SOLUTION

LASER CUTTING

REGIUS 3015 AJ

NEXT LEVEL LASER PROCESSING




AMADA

REGIUS 3015 AJ

NEXT LEVEL LASER PROCESSING

FULL LINEAR DRIVE WITH BEAM CONTROL AND AUTONOMOUS FUNCTIONS

4 TECHNOLOGIES COMBINED INTO ONE ULTRA HIGH SPEED, HIGH ACCURACY LASER

The REGIUS-3015AJ fibre laser cutting machine integrates 3-axis linear drive, AMADA's original Variable Beam Control Technology, the new Laser Integration System (LIS) functions and easy operation.

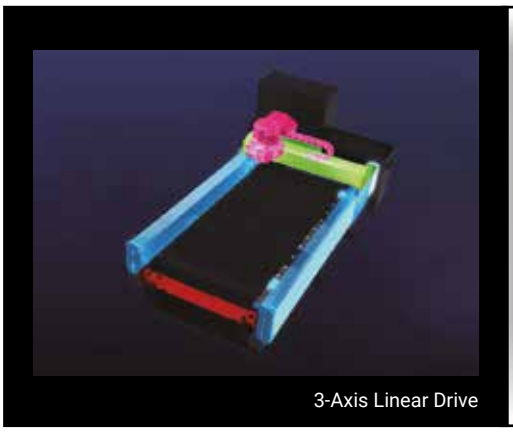
The extremely high speed, precise accuracy of full linear drive technology maximizes machine potential and minimizes downtime. Common processing issues are solved thanks to several autonomous functions such as automatic beam centring and advanced process monitoring, enabling a shift to next level laser processing.

Photograph may include optional equipment

FULL 3-AXIS LINEAR DRIVE

Linear drive technology provides very high point-to-point positioning speeds whilst also retaining the ability to provide very high accuracy, even at these increased speeds. Closed loop feedback ensures the accuracy remains consistent at all times.

The REGIUS-3015AJ also features intelligent head control which further improves the machine productivity by looking ahead to the next profile to be processed and calculating the most efficient motion.



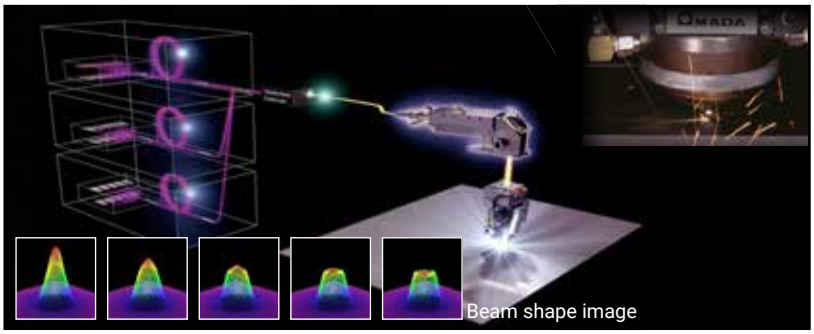
3-Axis Linear Drive

FEATURES OF THE REGIUS

1 PERFECT MATCH

VARIABLE BEAM CONTROL TECHNOLOGY

AMADA's original Variable Beam Control Technology automatically adapts the laser beam mode (not just spot size and focal point) incrementally to perfectly match the material and thickness being processed. The beam mode can also be instantly changed between piercing and cutting to bring the benefit of high speed piercing and increased productivity.



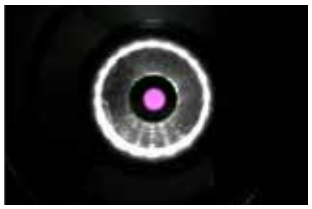
2 HIGH AUTONOMY

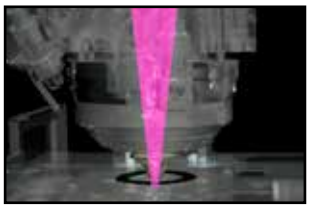
LASER INTEGRATION SYSTEM (LIS)

The new Laser Integration System incorporates several autonomous features to allow the REGIUS to perform at the highest levels of efficiency with minimal operator input, allowing less skilled employees to be utilized.

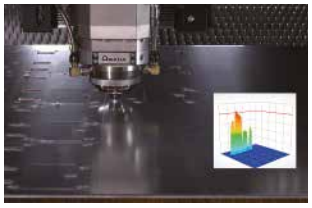
The i-Nozzle Checker has 3 automatic functions: Nozzle condition check, nozzle centring and beam condition check.


Nozzle condition check

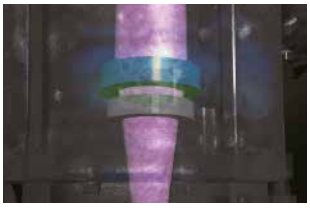

Nozzle centering


Beam condition check

3 other LIS functions are: i-Process Monitor, Automatic Collision Recovery and i-Optics Sensor (protection glass monitoring).


i-Process Monitor


Automatic Collision Recovery


i-Optics Sensor

3 EASY OPERATION

ENHANCED FUNCTIONS

New features of the AMNC 3i Plus control, such as camera based on-screen nesting and screen sharing provide further ease of operation and efficiency.


AMNC 3i Plus control


i-Camera Assisted System


V-remote

DIMENSIONS

REGIUS-3015AJ 6kW
+ shuttle table (LST-E) & AMNC 3i
(L) 10346 x (W) 2990 x (H) 2450

REGIUS-3015AJ 9kW
+ shuttle table (LST-E) & AMNC 3i
(L) 10346 x (W) 2990 x (H) 2750

Unit: mm

MACHINE SPECIFICATIONS

			REGIUS-3015AJ
Numerical Control			AMNC 3i Plus
Controlled axes			X, Y, Z axes (three axes controlled simultaneously) + B axis
Axis travel distance	X x Y x Z	mm	3070 x 1550 x 100
Maximum processing dimensions	X x Y	mm	3070 x 1550
Maximum simultaneous feed rate	X/Y	m/min	340
Repeatable positioning accuracy		mm	± 0.01
Maximum material mass		kg	920
Processing surface height		mm	940
Machine mass		kg	11900 (6kW) / 12000 (9kW)

OSCILLATOR SPECIFICATIONS

			ENSIS-6000	ENSIS-9000
Beam generation			Laser diode-pumped fibre laser	
Maximum power		W	6000	9000
Wavelength		µm	1.08	
Maximum processing thickness*	Mild steel	mm	25	25
	Stainless steel		25	25
	Aluminium		25	25
	Brass		15	18
	Copper		12	12
	Titanium		10	15

* Maximum value depends on material quality and environmental conditions

SHUTTLE TABLE SPECIFICATIONS

		LST-3015E
Max. material dimensions X x Y	mm	3070 x 1550
Number of pallets		2

Specifications, appearance, and equipment are subject to change without notice by reason of improvement.

For your safe use
Be sure to read the user manual carefully before use.
When using this product, appropriate personal protection equipment must be used.

Laser class 1 when operated in accordance to EN 60825-1

The official model name of the machines and units described in this catalogue are non-hyphenated like REGIUS3015AJ. Use this registered model name when you contact the authorities for applying for installation, exporting, or financing.
The hyphenated spellings like REGIUS-3015AJ are used in some portions of the catalogue for sake of readability. This also applies to other machines.

Hazard prevention measures are removed in the photos used in this catalogue.

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