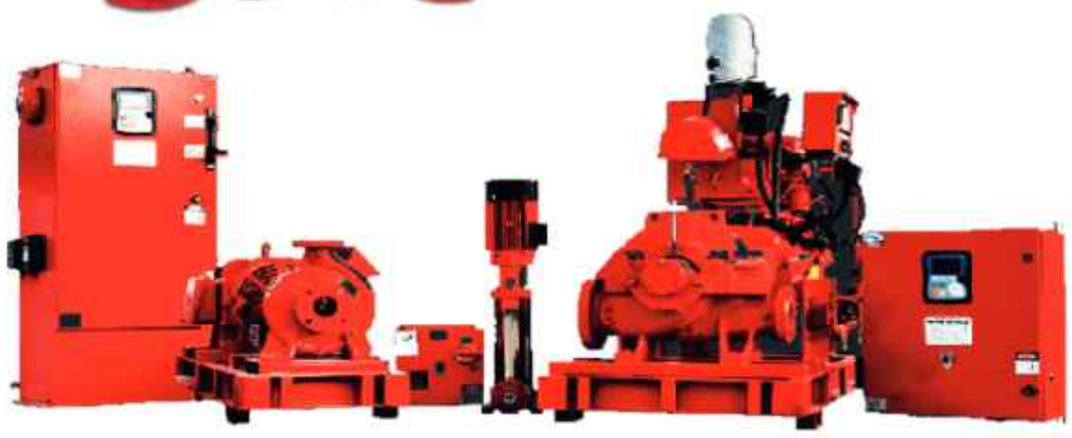
SINE WAVE
POWER & SAFETY TECHNOLOGY

Sine Wave Power & Safety Technology













COMPANY BROCHURE

Corporate Office: House: # 08, Road # 15,
Sector # 06, Uttara, Dhaka-1230, Bangladesh.

+8801999-586174
info.sinewave01@gmail.com

NFPA · ACCORD on Fire and Building Safety in Bangladesh · RSC · Department of Inspection for Factories & Establishments (DIFE) · Nirapon Fire SAFETY FOR ALL · BNBC Bangladesh National Building Code · IEC International Electrotechnical Commission · UL · FM APPROVED

Sine Wave Power & Safety Technology



ABOUT US

Sine Wave Power & Safety Technology is a leading Designer, Supplier, developer and MEP Consultant in the field of Electrical, Mechanical, Fire safety & Security systems since it's founded.

Our combination of facility engineering enables us to deliver sustainable solutions for client's requirement. By combining professional know-how and proven technology with an approach tailored to your specific needs, we also help you improve energy efficiency and environmental performance to reduce facility operating and lifecycle costs. These savings are delivered through best practices and superior designs as a result of our wealth of knowledge, and our vast design and project experience. Our list of past projects and our combination of new and long serving employees offers an unparalleled depth of experience which results in the best solutions and practices for our clients.

We provide quality Engineering services in Electrical, Fire Safety & HVAC sector that reflects the unique need of our customers Garments, Textile, Pharmaceutical, Commercial Building,is now our prior sector to ensure all types of safety and low energy consume.

Our Supplied products and services are in accordance with domestic and international standards (BNBC, NFPA, UL, FM, CE, EN, LPCB, VDS, BSI, and other internationally recognized Certification Authority).we are able to complete the project according to RSC ,ACCORD, ALLIANCE fire service civil defence(FSCD) standard.

VISION

Our vision is to do build a safe secured Work Place for our client .

MISSION

To satisfy our clients by providing the best in quality with reliable services and cost effective solutions without compromising on safety and integrity.

OUR SERVICES



Design & Consultancy:

Fire Alarm & Detection System.
Fire Hydrant System & Sprinkler System.
Electrical Single Line Diagram(SLD) .
Electrical Layout Drawing.
Lightning Protection System (LPS).
HVAC -VRF-Ventilation System Drawing.
Plumbing System Drawing.
Industrial machine layout Drawing.



Supply & Installation:

Fire Alarm & Detection System.
Fire Hydrant System.
Automatic Fire Sprinkler System.
Fire Aspiration System (VESDA).
Fire Rated Door.
Electrical Substation-BBT,HT,LT,MDB Panel.
Lightning Protection System (LPS).
HVAC-VRF, Chiller,Ventilation Fan.



