History of Hikari

-Established 1990

-Total Staff: 36

-ISO 9001 certify



-SAP Business One

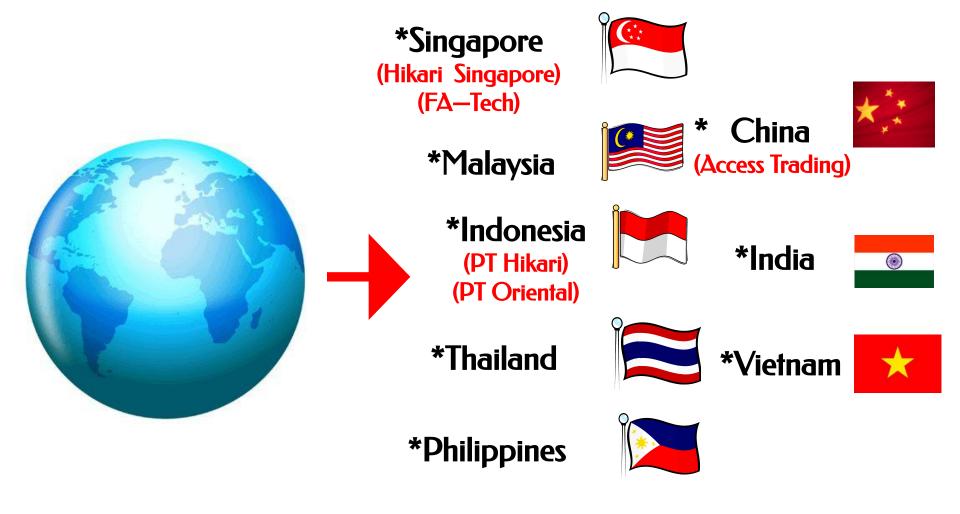








Network of HIKARI







Wendy Wong Director



Joseph Tan **Managing Director**





Cheong T C Sales Director



Magdalene Wong Finance Director

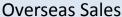


Ken Wang General Manager

Local Sales



Jean Ng Sales Manager Singapore





Serene Goh Sales Manager



Admin Thenny Hew Finance Executive



Andrew Thng Supervisor





Koh Sze Tong Snr. Application. Engineer



Adam Kong Technical Sales Engineer



Dora Tay Asst. Manager ndia. China

Rain Lim

Malaysia central



Loh W Y Asst Mana<mark>ge</mark>r Indonesia



Irene Teo Snr. Admin Executive

Tin Shili

Admin

Assistant



Muh. Uzair Logistician



Zulfadli Logistician

Alvin Ong

Logistician



Wan Jing Sales Executive

Alex Koh

Technical

Sales Engineer



Than Win Hlaing Elect. Engineer



Hasim Service Technician

Eugene Sng

Asst. Engineer



Alison Ooi Sales Executive Malaysia



Executive ndonesia Joanne

Executive

Philippines



ZhiDan Admin Assistant





Lee Leng Coordinator

Store keeper



MITSUBISHI ELECTRIC

Loh Mun Fye Technical Sales Engineer



Tan Sales Support

Sales

Michelle

Emily Chia Receptionist



GENERATION NEXT







FX3U Series Development Concept

Major design functions required of MODERN-day and FUTURE micro programmable controllers.

- Small and compact size
- ☐ Good cost performance
- High speed and high precision control
- Advanced built-in functions
- ☐ Increased number of control points
- Advanced Special Function Blocks and improved backwards compatibility
- Extended communication ports and easy-to-use analog functions
- ☐ Extended memory capacity
- Standard models in conformance to international standards





Basic product Specification Outline

☐ Equivalent Performance to FX3UC



High Speed CPU

Large

Memory

capacity

High Speed Control

Standard functions

- ☐ Better than equivalent performance to FX3UC
 - Enhanced ability

Control scale 384 points maximum

International standards



- · Basic performance enhanced.
- Memory and devices are extended.
- · <u>Improved standard built-in</u> <u>functions.</u>
- Up to 384 I/O Points!!
- <u>The FX3U Series conforms</u> to the CE and UL (cUL) standards.
- Extensive Instruction Library

