



**AcraDyne**<sup>®</sup>  
A Division of AIMCO

WIND ENERGY  
SUCCESS STORIES



For more than 50 years, AcraDyne's parent company AIMCO, a third-generation family business, has been working with manufacturers around the world, providing complete solutions for critical fastening and bolting applications.

As AIMCO established itself as one of the nation's largest and most innovative suppliers of pneumatic power tools and mechanized assembly systems, it saw an opportunity to launch its own manufacturing division in 1989, AcraDyne, to design, manufacture, and market assembly systems to feed and drive screws or tighten nuts.

Responding to customer needs, in 2000 AcraDyne launched its line of DC Controlled Tools, enhancing itself in the market. In 2012, AcraDyne launched one of the world's first High Torque DC Controlled Tools. Believing strongly that it could play a role in combatting the climate crisis, in 2020 AcraDyne introduced its line of HTXD Extreme Series Bolting tools for the ever-expanding bolting requirements of the green energy sector. AcraDyne is proud to be a member of the value chain that helps mitigate carbon footprint in order to create a cleaner and more resilient world.

It is with great pride that AcraDyne can say the products that we manufacture are **DESIGNED AND ASSEMBLED IN THE USA.**

**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)

AAPIB 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



AHDS 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



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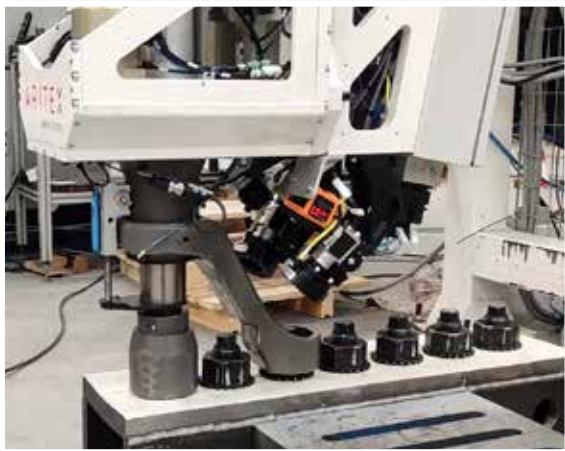


The most complete portfolio of high capability bolting and critical fastening solutions for the wind industry





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.



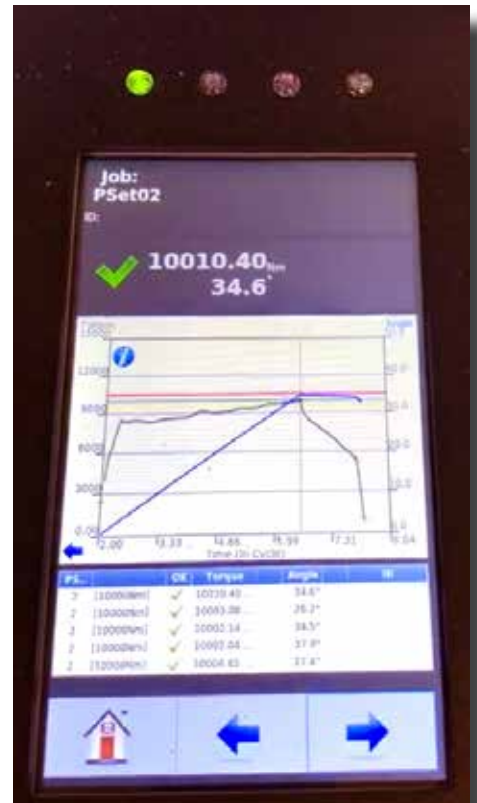
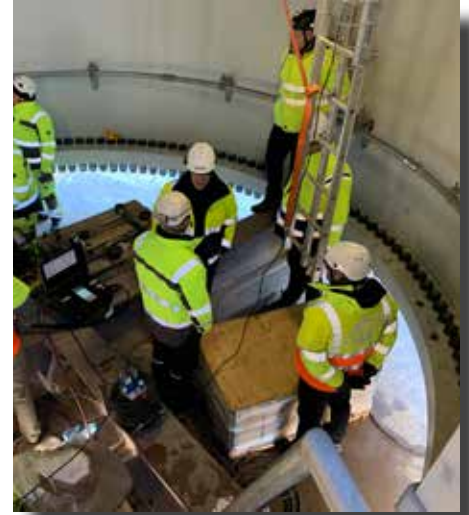
17,000 Nm Tool  
Patent No. D968491

# 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.

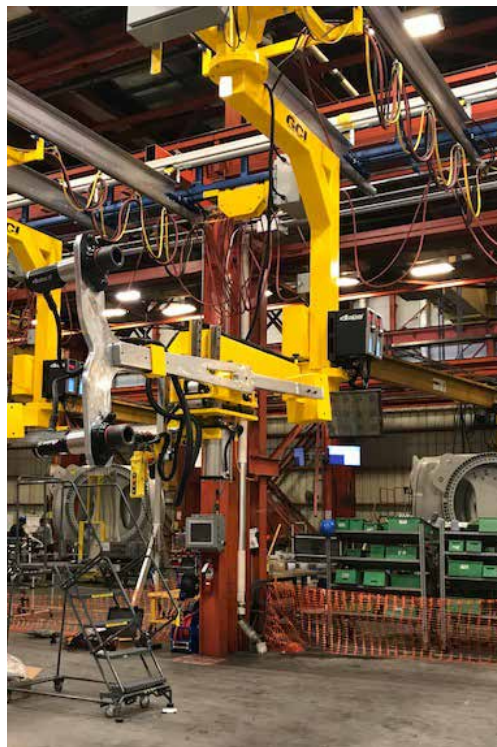


AcraDyne® HTXD  
**EXTREME  
DUTY**





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



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