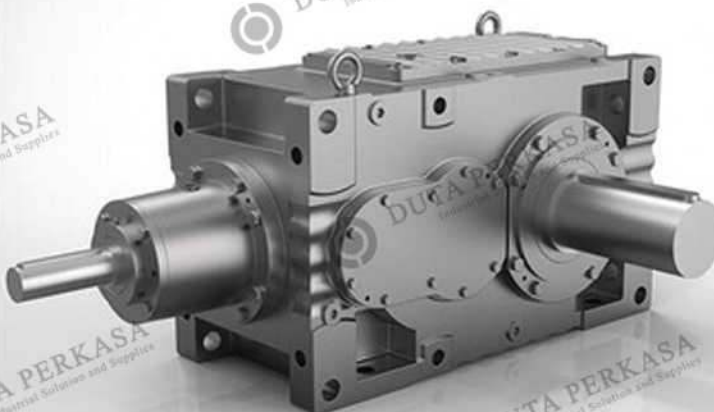


We provide a **COMPLETE** range of
ENGINEERING PRODUCTS



Industrial Supplies and Solutions

ATEX **Ex d IIC T4 Gb**



► **M2BAX**
Cast Iron Motor

Rated Power	0.25 kW ~ 355 kW
Poles	2 to 12 poles
Protection	IP55 as standard
Mounting Way	F / B
Installation Method Voltage	B3, B5, B14, B35, B34 230-400V / 50/60 Hz



► **M2JA**
Explosion Proof Electric Motor

Rated Power	0.55 kW ~ 315 kW
Poles	2 to 12 poles
Protection	IP55 as standard
Mounting Way	Foot Mounted
Installation Method Voltage	B3, B5, B14, B35, B34 380-1140V / 50-100 Hz



► **NXR / HXR**
High Voltage Induction Motor

Rated Power	125 ~ 8000 kW
Poles	2 to 12 poles
Protection	IP55 as standard
Mounting Way	Foot Mounted
Installation Method Voltage	B3, B5, B14, B35, B34 3000 V / 6000 V / 11000V

Alliance Motori
HEAVY DUTY

Heavy Duty Series



► **A-ZZJ**
DC Motor

Rated Power	15 kW ~ 186 kW
Rated Voltage	220 V - 440 V
Rated Speed	500 - 3000 RPM
Field Voltage	110 / 160 / 220 VDC
Field Speed	200 - 3000 RPM
Optional	Encoder, Brakes, Tacho Generator, Double Cone Shaft



► **A-YRKK / YRS**
Slip Ring Motor

Rated Power	15 kW ~ 12500 kW
Rated Voltage	380 V - 11000 V
Rated Speed	500 - 3000 RPM
Optional	PT100 & Space heater Liquid Resistance Starter Oil Bath Lubrication for Slide Bearing



► **A-YKK / YKS**
Medium/High Voltage Motor

Output Power	15 kW ~ 12500 kW
Frame Voltage	160 to 1200 380 V - 11000 V
Rated Speed	500 - 3000 RPM
Optional	PT100 & Space Heater Oil Bath Lubrication For Slide Bearing



► **A-YJP**
Inverter Duty Motor

Rated Power	1.5 kW ~ 1250 kW
Frame	112 To 400
Voltage	220 V to 660 V
Rated Speed	500 - 3000 RPM



► **A-Z4**
DC Motor

Rated Power	1.5 kW ~ 600 kW
Protection	IP54/44/23/21S
Armature V	220 - 440 VDC
Rated Speed	100 - 3000 RPM
Field Speed	200 - 3000 RPM
Field Voltage	110 / 160 / 220 VDC
Frame	100 - 450
Ambient Temp.	0 - 45°C



► **A-YVFZ**
Inverter Duty Motor

Output Power	1.5 kW ~ 1250 kW
Frame	400 - 560
Voltage	380 - 660 V
Rated Speed	750 - 3000 RPM
Insulation	Class H
Protection Duty	IP55, IP56 S1, S2, S3, S4, S5, S6



► **SJY**
Single Phase Heavy Duty

Available Range	1/4HP - 5HP
Specifications	Cast Iron Body IP44, IP54, Class B, Class F
Cooling Method Voltage	IC411 220V, (50/60Hz)



► **A-YL / A-YC**
Single Phase Motor (General Purpose)

Available Range	0.25HP - 5HP
Specifications	Aluminium Casing Top Cover Terminal Box, IP55, Class F
3 Phase, Mounted Voltage	B3, B5, B35, B14, B34 220 / 380V, (50/60Hz)



► **A-Y3A**
Eco-Drive Motor (General Purpose)

Available Range	0.5HP - 430HP
Specifications	Cast Iron Casing, Top Cover Terminal Box, IP55, Class F
3 Phase, Mounted Voltage	B3, B5, B35 220 / 380V, (50/60Hz) 380 / 660V, (50/60Hz)



► **A-Y3E**
Eco-Drive Motor (General Purpose)

Available Range	1 HP - 430 HP
Specifications	Cast Iron Casing, Top Cover Terminal Box, IP55, Class F
Installation Method Voltage	B3, B5, B35, V1 220 / 380V, (50/60Hz) 380 / 660V, (50/60Hz)



► **A-Y3H**
Heavy Duty

Available Range	0.5 HP ~ 425HP
Specifications	Cast Iron Casing, Top Cover Terminal Box, SKF Bearing, IP55, Class F
3 Phase, Mounted Voltage	B3, B5, B14, B35 220 / 380V, (50/60Hz) 380 / 660V, (50/60Hz)



► **A-Y3X (IE2/IE3)**
High Efficiency Motor

Available Range	1 HP ~ 425HP
Specifications	Cast Iron Casing, Top Cover Terminal Box, SKF Bearing, IP55, Class F
3 Phase, Mounted Voltage	B3, B5, B14, B35 220 / 380V, (50/60Hz) 380 / 660V, (50/60Hz)



