



INVT MVD introduction

英威腾电气股份有限公司

INVT ELECTRIC CO., LTD.



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MVD Assembly Workshop



Production capacity: 500 MVD per year

1. **Brief introduction of INVT MVD**
2. **Technical features of INVT MVD**
3. **Typical applications of INVT MVD**
4. **Development Prospect of INVT MVD**



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CHH100

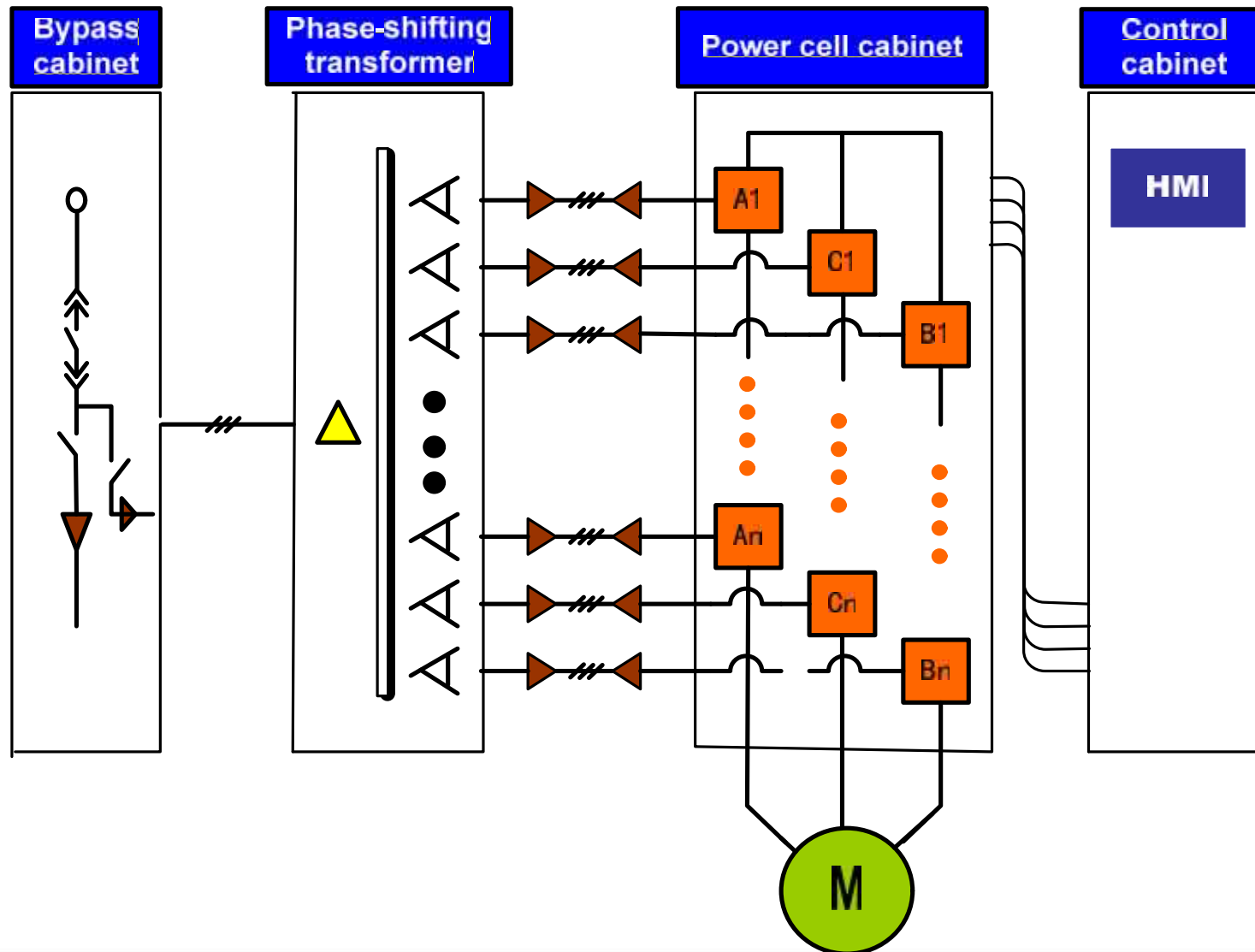
***CHH100 have a
bright future in India***



Front sight of CHH100 inside



System Diagram of CHH100



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MVD System

Power supply



Phase-shifting transformer



Power cell cabinet



Optical fiber



HMI



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Technical features of CHH100

High reliability

- ◆ Double power supply redundant design for control system;
- ◆ Abundant power unit monitor function, detect the power unit temperature, DC bus voltage, adjust system in advance to prevent failure.

