLE ENERGY

Sigueiro, Spain



## Siemens

Manufacturer of wind turbines and provider of onshore and offshore wind services

## Need:

Upgrade and repair current multipliers. The new multipliers were required to produce torque and angle data

## AcraDyne Solution:

- AcraDyne HT 2,500 Nm Pistol Nutrunner
- Gen IV iEC Controller for ultimate control
- Highly ergonomic and user friendly 3arm torque arm

# SIEMENS Gamesa

RENEWABLE ENERGY

Mexico and Chile

## Siemens

Manufacturer of wind turbines and provider of onshore and offshore wind services

## Need:

Customer needed an innovative tool/lift-assist solution for working in the confines of a wind tower. Many factors needed to be considered, including total weight of the product, maximum tool size, capability of the tool, maneuverability inside the wind turbine towers, appropriate lift-assist design, speed of tool, traceability, and durability. AcraDyne's challenge was to keep the design simple and lightweight, yet robust.

## AcraDyne Solution:

- For the tooling solution, AcraDyne provided a double J handle high-torque nutrunner that complied with tight weight standards. The tool could be carried inside the wind tower.
- For the lift assist solution, AcraDyne worked closely with the customer to design a lift that conformed exactly to spec. In addition, the lift assist can be quickly assembled and disassembled for maximum portability.

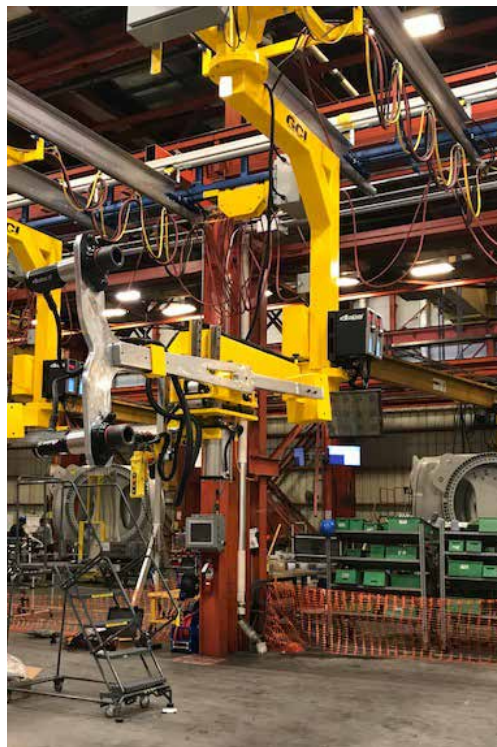


AcraDyne® HTXD  
**EXTREME  
DUTY**





Pensacola, Florida



**GE**  
Global power and  
technology services  
leader

**Need:**  
Tools on hub bearing  
assembly line that can  
accommodate varying  
bolt distances while still  
remaining durable

Modifying the torque  
arm wasn't an option

**AcraDyne Solution:**

- HT Dual Test Stand with digital rotary torque/angle transducers ranging from 375 - 7,500 ft-lb
- HT DC Pistol Nutrunners ranging from 1,200 - 6,500 Nm
- HT DC 12,000 Nm Tool with J-Shaped Handle
- Gen IV iEC Controller



**GE Alstom**  
Global power and  
technology services  
leader

Assembly Plant

**Need:**

- Improve process control in wind tower production line
- Reduce cycle time
- Improve quality in production
- Reduce noise in the environment
- Improve safety for workers



**AcraDyne Solution:**

- AcraDyne HT DC Tools and Signature Series Tool with torque ranges 6 – 4,200 Nm
- Torque Bench for torque ranges up to 8,000 Nm



Stator Assembly





# GE Renewable Energy

ShenYang, China



**GE Wind Power**  
Manufacturer of wind turbines

**Need:**  
Current tools used to tighten yaw break bolts provided inaccurate torque and tended to overheat

- AcraDyne Solution:**
- AcraDyne HT DC Pistol Tool, 4,650 Nm to tighten the yaw brake bolts (550 Nm + 30° Angle)
  - Gen IV iEC Controller

**TRG**  
**The Renewables Group**  
Supports construction,  
commissioning,  
servicing, and  
retrofitting of wind  
turbines



# Vestas

United Kingdom

## AcraDyne<sup>®</sup> ULTRA TORQUE



### Vestas

Manufacturer, seller, installer, and servicer of wind turbines

### Need:

Tool for automated resetting of spring yaw packs. Tool needed to be ergonomic and flexible to accommodate the overhead application

### AcraDyne Solution:

- Transducerized AcraDyne UltraTorque 950 Nm Series Cordless Tool



**AIMCO**

[WWW.AIMCO-GLOBAL.COM](http://WWW.AIMCO-GLOBAL.COM)

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