

YASKAWA

ARKEL

eker
Büyük Eker Beton Sanayi ve Ticaret A.Ş.



Montanari Giulio & C.

PUMALIFT
Asansör

BUTKON

SCHAFFNER

ABB



SHAHELI GROUP

SHAHELI GROUP

www.shaheligrouppbd.com

SHAHELI GROUP

“Shaheli Elevators”, took its birth in **Mar’ 2010**. It started the journey as Proprietorship Company with the elevator spares and installation of elevators. With the passage of time, we had to look towards the market, which are the items needed widely for the **Elevator Sector**. Basing on to the market survey, “Shaheli Elevators” started the business with “Yaskawa Electric Corporation” and with “Arkel Electric Ltd”. “Yaskawa Electric Corporation”, **JAPAN** is a first line Inverter manufacturer in the world and “Arkel Electric Ltd”, **TURKEY** is a very renowned manufacturer of the **Elevator Control System** in the world. Soon after our successful business, “Shaheli Elevators”, got the approval of “**Authorised Distributor of Yaskawa**” and also the “**Authorised Distributor of Arkel**” in **Bangladesh**. Up to the mid of 2015, we had the business with **L1000A** Series only. We imported a huge amount of **Yaskawa Inverters** within a very short span of time. From the year of 2015, we started looking towards the Industrial Sector of **Bangladesh**. Everybody knows that, **Bangladesh** is an uprising country and during this process an lot of technological developments will take place. It may be expressed as Industrial Revolution in **Bangladesh**. Thinking the future requirement, we established another company named as “**Shahli Mechatronics Limited**”, which is working in the Industrial Sector. So far we did not have any “**Service Centre**”, of **Yaskawa** Products in **Bangladesh**. With our extensive hard works with full dedication and also understanding the future requirements in order to have strong grip over **Bangladesh** market, finally the honorable authority of **Yaskawa**, approved the “**Shaheli Mechatronics Limited**”, as the “**Authorised Service Center**”, in **Bangladesh**. Now we are having a good numbers of qualified Engineers (Trained from home & abroad). With our limited resources we are trying to expand gradually for the brightest possible future of **Yaskawa Products** in **Bangladesh**. We are also the Distributor of **Montanari Drive** (Italian Brand) and **Eker** (Turkish Brand) Motors in Bangladesh. For the auxiliary equipment we are also handling the **SCHAFFNER & ABB** products. We are having many other Industrial and Elevator Products within our Business arena. The **Yaskawa Products** (Both 400 VAC & 200 VAC) that we are handling with now, are as below:

1. L1000A	4. A1000	7. V1000	10. PLC
2. J1000	5. E1000	8. GA700	11. HMI
3. Servo Motors	6. Servo Drives	9. G7	

It is to notice that, we are also working with **Industrial Automation System**. We feel proud to let you know about our valuable advisors, as below:

1. **Dr. Md. Mamunur Rashid (Mamun)** - Scientific Research Computing Specialist, University of Oxford, **The UK**.
2. **Mr. Jahangir Kabir** - MSc Engr - Federal Govt Patent Engineer. Washington DC, **The USA**.
3. **Dr. Mortuja Ahmed** - Trento University, **Italy**.
4. **Dr. Christian** - Humburg, **Germany**.
5. **Dr. Ms Menna Tamper Clair** - Helsinki, **Finland**.
6. **Dr. JK Morteln** - Viena, **Austria**.
7. **Dr. Gabriella** - Mechatrolink Engineer - Milano, **Italy**.

We are Committed to the Followings:

- Managing Power
- Saving Energy
- Ensuring Industrial Safety
- Elevating The Nation
- Saving Lives



HEAVY DUTY SERIES



Normal Duty Applications

● Applications



Heavy Duty Applications

● Applications



Model Number Key:

