bodor

Bodor N SERIES

Three-Chuck Zero-Trim Tube Laser Cutting Machine

PROFESSIONAL MODEL

X-LAS

POWER ASSEMBLED TRIPLE-CHUCK RENEWED

Combining industry-leading features, processes, and technologies,
the N Series represents the pinnacle of triple-chuck tube processing, setting a new industry benchmark.

T-Type Heavy-Duty Side-Mounted Bed

The T-shaped high-strength steel bed provides a solid and stable structure. Its low-center-of-gravity design improves stability by 28% and rigidity by 32%, effectively reducing machining vibrations and ensuring stable processing.

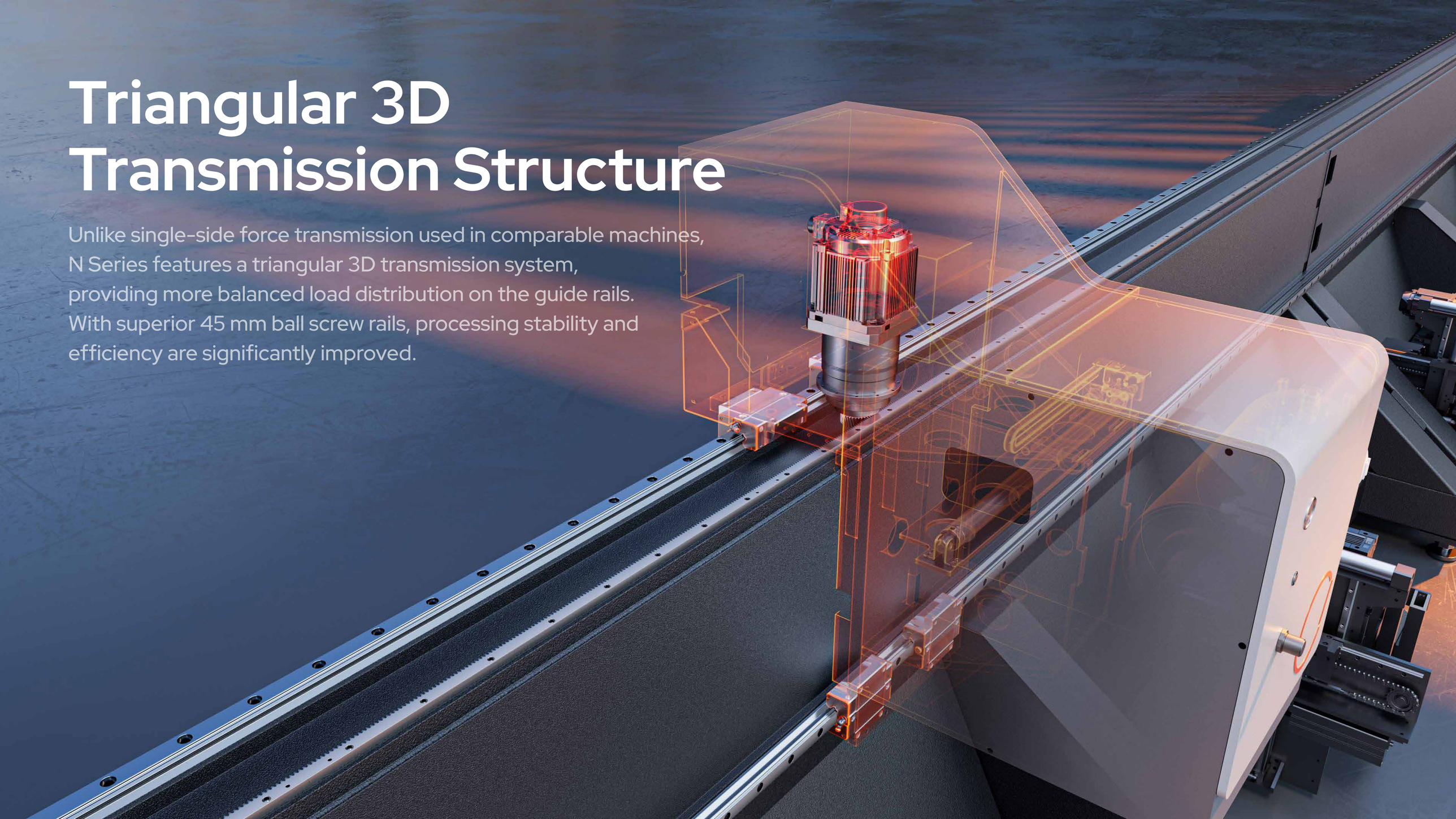
28%
Enhanced Stability

32%
Improved Structural Rigidity

20000W
Max. Cutting Power

Triangular 3D Transmission Structure

Unlike single-side force transmission used in comparable machines, N Series features a triangular 3D transmission system, providing more balanced load distribution on the guide rails. With superior 45 mm ball screw rails, processing stability and efficiency are significantly improved.