► **A-Y3B**
Brake Motor

Available Range	0.12 HP ~ 25HP
Specifications	DC Brake, Top Cover Terminal Box, IP55 Protection, Class F
3 Phase, Mounted Voltage	B3, B5, B35, B14, B34 220 / 380V, (50/60Hz) 380 / 660V, (50/60Hz)



► **A-YVF (Converter-FED)**
Inverter Duty Motor

Rated Power	0.75 kW ~ 315kW
Specifications	Cast Iron Casing Top SKF Bearing, IP55, Class F
Installation Method Voltage	B3, B5, B35, V1 380V / 50 Hz



► **A-YCT**
Eddy Current Motor



► **A-Y3G (Class H Motor)**
High Temperature 300C Motor



► **BAA**
Squirrel Cage
Induction Motor



► **Nerimotori**
Dual Speed Brake Motor
Crane Motor



► **Torque Motor**



► MVSI Series



► VB Series



► MVTX Series



► MVSS Series



► MVCC Series



► CDX Series



► MTF Series



► VU Series



► Micro



► M3 Series



► MVB / MVB-FLC



► ITV-VR / ITVAF



► Vibravar



► Multivar



► VAM Series (1 Phase, 220V)
VA Series (3 Phase, 220V/360V)



► AF/T Series
Concrete Vibrator Motor



► AVI Series
Heavy Duty Vibrator Motor



► AVM Series
Premium Vibrator Motor

Premium Helical Gear Motor

AC Iron 0.25 kW - 30 kW



▶ ITH
Inline Helical Gearmotor



▶ ITB
Helical Bevel Gearmotor



▶ ITS
Parallel Shaft Mounted Gearmotor

AC Alu 0.09 kW - 5.5 kW



▶ CM
Worm Gearmotor



▶ CMP
Helical Worm Gearmotor



▶ CMM
Double Worm Gearmotor



▶ CMG
Mini Helical Gearmotor



▶ CMB
Mini Bevel Gearmotor



▶ ATS
Mini Parallel Shaft Gearmotor



▶ PU/PG



▶ DC
DC Gearmotor



▶ VAM
Mechanical Variator



Industrial Gearbox



► ZDY Series

Power Range	1.1 - 6000 KW
Transmission Ratio Range	1.25 - 500
Output Torque (Kn,m)	Top to 520



► ZLY Series

Power Range	1.1 - 6000 KW
Transmission Ratio Range	1.25 - 500
Output Torque (Kn,m)	Top to 520



► ZSY / ZFY Series

Power Range	1.1 - 6000 KW
Transmission Ratio Range	1.25 - 500
Output Torque (Kn,m)	Top to 520



► V Series Right Angle Gearbox

Power Range	4 - 6000 KW
Transmission Ratio Range	1.25 - 450
Output Torque (Kn,m)	Top to 950



► P Series Parallel Gearbox

Power Range	4 - 6000 KW
Transmission Ratio Range	1.25 - 450
Output Torque (Kn,m)	Top to 950



► ZLYJ Extruder Gearbox

Power Range	5.5 - 200 KW
Transmission Ratio Range	8 - 35
Output Torque (Kn,m)	Top to 42

Cycloidal & Planetary Gearbox



► BWD / XWD Series

Power Range	0.12 - 90 KW
Transmission Ratio Range	7 - 650000
Output Torque (Kn,m)	Top to 30



► BLD / XLD Series

Power Range	0.12 - 90 KW
Transmission Ratio Range	7 - 650000
Output Torque (Kn,m)	Top to 30



► GX Series Gearbox

Power Range	0.37 - 12000 KW
Transmission Ratio Range	25 - 4000
Output Torque (Kn,m)	Top to 2600

AC Inductions Motor



▶ **AC Motor 3W**
Gearhead Model | 0IK3GN-B, 0IK3GN-D



▶ **AC Motor 6W**
Gearhead Model | 2IK6GN-A, 2IK6GN-E, 2IK6GN-C, 2IK6GN-H, 2IK6GN-S



▶ **Spiral Bevel Right Angle 25W**
25W, 40W, 60W, 90W, 120W 90mm, 120W 100mm, 140W, 200W

DC Gear Motor



▶ **DC Motor Z2D6 - 6W**
Z2D6, Z2D10, Z2D15, Z3D25, Z4D25, Z4D40, Z5D40, Z5D60, Z5D90, Z5D120, Z6D250, Z55D250.



▶ **Spiral Bevel Right Angle 25W**
Z4D25, Z4D40, Z5D40, Z5D60, Z5D90, Z5D120, Z6D250, Z55D250



▶ **ZDWE(F) Series Gear Box**
Motor Power : 50 - 5000 W

High Precision Planetary Gearbox

Other Products



▶ **Small AC Gear Motor** | 1#, 2#, 2#B, 3#, 4#, 5#, 6#, Flange Type



▶ **RV Planetary Gearbox**
BXC, BXE



▶ **Hypoid Gear Motor**
HP Gearbox
HPM Motor



▶ **DC Brushless Gear Motor**
Z2BLD25, Z4BLD60, Z5BLD60, Z5BLD120, Z6BLD200



▶ **Roller Motor**
AC Drum Motor
Brushless DC Drum Motor



▶ **Electric Forklift Gear Motor, Power Assisted Steering & Driving Wheel Gear Motor**
Brush 60W, 90W & Brushless ZMJ-3, ZMJ-4, ZMJ-6, ZMJ-7, ZMJ-8



Brushless ZMJ-3



▶ **Controller**



▶ **Automatic Door Matic & Sweeping Gear Motor**
Z90DP24200-32S, Z90DP48200-32S, Z130D650-24A1, Z130D750-24A1



Brush Z32DPN



Brushless Z32BLDPN



Reducer ZPNφ32

▶ **Transmission Planetary Gearbox**
Brush, Brushless, Reducer

Helical & Bevel Gearbox



► AR

Sizes	27-37-47-57-67-77-87 97-107-137-147-167
M ₂ max (1400rpm)	18000 Nm
Ratio	1.3 ~ 27001
Power	0.12 ~ 160 kW