CIMR - A T 2 A 0004 F A A

Design Revision Order

No.	Region Code	No.	Voltage Class	No.	Customized Specifications	No.	Output Current A	No.	Enclosure Type	No.	Environmental Specifications	
T	Asia	2	3-Phase, 200-240 Vac	A	Standard Model	Note: Indicates the rated output current of the Normal Duty Rating Grounded off to the nearest whole number.	A	IP 00	A	Standard	N	Oil
A	Japan	4	3-Phase, 380-480 Vac	Note: Contact YASKAWA for Information on Software for Cranes and for high-frequency output applications.	F		NEMA Type 1	C	Salt Resistant	P	Moisture, Dust, Vibration	
					J		Finless (IP20)	K	Gas	R	Gas, Vibration	
					L		Finless (IP 00)	M	Humidity, Dust	S	Shock, Vibration	
										T	Oil, Vibration	

Future
Replacement
A1000

HEAVY DUTY SERIES

Model Number Key:

GA70 T 4 004 B B A A

Product Series
GA700 Series
Region Code
A: Japan
T: Asia
Voltage Class
2: 200 V 3-phase
4: 400 V 3-phase
Rated Output Current
See Ratings Table



YASKAWA Compact Drive

High Performance Vector Control

GA700

200 V CLASS
400 V CLASS

Design Revision
Order Code
Environmental Spec
A: Standard
Enclosure
B: IP20
EMC Filter Option
A: No built-in filter
B: C3 built-in
c: C2 built-in

Features:

01. Real Time Clock (RTC).
02. Copy Function With The Key Pad.
03. Bluetooth Functional Key Pad (Optional).
04. Frequency Range, 0-590 Hz.
05. Up to 75 KW Braking Transistor Built In.
06. Built In EMC/RFI Filter (Optional).
07. Built In DC Reactor, Above 18.5 KW.
08. Supports All Communications.
09. Embedded Functional Safety.
10. Special Coated PCB.



MEDIUM HEAVY DUTY SERIES

200 V CLASS, THREE-PHASE INPUT: 0.1 to 18.5 kW

200 V CLASS, SINGLE-PHASE INPUT: 0.1 to 3.7 kW

400 V CLASS, THREE-PHASE INPUT: 0.2 to 18.5 kW

Normal Duty Applications



YASKAWA AC Drive High Performance Vector Control

V1000

Heavy Duty Applications



* The applications shown above can still use the ND rating, provided that the maximum torque required is no more than 120% for 60 s.

Model Number Key:

CIMR -		V	T	2	A	0004	F	A	A	Design Revision Order	
AC DRIVE		A1000 Series									
No.	Region Code	No.	Voltage Class	No.	Customized Specifications	No.	Output Current A	No.	Enclosure Type	No.	Environmental Specifications
T	Asia	B	1-Phase, 200-240 Vac	A	Standard Model	Note: Indicates the rated output current of The Normal Duty Rating Grounded off to the nearest Whole Number.		B	IP20	A	Standard
A	Japan	2	3-Phase, 200-240 Vac	Note: Contact YASKAWA representative for more information on high frequency custom software.				F	NEMA1	M	Humidity, Dust
		4	3-Phase, 380-480 Vac					J	Finless (IP20)	N	Oil
										S	Shock, vibration
										K	Gas

LIGHT HEAVY DUTY SERIES

PH 200V CLASS : 0.1 TO 4KW

PH 200V CLASS : 0.1 TO 18.5KW

PH 400V CLASS : 0.37 TO 22KW

Normal Duty Applications



- Innovative PM Motor Control
- Continuous Operation of Machinery and Equipment for Diagnosis of Predictive Failures
- Improve Efficiency of Production Management with the Introduction of IoT Using Sensing Technology
- 24VDC supply (upto150mA) built in to power external sensors without the need of an SMPS source
- Close loop operation system.



YASKAWA AC Drive Versatile Compact Drive

GA500

Heavy Duty Applications



Selecting a Drive

For a conveyor application using an 11 kW motor, select GA50A2056 and set it for Heavy Duty performance (C6-01=0).

