

# ***BEYOND TOOLS***



*Innovating Total Application Solutions*



**KEYSTONE**  
ASSEMBLY SOLUTIONS, LLC



# Fully Customized Solutions for Any Application



## 1000 Series Tools

1 – 22 Nm



AEG4C12022B-LA.001  
Lockheed Martin



AEG4A12025B-KH  
Honda

## 2000 Series Tools

3 – 55 Nm



AEG32025C-KK.001  
Nissan



AES3A22025A with crowfoot



AEG32030C-KT.001  
Nissan



Mid-Exit Tool  
AEN4D22035AMFS1  
Honda



Mid-Exit Tool  
AEG4A22030BM-KBQ0  
Honda





# Fully Customized Solutions for Any Application

3000 Series Tools

10 – 600 Nm



AEG33090C-KA.001  
Nissan



AEN33120C.6E.001



AEN33090C.001  
Lockheed Martin



AEN33053C.001  
TRW



AEN33120C.001  
Caterpillar



AEN33060C.001  
AGCO



AEG33300C.4E-KQ.001  
Nissan



AEG33210C-KX.001  
Nissan

5000 Series Tools

20 – 635 Nm



AEG356900AG.001  
Vestas



AEG35350AV-KU.001  
John Deere



AEG35125B-KV.00  
Honda



# Fully Customized Solutions for Any Application

High Torque Series

250 – 17,000 Nm



AEN3572600A-NF.DIY  
Deere-Hitachi



AEJ48898100B.001  
Siemens



AEN3571000A-NB.AAM  
Caterpillar



AEJ4A771200A-NE.AAJ  
John Deere



AEN357750A-NJ.001  
John Deere



AEF4A771200A-NE.DBW  
John Deere



AAH1BK76500A-2.  
CHBA  
Paccar



AEF4A77750AB-NG.AAJ  
John Deere



AES4A771900B-LF.001  
John Deere



AEF4A772500AB-NF.J  
John Deere



Hold & Drive  
AEF4A898100B.DL  
Safran  
Aircraft engine assembly



# Fully Customized Solutions for Any Application

Signature Series 1 – 120 Nm



SPC-W221-670-KZ.001  
Tesla



SPC-W221-670-KZ.001  
Tesla

Uryu



UL-6C(076T2)  
Vazeli Group



UL-70S with OHO 3670 crowfoot  
Honda

John Deere





# Rugged Systems for Challenging Environments

## HTXD Extreme Duty Tools

AEN4N9X12000B



AEP4W9Y17000B



AEP4P22030AVU







## Custom Designs for Hard-to-Reach Applications

AEN3572000AGDL.001



AEP4P22030AVU



Mid-Exit Tool

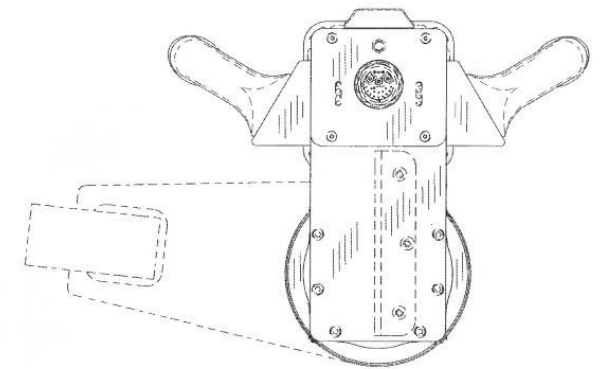
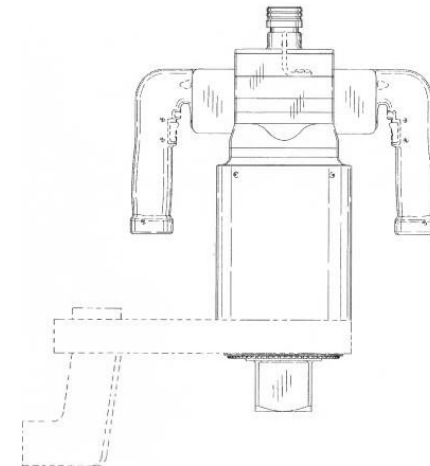


