

**HITACHI**  
Inspire the Next

# PRODUCT OVERVIEW



# CONTENTS

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Motors



Inverters



Programmable Controllers



Switches & Breakers



Transformers



Electric Chain Hoists & Rope Hoists



Reciprocating & Scroll Compressors (BEBICON)



Screw Compressors



Ink Jet Printers for Industrial Marking



Blowers



Manufacturing Plants



Regional Sales Network

# System Solutions

**Low voltage insulation monitoring systems**



**Power distribution, utility monitoring system (H-NET)**



**Multi unit controller**



**Air reflux fans**



**Lubricated inverter-mounted screw compressors**



**Nitrogen gas generators N2 pack**



**Oil-free reciprocating compressors**



**Rope and chain hoists**



**Power conditioner**



**Super-energy-saving transformers (Super Amorphous)**



**Photovoltaic power generation systems**

**High-efficient motors**



**Inverters**



**Inverter driven automatic water supply units**



**Hydraulic energy collection system**



**⚠ Precautions for Safety**

Before use, be sure to read through the instruction manual to ensure proper use of each product. Never modify the unit or its part. Otherwise, it can result in damage to the product and/or injury to personnel.



## Three-Phase Motors



**TFO-K**  
 0.4 ~ 0.7kW 2,4 pole  
 0.4kW 6 pole  
 200V-50/60Hz, 220V-60Hz



**TFO-FK,FKK**  
 1.5 ~ 22kW 2,4 pole  
 0.75 ~ 15kW 6 pole  
 200V-50/60Hz, 220V-60Hz



**TFO-KK**  
 30 ~ 55kW 2,4 pole  
 18.5 ~ 45kW 6 pole  
 200V-50/60Hz, 220V-60Hz  
 400V-50/60Hz, 440V-60Hz



**TFO-KK**  
 75 ~ 132kW 2,4 pole  
 55 ~ 132kW 6 pole  
 200V-50/60Hz, 220V-60Hz  
 400V-50/60Hz, 440V-60Hz



High efficiency motor 『Super Power』  
**TFO-HK,HKK**  
 0.2 ~ 160kW 4 pole  
 0.4 ~ 160kW 2,6 pole  
 200V-50/60Hz, 220V-60Hz  
 400V-50/60Hz, 440V-60Hz

## Submersible Motors for Deep Well Pumps



Water tight insulated wire type  
 8 ~ 14"   
 30 ~ 225kW 2 pole  
 5.5 ~ 200kW 2 pole  
 600V or less



Canned type  
 6"   
 3.7 ~ 45kW 2 pole  
 600V or less

## Gear Motors



**CA Series**  
 Compact type gear motor  
 TOG : 0.1 ~ 0.2kW  
 TFOG : 0.3 ~ 2.2kW  
 1.3/1.6 ~ 300/360min<sup>-1</sup>



**GA Series**  
 General type gear motor  
 TFOG-K, KK : 0.4 ~ 11kW  
 7.5/9 ~ 500/600min<sup>-1</sup>



**CA Series**  
 Compact type gear motor with break  
 TOG-K : 0.1 ~ 0.2kW  
 TFOG-K : 0.4 ~ 2.2kW  
 1.3/1.6 ~ 300/360min<sup>-1</sup>  
 (HBC type break)



**GA Series**  
 General type gear motor with break  
 TFOG-K, KK : 0.4 ~ 11kW  
 7.5/9 ~ 500/600min<sup>-1</sup>  
 (0.4 ~ 1.5kW FA type break)

## High-Efficiency Permanent Magnet Motors

200W ~ 90kW





# Inverters



NJ600B Series  
18.5kW ~ 160kW  
(3-phase 400V)



SJ700B Series  
11 ~ 160kW  
(3-phase 400V)



SJ700D Series  
(Sensorless vector control)  
0.4 ~ 55kW  
(3-phase 200V)  
0.75 ~ 132kW  
(3-phase 400V)

SJ700, SJ700B  
WJ200, X200  
and NE-S1 Series  
meet Global Standards.  
CE c UL US LISTED



WJ200 Series  
(Sensorless vector control)  
0.1 ~ 15kW  
(3-phase 200V)  
0.4 ~ 15kW  
(3-phase 400V)  
0.1 ~ 2.2kW  
(1-phase 200V)