► ARF

Sizes	27-37-47-57-67-77-87 97-107-137-147-167
M ₂ max (1400rpm)	18000 Nm
Ratio	1.3 ~ 27001
Power	0.12 ~ 160 kW



► AF

Sizes	27-37-47-57-67-77-87 97-107-137-147-167
M ₂ max (1400rpm)	18000 Nm
Ratio	3.77 ~ 31434
Power	0.12 ~ 200 kW



► AK

Sizes	37-47-57-67-77-87-97 107-127-157-167-187
M ₂ max (1400rpm)	50000 Nm
Ratio	3.98 ~ 32625
Power	0.12 ~ 200 kW



► AS

Sizes	37-47-57-67-77-87-97 107-127-157-167-187
M ₂ max (1400rpm)	5000 Nm
Ratio	3.98 ~ 32625
Power	0.12 ~ 200 kW



► ARX

Sizes	57-67-87-97-107
M ₂ max (1400rpm)	830 Nm
Ratio	1.30 ~ 6.45
Power	0.12 ~ 45 kW

Worm Gearbox



► RV

Sizes	27-37-47-57-67-77-87 97-107-137-147-167
M ₂ max (1400rpm)	18000 Nm
Ratio	1.3 ~ 27001
Power	0.12 ~ 160 kW



► RVL

Sizes	37-47-57-67-77-87-97 107-127-157-167-187
M ₂ max (1400rpm)	5000 Nm
Ratio	3.98 ~ 32625
Power	0.12 ~ 200 kW



► RVE Combination

Sizes	57-67-87-97-107
M ₂ max (1400rpm)	830 Nm
Ratio	1.30 ~ 6.45
Power	0.12 ~ 45 kW

Compact Gearmotor

► G3LM/G3FM Series

Sizes	18-22-28-32
M ₂ max (1400rpm)	120 Nm
Ratio	5 ~ 200
Power	0.1 ~ 1.5 kW


► G3LS Series

Sizes	18-22-28-32
M ₂ max (1400rpm)	120 Nm
Ratio	5 ~ 200
Power	0.1 ~ 1.5 kW


► G3L Series

Sizes	18-22-28-32
M ₂ max (1400rpm)	120 Nm
Ratio	5 ~ 200
Power	0.1 ~ 1.5 kW

Mini Helical Gearbox

► CHCZ ... P (IEC)

Sizes	01-02-03-04
M ₂ max (1400rpm)	500 Nm
Ratio	3.66 ~ 54
Power	0.12 ~ 4 kW


► CHCF ... P (IEC)

Sizes	01-02-03-04
M ₂ max (1400rpm)	500 Nm
Ratio	3.66 ~ 54
Power	0.12 ~ 4 kW


► CHCZ ... HS

Sizes	01-02-03-04
M ₂ max (1400rpm)	500 Nm
Ratio	3.66 ~ 54
Power	0.12 ~ 4 kW

Variator

► Variable Helical Gearmotor

Sizes	037 - 075 - 1.5 2.2 - 4 - 7.5
M ₂ max (1400rpm)	1.000 Nm
Ratio	5
Power	0.18 ~ 4 kW


► Variator Foot Mounting

Sizes	037 - 075 - 1.5 2.2 - 4 - 7.5
M ₂ max (1400rpm)	1.000 Nm
Ratio	5
Power	0.18 ~ 4 kW


► Variator Flange Mounting

Sizes	037 - 075 - 1.5 2.2 - 4 - 7.5
M ₂ max (1400rpm)	1.000Nm
Ratio	5
Power	0.18 ~ 4 kW

Worm Gearbox



► WPA Worm Gear

Sizes	40-50-60-70-80-100-120 135-155-175-200-250
Ratio	1/10 ~ 1/60



► WPS Worm Gear

Sizes	40-50-60-70-80-100-120 135-155-175-200-250
Ratio	1/10 ~ 1/60



► WPO & WPX Worm Gear

Sizes	40-50-60-70-80-100-120 135-155-175-200-250
Ratio	1/10 ~ 1/60



► WPDA Worm Gear

Sizes	50-60-70-80-100 120-135-155
Ratio	1/10 ~ 1/60



► WPDS Worm Gear

Sizes	50-60-70-80-100-120-135 147-155-175-200-250
Ratio	1/10 ~ 1/60



► WPDO & WPDx Worm Gear

Sizes	50-60-70-80-100-120-135 147-155-175-200-250
Ratio	1/10 ~ 1/60



► WPEDO Worm Gear



► WPEDA Worm Gear



► WPEDX Worm Gear



► WPEDKO Worm Gear



► WPEDKA Worm Gear



► WPEDKS Worm Gear

Other Gear Products



Submersible Pump (Wastewater & Dewatering)



► **B Series Submersible Impeller Pump**



► **NH Series Cast iron Submersible Wastewater Pump**



► **TRN Series Submersible Self Aspiration Aerator**



► **TSR Series Root Blower**



► **KTZ Series**



► **PU Series**

LOWARA a xylem brand



► **CEA, CA Stainless Steel Threaded Centrifugal Pump**



► **CO Threaded Centrifugal Pump With Open Impeller**



► **HM Horizontal Multistage Pump**



► **SV Stainless Steel Vertical Multistage Pump**



► **DOMO Submersible Solid Handling Wastewater Pump**



► **GS Series Borehole Pump**

Centrifugal Pump



► **FA / FCK Series**
Close & Semi Open Impeller
Centrifugal Pump



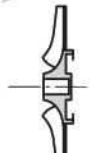
► **FES Series**
Vortex-NonClogging Centrifugal Pump



► **FP & FC Series**
Semi Open & Open Impeller
Chemical Pump

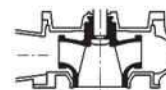


TYPES OF IMPELLERS



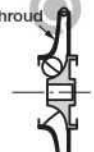
Open Impeller

This type of impeller has no shroud. The structure is classified into the "semi-open type" that extends the main plate to the impeller periphery, and a "full-open type" that has the main plate shortened to the minimum.



