

Recognizing Innovation

By Mike Larson

The Leadership in Lifting Equipment and Aerial Platforms (LLEAP) Awards presented by *Lift and Access* recognize innovative products that have advanced the state of the lifting and access industry.

Now in their 11th year, the LLEAP Awards continue to bring well-deserved recognition to new products that raise the industry's performance and improve safety.

The LLEAP competition considers five categories of entries:

- Aerial lifts, such as self-propelled boom or scissor lifts, push-around lifts, and trailer- or truck-mounted aerials
- Material handlers, such as rough-terrain, telescopic-boom, and vertical-mast forklifts
- Cranes, including all mobile cranes to 150-ton capacity used in construction and material handling, such as rough-terrain cranes, all-terrain cranes, boom trucks, telescopic crawler cranes, lattice-boom crawler cranes, and self-erectors
- OEM-developed features and essential components for OEMs, such as engines, controls, telematics, secondary guarding systems, and proprietary controls
- Aftermarket support products or services, such as tires, outrigger pads, camera systems, radio remote controls, rigging gear, and equipment accessories

To be considered in the 2016 LLEAP competition, a new product, major product improvement, or accessory must have been available in North America and introduced or delivered to the market between June 1, 2015, and May 31, 2016.

Expert evaluation of the LLEAP entries came from a panel of judges who work in rental companies, general contractors, equipment sales, safety, and consulting, as well editors from *Lift and Access*, *Crane Hot Line*, and *Lift & Hoist International*.

The judges evaluated entries based on product literature, photos, videos, technical drawings, and customer testimonials provided by the entrants. They did not operate the equipment or use the products in order to rate them, though some judges may have had experience with entered products outside of the competition.

Each judge rated products based on innovative features and technology, perceived value, productivity, and overall benefit to the industry, with the highest total score being 40. Descriptions of the two top-ranked products in each of the five LLEAP product categories appear below.

LLEAP 2016 Finalists and Results

COMPANY	PRODUCT	SCORE	AWARD	WEBSITE
AERIAL LIFTS				
BlueLift (ReachMaster)	B85 Compact Tracked Lift	31.1	Finalist	www.reachmaster.com
Elliott	E 190 E-Line Aerial Lift	33.3	Silver	www.elliottequip.com
Genie	Z-60/37 DC & FE Articulating Boom Lift	33.0	Finalist	www.genielift.com
JLG	830P Push-Around Lift	30.4	Finalist	www.jlg.com
JLG	1500 AJP Articulating Boom Lift	34.3	Gold	www.jlg.com
JLG	1932R Electric Scissor Lift	29.1	Finalist	www.jlg.com
JLG	EcoLift Series Manual Lifts	32.6	Finalist	www.jlg.com
JLG	X770AJ Compact Tracked Lift	31.5	Finalist	www.jlg.com
Skyjack	SJ 30 AJ Articulating Boom Lift	31.9	Finalist	www.skyjack.com
Skyjack	4740 E Electric Scissor Lift	30.8	Finalist	www.skyjack.com
MATERIAL HANDLERS				
Caterpillar	TL642D Telehandler	32.0	Finalist	www.cat.com
Magni	RTH Rotating Telehandlers	33.0	Silver	www.paramountth.com
Manitou	MHT 10230 Telehandler	32.8	Finalist	www.manitou.com
Manitou	MLT 1040 Telehandler	31.3	Finalist	www.manitou.com
Skyjack	TH Series Telehandlers	34.5	Gold	www.skyjack.com
CRANES				
Grove	GRT8100 Rough-Terrain Crane	33.0	Gold	www.manitowoccranes.com
Link-Belt	HTC-86110 Hydraulic Truck Crane	32.0	Finalist	www.link-belt.com
San Marco (Bigfoot Crane)	SMH-22E Self-Erecting Crane	30.2	Finalist	www.bigfootcrane.com
Tadano Mantis	GTC-800 Telescopic-Boom Crawler Crane	31.7	Finalist	www.tadanomantis.com
Vicario (Creative Lifting Services)	V1989 Self-Erecting Crane	32.8	Silver	www.creativelifting.com
Zero Emissions Equipment	ZeeCrane Battery-Powered Industrial Crane	32.2	Finalist	www.zeeocrane.com
OEM-DEVELOPED FEATURES/ESSENTIAL COMPONENTS FOR OEMS				
Kohler	Command Pro Three-Fuel Engine	33.6	Finalist	www.kohlerengines.com
Kubota	WG Spark-Ignited Engines	33.8	Silver	www.kubotaengine.com
Manitex	New Cab and Controls	32.2	Finalist	www.manitex.com
MEC	Proactive Platform Safety System (PPSS)	34.2	Gold	www.mecawp.com
Prinoth	Panther T16 Tracked Carrier with Rapid Attachment	31.8	Finalist	www.prinoth.com
Terex Utilities	Load Alert System	33.2	Finalist	www.terex.com/utilities
AFTERMARKET SUPPORT PRODUCTS & SERVICES				
Bailey Specialty Cranes & Aerials	Collision Avoidance System	32.8	Gold	www.baileycrane.com
Int'l Powered Access Federation	eLearning System	31.7	Finalist	www.ipaf.org
Navis (Bigfoot Crane)	WSM 410 Anemometer	32.5	Silver	www.bigfootcrane.com
RWCI	New Evaluation System for Refurbishing	30.5	Finalist	www.rwciinc.com