Square-Hole Precision Chuck

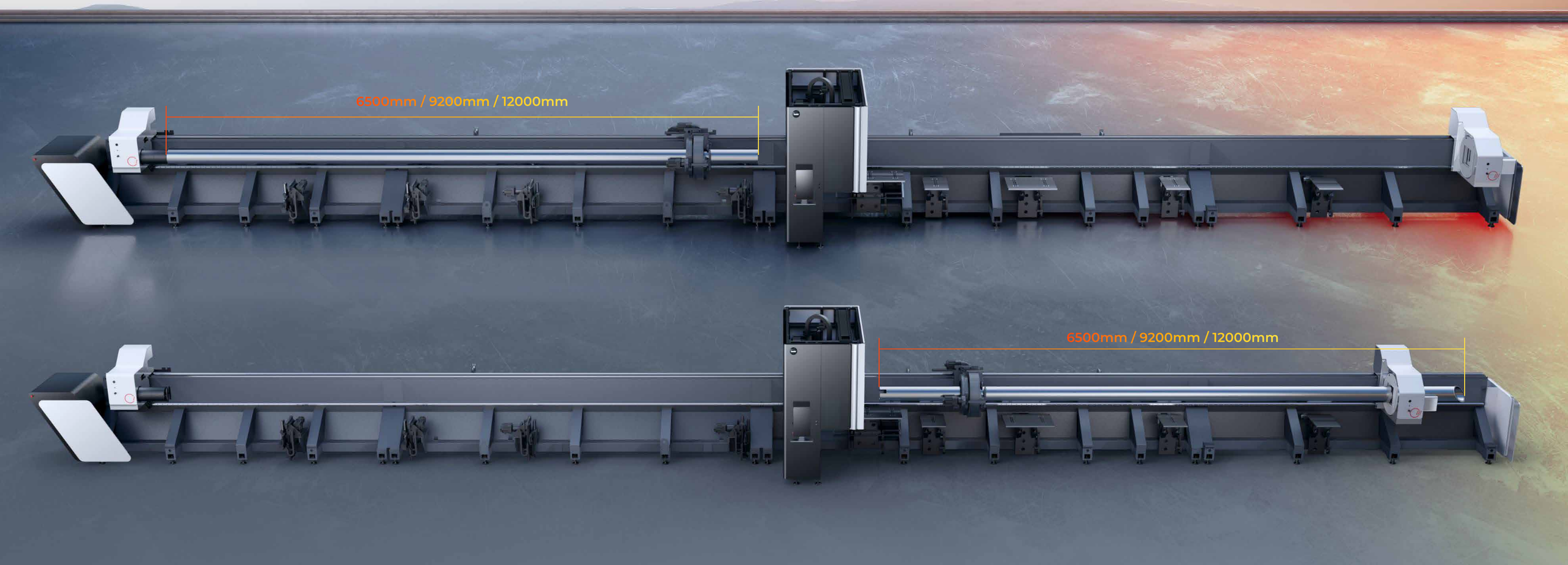
Standard high-precision full-stroke square-hole chuck adapts to various tube sizes, improving multi-tube processing efficiency. Synchronized rollers ensure accurate clamping and high repeatability for consistently stable cutting quality. Enclosed dust-proof design extends chuck life and reduces maintenance.

Zero Scrap
Maximum Savings

The fully mobile three-chuck design allows two chucks to pair and operate intelligently, achieving zero-waste tube processing and maximizing material savings.

Full-Tube Cutting
Effortless Precision

After the first and second chucks perform forward cutting, the second and third chucks continue to handle the tube for reverse cutting, enabling full-length tube loading, cutting, and unloading. Smooth and continuous operation ensures efficient processing from start to finish.



