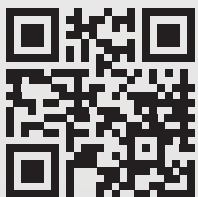




## ARK VISION SPARE & ENGINEERING PTE LTD



[www.ark-vision.com](http://www.ark-vision.com)



**bizSAFE<sub>4</sub>**

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## ABOUT US

Ark Vision Spare & Engineering Pte Ltd was incorporated in August 1998. We are head-quartered in Singapore operating from our own 32,000 square feet warehouse & workshop in TUAS Ave 1 in close proximity to shipyards and other key supporting services, e.g., equipment manufacturers, machining & logistics service providers, etc. Ark Vision is a focused marine spare parts and machinery supplier for shipping related establishments and is engaged in the:

- Stocking of wide variety of machinery & spare parts for Main & Auxiliary Engines, Air Compressors, Fuel Oil and Lube Oil Purifiers, Turbochargers, Pumps, Hydraulic Motors & Pumps, Boilers, etc.
- Supply of Genuine & OEM, New and Reconditioned Spare Parts (larger components) and re-manufactured machinery
- Servicing and remanufacturing of 2 stroke and 4 stroke marine diesel engines as well as ancillary equipment, i.e., air compressors, purifiers, pumps, turbochargers, hydraulic pumps & motors, etc.
- We provide re-conditioned Main Engine Piston Crowns, Exhaust Valve Spindles & Seats as well as MAN B&W MC series & Wartsila RTA Exhaust Valve complete assembly and Purifiers, Auxiliary Engine Cylinder Covers & Connecting Rods (for Yanmar, Daihatsu, MAN B&W, etc.) on exchange basis. These have been reconditioned or remanufactured according to Makers Instruction Manual.

- Ark Vision is also proud that we have a Purifier Bowl Vertical Balancing Machine from Schenck (Germany) in our workshop in Singapore, allowing us to carry out full balancing of Purifier bowls in-house.
- Sales & Service agent/distributor of H. Cegielski Poznan SA licensee of MAN B&W and Sulzer two stroke and four stroke engines, PMAX washable turbocharger air filters, Northey gas compressors, Fluinamics Water Treatment plants, Gali Group starter motors, HMSA Sewage Treatment Plants, LMF Air Compressors and Magnus Chemicals.
- Market own line of Ark Vision service air compressors, dryers & filters, pneumatic hydraulic pumps, electric motors, hydro blasters and gas freeing fans.

Overseas offices, with workshop & warehouse in:

- Surabaya, Indonesia
- Chittagong, Bangladesh
- Shanghai, China





# MAIN ENGINE (TWO STROKE)

We carry wide array of MAN Diesel, Wartsila, Mitsubishi, Main Engine spares such as

- Cylinder Liners
- Cylinder Covers
- Piston Crowns
- Piston Skirts
- Exhaust valve spindle/seats – Dura, Nimonic
- Plunger/Barrels
- Spindle Guides
- Atomizers
- Piston Rings – Cermet, Alu-coat
- Seal Ring, O-Ring, Gasket, etc.

We offer Genuine & OEM, New & Reconditioned parts.

Exchange program and outright sale of re-conditioned Main Engine Two-Stroke Piston crowns, Exhaust Valve Spindles & Seats as well as Exhaust Valve assembly complete readily available.



CYLINDER HEAD

FOR  
EXCHANGE &  
OUTRIGHT  
SALE



PISTON CROWN &  
PISTON SKIRT



PISTON RING



CYLINDER LINERS



EXHAUST VALVE

FOR  
EXCHANGE &  
OUTRIGHT  
SALE



EXHAUST VALVE SPINDLE &  
SEAT NEW NEW & RECONDITIONED



FUEL PUMP



BEARINGS



AUTOMIZERS & SPINDLE GUIDE



PLUNGER / BARREL



MAIN ENGINE SPARES

# AUXILIARY ENGINE (FOUR STROKE)

We carry ready stock of Yanmar, Daihatsu, MAN B&W, Wartsila, MaK, etc., following items:

- Cylinder Head
- Piston
- Cylinder Liners
- Exhaust & Inlet Valve Spindles / Seats
- Connecting Rod (New/Recond)
- Bearings
- Fuel Pump, Plunger, Barrels & Injector, Nozzle
- Crankshaft
- Complete Engine
- Seal Ring, O-Ring, Gasket, etc.

Exchange program and outright sale of Genuine fully serviced, inspected, calibrated and tested Aux Engine Cylinder Heads and Connecting Rods.