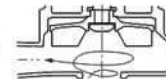
Shrouded Channel Impeller

The suction inlet and discharge outlet utilize the same passage duct. Shaped similar to a closed impeller, this type is efficient for pumping liquids that contain solids and fibrous materials.



Closed Impeller

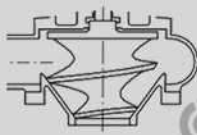
This type of impeller integrates a shroud on the suction side.



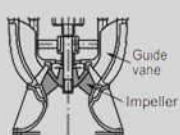
Vortex Impeller

This type of impeller pumps up a fluid via a vortex flow between the impeller and the casing. This structure prevents foreign objects (solids, fiber, etc.) from clogging inside, thus providing a higher pass-through performance.

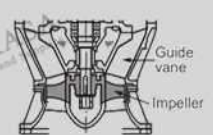
SPECIAL TYPES OF IMPELLERS



Screw Impeller



Mixed Flow Impeller



Axial Flow Impeller

Centrifugal Pump



▶ **FVM Series**
Vertical Multistage
Centrifugal Pump



▶ **LP Series**
Vertical Turbine
Pump



▶ **TK Series**
Single Stage In-line
Centrifugal Pump



▶ **TD Series**
Vertical In-Line
Centrifugal Pump



▶ **FHM Series**
Horizontal Multistage
Centrifugal Pump



▶ **FZC(G) Series**
Coaxial Pump



▶ **FMS Series**
Centrifugal Pump



▶ **FJ Series**
Self-Priming Pump



▶ **FWP Series**
Non-Clogging Centrifugal Pump



▶ **SLD Series**
Single-suction Multi-stage
Centrifugal Pump



▶ **DG Series**
Boiler Water Supply Pump



▶ **2BE1-355 Series**
Liquid Ring Vacuum Pump



▶ **FAS Series**
Double-Suction Split
Casing Pump



▶ **HW Series**
Surface Centrifugal Mixed
Flow Pump

Submersible Pump



Support By
Franklin Electric



▶ **SP Series** -
Deepwell Intake Pumps

▶ **FLS Series**
Submersible Pump

▶ **FLT Series** - Drainage Pump

▶ **EXH Series** -
Submersible Drainage
Pump [Evergush]

Blower



▶ **2FB Series**
Side Channel Blower
High Flow, Low Pressure



▶ **3FB Series**
Side Channel Blower
High Flow, Low Pressure



▶ **4FB Series**
Side Channel Blower
High Flow, Low Pressure



▶ **FCX Turbo Blower**

Metering Pump



▶ **FMP Series**
Solenoid - Mechanical
Diaphragm Metering Pump



▶ **LXLC-50A-500A Series**
Woltman Flow Meter



▶ **JSX Series**



▶ **2J-X Series**

Lobe Pump

▶ **FFL Series**
Lobe Pump



Slurry Pump



▶ **AD-QV Series**
Vertical Slurry Pump



▶ **A-YZ Series**
Vertical Slurry Pump



▶ **AD-G Series**
Gravel Pump



▶ **AD-SC Series**
Medium & Light Duty
Slurry Pump



▶ **AD-HH Series**
High Head Heavy Duty
Slurry Pump



▶ **AD-AH Series**
Heavy Duty Slurry Pump



▶ **AD-D Series**
Dredge Pump



▶ **Slurry Pump**



▶ **FSA End Suction Volute Pump**



▶ **Southern Cross ISO PRO**



▶ **ETA.N End Suction Volute Pump**

Other Centrifugal Pump



► **CHL / CHLF**
Multistage Pump

Capacity	Q up to 240 m³/h
Head	H up to 305 m
Speed	n 2900 rpm or 3500 rpm
Temperature	T up to 120°C
Power	P up to 110 kW



► **CDL / CDLF**
Vertical Multistage Pump

Capacity	Q up to 240 m³/h
Head	H up to 305 m
Speed	n 2900 rpm or 3500 rpm
Temperature	T up to 120°C
Power	P up to 110 kW



► **SJ Stainless Steel**
Submersible Borehole Pump

Capacity	Q up to 260 m³/h
Head	H up to 381 m
Speed	n 2900 rpm or 3500 rpm
Temperature	T up to 25°C
Power	P up to 110 kW



► **ZS Series Steel Horizontal**
Single Stage Centrifugal Pump

Capacity	Q up to 200 m³/h
Head	H up to 70 m
Speed	n 2900 rpm or 3500 rpm
Temperature	T up to 100°C
Power	P up to 37 kW



SIDE CHANNEL PUMPS



► **ASK Series**

Capacity	Max. 160 U.S. GPM Max. 185 U.S. GPM
Total Head	Max. 1150 feet Max. 1600 feet
Speed	1450 rpm 1750 rpm
Nominal Pressure	580 PSI
Temperature	Max. 180°C
Shaft Sealing	Mechanical Seal



► **SK Series**

Capacity	Max. 160 U.S. GPM Max. 185 U.S. GPM
Total Head	Max. 1150 feet Max. 1600 feet
Speed	1450 rpm 1750 rpm
Nominal Pressure	383 PSI (580 PSI upon request)
Temperature	Max. 120°C (>120°C upon request)
Shaft Sealing	Mechanical Seal
Connection	DIN 2501 PN 40; ANSI Optional
Dimensions Of Flanges	



► **VH Series**

Flow Rate Q in m³/h	Max. 616
Suction pressure in mbara	Max. 33
Motor performance in kW (P2)	15 - 18.50



► **VHC Series**

Flow Rate Q in m³/h	Max. 1589
Total Head H in m WS	Max. 33
Motor performance in kW (P2)	30 - 45



► **VG Series**

Flow Rate Q in m³/h	Max. 48
Total Head H in m WS	Max. 70
Motor performance in kW (P2)	1.10 - 1.50



