

# ARE YOU PROTECTING YOUR MOST VALUABLE ASSET?



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



**AcraDyne**<sup>®</sup> **HTXD**

# Safety is Vital in Critical Bolting!

**\$6,000**

Average Hand Injury Claim. Individual workers' compensation claims nearing \$7,500

**30,000**

Bolts Tightened Per Year in Construction

**110,000**

Lost-Time Hand Injuries Annually

**1,000,000**

Emergency Room Visits per Year Due to Work-Related Hand Injuries

**\$400 Million**

Construction Industry Annual Cost of Hand Cuts and Punctures

Are you protecting your tool operators from injuries to their fingers, hands, wrists, and back?

Unsafe tool operation can result in not only operator injury, but also lead to costs associated with down time, lost productivity, and even lawsuits.

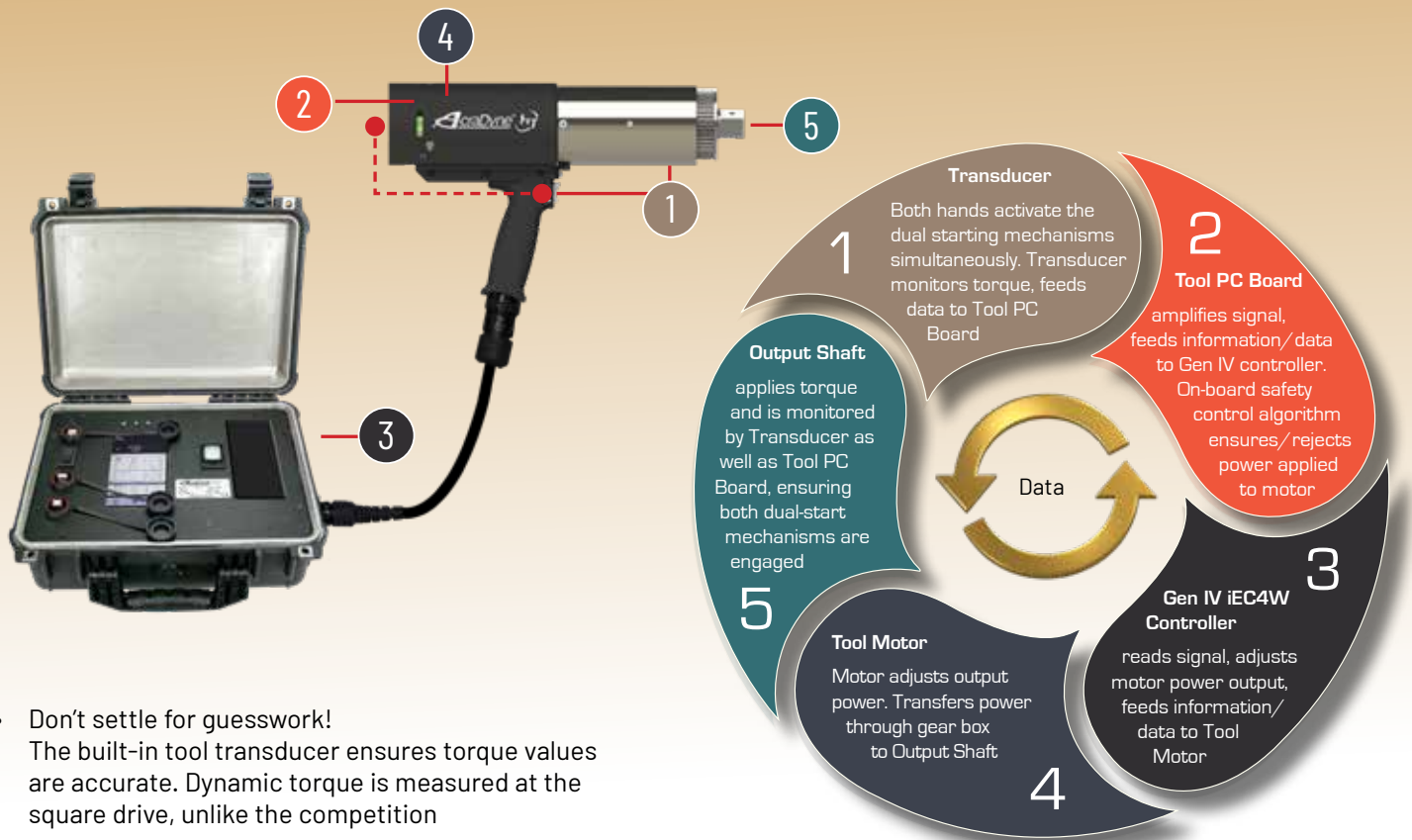
The Wind Industry presents challenges when dealing with tool operator injuries. Because of remote locations and hazardous working conditions, it can often take hours for help to arrive once an injury occurs. Safety needs to be considered in every aspect of the job.

