

RoboHelix Unveils the RX500: A New Era in Helical Flight Forming

The RX500 is a cutting-edge robotic flight-forming machine, revolutionizing precision and efficiency in screw auger production worldwide.

SYDNEY, AUSTRALIA, March 19, 2025 /EINPresswire.com/ -- RoboHelix, a trailblazer in robotic helical flight-forming technology, proudly announces the launch of its latest innovation, the RX500 model. This cutting-edge machine redefines efficiency, precision, and versatility in screw auger manufacturing, empowering industries from agriculture to renewable energy with unparalleled automation.



RoboHelix Machine

A Legacy of Innovation



Our RX series revolutionizes helical flight forming, empowering manufacturers to produce high-performance components with superior quality and cost efficiency."

*Hayel Smair, CEO at
RoboHelix*

Since its establishment in 2015, RoboHelix has been at the forefront of transforming the helical flight-forming landscape. The company's commitment to research and development has led to groundbreaking solutions that enhance productivity and product quality for clients worldwide. The RX500 model builds upon this legacy, offering advanced features tailored to meet the evolving needs of various industries.

Introducing the RX500 Model

The RX500 is designed to address the challenges faced by manufacturers in producing larger and more complex

helical flights. With its robust construction and state-of-the-art technology, the RX500 ensures unparalleled accuracy and efficiency, making it an indispensable asset for a wide range of industries.

Key Features and Benefits

8-Axis Robotic Advanced Automation:

The RX500 incorporates cutting-edge 8-axis robotics to streamline the flight-forming process, significantly reducing production time and labor costs.

Enhanced Precision: The RX500 utilizes sophisticated control systems to achieve consistent, high-quality outputs, minimize material waste, and ensure product uniformity.

Versatility: Capable of forming a wide range of helical flight sizes and configurations, the RX500 can process materials up to 32mm (1¼ inch)

thick—including stainless steel and high-strength alloys. Additionally, it can form flights with diameters of up to 1500mm and pitches reaching 1700mm. This exceptional versatility enables the RX500 to meet diverse industry requirements, from small-scale operations to large industrial applications.

User-Friendly Interface: Equipped with an intuitive control panel, operators can easily program and monitor production parameters, facilitating seamless integration into existing workflows.

Modular Design: The RX500's modular architecture allows for easy upgrades and customization, enabling manufacturers to adapt to changing production demands without significant overhauls.

HelixNinja® Cloud Integration: [HelixNinja® software](#) seamlessly integrates with RoboHelix machines by generating and transmitting precision flight-forming parameters, enabling automated control, real-time adjustments, and optimized manufacturing efficiency.

Industry Applications

Helical flights are integral components in various machinery and equipment across multiple sectors. The RX500's versatility makes it ideal for applications in:

Agriculture: Manufacturing augers for grain handling and screw conveyors for livestock feed systems.

Construction: Producing screw piles for deep foundation systems, components for concrete mixing equipment, and providing advanced digging solutions for efficient site preparation.

Mining: Creating drilling and excavation augers, as well as material transport conveyors.



Unmatched Precision

Food Processing: Developing screw conveyors for transporting ingredients, mixers for enhanced product consistency, and integrated waste management systems for efficient processing operations.

Renewable Energy: Forming biomass screw feeders and components for wind turbine foundations, as well as supplying advanced helical flight forming technology for environmentally friendly hydroelectric dams and recycling plants.

Commitment to Quality and Innovation

RoboHelix's dedication to excellence is evident in the RX500's development. The machine's design process leveraged advanced 3D modeling and simulation tools, ensuring optimal performance and reliability. This commitment to innovation has solidified RoboHelix's position as the leader in the helical flight-forming industry.

Customer Testimonials

Early adopters of the RX series have reported significant improvements in their manufacturing processes. T.M. from the Czech Republic stated, "The biggest benefit for us is the much higher accuracy in the final geometry of the flights compared to other technologies. Deep dimension measurements, together with 3D scanning, confirmed the tight tolerances achieved by the RX series."

Global Reach

With an attractive Total Cost of Ownership (TCO), RoboHelix serves a diverse clientele across continents. The RX500 is expected to further expand the company's global footprint, offering advanced solutions to manufacturers worldwide.

About RoboHelix

RoboHelix is a Sydney-based pioneer in robotic helical flight-forming systems. Since 2015, the company has enabled manufacturers worldwide to replace outdated, labor-intensive methods with automated precision. Its flagship [RX-series machines](#) and HelixNinja® software are trusted by industry leaders across 23 countries, empowering them to embrace Industry 4.0 with confidence. The company's innovative approach has earned it international patents and recognition as a leader in the field. For more information, visit www.robohelix.com.

RoboHelix Media Relations

RoboHelix Pty Ltd
media@robohelix.com

Visit us on social media:

[Facebook](#)

[X](#)

[LinkedIn](#)

[YouTube](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/795079532>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.