Model Number Key:

CIPR -		GA50	T	4	004	A	B	A	A	Design Revision	
Product Series		Region Code		Voltage Class		Rated Output Current		EMC Filter Option		Enclosure Type	
GA500 Series		T: Asia		B: 200V 1-Phase 2: 200V 3-Phase 4: 400V 3-Phase		See Rating Table		A: Standard E: Built-in		B: IP20	
										Environmental Spec	
										A: Standard	

LIGHT DUTY SERIES

400 V CLASS, 0.75 to 630 kW

Safety & Reliability

Super Energy Saving

Easy of Operation &
Compliance With Environment



YASKAWA AC Drive

Fan, Pump & HVAC

E1000



Model Number Key:

CIMR-		E		T		4		A		0018		F		A		A		Design Revision Order	
AC Drive		E1000 Series																	
No.	Region Code	No.	Voltage Class	No.	Customized Specifications	No.	Output Current A	No.	Enclosure Type	No.	Environmental								
T	Asia	4	3-phase 400 Vac	A	Standard Model	Please refer to above		A	IP00 (above 30kW)	A	Standard								
A	Japan							F	NEM Type1 (Below 22kW)	A	Moisture-proof, dust-resistant								

TEXTILE SERIES

YASKAWA AC Drive
Precision Vector Control

T1000

Resistance to
Fibers and Dust

Energy Saving
Functions

Deceleration of
High Inertia Loads

Control Accuracy

Synchronisation

Speed Accuracy



High Torque
at Zero Speed

Chemical Aggressive
Environments

Resistance to
Power Supply Outage

Multi Axis
Synchronisation

High Torque

SUPER HEAVY DUTY SERIES

- Ratings: 0.5 to 150HP, 240VAC
0.5 to 500HP, 480VAC
- Overload Capacity: Heavy Duty,
150% for 1 minute, 200% peak
- Starting Torque: 150% At frequency:
1.0Hz (V/f), 0.5Hz (open loop vector),
0.0Hz (closed loop vector)
- LCD Keypad Display: 5 Lines x 16 characters,
backlit, 7 languages, copy function
- Microprocessor Logic: 32-bit
- Process Control: PID, reference with PID trim
- Analog Inputs: 5 (2 Programmable), -10 to
+10VDC (20K Ω) or 4 to 20mA (250 Ω), 11 bit
plus sign
- Digital Inputs: 12 (10 Programmable), sinking
or sourcing
- Digital Outputs: 5 Programmable, 3 from A
and 2 open collector



YASKAWA General Purpose Inverter With Advanced Vector Control

Varispeed G7

200 V CLASS 0.4 TO 110 kW (1.2 TO 160 kVA)
200 V CLASS 0.4 TO 300 kW (1.4 TO 460 kVA)

Ultimate Performance Solution

**World's First
480V 3-Level Inverter**

- Pulse Train Input: 1 Programmable, 32 kHz max
- Pulse Train Output: 1 Programmable, 32 kHz max

SPECIALLY DESIGNED FOR THE ELEVATORS/ESCALATORS



YASKAWA AC Drive Gravitational Pull Balanced

L1000A

200 V Class 1.5 to 110 kW
400 V Class 1.5 to 110 kW

Features

- Runs induction and synchronous motors
- Designed compact for tight machine rooms
- Compatible with a wide range of encoders
- Reduced operation time and more powerful braking
- Loaded with auto-tuning features
- Smooth, Comfortable Ride
- Overshoot and anti-vibration control
- High performance starting torque without sensors
- No Braking Unit is needed up to 30 kw.

LIGHT HEAVY DUTY SERIES

200 V CLASS, THREE-PHASE INPUT: 0.1 to 5.5 kW

200 V CLASS, SINGLE-PHASE INPUT: 0.1 to 2.2 kW

400 V CLASS, THREE-PHASE INPUT: 0.2 to 5.5 kW

Normal Duty Applications



Model Number Key:

CIMR-

AC Drive

J

J1000 Series

T

Region Code

2

Voltage Class

A

Customized Specifications

0001

Output Current A

B

Enclosure Type

A

Environmental Specifications

A

Design Revision Order

No.	Region Code
T	Asia
A	Japan

No.	Voltage Class
B	1-Phase, 200-240 Vac
2	3-Phase, 200-240 Vac
4	3-Phase, 380-480 Vac

No.	Customized Specifications
A	Standard Model

No.	Output Current A
Note: Indicates the rated output current of the Normal Duty Rating Grounded off to the nearest whole number.	