AcraDyne's Gen IV controller platform, combined with its HT Dual-Lever Nutrunners provides a system that not only enhances safe tool operation, but provides an intuitive, intelligent solution even in the harshest conditions.



## AcraDyne's Gen IV Controlled Closed Loop-System: Intuitive, Intelligent Design with Safety in Mind

AcraDyne's Gen IV Critical Bolting Platform is one of the most advanced bolting/tool systems in the world. The iEC controller/tool system measures traceable, dynamic torque directly at the square drive. The built-in transducer ensures accurate torque values. Combined with AcraDyne's Dual-Lever HT Nutrunners, the Gen IV platform provides an additional level of safety to protect your most valuable asset – the tool operator.



- Don't settle for guesswork!  
The built-in tool transducer ensures torque values are accurate. Dynamic torque is measured at the square drive, unlike the competition
- Torque measurement is unaffected by changes in gear efficiency, normal tool wear between calibrations, temperature, voltage, or motor performance
- On-tool LEDs for Accept/Reject signals
- The system can easily be verified and calibrated anywhere
- Interchangeable tools, cables, and controllers – calibrations are specific to the tool not the system as a whole

### Having a Controlled Loop Redundant System Means

- Accurate measurement of the torque delivered
- Commanded Torque output within the means of the tool - Overprogramming not allowed
- Verification of torque sensor integrity at start command - Sensor must be functional for tool to run

# Safety Plus the Power of Data: Gen IV Platform is Safer AND Smarter

## FEATURES AND BENEFITS

- The world's most advanced traceable system at the output
- Three tightening strategies:
  - *Torque Control*: Drive the tool to a preset Target Torque
  - *Angle Control*: Drive the tool to or measure a preset Degree of Angle
  - *Yield Control*: Drive the tool to the Fastener Yield Point to achieve maximum clamp load
- Data retrieval
- DESIGNED AND ASSEMBLED IN THE USA



## Gen IV iEC4W Field Controller: High Torque with High Tech



The Gen IV Field Controller is the core of the modular AcraDyne DC system. One controller will command any tool in the AcraDyne line from 1 Nm to 17,000 Nm, all with the same modular standard cable design.

- Optimized for extreme duty applications >5,000 Nm
- Wide range of tightening strategies available including Torque Control, Torque plus Angle, Angle Control, and Yield Control
- Program up to 256 parameters with as many as 20 steps
- Jobs capability – 99  
Event log – 5,000  
Rundown storage – 1,000,000  
Curve storage – 20,000
- Self-contained in its own weatherproof, rugged case
- Backup & restore through USB
- Weatherproof, rugged case protects from the toughest environments
- Compact design weighs less than 20 lbs
- Ground clamp is quick and easy to set up and eliminates additional parts that are substantially heavy
- Optional tool fan kit helps prevents tool overheating
- Capable of interface with the AcraDyne series Dual-Lever tools that offer two-hand, no tie down functionality
- 110V – 220V compatible

Model	Description	Dimensions		Weight	
		W x D x H		LB	KG
iEC4WF	Field use controller for use with 110V or 220V service	16.1" x 12.8" x 6.9" / 408 mm x 326 mm x 175 mm		18.5	8.4
Additional Field Controllers					
iEC4W1	Field use controller with isolation transformer for use with 110V service	16.1" x 12.8" x 6.9" / 408 mm x 326 mm x 175 mm			
iEC4W2	Field use controller with isolation transformer for use with 220 V service	16.1" x 12.8" x 6.9" / 408 mm x 326 mm x 175 mm			



## High-Torque Dual-Lever Nutrunners

*Provides Additional Safety by Avoiding Accidental Tool Start*

### FEATURES AND BENEFITS

- Built-in integral transducer for optimal monitoring and control
- One of the most accurate high-torque tools in the world
- 250 Nm – 17,000 Nm
- Two-Hand No Tie Down Operation
  - No Tie Down Control: Operator must have both hands on and activating the dual-starting mechanisms simultaneously. Both hands must remain in position, activating the dual controls, at all times in order for the tool to operate.
- Additional safety when using a tool with a reaction bar or nose extension. Operator's hands remain on the controls and not in a position where they could be impacted by reaction devices
- Hands stay clear of application
- Helps avoid accidental starting of the tool
- Available in Fixtured (F), J-Handle (J), Straight (S), as well as dual-handle configurations
- DESIGNED AND ASSEMBLED IN THE USA



### HT Dual-Lever Nutrunners: **SAFETY** is **VITAL** in Critical Bolting

AcraDyne's Nutrunners are designed with ultimate operator safety in mind. The optional dual-lever design helps prevent:



**⚠ Injuries from Accidental Tool Start**

Two-hand operation with no tie-down feature requires the operator to use both hands on the trigger simultaneously. This eliminates the possibility of accidental tool start and keeps both of the operator's hands out of harm's way.

**⚠ Strain Caused by Awkward Tool Operation**

Multiple handle styles ensure the safest, most ergonomic tool for your specific application.