CYLINDER HEAD



CONNECTING ROD



EXHAUST & INLET VALVE SEAT, SPINDLE & GUIDE



CYLINDER LINER



PISTON



CRANKSHAFT



FUEL PUMP, PLUNGER BARREL, INJECTOR, NOZZLE



BEARINGS



COMPLETE ENGINE YANMAR EY18AL



AUXILIARY ENGINE SPARES



# AIR & WATER COOLED AIR COMPRESSORS

Tanabe, Yanmar, Matsubara, Hatlapa, Hamworthy, Sperre, JP Sauer & Sohn are some of the most common brands of main starting air compressors we currently have in stock.

Fully reconditioned and tested complete units are available for quick delivery. We also carry large stock of various spares.



WATER-COOLED AIR COMPRESSOR



AIR COMPRESSOR



AIR COOLED AIR COMPRESSOR



AIR COMPRESSOR SPARES



SCREW AIR COMPRESSOR SPARES



SCREW AIR COMPRESSOR



AIR DRYER (REFRIGERATION)



AIR COND. COMPRESSOR



AIR COND. COMPRESSOR & SPARES



BREATHING APPARATUS  
COMPRESSOR

# PURIFIERS

We have a wide pool of various makes and models of Lube Oil and Fuel Oil Purifiers. Mitsubishi, Alfa Laval, Westfalia are the most common brands we supply. From service kits to complete spares. From bowl assembly to Purifier complete unit.

Re-manufactured purifiers are available on exchange basis and outright sale.



FOR EXCHANGE & OUTRIGHT SALE



FOR EXCHANGE & OUTRIGHT SALE



MITSUBISHI

ALFA LAVAL

WESTFALIA



FOR EXCHANGE & OUTRIGHT SALE



FOR EXCHANGE & OUTRIGHT SALE



MITSUBISHI

ALFA LAVAL

WESTFALIA



PURIFIER SPARES



# PURIFIER BOWL BALANCING MACHINE

Ark Vision has a **SCHENCK** vertical bowl-balancing machine and can carry out balancing of various makes & models of purifiers in our workshop. A complete report will be provided for every completed balancing job.

- Specializing in repair various makes & models of FO and LO purifiers.
- Fully reconditioned & balanced bowl assembly for exchange and outright sale
- Remanufactured complete units available for exchange and outright sale.
- Bowl repair and balancing.
- Full-service exchange program for control circuit boards.



# PUMPS

We carry a ready stock of spares of Shinko, Naniwa, Heishin, Taiko Kikai, Shin Shin, Hamworthy, IMO, Iron, KSB, etc., complete pumps, impellers, shafts, casing/wear rings, casing covers, bearing housing, neck bush, mechanical seals, O-ring, ETC.



VERTICAL CENTRIFUGAL PUMPS



SCREW PUMP



GEAR PUMPS



HORIZONTAL CENTRIFUGAL PUMPS



MECHANICAL SEALS



CARGO PUMP



COMPLETE PUMP RECOND



PUMP SPARES



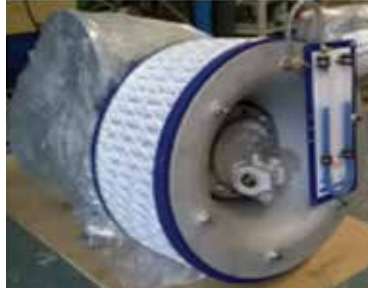


# TURBOCHARGERS

We carry ready stock of ABB, MAN, Niigata Napier, IHI, Mitsubishi, etc., New and Reconditioned units, Inlet and Outlet casing, etc. We also carry Rotor shaft complete (New & Recond units), Nozzle Rings, Turbine Blades, Turbine/Blower Side Bearings, Sealing Bushes, L.O Pumps, Gaskets etc.



TURBOCHARGER



PMAX FILTER & MANOMETER



PMAX FILTER



TURBOCHARGER COMPLETE



ROTOR ASSEMBLY



CARTRIDGE



TURBOCHARGER SPARES



TURBOCHARGER SPARES

# HYDRAULIC MOTORS AND PUMPS

We have a large stock of hydraulic pumps and motors and their spares. Staffa, Kayaba, MacGregor/Hatlapa, Hugglunds, Rexroth, Liebherr, Denison, etc., Hydraulic motors & pumps are some of the more common makes we carry. We continue to build our inventory.