Expandability

- · RS Communication ports are extended to 3 channels.
- Analog Inputs and Outputs are easy to use.
- · <u>High speed counters □ 200 kHz</u>
- Positioning ☐ 4 axes at 200 kHz

Expansion

Integrated functions

High-speed Control









SERVO-J2S/J3



Super Performance with MELSERVO-J2-SUPER

High Functionality, High Performance

- -High-resolution Encoder 131072p/rev (17bits)
- -High-performance CPU Incorporated for Improved Response
- -Absolute encoder is standard Equipment
- -SSCNET, High-speed serial bus compatible: B type





Servo Amplifier Series and Servo Motor Models

Flexible specification corresponding to user's need



General-Purpose Interface Mr-J2S-_A/B







With Build In Positioning Function Mr-J2S-_CP/CL





General-Purpose Interface Mr-J2M_A/B





HC-KFS/MFS Series





HC-SFS/LFS/RFS Series





HC-LFS/UFS Series





Servo Amplifier Series and Servo Motor Models

Flexible specification corresponding to user's need Servo amplifier-wide product line from 50W-55KW









With Build In Positioning Function Mr-J3-_B-RJ006/RJ004





General-Purpose Interface Mr-J3-T







HC-KP/MP Series





HC-SP/LP/RP/UP Series







HC-LP Series





FR-A70





<u>Features</u>

- 1. Highest level of driving performance
- 2.Long life parts and life check function
- 3. Network connection as you desired
- 4.Free of environmental wormes
- 5.Simple operation and easy maintenance
- 6.Improved usability with full of useful functions
- 7. Global compliance



FR-E700 series

New-generation compact and high performance inverter



Remarkable usability

Summit-level driving performance!

Compact body Al-arounder



Features

FR-E7/00 series features

- 1. Top level driving performance in compact dimensions
- 2.Overriding operability
- 3. Enhanced expandability
- 4.Compact and space saving
- 5. Ensured maintenance
- 6. Environment-friendly
- 7. Full of useful functions





HMI Systems Department Mitsubishi Electric Corporation Nagoya Works, Japan



GOT1000 line-up (44 models)

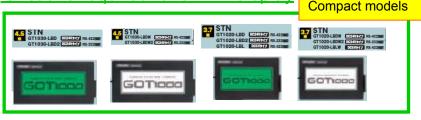
GT15: Full spec models covering a broad range of applications, to be used in stand-alone/network environments



GT11: Stand-alone models containing basic functions



GT10: Compact models including all the basic functions required for a HMI display



Mitsubishi Graphic Operation Terminal:





New 5.7" ultra-high resolution GOT release!

The compact body with clear and sharp display quality [VGA, 640x480 dots]



- Four times as much information as that of conventional 5.7" QVGA (320x240) model
 - The same screen data format as 10.4" and 8.4" VGA models
 - Ladder Monitor and Intelligent Unit Monitor are included on 5.7" VGA model

Clear, sharp display and various

functions are the same as large models

- This high resolusion model offers various functions that were not previously available on 5.7" models. (E.g. Ladder Monitor in the above image) *For details of Ladder Monitor, refer to "Connection type
- when using Ladder Monitor function" on the reverse side.



YAMAHA SINGLE-AXIS ROBOTS

FILIP-X SERIES

YAMAHA single-axis robot more complete line-up than ever!!
From the very compact size to extra log stroke





YAMAHA PICK AND PLACE ROBOTS

YP-X SERIES

Super high-speed pick & place type robot with "ease of use" incorporated







YAMAHA single-axis robot "Pico" series of low price, assuring ease of use and reliability.





YAMAHA CARTESIAN ROBOTS

XY-X SERIES

YAMAHA Robots provide your plant with stable support, focusing on the future production scheme as well.





YAMAHA SCARA ROBOTS

YK-X SERIES

Faster, more flexible and more compact. YAMAHA pursues ideal forms of SCARA robots.







YAMAHA SCARA ROBOTS

YK-X SERIES



Faster, more flexible and more compact.

YAMAHA pursues ideal forms of SCARA robots.