**⚠ Hand and Finger Trauma**

Significantly reduce the risk of crushed or mutilated fingers from unintended tool start.

### HT 360° Swivel Gearcase Dual-Lever Tools

Dual Lever Model	Approx. Torque		Approx. Speed RPM	Weight		Length (incl sq. dr)		Dia.		Drive IN	Sound Level dB(A)
	NM	FT-LB		KG	LB	MM	IN	MM	IN		
HT Series 360° Swivel Gearcase: Dual-Lever Models For Straight Type Tools Only: (L) = Left-Side Handle (R) = Right-Side Handle											
<b>6000 Series</b>											
AE (P)(F)4B66250BDL AE (S)4B66250BDL(L)(R)	250	185	315	4.6	10.5	P = 353 13.9 F = 369 14.5 S = 630 24.8	67.3	2.7	0.75	66	
AE (F)4B66425BDL AE (S)4B66425BDL(L)(R)	425	315	165	4.6	10.5						
AE (F)4B66625BDL AE (S)4B66625BDL(L)(R)	625	460	106	4.8	10.5						
AE (F)4B66925BDL AE (S)4B66925BDL(L)(R)	925	682	72	4.8	10.5						
<b>7000 Series</b>											
AE (P)(F)4B771000BDL AE (D)4B771000BDL(L) AE (S)4B771000BDL(L)(R)	1,000	738	65	6.6	14.5	P = 361 14.2 F = 343 13.5 D = 438 17.2 S = 492 19.4	77.5	3.1	1	66	
AE (D)4B771800BDL(L)	1,800	1,328	28	7.5	16.5	475 18.7	77.5	3.1	1	66	
AE (P)(F)4B772500BDL AE (D)4B772500BDL(L) AE (S)4B772500BDL(L)(R)	2,500	1,844	25	7.5	16.5	P = 398 15.7 F = 379 14.9 D = 475 18.7 S = 528 20.8	77.5	3.1	1	66	
<b>8000 Series</b>											
AE (P)(F)4B896500BDL	6,500	4,800	5	16.4	36	P = 475 18.7 F = 499 19.7	104	4.1	1.5	66	
AE (J)4B898100BDL*	8,100	6,000	5	16.4	36	499 19.7	104	4.1	1.5	66	

\* 8,100 Nm - 17,000 Nm models are not supported by the Gen III controller platform. The Gen IV controller platform is required.



# EXTREME DUTY

## Extreme Duty Dual-Lever Nutrunners

Full-Strength Tools for Big Jobs

5,000 – 17,000 Nm Torque Range

- Measures traceable, dynamic torque directly at the square drive, and the built-in transducer ensures accurate torque values. The torque reported is the torque delivered
- Available in J handle and Pistol handle configurations
- Extreme Duty engineering with motors rated for bolting applications near continuous duty
- Dual J-Handle models have additional safety features: Operators must use both hands on the trigger simultaneously, eliminating the possibility of accidental tool start and keeping both of the operator's hands out of harm's way
- Wide range of tightening strategies available including Torque Control, Torque plus Angle, Angle Control, and Yield Control



### HT 360° Swivel Gearcase Bolting Tools for Extreme Duty

Model	Series	Approx. Torque		Approx. Speed RPM	Weight *		Length (incl sq. dr)		Dia.		Drive IN	Sound Level dB(A)
		NM	FT-LB		KG	LB	MM	IN	MM	IN		
AEJ = J Handle/Axial Type    AEP = Pistol Type    AEF = Fixtured Type												
Single-Handle Models Standard. Add "DL" to Model Numbers for Dual Handles (AEJ models only)												
Fixed Gearcase												
AEF4A996500B	9000	6,500	4,800	5.8	19	42	494	19.5	104	4.1	1.5	66
360° Swivel Gearcase												
AEP4W998100B	9000	8,100	6,000	2.3	21.8	48	544	21.4	104	4.1	1.5	66
AEJ4W998100B	9000	8,100	6,000	2.3	21.8	48	544	21.4	104	4.1	1.5	66
AEJ4U998100BDL	9000	8,100	6,000	2.3	21.8	48	427	16.8	104	4.1	1.5	66
AEP4W9X12000B	9X	12,000	8,850	2	31.8	70	572	22.5	131	5.2	1.5	66
AEJ4W9X12000B	9X	12,000	8,850	2	31.8	70	572	22.5	131	5.2	1.5	66
AEJ4U9X12000BDL	9X	12,000	8,850	2	31.8	70	441	17.4	131	5.2	1.5	66
AEP4W9Y17000B	9Y	17,000	12,500	1	42.6	94	381	15	153	6.0	2.5	66
AEJ4W9Y17000B	9Y	17,000	12,500	1	42.6	94	381	15	153	6.0	2.5	66
AEJ4U9Y17000BDL	9Y	17,000	12,500	1	42.6	94	458	18	153	6.0	2.5	66

\* Weight is tool only w/o Socket and Reaction Bar



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