No.	Enclosure Type
B	IP20
J	Finless

No.	Environmental Specifications
A	Standard
M	Humidity, dust
N	Oil
S	Shock, vibration



YASKAWA AC Drive
Compact V/f Control Drive

J1000

Heavy Duty Applications



* The applications shown above can still use the ND rating, provided that the maximum torque required is no more than 120% for 60 s.

PERIPHERAL DEVICES AND OPTIONS

● Braking Unit, Braking Resistor, Braking Resistor Unit

Braking units come standard with 200V and 400V class drives 0.4 to 30 kW. If the application requires a braking resistor or braking unit, choose from built-in and stand-alone types in accordance with motor capacity.



Braking Unit



Built-in



Built-in



Stand-alone



Stand-alone








Braking Unit
(CDBR- D)
(CDBR-series)

Braking Resistor
(ERF-150WJ series)

Braking Resistor with Fuse
(CF120-B579 series)

Braking Resistor Unit
(LKEB series)

PERIPHERAL DEVICES AND OPTIONS

Option Cards				
PG Speed Controller Card		PG-B3	Pulse generators and encoders are combined with a feedback signal to detect motor speed. Allows the drive to control the output frequency to keep motor speed constant.	For complimentary and open collector types: 3 track (A, B, Z pulse) Single track compatible (A pulse) Maximum input frequency: 50 kHz Pulse monitor output: Open collector Voltage output for PG: 12 V, max. 200 mA
		PG-X3		For line drivers: 3 track (A, B, Z pulse) Single track compatible (A pulse) Maximum input frequency: 300 kHz Pulse monitor: Matches RS-422 Voltage output for PG: 5 or 12 V, max. 200 mA
		PG-E3		For HEIDENHAIN EnDat2.1/01, EnDat2.2/01, EnDat2.2/22 : Maximum input frequency: 20 kHz Pulse monitor: Matches RS-422 Voltage output for encoder: 5 V 330 mA max or 8 V, 150 mA max. Encoder cable: 20 m max. * Pulse monitor cable: 30 m max. *Use a 17-pin encoder capable manufactured by HEIDENHAIN.
		PG-X2		It is a unique type of feedback card.
		PG-F3		This is also a special type of feedback card.
PROFIBUS		SI-P1		Both SI-P1 and SI-P3/V are the very exclusive type of Profibus for the special applications.
		SI-P3/V		

AUXILIARY EQUIPMENT

SCHAFFNER



RFI Filter



AC Reactors



DC Reactors

ABB



MCB



MCCB

GENERATORS

Engine: Perkins, Deutz, Cummins, Mitsubishi (UK/China).

Alternator: Stamford, Leroy Somer (UK/China).



Range: 20 KVA – 500 KVA

INDUSTRIAL AUTOMATION

(European & Japanese Brands)



HMI

Servo Motor



Servo Drive



ROBOTICS

(YASKAWA, JAPAN)

Multi Axis:

ROBOTS
COBOTS



Motoman HP20F



Motoman GP4



Dual-Arm Robots

ARKEL INTEGRATED CONTROLS

Winner of RED DOT Design Award



reddot tasarım ödülü
2013

WHY ARCODE ?

- Excellent travel comfort thanks to direct landing.
- Shorter travel time in comparison to standard.
- VVVF systems.
- Call cancellation system.
- Energy saving modes.
- Full synchronization.
- Compact modular design.
- Simple and fast installation.
- Suitable for geared & gearless motor.
- Speed: Up to 4 meter/sec.
- 64 stops.
- Conforms EN 81 standard.
- Inverter+ARD+Control Integrated.
- Earthquake safety
- 8 Lifts in group.
- Phase failure/Phase protection system.
- It works with both Serial and Parallel communication systems.