CRANE HYDRAULIC MOTOR



HYDRAULIC MOTORS



HYDRAULIC MOTORS



HYDRAULIC MOTORS



HYDRAULIC MOTORS



HYDRAULIC PUMPS



DOUBLE-SHAFT HYDRAULIC



HYDRAULIC MOTOR



HYDRAULIC MOTOR & PUMPS SPARES



HYDRAULIC MOTOR & PUMPS SPARES



FUEL VALVE TEST DEVICE



# PNEUMATIC HYDRAULIC PUMP

Pneumatic hydraulic pump PHP1500 PHP2250 and PHP3500 developed by Ark Vision Spare & Engineering Pte Ltd, is a dynamic equipment which is easy to use with features as follows:

- Compressed air driven
- Reduced air consumption
- Builds up high hydraulic pressure and holds for extended period without generating any heat
- Low power consumption
- Safety – No arc and spark produce
- It is portable, can move easily



## SPECIFICATION

Model No:	PHP 1500	PHP 2250	PHP 3500
<b>Output Pressure:</b>	1500 bar at 8 bar air input	2250 Bar at 8 bar air input	3500 Bar at 7 bar air input
<b>Air Consumption</b>	300-1050 ltr/min at 8 bar air input	300-1050 ltr/min at 8 bar air input	300-1050 ltr/min at 8 bar air input
<b>Pumping Speed</b>	Approx. 550 cycle/min @ 8 bar air input	Approx. 450 cycle/min @ 8 bar air input	Approx. 400 cycle/min @ 7 bar air input
<b>Displacement per cycle</b>	0.45 cm <sup>3</sup>	0.8 cm <sup>3</sup>	0.85 cm <sup>3</sup>
<b>Max Flow at no pressure</b>	Approx. 0.25 ltr/min @ 8 bar air input	Approx. 0.35 ltr/min @ 8 bar air input	Approx. 0.35m <sup>3</sup> /min @ 7 bar air input
<b>Tank capacity</b>	Approx. 3.5 Liters	Approx. 4.5 Liters	Approx. 8 Liters
<b>Fitting air inlet</b>	G ½	G ½	G ½
<b>Fitting H.P. outlet</b>	G ¼	G ½	G ½
<b>Approx. Dimension</b>	370mm x 255mm x 323mm	430mm x 370mm x 415mm	500mm x 500mm x 420mm
<b>Weight</b>	16 kg (Empty)	28 kg (Empty)	32 kg (Empty)

# ELECTRIC MOTORS



## 3-PHASE INDUCTION MOTORS

440V @ 60 Hz and 380V @ 50 Hz

Range: 0.18kw – 250kw

We are manufacturing Electric Motors under our own Ark Vision brand:

Motors are the power transmission workhorse of industry, converting electrical energy into mechanical movement. Selecting an AC motor for an application depends on considerations such as power, speed control, cost and ease of maintenance.

Our Electric Motors are designed with the following features & benefits:

- Conform to IEC Standard
- Made with carefully selected quality materials
- High performance, low vibration, safe & reliable operation
- Light weight, corrosion resistant
- Easy maintenance & easy installation
- Foot, flange, or foot & flange mounted.



FLANGE MOUNTED



FOOT MOUNTED



FOOT & FLANGE MOUNTED



# ARK 500 BAR HIGH PRESSURE HYDRO BLASTER



Maker	Ark Vision Spare and Engineering Pte Ltd
Model	ARK 500
Voltage Supply	440V/60HZ
POWER	22 KW
Motor Speed	1750rpm
Flow Inlet Pressure	22L/min
Pressure	500 Bar
Max Water Temperature	60°C
Inlet Size	G ¾
Inlet Pressure	5.0Bar
High Pressure Gun	ARK 600
Nozzle Tips	0°, 15°, 25°, 40° plus 1 x spare rotating nozzle
High Pressure Pipe	1 x 30m
Electrical Wire	1 x 5m
Suction Pipe	1 x 3.5m
Dimensions	1030x 720x 850 mm
Weight	380KG

### Advantages of Hydro blasting:

- Environmentally cleaner process than sandblasting
- Reduces manpower saving time and money
- High cleaning efficiency

### Advantages of ARK 500:

- Easy and low maintenance (spares at competitive prices)
- Long service life
- Water supply booster pump & Triple piston pump (maintains pressure and flow rate)
- Simple operation
- 1 year warranty, subject to correct usage in accordance with the user manual guidelines