X200 Series (V/F)  
0.2 ~ 7.5kW  
(3-phase 200V)  
0.4 ~ 7.5kW  
(3-phase 400V)  
0.2 ~ 2.2kW  
(1-phase/3-phase 200V)



NE-S1 Series  
0.2 ~ 2.2kW  
(1-phase 200V)  
0.2 ~ 2.2kW  
(3-phase 200V)  
0.4 ~ 2.2kW  
(3-phase 400V)



# Programmable Controllers



EH-150/EHV  
EHV-CPU128/64/32/16  
Processing speed: 20ns  
I/O points : Max. 4,224  
Program Memory : Max. 128k steps  
Comment Memory : Max. 1Mbyte  
Integrated Ethernet/Serial/USB  
communication ports  
7 Segment LED error display



EH-150  
Processing speed :  
1.0  $\mu$ s/0.1  $\mu$ s/command  
I/O points : Max. 3,520  
Program Memory : 4/8/16/48k steps  
Two communication ports  
Compact design with 10cm in height



MICRO-EHV  
I/O line ups : 40/64 points  
Program Memory : 16 ksteps  
Processing Speed: 0.3  $\mu$ s  
Built-in Communications Port: USB Port (for  
programmng)  
Serial Port (RS232C), USB memory port,  
Ethernet



# Switches and Breakers

## Magnetic starters and contactors

### H Series & HS Series

Non reversible type :  
9A to 800A frames  
Reversible type :  
9A to 800A frames

Electromagnetic contactors  
Non-reversible type :  
9A to 50A frames  
Reversible type :  
9A to 50A frames

Electromagnetic starters  
Non-reversible type :  
10A to 600A frames  
Reversible type :  
10A to 600A frames

Contactor relays  
3 contacts to 8 contacts

Thermal overload relays  
1E : Overload protections  
2E : Overload with phase-failure  
protection type



H Series



HS Series



H65C-T



X4



TR80B-1E  
TR80B-2E

## Molded case circuit breakers

F Series (Standard)  
30A to 4000A frames

S Series (Economical)  
30A to 800A frames

L Series (High interrupting capacity)  
50A to 800A frames



FXK125-S FXK250-S FX600



S-30E SXK225 SX600



L-50E L-100E L-400E

## Earth leakage circuit breakers

E Series (Standard)  
30A to 800A frames

R Series  
(High interrupting capacity)  
50A to 1200A frames

Standard five types  
Small two types

## Air circuit breakers

630A to 6300A frames  
65KA to 120KA



EB-50E EXK225 EX400B



RX100 RXK225-S RX600B



RNZBT



AKS-20D



# Transformers

## Amorphous Core Transformers

Oil-immersed Transformers



Three phases 1,000kVA  
Single phases 300 ~ 500kVA  
Three phases 300 ~ 3,000kVA  
Primary voltage 6kV

Molded Transformers



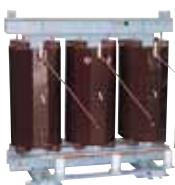
Single phases 50kVA  
Single phases 50 ~ 500kVA  
Three phases 75 ~ 1,000kVA (Primary voltage 6kV)

## Molded Transformers



Three phases 300kVA  
Single phases 10 ~ 500kVA  
Three phases 20 ~ 3,000kVA (Primary voltage 6kV)

## Oil Immersed Transformers



Three phases 3,000kVA  
Three phases 20 ~ 5,000kVA  
(Primary voltage 10 ~ 30kV)



Three phases 30kVA  
Single phases 10 ~ 500kVA  
Three phases 20 ~ 3,000kVA (Primary voltage 6kV)



Single phases 2,000kVA  
Single phases 750 ~ 3,000kVA  
Three phases 750 ~ 3,000kVA (Primary voltage 30kV)



# Electric Chain Hoists & Rope Hoists

## Electric chain hoists

Standard S Series



250kg to 5 ton  
Hook suspension type  
With motor trolley-ET  
With motor trolley-ST

High speed type F Series



1 to 20 ton  
Hook suspension type  
With motor trolley-ET  
With motor trolley-ST

Inverter Rope Hoist V3 Series



Dual Speed Type  
1/2 to 30 ton

- Suspension type
- Manual driven trolley
- Chain driven trolley
- Motorized trolley