AEN4B773000B

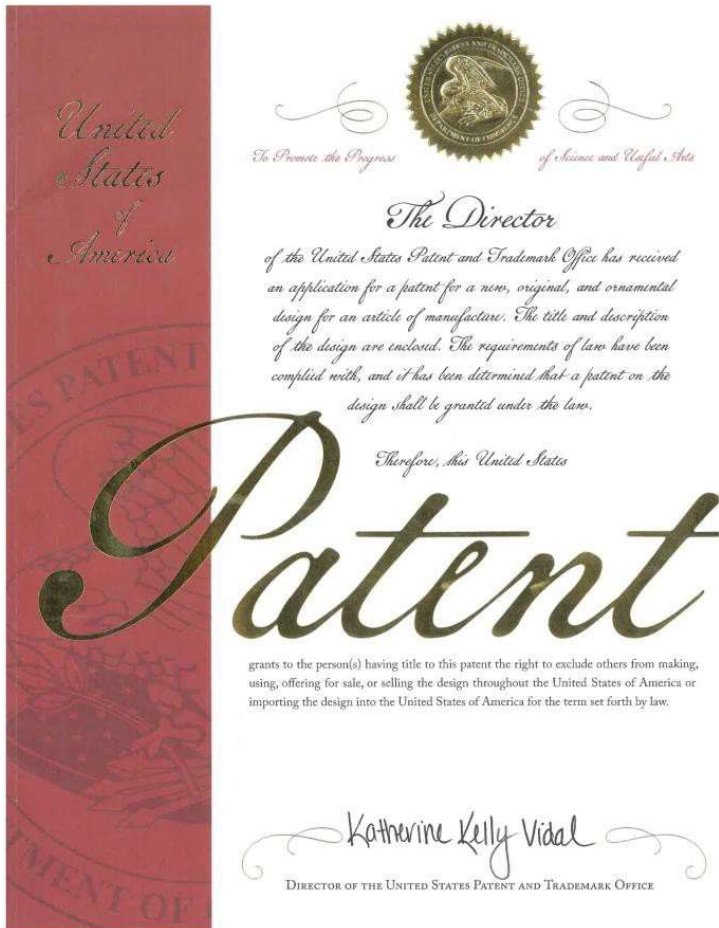
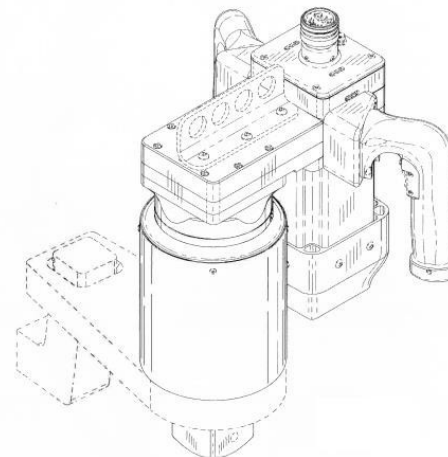