Prefect protection function

- ◆ 11 kinds power cell fault protection function;
- ◆ More than 20 kinds protection for inverter and motor;
- ◆ Protection threshold can be adjusted according to working conditions.

outstanding energy saving effect

- ◆ Automatically adjust the output voltage according to the load, save more energy for customers.

Bypass for system and power cell

- ◆ Auto-switching between power frequency and variable frequency technology;
- ◆ bypass the fault power cell in 200ms, will not cause MVD stop;
- ◆ synchronous switchover technology, switching the system between power frequency and variable frequency smoothly

high efficiency
high power factor
low harmonics

- ◆ Efficiency 98% at rating load
- ◆ Input power factor 0.96;
- ◆ Input & output harmonic <2%

Good adaptability
for voltage fluctuation

- ◆ The MVD can output 100% torque while the voltage fluctuation range is $\pm 10\%$;
- ◆ MVD run derating without protection when input voltage dropping to 65% rated voltage at short time (30s);

complete parameters
record

- ◆ Indicate multi-parameters in running status, temperature of each module, DC bus detection and indication, provide with fault indication, record and self-diagnostic function.

Speed tracing
and start function

- ◆ When the instantaneous power off, the MVD can be started smoothly by speed tracing function;
- ◆ the system can be switched from power frequency to variable frequency smoothly.

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Oil industry



chemical industry



Metallurgy industry



Mining



Thermal power



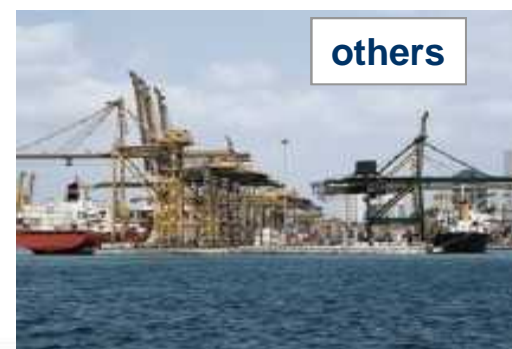
Cement industry



Municipal project



others



Cement industry



***INVT MVD successful used at
Shree Cement plant at Beawar***





*This project totally used 26
INVT MVD, the applications
are pumps and fans*



*After more than two
years running, it
proved that INVT MVD
is stable and reliable*