Electrical Test & Docs:

Thermographic Scan.
Earth Resistance Test.
Cable Insulation Resistance test.
Transformer Oil test.
Documentary of Organization.



Security & Automation:

CCTV Surveillance System.
Access Control.
PA System.
Fire Fighter Telephone.
Emergency & Egress Lighting Solution.

WE REPRESENT

➢ Fire Alarm & Detection System (UL)

1. Tyco Fire & Security India Pvt. Ltd.("UL" Listed)
Brand: Simplex, Origin : USA/Mexico
D-601, Campus D, 6th Floor, RMZ Centennial, Kundalahalli Main Road, Bangalore-560 048, India

2. Cooper Industries plc.("UL" Listed)
Brand: ETON/AYZO, Origin : UK
Unit F10, Maynooth Business Campus
Maynooth, Ireland
www.cooperindustries.com

3.Hochiki Asia Pacific Pte. Ltd. (UL Certified).
Brand: Houchiki, Origin : UK
82 Ubi Ave 4, #06-02 Edward Boustead Centre, Singapore
ww.hochikiasiapacific.com

4.Context Plus ltd (Intertek,LPCB Certified)
Brand: Context Plus , Origin : UK
Stockport SK7 5DA, United Kingdom

5.SHIELD Fire, Safety & Security Ltd.(UL Certified)
Brand: SHIELD , Origin : UK
Unit 3, Endeavour Drive
Basildon, Essex SS14 3WF

➢ Fire Protection System (Hydrant & Sprinkler) UL

1. Fire Pump Set (UL/FM Certified).
- **FireX,UAE**,UL LISTED
- **NAFFCO,**UAE.UL LISTED
- **SEMPA,** TURKEY.UL,NONE UL
- **Bristrol ,**UL,UAE

2. MS Pipe, Sprinkler, Valve and Accessories.
MS Pipe,Sprinkler,valve accessories. *("*UL" FM Listed)
TianJin Profound Multinational Trade Co., Ltd.
25th floor, 2nd Tower, Beichen Building,Tianjin, China.
Comprising of follow Branded Manufacturer:

- **Sprinkler : Tyco (USA), Victualic (USA)**
- **Valves & Accessories :** Mech (China), Cla-Val (UK), Influx (UK), Valmatic (USA) ,Winter (USA), Potter (USA), Shield (UK), Gala (China),
- **MS Pipe (Seamless & ERW, 20/40 Schedule) :** JINDAL PIPES LIMITED, China
- **Fire Rated Door:** ("UL", Non-UL), 3 hrs. Fire Rated. Brand: NAFFCO, Origin: UAE.
- **Fire Rated Door:** ("UL", Non-UL), 3 hrs. Fire Rated. Brand: Asico, Origin: China.
- **Fire Suppression:** (FM200-NOVAC), Brand: Fire X Origin:UAE

Fire Simplex Fire Detection System

FEATURES :

1. Industry-leading technology
2. True addressability
3. Forward/backward capability
4. Flexible, tailored solutions
5. Greater value
6. Support up to 2,500 points
7. Fire alarm and emergency voice communication
8. Self-testing notification appliances
9. IP based networking
10. 250 addressable points per Loops



Cooper Fire Detection System

FEATURES :

1. Large versatile touch-screen user interface panel.
2. 2 or 4 Class A Style 7 SLC loops.
3. Event history buffer (9,999 events) with date/time stamp
4. 4 Notification appliance circuit (NAC's) outputs
5. Dedicated alarm, trouble, AC trouble relays
6. Integral short circuit isolators
7. Up to 200 addresses per loop
8. Full network capability up to 126 panels
9. Soft addressed Integral short circuit isolator for each detector.
10. 360° visibility LED using light pipe technology.