# MISCELLANEOUS



PEAK PRESS GAUGE



ENGINE INDICATOR



CYLINDER LINER DIAL GAUGE



15PPM BILGE ALARM



OIL MIST DETECTOR SERVICED



AIR HORN



AZIMUTH CIRCLE

# TANK CLEANING EQUIPMENT



TANK CLEANING MACHINES



AIR DRIVEN GAS FREEING FAN



ARK-300W & ARK-400W

WATER DRIVEN GAS FREEING FAN



HERMETIC UTI, MMC TAPES SERVICED & TESTED



DEMUCKING WINCH



AIR MOTOR



TURBO LIGHTS

# RENTAL EQUIPMENT



ENGINE DRIVEN AIR COMPRESSOR



HIGH PRESSURE WATER JET



AIR/WATER DRIVEN GAS FREEING FANS



TURBO LIGHTS

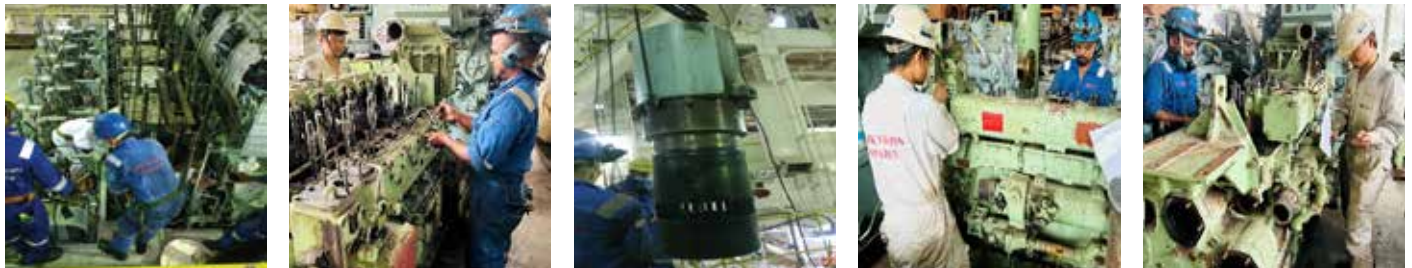


# REPAIRS AND SERVICING

We have a team of Engineers and Technicians to carry out onboard & afloat servicing and repair of the following:

## Diesel Engines

On & off-site repair or complete overhaul 2 and 4 stroke diesel engines. We can provide fully serviced (to maker's specifications) cylinder heads, pistons and connecting rods to reduce downtime significantly.



## Air Compressors

Repair or fully recondition reciprocating or screw type air compressors. Fully recondition air compressors with new spares, e.g., inlet/discharge valves, piston rings, bearings, etc. and carry out function test before dispatch to vessels.



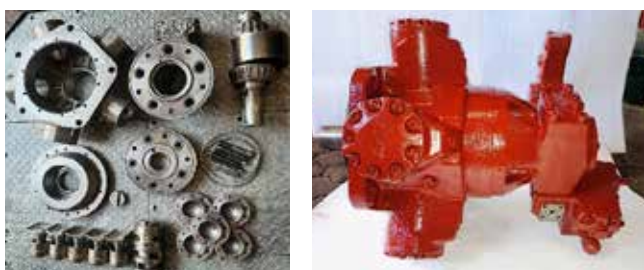
## Purifiers

Full remanufacture of various makes & models of purifiers with fully balanced bowls and function tested in our workshop



## Hydraulic Motors

Fully recondition various makes & types of hydraulic motors & pumps. Load tested in-house.



## Pumps

Repair or fully recondition. Various types of pumps, centrifugal, screw, gear, vane type, European & Japanese pumps.



# DISTRIBUTORSHIP

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H. Cegielski-Poznań S.A. (short name HCP) is the licensee for MAN B&W and Sulzer two stroke and four stroke marine diesel engines.

Ark Vision is the Authorized Sales & Service Agent for South East Asia.

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Fluinamics, S.L., makers of Reverse Osmosis type water makers. They specialise in the treatment of both drinking water and urban waste, providing products, design and manufacturing.

Ark Vision is the Authorized for Sales & Service in Singapore, Malaysia, Thailand & Indonesia.

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GALI air & hydraulic starters for starting of Diesel and gas engines.

Ark Vision is authorized for Sales & Service in Singapore & Indonesia.

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HMSA is the designer, producer and supplier of the smallest design Biological Sewage Treatment units, Grease Separators, Grey Water tanks, Ejector type Vacuum Toilet systems and supplier of Reverse Osmosis Fresh Water generators, UV disinfection units, Hydrophore units.

Ark Vision is Authorized Agent in Singapore, Indonesia, Thailand, and Philippines & Sri Lanka.

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Magnus Worldwide Inc. produces and markets chemicals for the Marine, Offshore, Industrial and other industries.

Ark Vision stocks and supplies Magnus Oil Spill Dispersant, Carbon Remover, Air Cooler Cleaner, Degreaser, Rust Remover, Tank Cleaner, Enviro Cleaner, Disclean, Electroclean & range of products.

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Northey Technologies Specialists in Gas handling Oil Free Rotary Compressors and Vacuum Pumps.

Ark Vision is the After Sales & Service Agent for Northey Technologies.

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PMAX specialized Washable turbocharger air inlet filters.

Ark Vision is the main Distributor for PMAX Filters in South East Asia.

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## OVERSEAS OFFICES:

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