► **VU Series**

Flow Rate Q in m³/h	Max. 420
Total Head H in m WS	Max. 33
Motor performance in kW (P2)	7.50 - 11



► **ES Series**

Nominal Pressure (PN)	40 Bar / 580 psi
Max. Temperature (Water)	105 °C
Ambient Temperature	-20°C to + 40°C



► **TOE-GN Series**

Flow Rate Q in m³/h	Max. 550
Suction pressure in mbara	Max. 33
Liquids	water max. 160 °C water max. 180 °C upon request oil max. 350 °C

Other Centrifugal Pump

Pump

Fire Hydrant Pump



A-LINE

XBC (D) Series Horizontal Split Case Fire Pump Set - NFPA20

Fire Pump Set	Electric Motor Fire Pump Set
Split Case Pump Model	XBD11/25-S ~ XBD10.0/350-S10 (7 Basic Models)
End Suction Pump Model	XBD3.5/5-X ~ XBD13.5/30-X (15 Basic Models)
Vertical Type Pump Model	XBD6/20 (1 Basic Models)
Vertical Multistage Pump	XBD8.0/10 ~ XBD8.3/55 (9 Basic Models)

Fire Pump Set	Diesel Fire Pump Set
Split Case Pump Model	XBC5.4/25-S ~ XBC10.0/350-S (5 Basic Models)
End Suction Pump Model	XBC13.5/30-X (1 Basic Models)
Vertical Type Pump Model	No
Vertical Multistage Pump	No

Petrochemical Pump



HE Series Petrochemical Pump

Capacity Range	~2700 m³/h
Head Range	~300 m
Design Pressure	~5.0 Mpa
Temperature	~80°C ≤ T < 450°C
Standard	API610 10th
Pump Material	HT250, QT450-12, C95200 or C83600, SS304, SS316, Duplex SS31803 & SS32750

Thermal Oil Pump And Multistage Pump



► Thermal Oil and Hot Water Pump

Technical data*	EtalocSYT	EtalineSYT	Etanorm SYT/RSY	
Flow rate up to	280 / 337	316 / 228	1900 / 2280	m³/h
Head up to	68 / 99	69 / 101	102 / 90	m
Fluid	Thermal Oil	-30 to +350	-30 to +350	-30 to +350
temperature	Hot water	-30 to +180	-30 to +180	-30 to +180
Operating Pressure up to	16	16	16	bar
* Values for 50 Hz / 60 Hz				
Automation Option : PumpDrive				

► KSB Multitech

Capacity	Max. 900 U.S. GPM
Total Head	Max. 320 feet
Speed	2000 / 3500 rpm
Temperature	350°C
Shaft Sealing	Mechanical Seal (Sealless Pump Available)

Vertical Double Suction Pump



ASG Series Vertical Double Suction Pump

Dosing Pump



► Plastic Pump



► Air Operated Diaphragm Pump



► P Series Dosing Pump

Elements	316LSS, Non Removable
Housing	316SS
Flanges	RFSO, ANSI B16.5, Class 150LB
Other Materials Available	CS, Monel, Alloy 20, Hastelloy C, Consult factory, For larger sizes, injection ports, other specials, consult factory.



► GM Series Dosing Pump

Flow Rate	up to 500 l/h
Pressure	up to 12 bar
	- Mechanically actuated diaphragm - Variable eccentric drive mechanism - Homogeneous or Heterogeneous multiplexing capabilities



► **GL Series**

Model		GL-13-5	GL-13-10	GL-20-5	GL-20-10	GL-25-5	GL-25-10	GL-32-5	GL-32-10	GL-40-5	GL-40-10	GL-50-5	GL-50-10
Connection Dia		13 mm (½")		20 mm (¾")		25 mm (1")		32 mm (1¼")		40 mm (1½")		50 mm (1")	
Power		0.4 kW 0.75 kW		0.75 kW 1.5 kW		1.5 kW 2.2 kW		2.2 kW 3.7 kW		2.2 kW 5.5 kW		3.7 kW 7.5 kW	
Poles		4 P								6 P			
Max. Pressure		0.5 MPa (5kgf/cm²)	1 MPa (10kgf/cm²)	0.5 MPa (5kgf/cm²)	1 MPa (10kgf/cm²)	0.5 MPa (5kgf/cm²)	1 MPa (10kgf/cm²)	0.5 MPa (5kgf/cm²)	1 MPa (10kgf/cm²)	0.5 MPa (5kgf/cm²)	1 MPa (10kgf/cm²)	0.5 MPa (5kgf/cm²)	1 MPa (10kgf/cm²)
Delivery Volume	60 Hz (1720 rpm)	20 L/min (5 USG/min)		35 L/min (9 USG/min)		5 L/min (14 USG/min)		85 L/min (22 USG/min)		123 L/min (32 USG/min)		200 L/min (52 USG/min)	
	50 Hz (1450 rpm)	17 L/min (4 USG/min)		29 L/min (7 USG/min)		46 L/min (12 USG/min)		71 L/min (18 USG/min)		100 L/min (26 USG/min)		165 L/min (43 USG/min)	
Coupling		ZDC								JIS			
Pump Shaft Dia		φ18								φ22			
Gross Weight		6kg (13.2 lbs)		7kg (15.4 lbs)		8kg (17.6 lbs)		12kg (26.4 lbs)		23kg (50.7 lbs)		26kg (57.3 lbs)	
Dimensions LxWxH (mm)		234 x 160 x 170		234 x 160 x 170		234 x 160 x 170		317 x 160 x 170		328 x 268 x 235		328 x 268 x 235	
Packing Unit		1											



