NEWS RELEASE

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AIDA ENGINEERING, LTD.
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AIDA's "DPH Series Dedicated Former for Rectangular Storage Battery Cases" Receives the Nikkan Kogyo Shimbun's "2025 Ten Greatest New Products Award"

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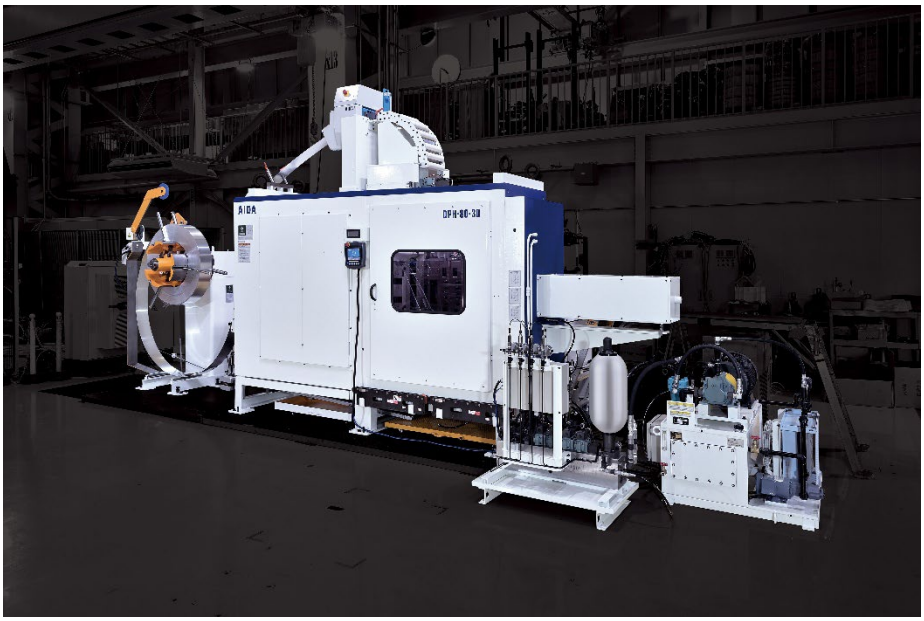
This is to announce that the "DPH Series Dedicated Former for Rectangular Storage Battery Cases" developed by AIDA was awarded the 68th Annual "2025 Ten Greatest New Products Award" by the Nikkan Kogyo Shimbun.

[Product Overview]
Storage batteries are essential for utilizing renewable energy sources and are critical products for achieving carbon neutrality. The "DPH Series Dedicated Former for Rectangular Storage Battery Cases" was developed by leveraging AIDA's amassed metalforming technology expertise to deliver a new option for battery case forming systems. This unique multi-step "assisted draw-forming" can significantly reduce the number of forming stages compared to conventional press metalforming methodologies, enabling the entire forming process--from blanking through product ejection--to be completed in a single stroke. Along with its compact size and excellent energy efficiency, it also delivers "environmental performance" by significantly reducing metalworking lubricant amounts and electricity usage. With its integrated shimmy trimming machine, product height trimming can be completed in a single step that reduces uneven edges compared to conventional methods.

Click here for details: Announcement of the Product Launch of the AIDA DPH Former--A Dedicated Forming Machine for Rectangular Battery Cases Used in Storage Batteries (News Release)



DPH Series Dedicated Former for Rectangular Storage Battery Cases

[Reasons for the Award]

The following points were favorably evaluated when this was awarded. (Excerpted from judges' comments.)

- This proprietary technology reduces the total number of forming stages by 45% compared to conventional (press metalforming) methodologies that involved multiple vertical draw-forming stages. And this innovative and novel methodology offers significant advantages, including a smaller installation footprint, a lower machine weight, lower power consumption, and a lower environmental impact.
- The deep draw-forming that conventionally required 3~7 stages has been consolidated into just a single stage. This "assisted draw-forming" methodology improves the forming threshold by applying compressive stress on the blank. This is done by using an 'assist punch' to push against the edges of the blank from a direction that is perpendicular to the motion of the draw-forming punch.
- The development of a shimmy trimming method for post-forming edge-finishing that leverages servo motor motion.
- The development of a single-stroke horizontal forming mechanism using the assisted draw-forming methodology has resulted in remarkable achievements, including a 75% reduction in the number of die parts, a 92% reduction in machine weight, a 50% reduction in metalworking lubricants, a 70% reduction in power consumption, and a 62% reduction in the installation footprint.
- Though current demand for storage batteries is heavily concentrated in automotive applications, it is clear that consumer demand will expand in the future, so there is significant market growth potential.

(Note): This award was first established by the Nikkan Kogyo Shimbun (Japan Business & Technology Daily News) in 1958 for the purpose of encouraging the development of superior new products and spurring even higher technological advances in Japanese industry. After an exacting selection process among all the new products introduced to the marketplace, this award is awarded to 10 new products, and it is currently considered to be the most prestigious of all such awards.

We will continue to strive to develop environmentally friendly technologies and to further improve our Customer Service.

< Inquiries Relating to This Subject >

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