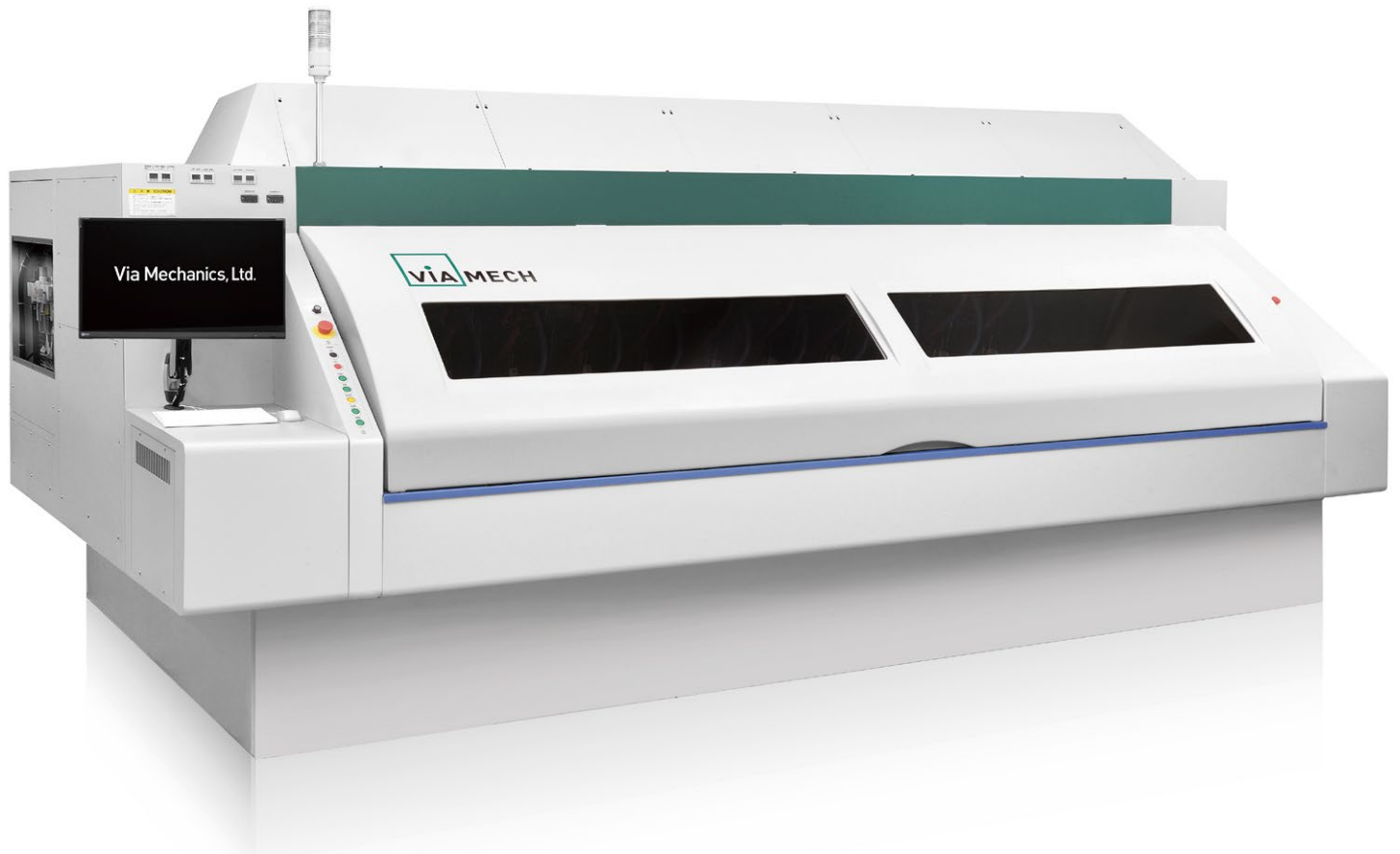


ND-12MA2126/12QA2126

Drilling machine specifically for package substrates that realizes overwhelming productivity through 1-panel/2-spindle simultaneous drilling using 12-heads, the most in the world

High-end machine model equipped with the fastest spindle in the industry that achieves the ultra-high-speed, high-precision drilling of microvia.