# Groundbreaking Patented Design



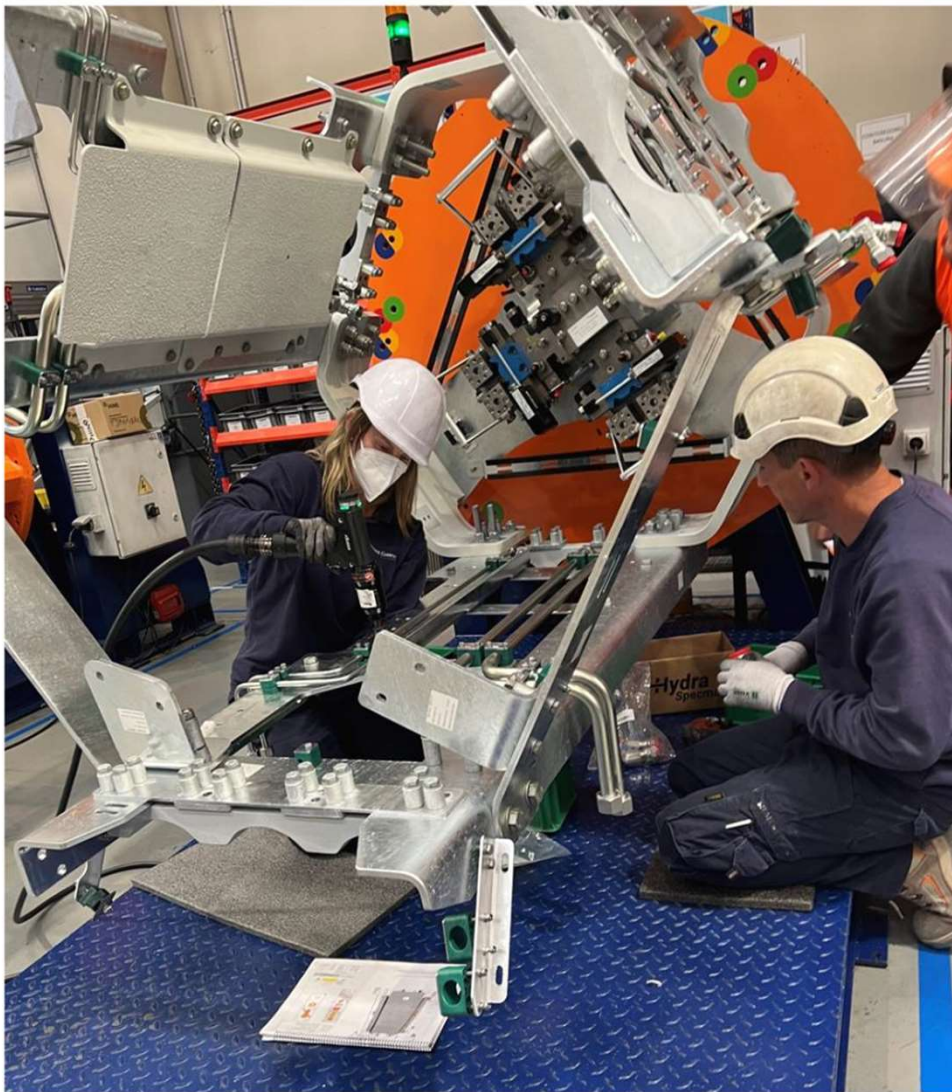
U.S. Patent No. D968491







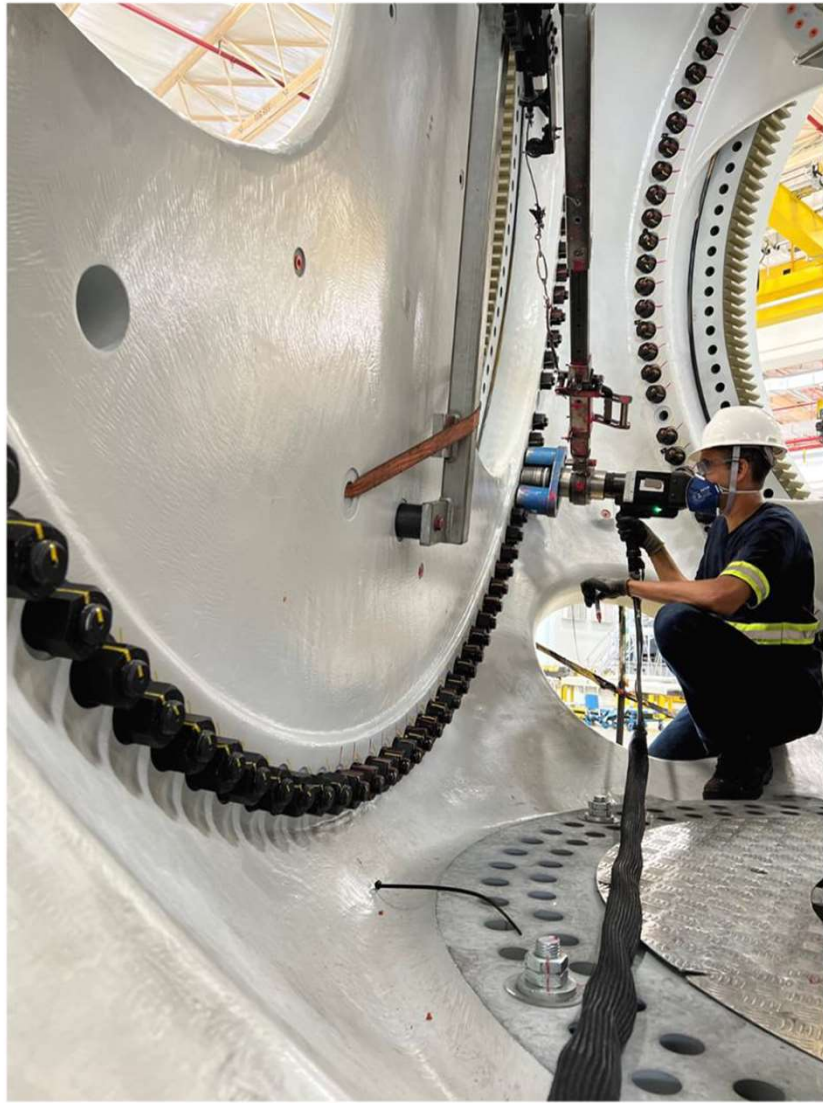
## Quality Solutions from the Factory Floor to the Field