Environmentally Friendly

 Environmental Friendly (No chemical hazardous chromium)

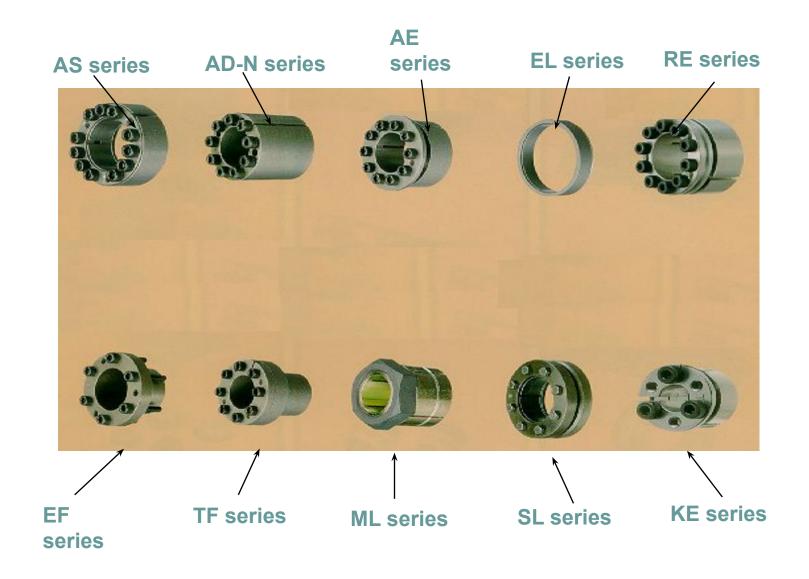
Adoption Roms substances such as hexavalent

NEP chain does not contain any chemical hazardous substances, which is regulated by RoHS, such as Hexavalent Chromium, Cadmium etc (There

is also no Trivalent Chromium)



Power-Lock Product Line up



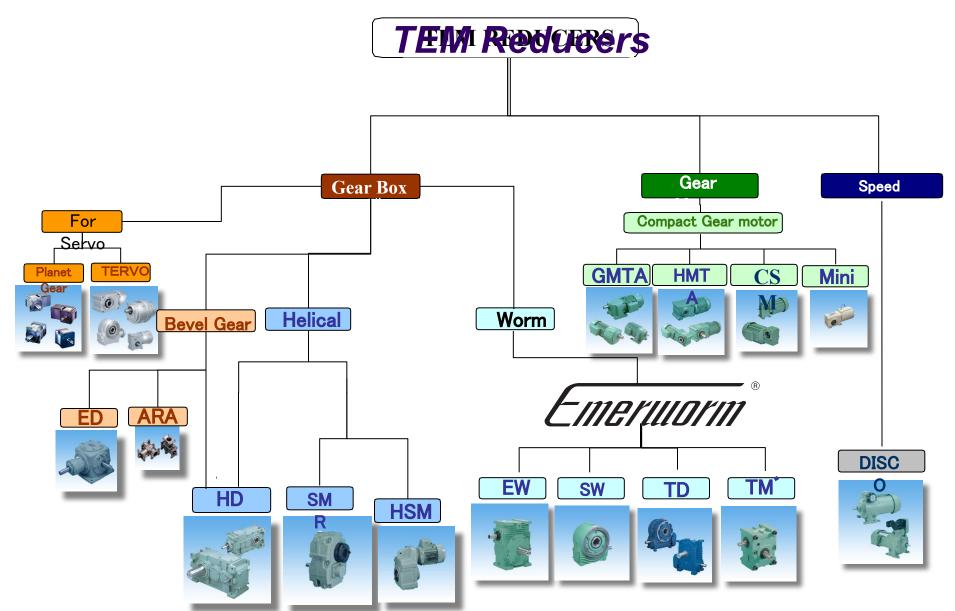


Power-Lock Features

- 1. Suitable for shock loads
- 2. Easy and precise positioning
- 3. Applicable for hollow shafts
- 4.Excellent with long shafts
- 5. Suitable for multiple load operations
- 6. Simple installation and removal