Fire Detection System & Accessories

Aspirating Smoke Detector



Open-Area Smoke Imaging Detection (OSID)



Beam Smoke Detector



Flame Detector



Liner Heat Detection System



Air Sampling Pipe & Fittings



Fire Alarm Cable



End Suction Pump



LISTED FM APPROVED NFPA

Type : End Suction
Flow : 50 - 2000 GPM
Head : 77 to 200 PSI
M.W.P. : Up to 300 PSI
Driver : Electric Motor or Diesel Engine
RPM : Up to 3000
Standard : NFPA20, UL, FM, EN12845,CCCF etc.
Certification : UL Listed , FM Approved



LISTED FM APPROVED NFPA

End Suction Pump

Split Case Pump



LISTED FM APPROVED NFPA

Type : Split Case
Flow : 50 - 2000 GPM
Head : 77 to 200 PSI
M.W.P. : Up to 300 PSI
Driver : Electric Motor or Diesel Engine
RPM : Up to 3000
Standard : NFPA20, UL, FM, EN12845,CCCF etc.
Certification : UL Listed , FM Approved

LISTED FM APPROVED NFPA



Split Case Pump

Vertical Turbine Pump

LISTED FM APPROVED NFPA



Type : Vertical Turbine	Type : Vertical Multi Stage
Flow :500 – 5000 GPM	**Flow** :10 – 154 GPM
Head : 77 to 200 PSI	**Head** : 77 to 284 PSI
M.W.P. : Up to 300 PSI	**M.W.P.** : Up to 300 PSI
Driver : Electric Motor or Diesel Engine	**Driver** : Electric Motor
RPM : Up to 3000	**RPM** : Up to 3000
Standard : NFPA20, UL, FM, EN12845,CCCF etc.	**Standard** : NFPA20.
Certification : UL Listed, FM Approved	**Certification** : CE , UL Listed Controller Only



NFPA

Jockey Pump Pump

Fire Pumps & Accessories

Pump Controller

LISTED FM APPROVED NFPA



Designed for use with electric motor / Diesel Engine driven fire pumps.
Range : 208 - 600 volt, 5 - 500 HP, 50 / 60 Hz. Manual and Automatic Operation ViZiTouch 7 inch Color Touch Screen Operator Interface.
Pressure and event Recorder
Standard : NFPA20, UL, FM, EN12845, CCCF etc.
Certification : UL Listed , FM Approved

LISTED FM APPROVED NFPA



Pump Controller

Os&Y Gate Valve



Butterfly Vlave



Non Return Vlave



Standard :	EN 1074-3 UL 312/ AWWA C508	EN 1074-3 UL 312/ AWWA C508	EN 1074-3 UL 312/ AWWA C508
Connection :	Flanged / Grooved /Wafer	Flanged / Grooved /Wafer	Flanged / Grooved /Wafer
Temperature :	0˚C to 100˚C	0˚C to 100˚C	0˚C to 100˚C
W. pressure :	PN 16/ 300 psi (2.07 Mpa / 20 bar)	PN 16/ 300 psi (2.07 Mpa / 20 bar)	PN 16/ 300 psi (2.07 Mpa / 20 bar)
Sizes :	50mm to 300mm	50mm to 300mm	50mm to 300mm
Certification :	NFPA UL LISTED FM APPROVED VdS	NFPA UL LISTED FM APPROVED VdS	NFPA UL LISTED FM APPROVED VdS

Pressure Relief Valve



Y - Strainer

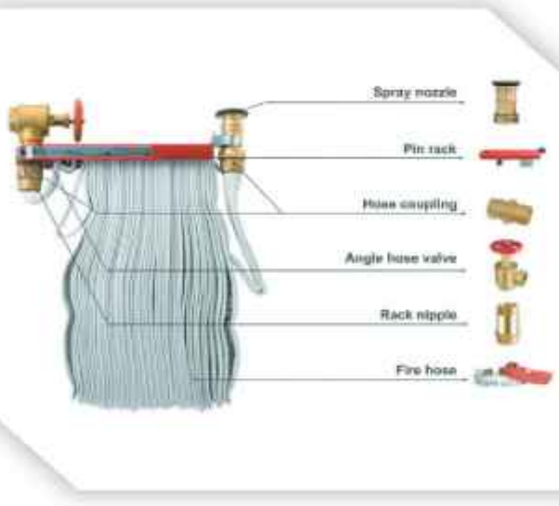


Flow Meter



Standard :	NFPA - 20	UL 321	NFPA
Connection :	Flanged	Flanged / Grooved	Grooved, butt weld, and Wafer
Temperature :	0˚C to 100˚C	0˚C to 100˚C	0˚C to 100˚C
W. pressure :	Max.400 psi	PN 16/ 300 psi (2.07 Mpa / 20 bar)	PN 16/ 300 psi (2.07 Mpa / 20 bar)
Sizes :	80 mm to 300mm	50mm to 300mm	80 mm to 300mm
Certification :	NFPA UL LISTED FM APPROVED	NFPA UL LISTED FM APPROVED	NFPA FM APPROVED