Aftermarket Support Products & Services



Bailey Collision-Avoidance System **Gold Award**

Bailey Specialty Cranes & Aerials, Muskego, Wis., has introduced its laser-controlled collision-avoidance systems for boom and scissor lifts. The product's key features include protection fields that adjust as the lift extends and retracts, ruggedness that

meets the IP67 outdoor protection standard, availability for all brands of lifts, adjustable protection fields, and the ability to be installed in the field.

The core component consists of a laser array field scanner that can be programmed to scan a specific area, then sound an alarm or stop machine operation when anything enters the protected area.

It is similar to the new detection and collision-avoidance systems offered by automotive manufacturers to envelop a car or truck.

The single-scanner basic system can scan up to 270° and protect one or two sides of a lift. It can be installed in the field. The basic system can also include a scanning area that reaches above the operator's head and warns or stops operation before contact.

More advanced systems include (laser or string pot) position sensors that measure the platform's height and deck extension. Those positions are used to adjust the scanning fields to cover the full extending scissor stack or extending deck.

Systems are also available for telescoping-boom cranes, forklifts, and baggage handlers. Primary applications to date have been in aircraft/aerospace, but are now simplified and kitted for more general industrial and construction use.

Judges' Comments

- Provides protection without infringing on the work area or access to controls.
- In-field retrofit to existing lifts is a nice capability.

Navis WSM 410 Anemometer **Silver Award**

The Navis WSM W410XM/BAT is an all-in-one sensor that mounts magnetically to an aerial lift, crane, or other equipment in seconds and delivers real-time readouts of wind speed and temperature via a free app for smartphones and tablets.

Technically-advanced and precision-engineered, the Navis WSM W410XM/BAT takes safety to the next level and is geared for multiple applications.

It's particularly useful in industries that require immediate and ongoing monitoring of wind speed and temperature. The ability for others to access that information without requiring equipment downtime has a direct and immediate impact on project resources and budgets.

The Navis system saves time by



providing immediate access to those who need to know wind information, and it saves money by helping to improve management of resources and equipment.

The Navis WSM W410XM/BAT features long-range technology that sends signals up to 4,625 ft., offering coverage across even large worksites.

The readout boasts a highly-visible bar graph that shows peak wind speed every two minutes, as well as an eight-hour wind speed and alarm history graph. To further ensure safety of site personnel, the Navis WSM W410XM/BAT comes with pre-alarm warning lights and a sound alarm.

With its moderate price, the Navis WSM W410XM/BAT is an affordable wind-speed monitoring system that's both having a direct impact on workplace safety and changing how projects are managed.

Judges' Comments

- Great idea. Really embraces multi-function devices and is easy to use.
- Nice design. Magnetic attachment is quick and easy.