ARCUBE



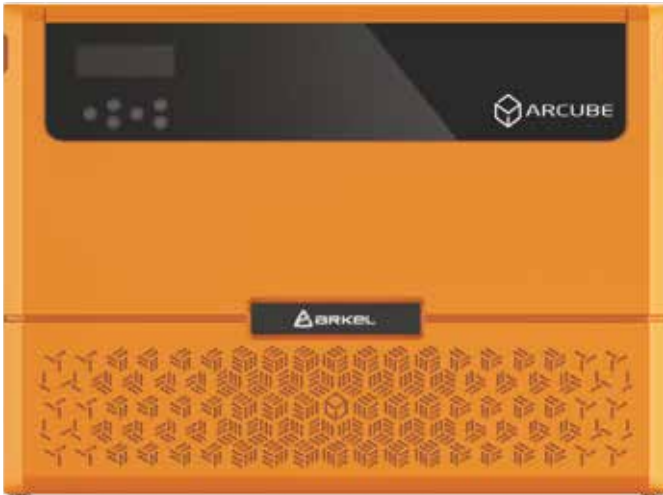
Programming
Key Pad

ARCUBE



ARCUBE FEATURES

- European VVVF Drive Intact Control Panel.
- No Call Back Control With Artificial Intelligence System.
- Supports Rescue Function.
- Both Serial & Parallel System.
- Call Cancellation System.
- Earthquake Safety.
- 1.75 Meter/Second Speed.
- No Anti Roll Back.
- Floor Voice Announcer Integrated.
- Any Type of Display, Like TFT/LED/LCD/DOT Matrix.
- No Magnetic Contactor is Required, STO Function.
- Small, Lightweight and Ready to Install.
- Compatible With EN81-20 Standards.
- Decreased Costs With 24 Core Travelling Cable.
- Direct Landing System.
- Suitable For Both Geared & Gear Less Motors.
- Minimum Expected Life 15 – 20 Years.
- 20% Energy Saving.
- No Additional Keypad is Required.
- Activating With Smart Phone.



ARKEL CONTROLS



ARL 200S

Features:

- Compatible with single speed, two speed and VVVF variable speed systems up to 16 stops.
- Up to 2 lifts in group.
- Designed according to EN 81-1.
- Speed: 1 meter/sec.



ARL 300

Features:

- Compatible with traction and hydraulic lifts up to 24 stops. Up to 1.6 m/s speed.
- Up to 4 lifts in group.
- Designed according to EN 81-1/2+A3.

Features

- In case of mains power failure, it moves the lift which stopped between two floors to floor level, opens the automatic door and passengers are evacuated in safety
- Can be applied to all one speed, two speed or speed-controlled systems.
- Super Fast Charging
- Expected Life Span: 7 Years.

AUTOMATIC RESCUE DEVICE



AKUS SD COMBI



ARKEL ARD

EXTENSION CARD



FX-EXP



FX-SERI

Features

- Communicates with ARL-200 and ARL-300 controllers.
- It is needed when the floors become more than 6 stops
- It is needed when the travelling cable 48 cores.

Features

- G&Z plus is a floor voice announcement and music system designed for elevators.
- G&Z plus uses the sound tiles in mp3 format, which can be transferred to the SD memory card easily
- No additional software is required.
- Just drag and drop your sound files into the corresponding folders in SD card.
- Gray code, binary code, Arkel counter mode and CANbus mode are available as an input mode.
- Independent volume control for announcement and music.
- G&Z plus board comes loaded with default English & Turkish messages from the factory
- Up to 64 stops built in.
- It has it's own speaker system

VOICE ANNOUNCER: G&Z PLUS



LEVEL SENSORS

BI STABLE SWITCH



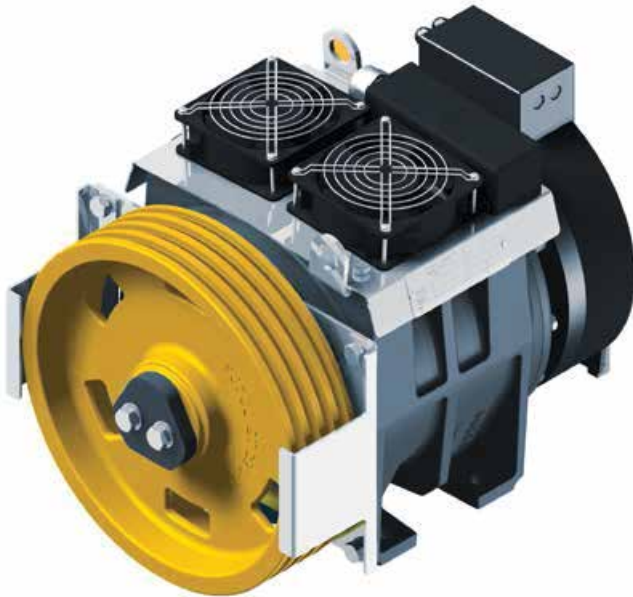
MONO STABLE SWITCH



MOTORS

Montanari Drive

(Italy)