## Rope hoists

Standard headroom type



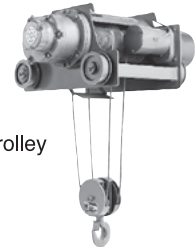
1/2 to 20 ton  
• Suspension type  
• Manual driven trolley  
• Chain driven trolley  
• Motorized trolley

V Series (with high function) Low headroom type



1/2 to 5 ton  
• Suspension type  
• Manual driven trolley  
• Chain driven trolley  
• Motorized trolley

Double-rail type



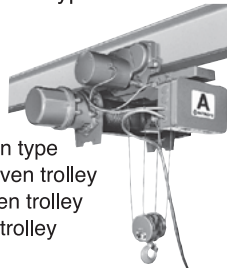
2 to 30 ton  
With aligning trolley

A Series (for practical use) Standard headroom type



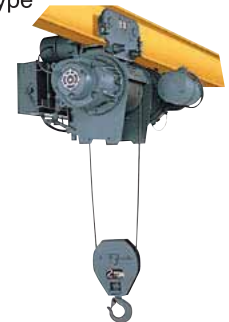
1 to 3 ton  
• Suspension type  
• Manual driven trolley  
• Chain driven trolley  
• Motorized trolley

Low headroom type



1 to 3 ton  
• Suspension type  
• Manual driven trolley  
• Chain driven trolley  
• Motorized trolley

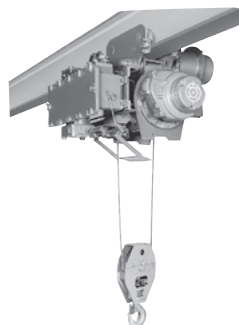
With creep speed for hoisting Standard headroom type



1/2 to 20 ton  
Low headroom type  
1/2 to 5 ton  
Double-rail type hoist  
2 to 30 ton

## Dedicated purpose hoists

Explosion-proof hoist



Standard head room type  
1 to 5 ton  
Low headroom type  
1 to 5 ton  
Double-rail type  
2 to 5 ton

\* We can produce any hoists on your demand. Please do not hesitate to contact us

## Crane saddles

Toprun type Max. wheel load 1.0 to 11.2 ton



TH<sub>5</sub>-10/TH<sub>5</sub>-28/TH<sub>5</sub>-30/  
THL<sub>5</sub>-30/TH<sub>5</sub>-56/  
THL<sub>5</sub>-56/TH-112



TL<sub>5</sub>-10/TL<sub>5</sub>-28

Suspension type Max. wheel load 1.0 to 5.6 ton



SL<sub>5</sub>-10/SL<sub>6</sub>-28/SL<sub>5</sub>-30/SL<sub>5</sub>-56

Wheel unit for Toprun type saddle 2.8 to 5.6 ton



TLU<sub>5</sub>-28/TLU<sub>5</sub>-56



# Reciprocating & Scroll Compressors(BEBICON)

## Lubricated Type

### BEBICON



Pressure-Switch Type  
 Power Range : 0.75 ~ 11kW  
 Maximum Pressure : 0.93MPa  
 Capacity : 80 ~ 1,200L/min  
 Automatic-Unloader Type  
 Power Range : 0.75 ~ 15kW  
 Maximum Pressure : 0.93MPa  
 Capacity : 80 ~ 1,650L/min  
 Max.Press.of 1.37MPa type is available.  
 (3.7 ~ 7.5kW)

### Package BEBICON



(with or without air dryer)  
 Pressure-Switch Type  
 Power Range : 0.75kW  
 Maximum Pressure : 0.93MPa  
 Capacity : 80L/min

### Electronic Type Package BEBICON M-Type



(with or without air dryer)  
 Electronic Type  
 Power Range : 1.5 ~ 11kW  
 Maximum Pressure : 0.93MPa  
 Capacity : 165 ~ 1,200L/min

## Oil Free Type

### Super Oil Free BEBICON LE-series



Pressure-Switch Type  
 Power Range : 0.4kW  
 Maximum Pressure : 0.8MPa  
 Capacity : 42L/min

### Oil Free BEBICON GREEN series



Pressure-Switch Type  
 Automatic-Unloader Type  
 Power Range : 0.75 ~ 11kW  
 Maximum Pressure : 0.85 ~ 0.93MPa  
 Capacity : 75 ~ 1,280L/min