► **GC Series**

Model	GC-13	GB-13	GC-20	GB-20	GC-20	GB-20
Gear Material	GC : Cast Iron (entire) / GB : Brass					
Connection Dia	13 mm (1/2")	20 mm (3/4")	13 mm (1/2")	20 mm (3/4")	13 mm (1/2")	20 mm (3/4")
Delivery Revolution : 200 rpm	10 L/min (2 USG/min)	18 L/min (4 USG/min)	27 L/min (7 USG/min)	55 L/min (14 USG/min)	83 L/min (22 USG/min)	
Delivery Revolution : 400 rpm	21 L/min (5 USG/min)	37 L/min (9 USG/min)	55 L/min (14 USG/min)	83 L/min (22 USG/min)		
Delivery Revolution : 600 rpm	32 L/min (8 USG/min)	56 L/min (14 USG/min)	83 L/min (22 USG/min)			
Delivery Pressure Syphoning Factor	0.1 - 0.3 MPa (1 - 3 kg/cm ²) 3 m (10 ft)					
Power	200 W	400 W	750 W			
Pulley	125 x A1	150 x A1	200 x A1			
Gross Weight	17.5 kg (38.6 lbs)	25 kg (55.1 lbs)	22.5 kg (49.6 lbs)			
Dimension LxWxH (mm)	316 x 283 x 211	492 x 262 x 194	397 x 277 x 265			
Packing Unit	4			2		



► **GB Series**



Gear Pump



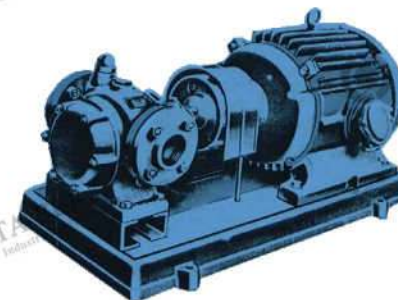
INTERSIGMA



► **Asphalt Pump**



► **2CY Series**



► **ZPG Series**
Low-pressure Rotary Gear Pump



► **YCB Series**



► **KCB Series**

Type	Rated Flow [ltr/min]	Total Head [kg/cm ²]
ZPG 4	89	2 ~ 6
ZPG 5	132	2 ~ 6
ZPG 6	185	2 ~ 6
ZPG 7	240	2 ~ 6
ZPG 8	435	2 ~ 6
ZPG 9	550	2 ~ 6
ZPG 10	985	2 ~ 6

Rated Flow	Total Head	Power	Liquid Temperature	Speed
20 ~ 273 ltr/min	2 ~ 6 kg/cm ²	0.33 ~ 4.5 kw	Max +80°C	280 ~ 930 rpm

Aerator Products

► **Surge Aerator - Wave Maker Aerator (Type SG0.75 ~ SG1.5)**

Power	1 ~ 2 hp / 0.75 ~ 1.5 kw
Aerobic Cap	≥ 1.1 ~ ≥ 2.3 Kg/h



► **Paddle Wheel Aerator (Type TB-2 ~ TB-5)**

Power	2 ~ 5 hp / 1.5 ~ 4.0 kw
Aerobic Cap	1.9 ~ 4.9 Kg/h



► **Floating Ball Aerator**



► **Water Farming Aerator**



► **New SS Host Turbine Aerator (Type TB-2 ~ TB-5)**

Power	2 ~ 5 hp / 1.5 ~ 4.0 kw
Aerobic Cap	1.9 ~ 4.9 Kg/h



Diesel Engine Aerator



► **Diesel Engine Aerator**

► **Electric Engine Start Paddle Aerator**

DIN Products



▶ Water and Lug Type Butterfly Valve With Pin [PN10-16]



▶ Metal Seated Non Rising Stem Gate Valve [PN10-16]



▶ Globe Valve [PN10-16]



▶ Ball Valve [PN10-16]



▶ Swing Check Valve [PN10-16]



▶ Silence Check Valve [PN10-16]



▶ A-Type Flange Y Strainer [PN10-16]



▶ Foot Valve With Screen [PN10-16]

JIS Products



▶ Water Butterfly Valve [10K]



▶ Non Rising Stem Gate Valve [10K]



▶ Globe Valve [10K]



▶ Reduced Bore Ball Valve [10K]



▶ Swing Check Valve [10K]



▶ Vertical Check Valve [10K]



▶ Y Strainer [10K]



▶ Foot Valve [10K]



▶ Flexible Joint [PN10-16, JIS10K]

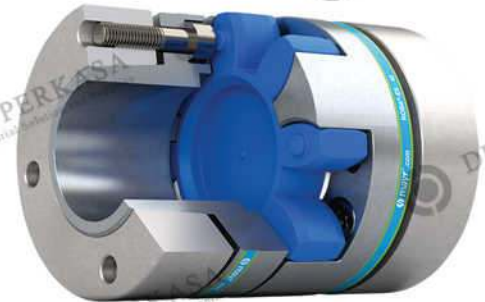
Shaft Coupling



▶ Smartflex



▶ ROBA - DS



▶ ROBA - ES



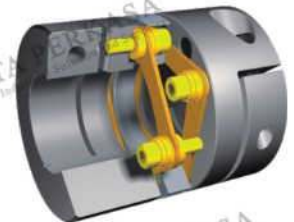
▶ ROBA - DX



▶ ROBA - Capping Head



▶ Primeflex



▶ Roba - DS (Servo)



▶ Coupling FCL [Pin & Bush]



▶ Coupling KC [Chain]



▶ Coupling F [Tyre-Flex]



Type	FCL : 90-100-112-125-140-160 FCL : 180-200-224-250-280-315 FCL : 355-400-450-560-630-710b
Max Bore	20 ~ 180
Max Torque	15 ~ 25000

Coupling Number	3012-4012-4014-4016-5014-5016 5018-6018-6020-6022-8018-8020 8022-10020-12018-12022
Shaft Dia.	11 ~ 150
Max Torque	0.249 ~ 186

Type	F : 40-50-60-70-80-90-100-110 F : 120-140-160-180-200-220 F : 250
Max Bore	32 ~ 190
Max Speed	100 ~ 3600



► Coupling L/SW [Jaw-Flex]

Type	L/SW : 035-050-070-075-095-100 L/SW : 110-150-190-225-276
Max Bore	9.5 ~ 73.0
Max Torque	0.4 ~ 533.0



