

Ultra-compact design,
Production capacity: Approx. 6,000 km/month
High speed production

4-row simultaneous production

Production speed 40 m/min

High-speed production of high-concentration and
high-dispersion diamond wires



Automatic control of the number of
diamond abrasive grains per row

4 diamond wires can be manufactured
at the same time

Image recognition device

The accurate CCD camera inspects the wire on all 4 rows



Unique feedback

Automatic control of the number of
diamond abrasive grains per row

New Diamond Wire Producing Equipment

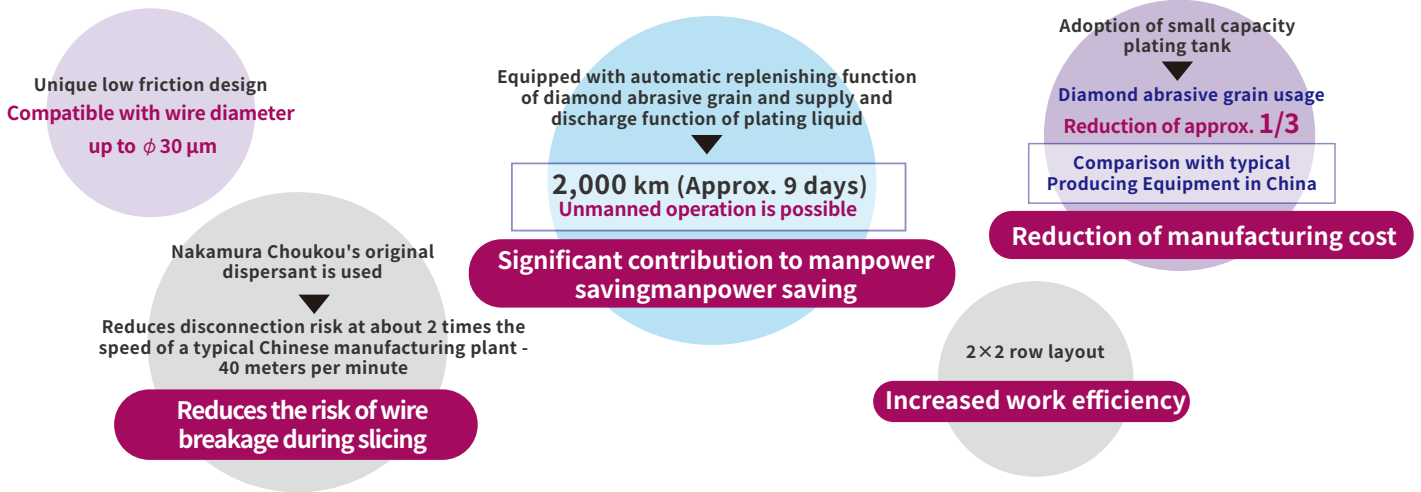
Technology by Nakamura Chouko
株式会社中村超硬

PHX-01

PHX-01

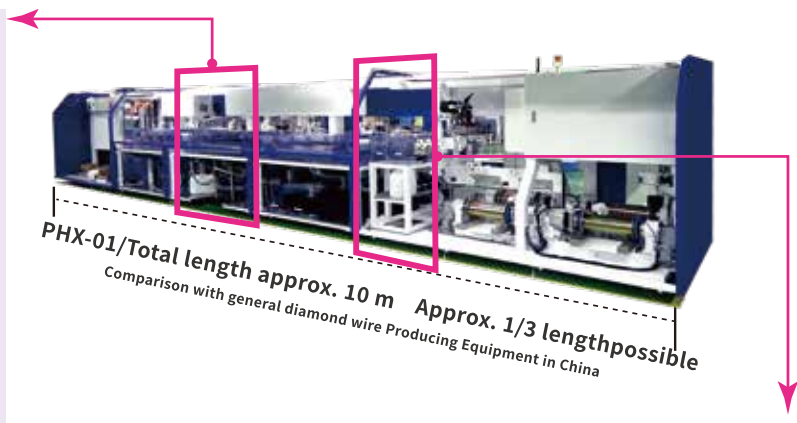
New Diamond Wire Producing Equipment Technology by Nakamura Chouko

4 diamond wires can be manufactured at the same time
Ultra-compact design, high-speed production 40 m/min, production capacity 6,000 km/month



Temporary plating tank
Significant contribution to manpower saving

High-speed production of high-concentration and high-dispersion diamond wires



Performance comparison table for the PHX-01 and typical diamond wire Producing Equipment in the Chinese market

	PHX-01	Equipment produced in China (Typical example)
Production method	4-wire simultaneous production (2-row x 2-system)	6-wire simultaneous production (6-row x 1-system)
Diamond quantity control	Individual control of each row	No
Automatic replenishment of diamond abrasive grains	Yes	No
Automatic circulation of plating liquid	Yes	No
Production speed	40 m/min	19 m/min
Production capacity	6,000 km/month	Approx. 3,900 km/month
Diamond consumption	4.8 carats/km	15 – 16 carats/km
Support for wire thinning	$\phi 30 \mu\text{m}$	$\phi 42 \mu\text{m}$
Continuous production distance	500 km/wire	270 km/wire
Equipment size	Length 10 m x width 1.5 m	Length 30 m x width 1.8 m

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*The performance values shown above are values recorded while using materials designated by our company and a prototype (produced in Japan) installed at a plant of our company, and those results are not guaranteed. The equipment may not meet the above performance levels if materials other than the designated materials are used, the design of the equipment is changed, or part of the equipment is modified.

*Equipment specifications may be subject to change without prior notice.