Hose Rack Set



Landing Valve



Fire Dept. Conection



Standard :	ANSI / UL/NFPA	NFPA	NFPA
Connection :	Flanged	Flanged / Threaded	Grooved, butt weld, and Wafer
Temperature :	0˚C to 100˚C	0˚C to 100˚C	0˚C to 100˚C
W. pressure :	Max.400 psi	PN 16/ 300 psi (2.07 Mpa / 20 bar)	PN 16/ 300 psi (2.07 Mpa / 20 bar)
Sizes :	80 mm to 300mm	50mm to 300mm	80 mm to 300mm
Certification :	NFPA UL LISTED FM APPROVED	NFPA LPCB	NFPA LPCB

Test & Drain Valve



Pressure Gauge



Flow Switch



Standard :	UL 258	UL 393/ ASME B40.100	ANSI/ UL 346
Connection :	Female thread, NPT or BSPT	Male thread, NPT or BSPT	Paddle on Straight pipe line
Temperature :	0˚C to 100˚C	-40˚C to 65˚C	0˚C to 68˚C
W. pressure :	175 PSI	PN 16/ 300 psi (2.07 Mpa / 20 bar)	PN 16/ 300 psi (2.07 Mpa / 20 bar)
Sizes :	25mm to 50 mm	15 mm to 25 mm	50mm to 300mm
Certification :	NFPA UL LISTED FM APPROVED VdS	NFPA UL LISTED FM APPROVED VdS	NFPA UL LISTED FM APPROVED VdS

Alarm Check Valve



Pendent Sprinkler



Upright Sprinkler



Standard :	ANSI/ UL 193	ANSI/ UL 199	ANSI/ UL 199
Connection :	Flanged as ANSI B16.1/ EN 1092-2	NPT or BSPT	NPT or BSPT
Temperature :	4˚C to 70˚C	4˚C to 100˚C	4˚C to 100˚C
W. pressure :	175/ 300 psi (1.21/ 2.07 MPa)	175 psi (1.21 MPa)	175 psi (1.21 MPa)
Sizes :	100 mm to 300mm	15 mm to 25 mm	50mm to 300mm
Certification :	NFPA UL LISTED FM APPROVED	NFPA UL LISTED FM APPROVED VdS	NFPA UL LISTED FM APPROVED VdS

MS PIPE



Welded Fittings



Grooved Fittings



Standard :	ASTM	ASME B16.9, EN 10253-1/ EN 10253-2	ANSI/ UL 213C
Connection :	WELDED/THREADED/GROOVED	WELDED	GROOVED
Temperature :	-40˚C to 100˚C	-40˚C to 100˚C	4˚C to 100˚C
W. pressure :	500 PSI	UP TO 500 PSI	UP TO 500 PSI
Sizes :	100 mm to 300 mm	15 mm to 25 mm	50mm to 300mm
Certification :	NFPA UL LISTED FM APPROVED	NFPA	NFPA UL LISTED FM APPROVED VdS

Steel Fire Rated Door



Fully Glazed Doors



NFPA

UL LISTED

Rolling Shutters

NFPA UL LISTED



Wood Finished Steel Door

NFPA

UL LISTED



Fire Rated Curtain



Fire Rated Damper



NFPA UL LISTED

Door Closer

READY STOCK!



UL LISTED

Panic Exit Device

READY STOCK!



UL LISTED

Trim Lock / Exit Device

READY STOCK!



UL LISTED

Electro Magnetic Door Holder

READY STOCK!



UL LISTED

Hinge

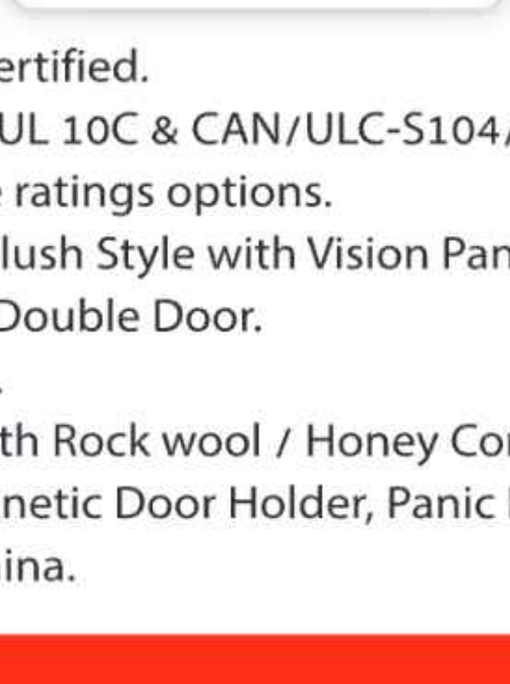
READY STOCK!