### Booster BEBICON (Oil Free)



Tank Mounted  
 Power Range : 0.4 ~ 11kW  
 Suction Press : 0 ~ 0.5MPa  
 (0.3 ~ 0.6MPa : silent type)  
 Maximum Press : 1.0MPa  
 (1.37MPa : 7.5HB)  
 Capacity : 200 ~ 2,850L/min  
 Package Type  
 Power Range : 3.7 ~ 11kW  
 Suction Press : 0.2 ~ 0.5MPa  
 Maximum Press : 1.0MPa  
 Capacity : 1,400 ~ 4,250L/min

## Oil Free BEBICON (Package)



Oilfree Package Bebicon 0.75kW  
 (with or without air dryer)  
 Pressure-switch type  
 Power : 0.75kW  
 Maximum pressure : 0.78 – 0.93 MPa  
 Capacity : 75 L/min

### Electronic Type Package Oil Free BEBICON M-Type



(with or without air dryer)  
 Electronic Type  
 Power Range : 1.5 ~ 5.5kW  
 Maximum pressure : 0.78 ~ 0.93MPa  
 Capacity : 165 ~ 605L/min  
 Power Range : 7.5 ~ 15kW  
 Maximum pressure : 0.70 ~ 0.85MPa  
 Capacity : 875 ~ 1,700L/min

### Electronic Type Package Oil Free BEBICON V-type



(with air dryer)  
 Inverter Type  
 Power Range : 5.5 ~ 15kW  
 Discharge Pressure : 0.58 ~ 0.86 (5.5kW)  
 0.58 ~ 0.78 (7.5 ~ 15kW)  
 Capacity : 630 ~ 1,770L/min

NOTE: The output of compressed air is the amount of air discharged under the maximum pressure converted in terms of air suction (under the atmospheric pressure).

## Oil Free Scroll

Low Noise, Low Vibration



(with or without air dryer)  
 Pressure-Switch Type/Multi-Drive  
 Power Range : 0.75 ~ 15kW  
 1.5kW (0.85MPa, 160L/min)  
 2.2kW ~ 5.5kW (0.85MPa, 240 ~ 600L/min)  
 (1.0MPa, 200 ~ 500L/min  
 2.2kW & 5.5kW only)  
 7.5kW ~ 15kW (0.80MPa, 880 ~ 1,890L/min)  
 (1.0MPa, 700 ~ 1,500L/min)

22kW / 33kW



**NEW**  
 Oilfree Scroll Compressor (22kW/33kW)  
 (without air dryer)  
 Pressure-switch type / Multi-Drive  
 Power : 22kW/37kW  
 Maximum pressure : 0.8MPa (1.0MPa)  
 Capacity : 2,520 ~ 3,780L/min (0.8MPa)  
 2,000 ~ 3,000L/min (1.0MPa)

## Nitrogen Gas Generator N<sub>2</sub> Pack

MX · MD-series (PSA Type)



Power Range : 0.75/2.2/3.7/5.5/7.5kW, 11/15kW  
 Nitrogen Purity : 99/99.9%/99.99%  
 Discharge Pressure : 0.50 ~ 0.78MPa  
 Capacity : 0.9 ~ 42m<sup>3</sup>/h

NOTE: The capacity is taken at the ambient temperature of 20 degree C and ambient humidity of 60% and without clogs on the suction filter. This capacity is converted in terms of air suction conditions (under the atmospheric pressure).





# Screw Compressors

## Oil-Flooded Type

HiSCREW NEXT Series :



Output : 7.5 ~ 37kW  
 Discharge Pressure : 0.7 ~ 0.85MPa  
 1.0 MPa (22 ~ 37kW)  
 Air Capacity : 1.03 ~ 7.2m³/min  
 Air cooled, water cooled model  
 Built-in Dryer, without dryer model  
 Inverter control model

HiSCREW NEXT Series :



Output : 55 ~ 110kW  
 Discharge Pressure : 0.70/0.75/0.85/1.0MPa  
 Air Capacity : 8.1 ~ 21.5m³/min  
 Air cooled, water cooled model  
 Built-in Dryer, without dryer model  
 Inverter control model

HiSCREW NEXT Series Single Stage



Output : 132 ~ 160kW  
 Discharge Pressure : 0.7 ~ 1.0MPa  
 Air Capacity : 21 ~ 29.5 m³/min  
 Air cooled, water cooled model  
 Inverter control model available