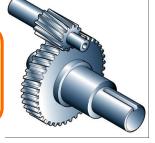


TEM Gear motor





Gear Motor
TA series
0.1kW~5.5kW



Mini series
Hypoid Motor
40W~90W



Hypoid Motor
TA series
0.1kW~5.5kW

Mini series Gear motor 40W~90W

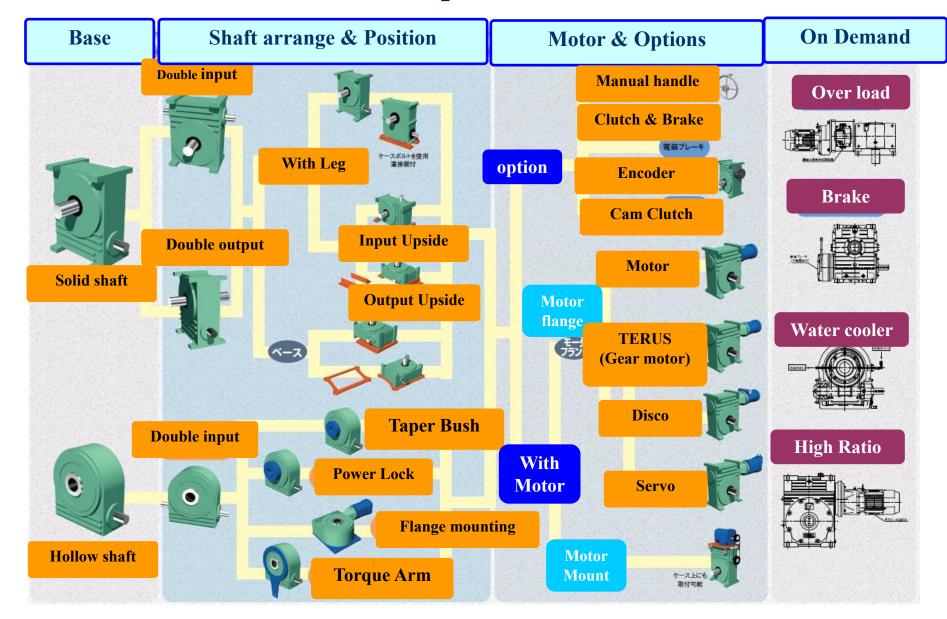


Croise Motor 0.1kW~3.7kW



Select gears for applications

Various Options





Coupling











Metal Element









Disk Bellows

Diaphragm

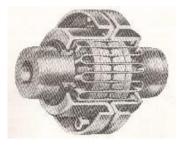
Beam







Gear



Grid

Plastic or Rubber element



Jaw



Rubber bush



Donuts (Non clump)