MDX SERIES

STATIC LOAD UP TO: 3400 kg

CAPACITY UP TO: 2000 kg

ROPING: 2:1

SPEED: 0.5 - 1.75 m/sec

PULLEY: \varnothing 200 - 320 mm

RANGE: S / M / ML / L

ENERGY SAVINGS: 25%

EKER

(Turkey)

QS SERIES

STATIC LOAD UP TO: 3600 kg

CAPACITY UP TO: 3500 kg

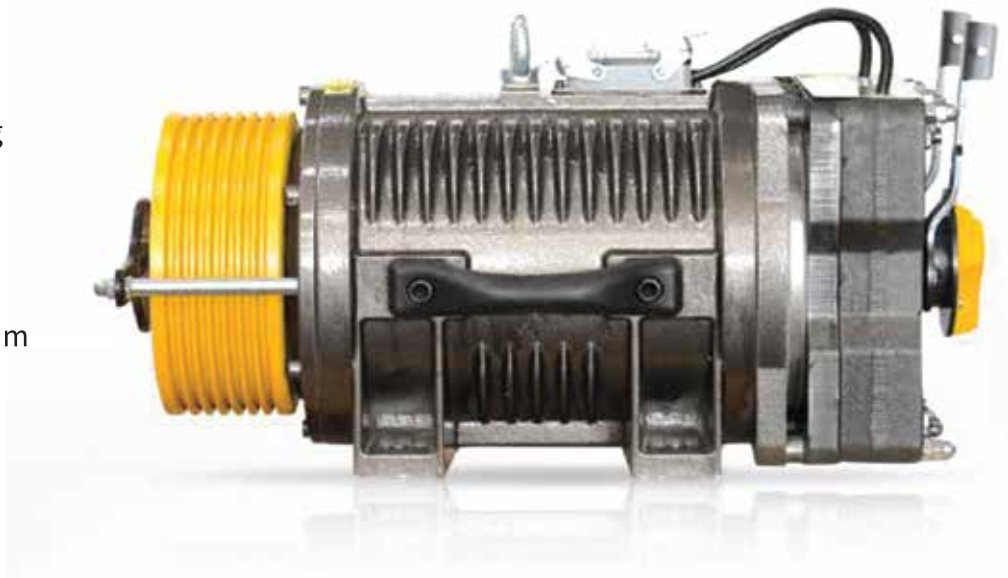
ROPING: 2:1

SPEED: 0.8 - 2.0 m/sec

PULLEY: \varnothing 200 / 320 / 400 - mm

RANGE: QS1 - QS6

ENERGY SAVINGS: 35%



LOP/COP

(European & Chinese Brands)



AUXILIARY ITEMS

(European & Chinese Brands)



Door Inverters (KM-10)



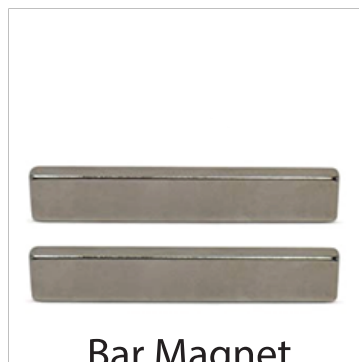
Limit Switch



Round Magnets



Full Height Sensors



Bar Magnet



Encoders

COMPLETE LIFTS

(Turkish Brands)





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SISTER CONCERNS

SHAHELI TRADERS

SHAHELI ELEVATORS

SHAHELI MECHATRONICS LIMITED

SHAHELI CONSULTANCY CONSORTIUM

SHAHELI GREEN POWER LIMITED

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