



# DENKO CUBO

## The next generation of Versatile High Frequency Hardening Machines

- Only a small installation area will be required for the united inverter, control panel, hardening machine, and quenching tank. – installation area: about one third(1/3) of that of conventional machines
- A new matching system is introduced for a more efficient transformation. – about 10% higher than our conventional machines.
- Energy transfer efficiency is developed to consume less electricity. – reducing the electronic transmission loss through the path of the inverter, condenser bank, and current transformer.
- The Chopper Circuit is a substitute for the rectification circuit, it will improve the power-factor by 20%.
- The reduction of the entire weight and volume will save you on the transportation cost. – being able to be carried by a 4-ton truck
- No complicated assembly work is needed and it will take you a very short time to start up after delivery in your factory.
- A remote maintenance system to watch your machine in our factory is available. – optional
- Abundant lineups for various needs. – see the other side



## LINEUPS

Inverter output	50kW	100kW	150kW
Frequency of Inverter	10 , 30 , 50 , 100 , 150 , 200kHz		10 , 30kHz
Primary power supply 50Hz/60Hz	3 $\phi$ 200V or 3 $\phi$ 380V ~ 480V	3 $\phi$ 380V ~ 480V	3 $\phi$ 380V ~ 480V
Primary cooling water	100L/min 32°C or less	250L/min 32°C or less	300L/min 32°C or less
Primary air pressure	0.4Mpa	0.4Mpa	0.4Mpa
Memory storage of PLC	30	30	30
Specifications of object works	Maximum length : 500mm Maximum workable diameter : $\phi$ 70mm Maximum outside diameter : 250mm Maximum weight : 10kgf	Maximum length : 500, 800mm Maximum workable diameter : $\phi$ 70mm Maximum outside diameter : 250mm Maximum weight : 10kgf	Maximum length : 500, 800mm Maximum workable diameter : $\phi$ 70mm Maximum outside diameter : 250mm Maximum weight : 10kgf
Specifications of machines	Maximum scan length : 500mm Maximum scan speed : 200mm/min Maximum center spindle rotation : 0 ~ 300rpm	Maximum scan length : 500mm, 800mm Maximum scan speed : 200mm/min Maximum center spindle rotation : 0 ~ 300rpm	Maximum scan length : 500mm, 800mm Maximum scan speed : 200mm/min Maximum center spindle rotation : 0 ~ 300rpm
Outside dimensions	W : 1200mm D : 2235mm H : 2125mm	W : 1200mm D : 2235mm H : 2125mm, 2725mm	W : 1200mm D : 2235mm H : 2125mm, 2725mm

## Denki Kogyo Company Ltd.

<http://www.denkikogyo.co.jp/>

### DENKO CUBO

<http://www.denkikogyo.co.jp/business/hf/product/induction/cubo.html>

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