ND-12MA2126/12QA2126

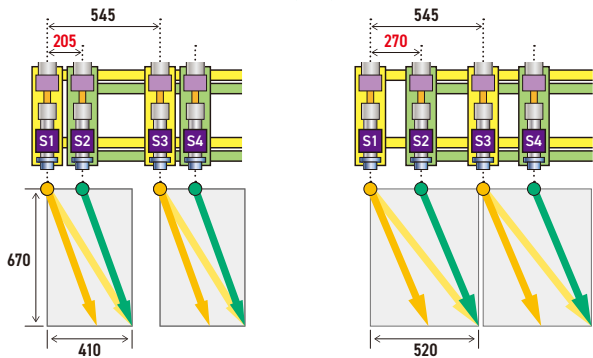
High-Speed, High-Precision 12-heads
Microvia Drilling Machine

The high-end machine meets market demands for further high-performance package substrate productivity.

□ 2-spindle/1-panel drilling

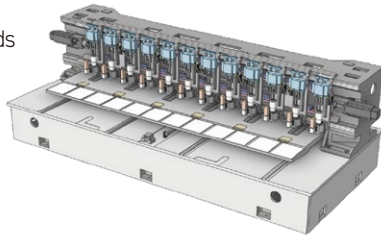
Featuring a 12-heads drilling machine capable of 1-panel/2-spindle simultaneous drilling for increased numbers of holes that accompany higher-density, higher-performance package substrates. Has the production capacity of two 6-stations machines while successfully saving floor space and significantly enhancing area productivity. Furthermore, inter-axle distance on the spindles has been made automatically variable to enable drilling that matches the pattern of individual products.

Minimum Spindle distance: 205mm ←→ Maximum Spindle distance: 270mm



□ High-rigidity construction that accommodates 12-heads

Given uncompromised high-rigidity structure to enable high-speed, high-precision 2-spindle/1-panel drilling. Realizes world-class levels of high-precision positioning even with 12-heads drilling by being paired with a servo system developed by Via Mechanics.



□ Equipped with an ultra-high-speed spindle (350krpm) —the fastest in the world—providing a competitive advantage in the field of microvia drilling

Features a lineup of UH35Z developed with original technology with the industry's fastest speed at 350krpm. These ultra-high-speed spindles achieve high efficiency in drilling microvia. The design, development, manufacturing and repair of the spindles all in-house ensures high reliability. The sales performance of Via Mechanics' ultra-high-speed spindles are top-class in the industry.

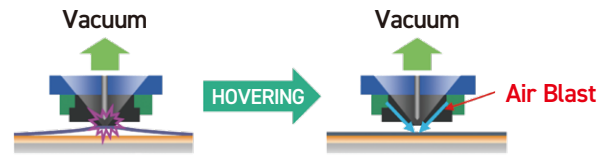


□ High-precision/productivity-boosting functions: Hovering function/V3 function

Employs a spindle direct drive structure paired with a linear air bearing guide on the Z-axis.

Hovering function: Improves productivity by shortening Z-axis drilling strokes to the utmost limit. (Equipped standard)

NEW V3 function: Makes speeds variable after the drill penetrates substrates to yield high precision or productivity effects when enabled. (Equipped as option)



□ Equipped standard with online operation rate monitoring system

This machine accommodates an integrated control system for a more enhanced level of productivity. Using an online operation rate monitoring system that provides data on operation rates in real time, the ND-12MA2126/12QA2126 realizes the centralized control of operation status that also covers previous drilling machine models, thereby contributing to productivity.

Primary specifications

Models	ND-12MA2126	ND-12QA2126
Max. Drilling area	520×670 mm (20×26 inch)	
Spindle	H930Z (Φ3.175 mm drill shank) 20k-300 krpm	UH35Z (Φ2.000 mm drill shank) 30k-350 krpm
Cooling system	Water cooling	
Cooling unit	Air cooling or water cooling (Use Industrial Cooling Water System for water cooling)	
Drill Diameter	Φ0.050-4.0 mm	Φ0.050-3.2 mm
Number of ADC tools	200 kinds; 200 tools/station	300 kinds; 650 tools/station
Z axis feed rate	0.101-12.7 m/min	
XY positioning accuracy	±0.004 mm	
Drilling accuracy	±0.015 mm (Via Mechanics criteria)	
CNC	MARK-55N	



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