VIA MECH

Drilling Machine

ND-6MA2126/6QA2126

High-Speed, High-Precision Microvia Drilling Machine

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

Via Mechanics, Ltd.

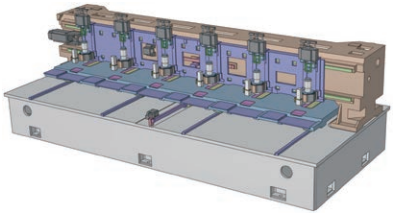
ND-6MA2126/6QA2126

High-Speed, High-Precision
Microvia Drilling Machine

High-end machine model that meets the demands of drilling high-performance substrates such as HDI and semiconductor package substrates.

☐High-rigidity structure that makes ultra-high-speed drilling possible

In order to enable ultra-high-speed, high-precision processing, the mechanical framework of this machine was given an uncompromised high-rigidity structure. Its servo control system and software were renewed to enable further improvements in productivity, operability and efficiency.

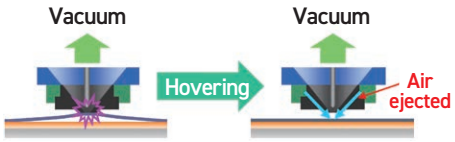


☐Equipped with an ultra-high-speed spindle (350krpm)—the fastest in the world—providing a competitive advantage in the field of microvia drilling

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.

☐Hovering drill function

The hovering drill function minimizes the stroke of the Z-axis to the limit.
A structure that directly drives the spindle up and down with an air-guided Z bush and linear motor greatly contributes to cycle time reduction.



Hold down entry sheet

☐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-6MA2126/6QA2126 realizes the centralized control of operation status that also covers previous drilling machine models. thereby contributing to productivity.

☐Vision system function (Optional)

The ND-6MA2126/ND-6QA2126 can be equipped with a "Vision System" CCD camera system that enables the drilling of common corrections across all of the stations for the XYθ axles.

☐High-precision blind hole drilling function (Optional)

Touch blind hole drilling function that uses electrical touch sensing technology at the tip of the tool.
Depth accuracy +/-15μm (Via Mechanics criteria)

Primary specifications

Models	ND-6MA2126	ND-6QA2126
Max. Drilling area	538×670mm (21×26inch)	
Spindle	H930Z (Φ3.175mm drill shank) 20k～300krpm	UH35Z (Φ2mm drill shank) 30k～350krpm
Drill Diameter	Φ0.05-3.2mm -4.0mm (Via Mechanics criteria)	
Number of ADC	250kinds; 250tools/station	300kinds; 1,050tools/station
Z axis feed rate	0.101 ～ 12.7m/min	
XY positioning accuracy	±0.004mm	
Drilling accuracy	±0.015mm (Via Mechanics criteria)	
CNC	MARK-55N	

VIA MECH

Via Mechanics, Ltd.
Headquarters: 9-32 Tamura-cho, Atsugi-shi, Kanagawa Prefecture, 243-0016 Japan
Tel.+81-46-203-9687 Fax.+81-46-203-9690
https://www.viamechanics.com

ISO9001:2015 認証取得

Jun. 2022 Printed in Japan