Tire



Oldham

For servomotor, especially for machining

同門性 ルツノリン



パワーリジッドカップリング

●88ページ

サーボモーケ連絡局の高額性リジッドカッ ブリング。サーボモータ出力軸に対応した 驗次學亦在意。

BE-FLEXカップリング

● 62ページ

シンプルな構造で受傷なサーポモーケ連絡 用ベローズカップリング。サーボモータ出力 に対応した軸穴種を在庫。



エマフレックスカップリング

連絡にも使用され、軽低が用途で活躍して いる代表的な直接度カップリング。ディスク カップリングの決定度。



オルダムカップリング



For small servo motor, stepping motor, encoder

汎用モータとの連結用途に最適

●ポンプなどに

汎田カップリング



フレックスカップリング

2つのパンインサーから成るシンプル構造。 安倍。ハンで開稿・アルミ・インサートは3種 変から連歩 前。



ネオレックスカップリング

●84ページ

ゴムプシュにより取付護値を表示するカッ プリング、振動吸収性あり、



For Induction motor, Long seller



₱ 17ページ

アル政会会製のハブを使用した 小器ディスクカップリング。

形サーボモータ・ステッピングモータ・

エンコーダとの連結に最適

●半導体製造装置などに

小形精密カップリング

3



SVC Pilot Operated 4/5 Port Solenoid Valves







Port-VQ1000/2 000





Dont-SV



Port-VQ

5 Port - ISO VQ



Large Size 5 **Port-VP**



Port-VQ

Explosion Proof 3/5 Port



Standard Cylinder



Air Cylinder CJ1



Air Cylinder CM₂



Square Tube Cylinder mb1



Pin Cylinder CJP2/CJP



Air Cylinder CG₁



Air Cylinder CS₁



Air Cylinder CJ2



Air Cylinder MB



Air Cylinder CS₂



SMC Compact Cylinder



Mini Free **Mount** Cylinder CUJ



Compact Cylinder CQ₂



Free Mount Cylinder CUJ



Compact Cylinder With Air Cushion RQ



Plate Cylinder MU



Compact Cylinder CQS



Compact Cylinder Guide Rod Type CQM



Rodless Cylinder



Mechanically Jointed MY1



Mechanically Jointed MY3



Mechanically Jointed With Protective Cover MY1xW



Magnetically Coupled CY3



Mechanically Jointed MY2



Magnetically Coupled CY1



Magnetically Coupled CY1F



Table Cylinders



Compact Slide MXH



Long Profile Slide Table MXF



Air Slide Table MXP



Air Slide MXS



Air Slide Table MXW



Air Slide Table MXY



Air Slide MXQ



Air Slide Table MXJ



Precision Cylinder MTS



Guide Cylinders



Miniature Guide Rod MG1



Guide Table MGF



Slide Unit



Compact Guide Rod MGP



Non Rotating MGZ/MG

Slide Unit



Compact Guide Rod MGP



Cylinder With Turntable



Dual Rod



Lock Cylinders



Fine Lock CLx/CDLx



Cylinder With Lock CNS



Plate Cylinder With Lock



Guide Cylinder MLGC



Cylinder With Lock CLS



Compact Cylinder With Lock



Cylinder With Lock MNB



Compact Cylinder With Lock CLQ



Mechanically Jointed
With Brake
ML1C



Rotary Actuators



Rotary Cylinder



Rotary Table MSU



Rotary Table MSQ



Rotary Actuator CRBU2



Mini Actuator CRA1



Rotary Actuator CRA1



Rotary Actuator CRB1



Compact Rotary Actuator CRQ2



Rotary Actuator MRQ



Air Grippers



Linear Guide Parallel MHZx2



Wide Type MHL2



Side Guide Round Body MHS2



Cross Roller Guide Parallel MHQx2



Rotary Actuated
2-Finger MHR2/MDHR2



Angular Style Compact Type MHC2



Low Profile MHF2



Wedge Cam Operation Side Guide MHK2



Rotary Gripper MRHQ



Vacuum Ejector



Compact Vacuum ZA



Vacuum Ejector ZM



Vacuum Ejector In Line ZU



Vacuum Module ZX



Vacuum Ejector With Solid State Timer



Multistage Ejector ZL



Large Size Vacuum Modular ZR



Vacuum Ejector ZH



Ejector Valve Unit ZYY/ZXY



SMC <u>Air Preparation Filter</u>



Water Separator **DMA**



Clean Air Filter/ **Hollow Fiber Element**



Motor Operated Auto Drain NOM



Main Line Filter XFF



Clean Air Module LLB



Heavy Duty Auto Drain



Super Mist Separator AME



Auto Drain Valve VD



Differential Pressure Gauge GD40



Modular F.R.L. Unit



Modular Type F.R.L. Unit AC



Regulator AR



Mist Separator Regulator AWM



Air Filter



Lubricator AL



Modular Type F.R.L. Unit ACG



Mist Separator AFM



Filter Regulator AW



Filter Regulator with Build In Pressure Gauge AWG





Pilot Operated Regulator AR



Precision Regulator IR



Precision Clean Regulator SRP

Regulators



Compact Manifold Regulator ARM5



Vacuum Regulator IRV



Clean Regulator/ Fluororesin Type SRF



Direct Operated Precision Regulator ARP



Power Valve Precision Regulator VEX



Direct Operated Regulator For 6Mpa VCHR



Speed Controller







Elbow Type/Universal



Elbow Type Metal Body AS



Type

In Line **Type**



Large Flow In Line Type AS



In Line Push Locking **Type AS**



Residual Pressure Release Valve AS

Stainless Steel Series 21

Pilot Check Valve ASP