## Quality Solutions from the Factory Floor to the Field







## Quality Solutions from the Factory Floor to the Field







## AcraDyne: Proudly Designed and Assembled in the USA





# Evolving to Meet the Needs of the Renewable Energy Sector



Home / Hydrogen Market News / Industrial / Green Hydrogen Systems to supply 1MW electrolyzers to the UK

## Green Hydrogen Systems to supply 1MW electrolyzers to the UK

There is a growing trend towards hydrogen-powered generators, especially in the construction industry.



Ethan Mandel X 16 April 2021





# Comprehensive Tooling Solutions for Diverse Applications







# Comprehensive Tooling Solutions for Diverse Applications



## PRODUCT GROUPS

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CONTROLLED TOOLS	POWER TOOLS PNEUMATIC	POWER TOOLS ELECTRIC	TORQUE MEASUREMENT	TOOL SUPPORT	FASTENER TOOLS
 GEN IV Controller  DC Pistol  DC Angle  DC Inline  DC High Torque  U.S. Patent D968431  Discontinuous Drive <b>Transducerized</b>  Pneumatic Pulse  Electric Pulse  Oil Pulse Battery  Continuous Battery  High Torque	 Pistol Screwdriver  Inline Screwdriver  Open-End Tubenut  Angle Nutrunner  Pulse  High Torque  High-Speed Series <b>CUSTOM ENGINEERED SYSTEMS</b> 	 Electric Screwdrivers <b>POWER TOOLS BATTERY</b>  Continuous  Discontinuous  Discontinuous  Discontinuous	 Testers  Data Analyzers  Test Stands  Torque Wrenches  Transducers  Joint Simulators  Torque Carts	 Air Line & Accessories  Spring Balancer  FRL  ERGO Arms  Torque Tubes  Torque Arms	 Bits  Sockets  Extensions  Mag-O-Nets <b>PERQ Advantages</b> <div style="display: flex; flex-direction: column;"> <div>  <p><b>PRODUCTIVITY</b></p> </div> <div>  <p><b>ERGONOMICS</b></p> </div> <div>  <p><b>RELIABILITY</b></p> </div> <div>  <p><b>QUALITY</b></p> </div> </div>