HiSCREW Intermediate Series

HiSCREW 2000 Series



Output : 150kW(Dual)  
 Discharge Pressure: 0.75 ~ 0.85MPa  
 Air Capacity : 24.1 ~ 21.5m³/min  
 Air cooled, water cooled model  
 Without dryer model  
 Inverter control model

HiSCREW 2-Stage Series



Output : 125 ~ 240kW  
 Discharge Pressure : 0.69 ~ 0.83 MPa  
 Air Capacity : 20.5 ~ 45 m³/min  
 Water cooled model  
 Without dryer model

## Oil-Free Type

DSP Next Series (2-stage)

NEW



Output : 22 ~ 120kW  
 Discharge Pressure : 0.7 ~ 0.88MPa (22 ~ 37kW)  
 Air Capacity : 3.2 ~ 5.6m³/min, Air cooled only  
 Discharge Pressure : 0.7 ~ 0.93MPa (45 ~ 120kW)  
 Air Capacity : 6.2 ~ 21m³/min  
 Air Cooled, water cooled model  
 Built-in Dryer, without dryer model  
 Inverter control model (37, 55, 75, 100kW)

DSP Next Series (2-stage)



Output : 132 ~ 240kW  
 Discharge Pressure : 0.75 ~ 0.93MPa  
 Air Capacity : 20.7 ~ 40.5 m³/min  
 Water cooled model  
 Without dryer model  
 Inverter control model (160, 240kW)

DSP Series (2-stage)



Output : 132 ~ 240kW  
 Discharge Pressure : 0.75 ~ 1.0MPa  
 Air Capacity : 19.0 ~ 40.0 m³/min  
 Air cooled model.  
 Without dryer model

DSP Series (Single stage)



Output : 15 ~ 55kW  
 Discharge Pressure : 0.39 ~ 0.88MPa  
 Air Capacity : 2.0 ~ 8.0 m³/min  
 Air cooled, water cooled model  
 Built-in Dryer, without dryer model  
 Inverter control model (22, 37, 55kW)



## Auxiliary Parts

Air Dryer (HDR-AX Series) (HDR-AX1 Series)



Chiller Output : 250 ~ 6,000W  
 Dew point : 10°C  
 Air Capacity : 1.1 ~ 69m³/min

Line Filter



Air Filter  
 • Remove 1 micron & larger dirt particle  
 Micro Mist Filter  
 • Outlet Oil Concentrations 0.01wtppm  
 Deodorant Filter  
 • Outlet Oil Concentrations 0.003wtppm

Multiple control panel



• Saving Energy  
 • Normalize the running hours

## Oil Free Type (SDS)

Oil Free Screw (SDS-U series)



2-step control, water-cooled  
 Output : 105 ~ 460kW  
 Discharge Pressure : 0.69 ~ 0.93MPa  
 Air Capacity : 16.3 ~ 81.1m³/min

NOTE :  
 In case of purchasing these products, please preexamine regulation of the country where these products are installed.



## Ink Jet Printers for Industrial Marking



- RX2 Series (Basic & Standard)**
- Reliable, Precise, Simple
  - 10.4 inch Liquid crystal touch panel display
  - Versatile equipment compatibility



- PXR Series**
- Micro characters marking on electronic components
  - Large characters marking on cartons
  - High speed printer for high-speed application
  - Pigmented ink printer for dark color surfaces



## Blowers

### Vortex blower

High air pressure compact type(G Series)



VB-70WS-G ~ VB-022-G  
100V, single-phase, 50/60Hz  
200V, three-phase, 50/60Hz  
400V, three-phase, 50/60Hz  
Maximum air capacity :  
0.45/0.5 4.5/5.5(m<sup>3</sup>/min)  
Maximum static pressure :  
4.0/5.4 ~ 19.6/23.5(kPa)

Air capacity type (E, E2, EN Series)



VB-001S-E ~ VB-110-E2  
100V, single-phase, 50/60Hz  
200V, three-phase, 50/60Hz  
400V, three-phase, 50/60Hz  
Maximum air capacity :  
0.65/0.75 ~ 16/18.5(m<sup>3</sup>/min)  
Maximum static pressure :  
4.6/6.225.5/29.4(kPa)  
4.6/6.2 ~ 25.5/29.4 (kPa)