► Coupling CJ [Jaw-Flex]

Type Aluminium Diecasting (Al-D)	CJ : 9-14-19 CJ : 19-24-28-38-42 CJ : 48-55-65-75-90
Type Steel	
Max Bore	19 ~ 200
Max Torque	10 ~ 18650



► Coupling HRC [Jaw-Flex]

Type	HRC : 70-90-110-130-150-180 HRC : 230-280
Max Bore	25 ~ 100
Max Torque	72 ~ 7200



► Coupling B H-UEPEX [Jaw-Flex]

Type	BHU : 58-68-80-95-110-125-140 BHU : 160-180-200-225-250-280
Max Bore	19 ~ 110
Max Torque	19 ~ 3900



► Coupling MH [Jaw-Flex]

Type	MH : 45-55-65-80-90-115-130 MH : 145-175-200
Max Speed	6,000 ~ 3,600 Rpm
Max Torque	0.98 ~ 245



► Coupling NM [Jaw-Flex]

Type	NM : 50-67-82-97-112-128-148 NM : 168-194-214-240-265
Max Bore	19 ~ 120
Max Torque	1.3 ~ 417



► Coupling OMS [Elastomeric-Flex]

Type	OMS : 2-3-4-5-10-20-30-40-50 OMS : 60-70-80-100-120-140
Max Bore	1.13 ~ 11.00
Max Torque	190 ~ 340.200



► Coupling SM [Tyre-Flex]

Type	SM : 12-16-25-30-35
Max Bore	32 ~ 100
Nom DBSE	80 ~ 180



► Coupling RRS [Jaw-Flex]

Type	RRS : 095-100, 095-140, 095-180 RRS : 150-100, 150-140, 150-180 RRS : 225-100, 225-140, 225-180
Max Bore	28.6 ~ 66.7
Max Torque	21.9 ~ 264.0 Nm



► Coupling MC / MCT + Spares [Cone-Flex]

Type	MC / MCT : 020-030-038-042-048-058 MC / MCT : 070-075-085-105-120-135 MC / MCT : 150-170-190-215-240-265
Max Bore	20 ~ 265
Max Speed	0,56 ~ 1044



► Coupling MB [B-Flex]

Type	105-3, 116-4, 125-4, 144-6, 162-6 178-6, 198-10, 228-11, 252-12 285-11, 320-12, 360-11, 400-10
Max Bore	30 ~ 600 (Bush Half)
Max Bore	32 ~ 600 (Pin Half)



► Rigid Coupling

Type	RM : 12-16-25-30-35-40-45-50
Max Bore	32 ~ 125 (Metric)
Max Bore	1 1/4" ~ 5" (Inch)



► Coupling SGD [Gear-Flex]

Type	SGD : 10-15-20-25-30-35-40-45 SGD : 50-55-60-70-80-90-100
Max Bore	52 ~ 330
Outer Dia.	116 ~ 711



► Coupling SGT [Grid-Flex]

Type	SGT : 1020-1030-1040-1050-1060 SGT : 1070-1080-1090-1100-1110 SGT : 1120-1130-1140-1150-1160
Max Bore	30 ~ 240
Max Speed	0,5 ~ 3515.89



► Coupling SPG [Polygear]

Type	SPG : 19-24-28-32-38-42-48-65
Max Bore	20 ~ 65
Max Speed	0.17 ~ 4.00



► Coupling SLPGT [Polytex]

Type	SLPGT-1, SLPGT-2, SLPGT-3 SLPGT-4
Max Bore	25 ~ 55
Max Speed	0.4 ~ 4.5



► Coupling LM [Disc-O-Flex]

Type	LM : 5-10-35-95-170-220-400-520 LM : 1000-1300-2000-2500
Max Bore	20 ~ 135
Max Speed	0.35 ~ 140



► Taperbush

Type	Bush : 1008-1108-1210-1215-1610-1615 Bush : 2012-2017-2517-2525-3020-3030 Bush : 3535-4040-4545-5050
Max Bore	12 ~ 125
App. Kg	0.13 ~ 8.9

Electric Chain Hoist



0,5-3
TON

Electric Chain Hoist Type HHXG-A

Type	HHXG-A-005-1S, HHXG-A-010-1S, HHXG-A-020-2S, HHXG-A-030-3S
Capacity	0,5 ~ 3 Ton



0,25-5
TON

Electric Chain Hoist Type SHH-A

Type	SHH-A-003-1S, SHH-A-003-1D, SHH-A-005-1S, SHH-A-005-1D, SHH-A-010-1S, SHH-A-010-1D, SHH-A-020-2S, SHH-A-020-2D, SHH-A-030-1S, SHH-A-030-1D, SHH-A-050-2S, SHH-A-050-2D
Capacity	0,25 ~ 5 Ton
Load Chain Dimension	Φ 5 x 15 - Φ 11.2 x 34



0,25-5
TON

Electric Chain Hoist With Trolley Type SHH-AM

Type	SHH-AM : 003-1S, 003-1D, 005-1S, 005-1D, 010-1S, 010-1D, 020-1S, 020-1D, 030-1S, 030-1D, 050-1S, 050-1D
Cap.	0,25 ~ 5 Ton
Load Chain Dimension	Φ 5 x 15 - Φ 11.2 x 34

Electric Chain Hoist Type SHH-A/AM

Type	SHH-A-100-4S, SHH-A-100-4D, SHH-AM-1004S, SHH-AM-100-4D
Capacity	10 Ton
Load Chain Dimension	Φ 11.2 x 34



10
TON

Chain Block



Chain Block HSZ-A622

Type	Z005-A622, Z010-A622, Z015-A622, Z020-A622, Z020S-A622, Z030-A622, Z050-A622, Z100-A622, Z200-A622, Z300-A622
Capacity	0,5 ~ 30 Ton
Load Chain	6x18 ~ 10x30 mm