# Comprehensive Tooling Solutions for Diverse Applications

















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DC				BATTERY		CUSTOM ENGINEERED SYSTEMS
Continuous				Discontinuous		
<p style="text-align: center; background-color: black; color: white; margin: 0;"><b>PISTOL</b></p>  <p style="text-align: center; font-size: small;">Top Exit Cable</p>  <p style="text-align: center; font-size: small;">Rear Exit Cable</p>  <p style="text-align: center; font-size: small;">Bottom Exit Cable</p>	<p style="text-align: center; background-color: black; color: white; margin: 0;"><b>ANGLE</b></p>  <p style="text-align: center; font-size: small;">AEN Series</p>    <p style="text-align: center; font-size: small;">AEH Hold and Drive Series</p>	<p style="text-align: center; background-color: black; color: white; margin: 0;"><b>INLINE</b></p>  <p style="text-align: center; font-size: small;">AES Series</p>  <p style="text-align: center; font-size: small;">Fixed AEF Series</p>  <p style="text-align: center; font-size: small;">Push-to-Start AEL Series</p>  <p style="text-align: center; font-size: small;">Tubenut AET Series</p>	<p style="text-align: center; background-color: black; color: white; margin: 0;"><b>HT</b></p>  <p style="text-align: center; font-size: small;">Pistol AEP Series</p>  <p style="text-align: center; font-size: small;">Rear Mounted Pistol AED Series</p>  <p style="text-align: center; font-size: small;">Axial AEJ Series</p>  <p style="text-align: center; font-size: small;">Fixed AEF Series</p>  <p style="text-align: center; font-size: small;">Straight Lever AES Series</p>  <p style="text-align: center; font-size: small;">Angle AEN Series</p>  <p style="text-align: center; font-size: small;">Dual Lever Series</p>  <p style="text-align: center; font-size: small;">AES Type</p>  <p style="text-align: center; font-size: small;">AEJ Type</p> <p style="text-align: center; font-size: x-small;">U.S. Patent 7,968,481 <b>AcraDyne HTx0</b></p>	<p style="text-align: center; background-color: black; color: white; margin: 0;"><b>Pistol</b></p>  <p style="text-align: center; font-size: small;">AcraDrive AEP4P Series</p>  <p style="text-align: center; font-size: small;">AcraDrive Pistol</p>	<p style="text-align: center; background-color: black; color: white; margin: 0;"><b>Continuous</b></p>  <p style="text-align: center; font-size: small;">Transducerized</p>  <p style="text-align: center; font-size: small;">High Torque</p>  <p style="text-align: center; font-size: small;">AcraDyne UL7000</p>  <p style="text-align: center; font-size: small;">AIMCO XT SERIES</p>	    
<p style="text-align: center; background-color: black; color: white; margin: 0;"><b>CONTROLLERS</b></p> <div style="display: flex; justify-content: space-around; align-items: center;">  <p style="font-size: x-small;">Gen IV Controller</p>  <p style="font-size: x-small;">Gen IV Field Controller</p>  </div>					<p style="text-align: center; background-color: black; color: white; margin: 0;"><b>SPECIALS</b></p>  <p style="text-align: center; font-size: small;">AEG Series</p>  <p style="text-align: center; font-size: small;">AEN Series</p>  <p style="text-align: center; font-size: small;">Mid-Exit</p>  <p style="text-align: center; font-size: small;">High Torque Series</p>  	

**PERQ**  
Advantages



**PRODUCTIVITY**  
Speed and efficiency of the assembly process



**ERGONOMICS**  
Relationship between the worker and the assembly process



**RELIABILITY**  
Reduced cost of repairing and maintaining the tools in the assembly process



**QUALITY**  
The ability of the tool to meet engineering requirements of the assembly process



# Leading the Global DC Nutrunner Landscape

0 – 100 Nm	100 – 500 Nm	500 – 1,000 Nm	1,000 – 5,000 Nm	5,000 – 10,000 Nm	10,000 – 15,000+ Nm	15,000+ Nm
AcraDyne	AcraDyne	AcraDyne	AcraDyne	AcraDyne	AcraDyne	AcraDyne
Atlas Copco	Atlas Copco	Atlas Copco	Atlas Copco			
Apex Cleco	Apex Cleco	Apex Cleco				
Stanley	Stanley	Stanley				
Desoutter	Desoutter	Desoutter				
Estic	Estic					
AMT						
Bosch						
DDK						
Giken						
IR						
Sanyo						

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- 1 Common Controller for all Transducerized Tools, available in Production and Portable Configurations
- Program up to 256 Parameters
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