UL LISTED

Smoke Seal

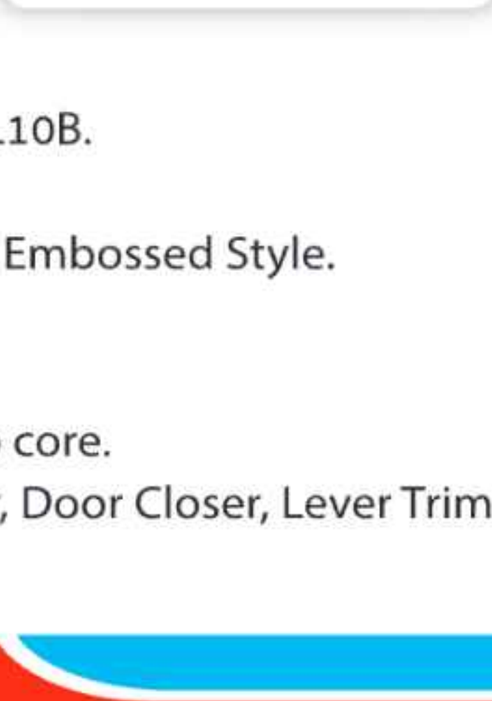
READY STOCK!



UL LISTED

Door Coordinator

READY STOCK!



UL LISTED

Trim Lock / Exit Device

READY STOCK!



UL LISTED

Fire Rated Door, Damper, Curtain & Accessories

- **Certificate:** UL Listed& Certified.
- **Design:** NFPA 252, ANSI/UL 10C & CAN/ULC-S104/UL10B.
- **Rating:** Up to 3 hours fire ratings options.
- **Door Style:** Flush Style, Flush Style with Vision Panel, Embossed Style.
- **Door Type:** Single Door, Double Door.
- **Door Size:** Customizable.
- **Materials:** Steel Sheet with Rock wool / Honey Comb core.
- **Accessories:** Electro Magnetic Door Holder, Panic Bar, Door Closer, Lever Trim etc.
- **Origin:** Thailand, UAE, China.