Hand Lever Block HSH-A620

Type	H008-A620, H010-A620, H015-A620, H020-A620, H030-A620, H060-A620, H090-A620
Capacity	0,75 ~ 9 Ton
Load Chain	6x18 ~ 10x30 mm



Gear Trolley, Manual Trolley GCL810 | GCT810

Type	L005-810, L010-810, L020-810, L030-810, L050-810, L100-810
Capacity	0,5 ~ 10 Ton
Proof Load	0.625 ~ 12.5 Ton

Wire Rope Hoist

► Wire Rope Hoist SH1-SD1 Series

Type	SH1-SD1
Capacity	1 ~ 16 Ton
Lifting Speed	8 (0.8/8) ~ 3,5 (0.35/3.5) m/min
Travel Speed	20/30 ~ 18 m/min
Rotation Speed	1380 r/min
Power Source	Three-phase AC380V 50Hz

► Wire Rope Hoist SHA-A Series

Type	SHA-4A, SHA-5A, SHA-6A, SHA-7A, SHA-8A
Capacity	1,6 ~ 32 Ton
Lifting Speed	9 9/3 ~ 3,5 3,5/0,9 m/min

► Wire Rope Hoist With Trolley SHA-B Series

Type	SHA-4B, SHA5B, SHA-6B, SHA-7B, SHA-8B
Capacity	1,6 ~ 20 Ton
Lifting Speed	9 9/3 ~ 3,5 3,5/0,9 m/min

Supporting System



PUSH BUTTON CONTROL

Back lug for firm grip
+ Emergency Stop Button



HOOK Forged Carbon Steel Hook



TROLLEY Type DC-A & Type DC-C



CHAIN High Strength, Rust and Wear Resistant Load Chain



ELECTROMAGNETIC BRAKE Smart Brake Technology



FAN BLADE & COVER Totally Enclosed Fan Cooled (TEFC) Motor.



FRICTION CLUTCH With Mechanical Load Brake Standard on ER models.

Safety Brake



▶ ROBA - Stop - M
2 - 1000 Nm



▶ ROBA - Stop - Z
100 - 10000 Nm



▶ ROBA - Stop - S
100 - 10000 Nm



▶ ROBA - Topstop

Electromagnetic Clutch And Brake



▶ ROBA - Takt



▶ ROBA - Quickbrake/Clutch



▶ ROBA - Alphastop



▶ ROBA - Stop - Silenzio

Torque Limiters



▶ ROBA- Contitorque
4 - 600 Nm



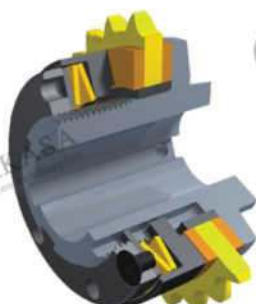
▶ EAS - Element Clutch
160 - 10000 Nm



▶ EAS - Standard



▶ EAS - SP/SM/ZR



▶ ROBA - Slip Hub



▶ EAS - Compact R/RA



▶ EAS - Axial



▶ EAS - Smartic

LED Light

zumin



► Led High Bay



► Led Tube Light

Industrial Encoders

SCANDON Industrial Encoders



► SCH68B



► SCH94



► SHC68H

Inverters

cutes corp.



ABB



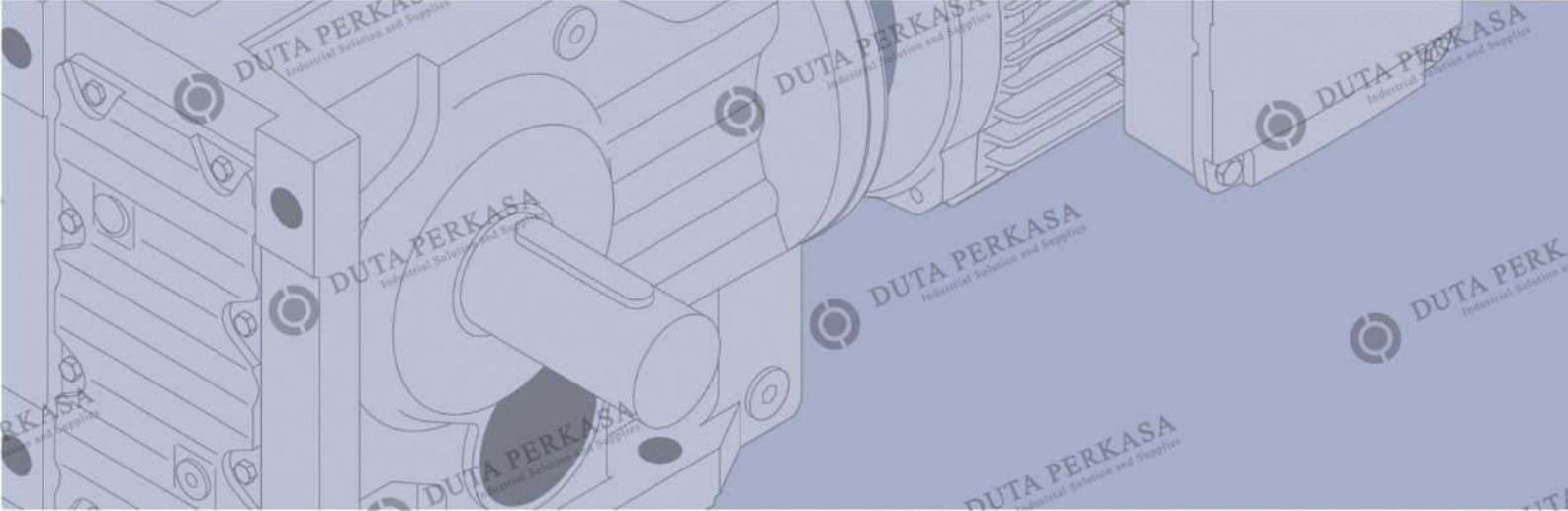
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Air Compressor

BISON[®] AIR COMPRESSOR





Dealer