DN Series



VB-004DN ~ VB-020DN  
100V, single-phase, 50/60Hz  
200V, three-phase, 50/60Hz  
400V, three-phase, 50/60Hz  
Maximum air capacity :  
1.4/1.8 ~ 3.5/4.2 (m<sup>3</sup>/min)  
Maximum static pressure :  
11.1/12.7 ~ 18.0/20.0 (kPa)



# Manufacturing Plants

## Narashino Division

1-1, Higashinarashino 7-chome  
Narashino-shi, Chiba-ken, 275-8611  
JAPAN  
TEL : +81(0)47-477-1111



### Main Products

Motor, Pump, Inverter, AC Servo Motor,  
DCBL, Blower, Fan

## Marking System & Hoist Division

1-1, Higashitaga-cho 1-chome,  
Hitachi-shi Ibaraki-ken, 316-8502  
JAPAN  
TEL : +81(0)294-36-8898



### Main Products

Ink Jet Printer,  
Wire Rope Hoist, Electric Chain  
Hoist

## Nakajo Division

46-1, Tomioka,  
Tainai-shi, Niigata-ken, 959-2608  
JAPAN  
TEL : +81(0)254-46-3111



### Main Products

Transformer, Magnetic Starter and  
Contactor, Thermal Overload Relay,  
Molded Case Circuit Breaker, Earth  
Leakage Relay, Power Distribution &  
Utility Monitoring System,  
Programmable Logic Controller

## Hitachi Industrial Technology (Thailand), Ltd.

610 Moo 9, Kabinburi-Korat Rd. (K.M.12)  
T.Nongki, A.Kabinburi, Prachinburi 25110  
THAILAND  
TEL : +66-3720-4276



### Main Products

Motor, Blower, Earth Leakage Relay,  
Magnetic Contactor, Thermal  
Overload Relay, Contactor Relay,  
Molded Case Circuit Breaker, Water  
Pump

## Air Compressor System Division (Shimizu area)

390, Muramatsu, Shimizu, Shizuoka-shi,  
Shizuoka-ken, 424-0926  
JAPAN  
TEL : +81(0)54-335-4286



### Main Products

Air Compressor (Lubricated/Oil Free),  
Cold Air Generator

## Hitachi Industrial Equipement (Nanjing) Co., Ltd.

NO.219 Tongtian Road,Jiangning  
Science Park,Nanjing,211100, CHINA  
TEL : +86(25)5792-9191



### Main Products

Inverter, Air Compressor,  
Reciprocating & Scroll Compressors  
(BEBICON)

## Air Compressor System Division (Ebina area)

1007, Kamigoo, Ebina-shi,  
Kanagawa-ken, 243-0434  
JAPAN  
TEL : +81(0)46-232-4811



### Main Products

Parts for Air Compressor

## HITACHI INDUSTRIAL EQUIPMENT(MALAYSIA)SDN.BHD.

Lot 8, Solok Sultan Hishamuddin 6,  
Kawasan Perusahaan Selat Klang  
Utara, 42000 Pelabuhan Klang,  
Selangor Darul Ehsan, MALAYSIA  
TEL : +60(3)3176-7599



### Main Products

Reciprocating, & Scroll Compressors  
(BEBICON 0.4kW ~ 15kW)  
Screw Compressor  
(HISCREW 11kW ~ 37kW)

## Air Compressor System Division (Sagami area)

1116, Ozono, Ayase-shi,  
Kanagawa-ken, 252-1121  
JAPAN  
TEL : +81(0)467-70-0931



### Main Products

Small Size Air Compressor  
(Bebicon, Air Punch)

## Hitachi Qiantian (Hangzhou) Transformer Co., Ltd.

Xingang Village,Kanshan  
Town,Xiaoshan District, Hangzhou  
311243, CHINA  
TEL : +86(571)8258-8899



### Main Products

Amorphous Transformer

# Regional Sales Network

## SINGAPORE

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**(Industrial Components & Equipment Group)**  
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#10-15 West Park Bizcentral  
Singapore 628560  
Tel: +65 6305 7400  
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Tel: +91 (22) 2821 2610

**Hitachi India Pvt. Ltd.**  
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Nungambakkam, Chennai 600 006  
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Fax: +91 (44) 2821 3110

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Fax: +62 (21) 2358 6755

## MALAYSIA

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Suite 17.3, Level 17, Menara IMC,  
(Letter Box No.5),  
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Kuala Lumpur, Malaysia  
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Fax: +60 (3) 2713 2855

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