NAFFCO PASSION TO PROTECT

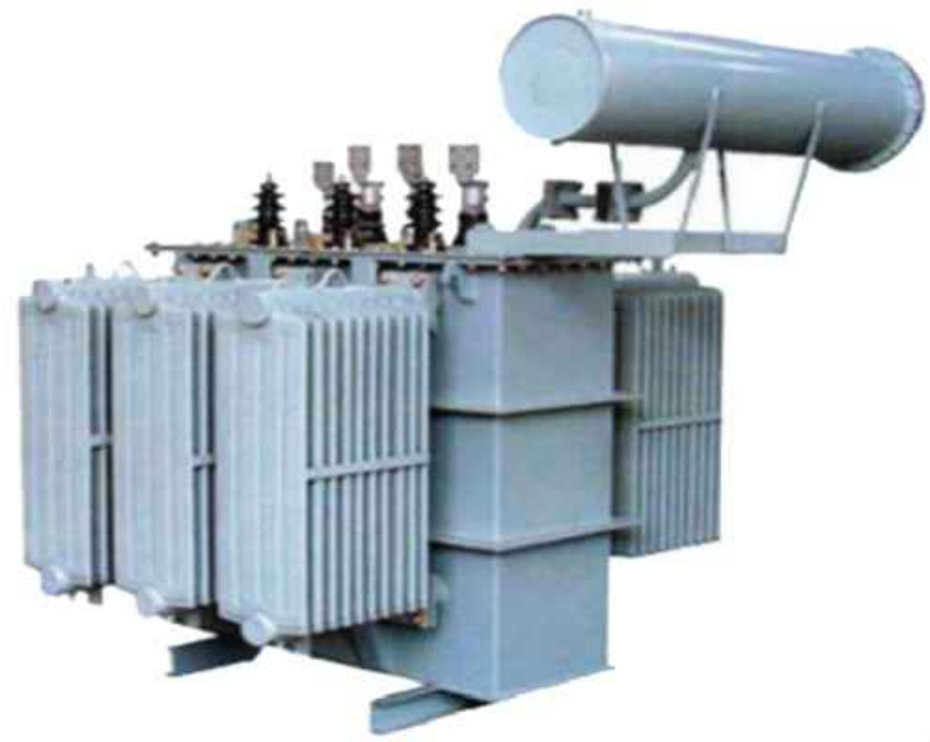
ASICO® Door

Distribution Board (Db)



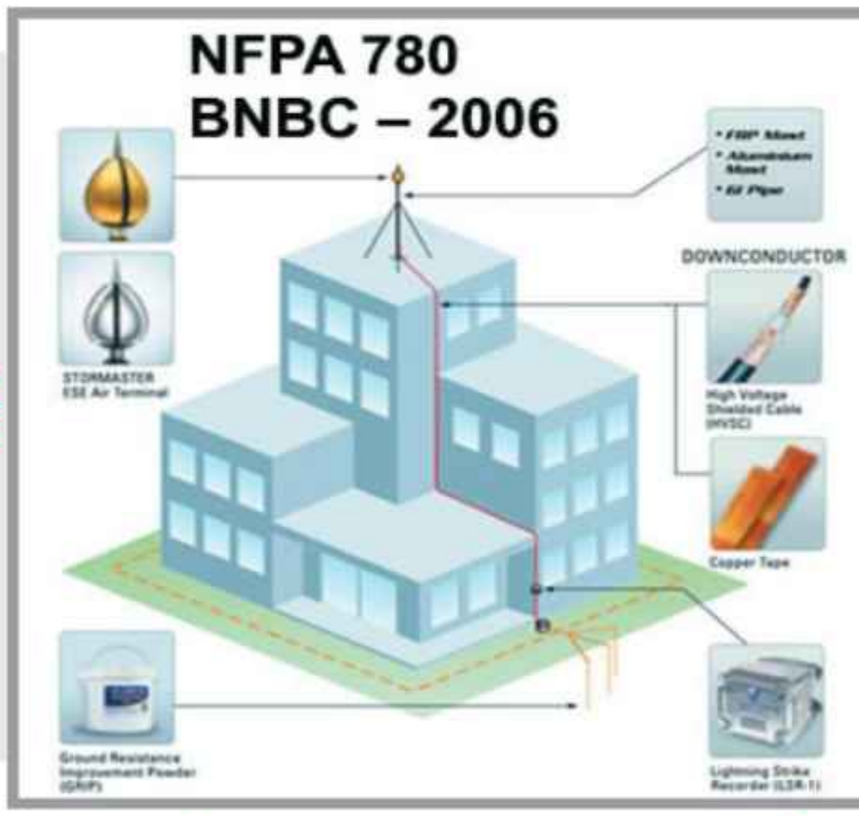
Modular Design
Single bay / Customizable
Rated Voltage up to 440 V
Rated Insulation Voltage up to 1000 V
Rated Frequency - 50 Hz
Protection up to IP55
Ambient Temperature : -4oC to +50 oC
Humidity Max : 50 % at 40 oC

Oil-Immersed Distribution Transformer



Frequency: 60?, 50?
- Primary voltage: 22.9?
- Secondary voltage: 6.6/3.3?
- TAP Voltage: 23.9 - R22.9 - 21.9 - 20.9 - 19.9?
- Vector: Dd0, Dyn11.etc.

L.P.S





- Materials Type : Class-1, Class-2
- Materials : Aluminum or Copper
- Standard : NFPA - 780, BNBC.