Municipal project



***INVT MVD successful used at
Southern Water Station of
Kaliningrad in Russia (6 pcs)***



Metallurgy industry



***INVT MVD successful used at
Yongyang steel works (China)***



Mining industry



***INVT MVD successful used at
Yangquan coal CO.,LTD
(disrotatory fans 1800KW)***



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Oil industry



***INVT MVD successful used at
Inner Mongolia gas CO.,LTD***



Construction material industry

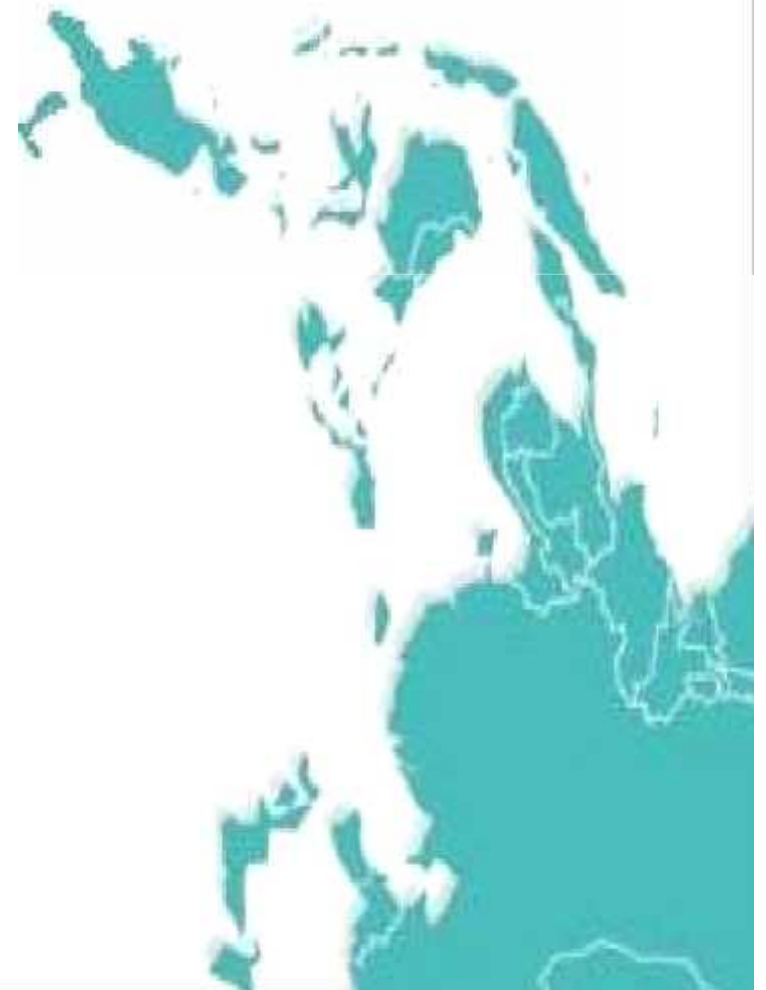


***INVT MVD successful used at
Nangang building material CO.,LTD
(high temperature fan)***

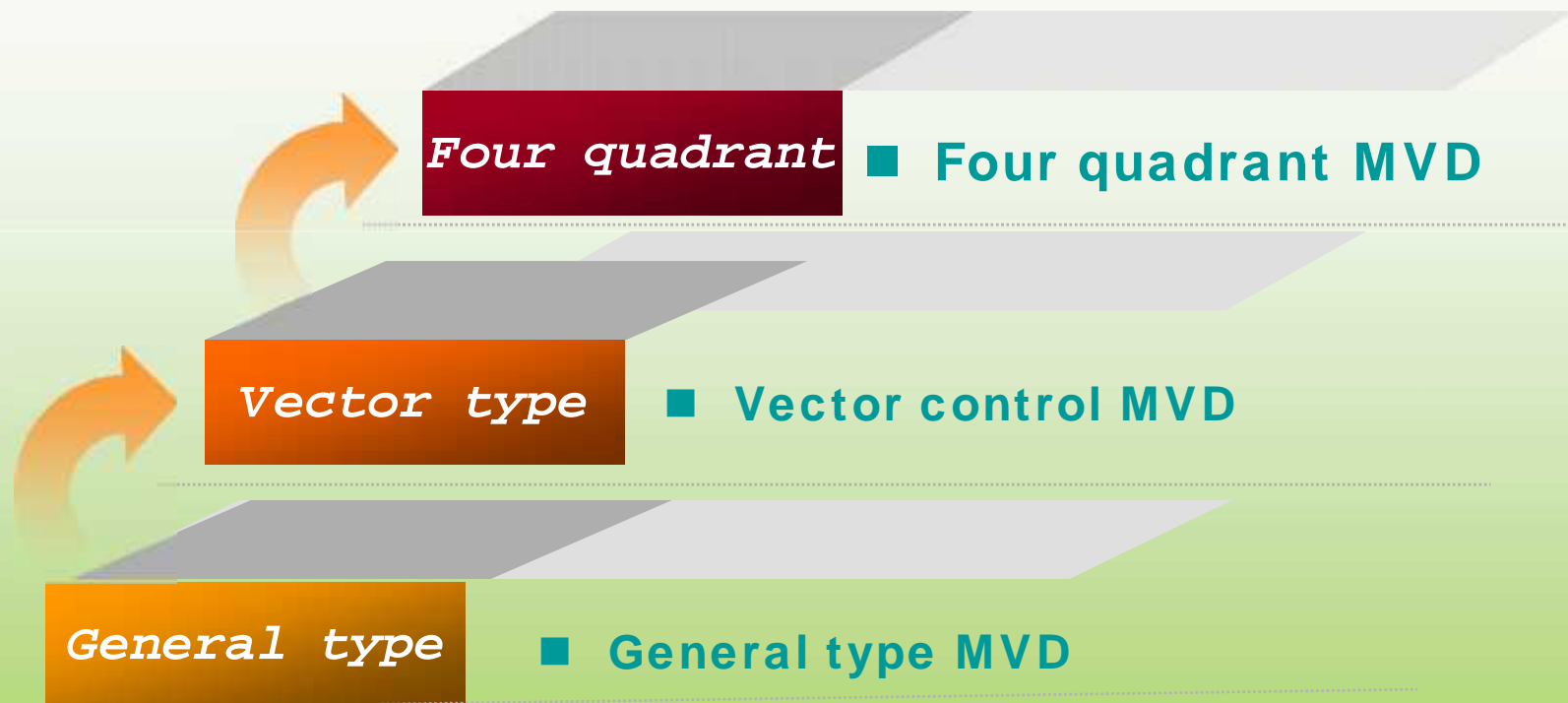


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Development Prospect of INVT MVD



THANK YOU!



INVT always aim to be your mutual benefit partner and professional drive solution provider.