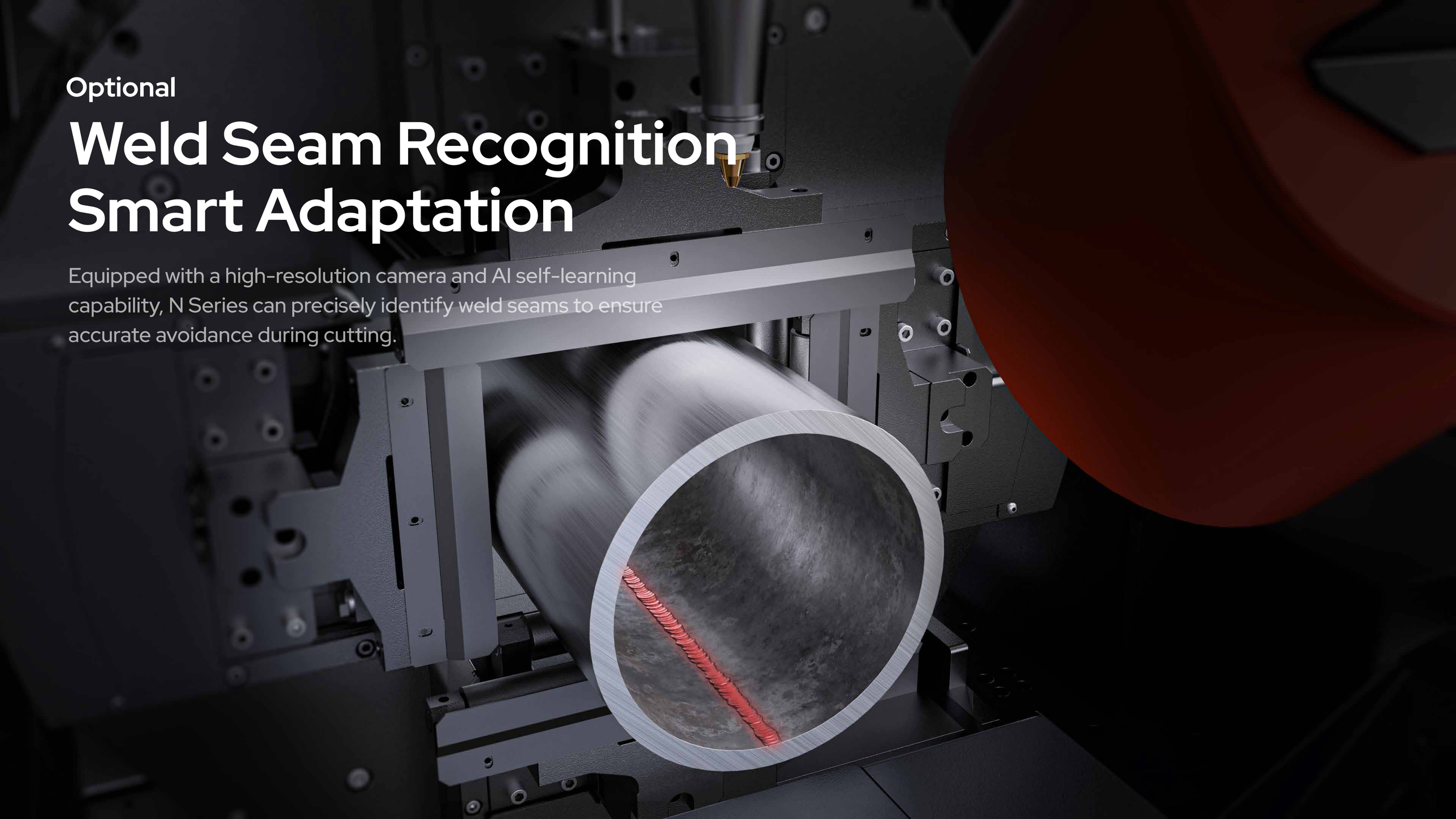
Dual Support
Double Efficiency

The loading area features synchronized roller supports to assist centering and support heavy tube loading.The unloading area uses synchronized plate supports to ensure flexible and stable handling of workpieces of different lengths. Equipped with a 2.9 kW high-performance servo motor — superior to similar models — heavy tube support is effortless.

Optional

Weld Seam Recognition Smart Adaptation

Equipped with a high-resolution camera and AI self-learning capability, N Series can precisely identify weld seams to ensure accurate avoidance during cutting.



Optional

Bevel Cutting Ready to Weld

With the N Series, no secondary grinding is needed after bevel cutting — welding starts right away, saving time and labor.

Optional

Assisted Loading Greater Flexibility

The N Series supports high-speed automatic loading with flexible tube quantity and size options. It streamlines processing, reduces manual handling, and boosts productivity in heavy-tube mass production.

N Series Parameters

	N2-Side-Lying Structure	N3-Side-Mounted Structure	N5-Customizable
Tube Size Range	Round Tube:Φ8~Φ230mm ；Square Tube:□8~□230mm Rectangular Tube:8mm≤Side Length≤230mm Angle Steel:2#~14# ；Channel Steel:5#~14#	Round Tube:Φ25~Φ360mm ；Square Tube:□25~□360mm Rectangular Tube:25mm≤Side Length≤360mm Angle Steel:3#~22# ；Channel Steel:5#~22#	Round Tube:Φ25~Φ356mm ；Square Tube:□25~□356mm Rectangular Tube:25mm≤Side Length≤356mm Angle Steel:3#~22# ；Channel Steel:5#~22#
Laser Source Power	3000-6000W	6000-12000W	6000-20000W
Max. Tube Length	6500mm	6500mm/9200mm/12500mm	9200mm/12500mm/15200mm
Max.Unloading Tube Length	3500mm/6500mm	6500mm/9200mm/12000mm	9200mm/12500mm/15200mm
Max. Tube Weight	300kg	1200kg	2000kg
Max. Chuck Rotating Speed	110r/min	60r/min	40r/min
Max. No-Load Moving Speed	110m/min	60m/min	50m/min
Shortest Remaining	No Waste of Materials	No Waste of Materials	No Waste of Materials
Servo-Flipping Unloading	●	●	●
Bevel Cutting	○	○	○
Auxiliary Loading Device	○	○	○

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