AC Drives



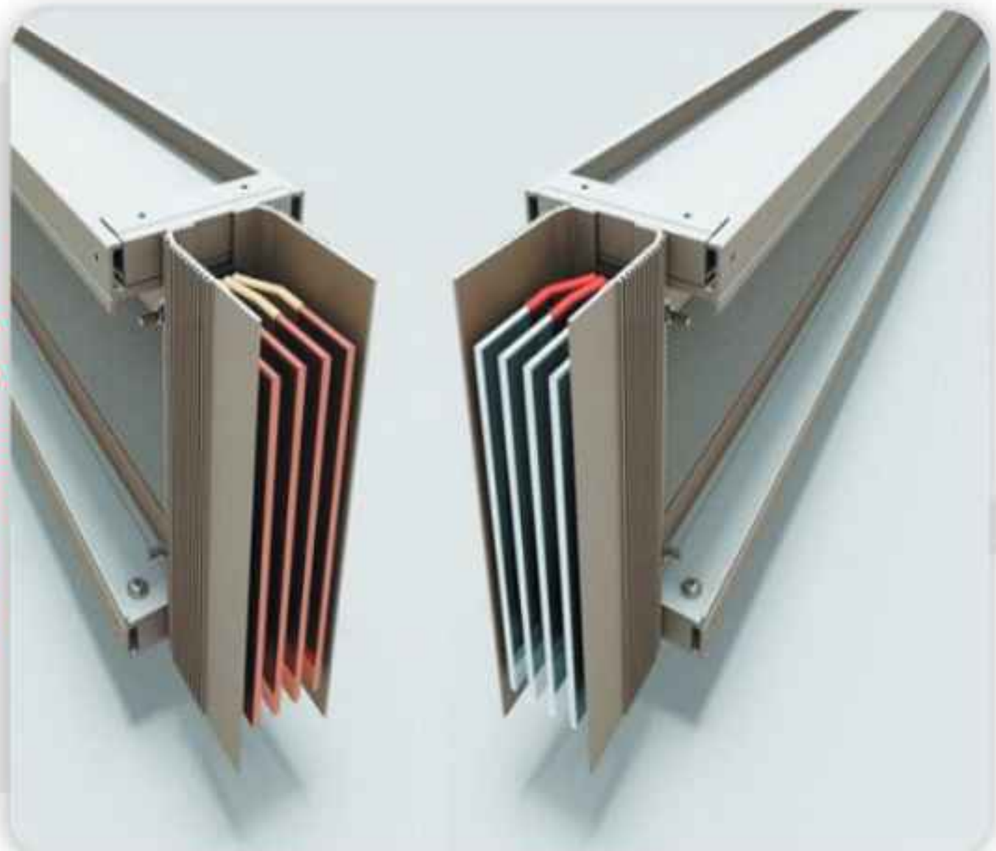
- High-power Characteristics for efficiency and power factor
- Excellent durability and wide output range
- Trip-Free Operation by optional function
- Excellent performance for Speed of response and Torque Control
- Easy maintenance

Transformer, LP.S & AC Drives





Bus BarTrunking System.



Bus BarTrunking System.

- From 25 A to 6300 A Copper or Aluminium Conductor.
- Aluminium external housing
- Protection degree from IP40 to IP68
- Copper / conductors ETP 99.9
- Standard 3 meters straight elements or Customizable
- Executions 2, 4, 2+2, 6, 8 poles
- Fast jointing system
- Not losing tap off boxes
- Plug-in points up to 0,5 m
- No derating up to 41˚C
- Emergency divisor for 2+2, 6, 8 poles
- Frequency: 50/60 Hz
- Insulation up to 24 KV insulation





Bus BarTrunking System & Accessories

Sine Wave Power & Safety Technology

SOME OF OUR VALUABLE CLIENTS

TAMAI KNIT FASHION LTD.

SWEATERS

NATCO
THE MOST TRUSTED PARTNER IN BRAND PACKAGING

EAST WEST INDUSTRIAL PARK
Committed to Development & Craftmanship

SHANIN GROUP

PANORAMA
Consulting Engineers

ABDUL MONEM LTD.

নিউ রফিক অটো রাইস মিল

PEARL HOTEL
THE AFFORDABLE LUXURY

Mahdeen Group

TRENT SHOES

JTI

CORETEX APPARELS LTD.

ESPRIT
Apparels Ltd.

JAMIR HEIGHTS
MATARBARI CNG STATION, MOHESKHALI, COX'S BAZAR.

NFPA · ACCORD on Fire and Building Safety in Bangladesh · RSC · Department of Inspection for Factories & Establishments (DIFE) · Nirapon SAFETY FOR ALL · BNBC · IEC International Electrotechnical Commission · UL · FM APPROVED