



# COMPANY PROFILE

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**KARONECH**

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Your Integrated Palm Oil Mill and Kernel  
Crushing Plant Solutions Provider



# ABOUT KAROMECH

A Leading Provider of Palm Oil Mill Mechanical Supply & Kernel Crushing Plant Solutions Across Asia Pacific.

## COMPANY OVERVIEW

Established in 2009, Karomech Sdn Bhd is a trusted provider of palm oil mill supply solutions and kernel crushing plant (KCP) systems. Headquartered in Penang, Malaysia, we serve clients across Southeast Asia and the Pacific, including Indonesia, Thailand, Papua New Guinea, and the Solomon Islands.

Our core strength lies in delivering reliable mechanical components and turnkey KCP services, backed by strategic global partnerships and a skilled team. With over 15 years of experience, we are committed to quality, efficiency, and long-term client support.

## VISION, MISSION & CORE VALUES



### Vision

To be recognized as a trusted partner in engineering supplies, fabrications, and wastewater solutions, delivering excellence through reliability and innovation.



### Mission

- To deliver cost-effective and timely services that fulfill client needs.
- To foster seamless communication through advanced technologies.
- To lead with integrity and empower our team for growth and excellence.



### Core Values

- Integrity & Reliability
- Customer-Centric Commitment
- Innovation & Excellence
- Team Empowerment
- Sustainability





## KEY STRENGTHS

Karomech is a trusted supplier of palm oil mill components and a turnkey provider for kernel crushing plant systems. With global reach, strong brand partnerships, and certified capabilities, we deliver reliable solutions backed by dedicated client support.

- Leading supplier for palm oil mill mechanical components
- Turnkey service provider for kernel crushing plants (KCP)
- Strategic partnerships with global industrial brands
- Proven presence in 25+ countries
- Certified environmental contractor (limited scope)
- Strong client support before, during, and after project execution

## OUR EXPERTISE



### Palm Oil Mill Component Integration

Deep expertise in sourcing, matching, and supplying critical mechanical parts that ensure efficiency, reliability, and operational uptime in palm oil mill operations.



### Turnkey Kernel Crushing Plant Solutions

End-to-end capabilities in designing, fabricating, and commissioning KCP systems—customized for performance and built to serve plantations worldwide.



### Precision Fabrication & Structural Works

Specialized in custom-built tanks, silos, piping, insulation, and steel structures that support both new installations and plant expansions.



### Regional Project Delivery & Support

Proven success delivering and maintaining systems across Southeast Asia, Africa, and Latin America—ensuring long-term support before, during, and after deployment.

# KERNEL CRUSHING PLANT



## Palm Kernel Oil Expellers



## Copra/Coconut Oil Expellers





## **Palm Kernel Crushing Plant**

• CAPACITY - 250 TONS EXT 500 TONS



• CAPACITY - 300 TONS EXT 600 TONS



• CAPACITY - 250 TONS EXT 500 TONS



• CAPACITY - 300 TONS EXT 600 TONS



• CAPACITY - 300 TONS EXT 600 TONS



## SK Pumps and Equipment

Established in Malaysia in 1997, SK Pumps and Equipment has grown into a trusted provider of engineering solutions and industrial equipment, serving industries such as palm oil mills, oil & gas, and general manufacturing. With nearly 30 years of experience, the company has built a strong reputation for reliability and expertise.

Specializing in precision engineering works including lathe machining, milling, and the repair and supply of spare parts for pumps. SK Pumps and Equipment has become a reliable partner particularly within the palm oil industry. Over the years, the company has continually evolved to meet market demands by delivering quality products, dependable services, and innovative engineering solutions.

## SK Pumps Series



Side Channel Oil  
Transfer Pump OT Series



Multi Stage Boiler Feed  
Water Pump BF Series



Liquid Ring Vacuum  
Pump VC Series



Chemical Dosing  
Pump SK 268/288



Closed Coupled, End  
Suction Centrifugal  
Pump SKM Series



End Suction Centrifugal  
Pump SK Series



Desander Centrifugal  
Pump SKLB Series



End Suction  
Centrifugal Pump  
SKWT Series



Volute Casing Deaerator  
Pump DT Series



SK Chemical Dosing Pump



Hydro-cyclone Pump  
SKSC Series



Hydro-cyclone Pump  
SKMSC Series



Closed Coupled, Small  
Centrifugal Pump  
SKMS Series



Closed Coupled, End  
Suction Centrifugal Pump  
SKM Series



Mixed Flow Pump  
SKDE Series



Self-Priming Pump  
SKP Series



Vertical Sump Pump  
SKVSP Series



Oil Skimmer Pump  
SKOSP Series



SK-ERO Desander  
Pre-cleaner System



SK Mixer Series



# SK PUMPS SERIES



# ENGINEERING SOLUTIONS

## Engineering & Fabrication Work for Palm Oil Mill

We also provide a wide range of engineering and fabrication solutions tailored to meet the demands of different industries. Each product is designed with a focus on durability, efficiency, and safety, ensuring long-term performance in challenging environments. With years of experience and technical know-how, we deliver solutions that help businesses optimize operations and improve productivity.



- Screw Conveyor



- Scrapper Bar Conveyor



- Thresher Drum



- Nut Polishing Drum



- Storage Tank



# DESLUDGING

## Palm Oil Mill Effluent Earthwork & Desludging Work

With over 15 years of experience in earthworks and desludging, we provide reliable solutions for industrial and agricultural sectors. Our services include:



### Consulting

Providing expert advice on site evaluation, pond sizing, and sludge management solutions.



### Design

Customizing efficient holding pond and effluent pond systems based on client needs and regulatory standards.



### Construction

Building new holding ponds and upgrading or maintaining existing ones to ensure effective waste and water management.



### Desludging

Removing accumulated sludge from effluent ponds to restore capacity and maintain environmental compliance.

Our team is committed to delivering cost-effective, environmentally responsible solutions with proven results.





## Gearbox



Helical Worm Gear Units



Helical Gear Unit



Parallel Shaft Gear Unit



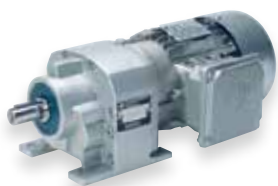
3-Stage Bevel Gear Unit



SI Worm Gear Units



SMI Worm Gear Units



Nordbloc.1  
Helical Gear Units



2-Stage Bevel Gear Unitss





Pressure Reducing Valve



Steam Trap



Steam Trap



Pressure Reducing Valve



Pressure Reducing Valve



Bellows sealed  
Globe valve



Globe valve



Globe valve



Strainer



Globe valveii



**Valves**



Double Block & Bleed



P553-3 Pieces Body  
Ball Valve



Clean Fluids



Corrosion



P552-2 Pieces Body  
Ball Valve



Jacketed\_Ball\_Valve



Steam Jacket



Multi Ways



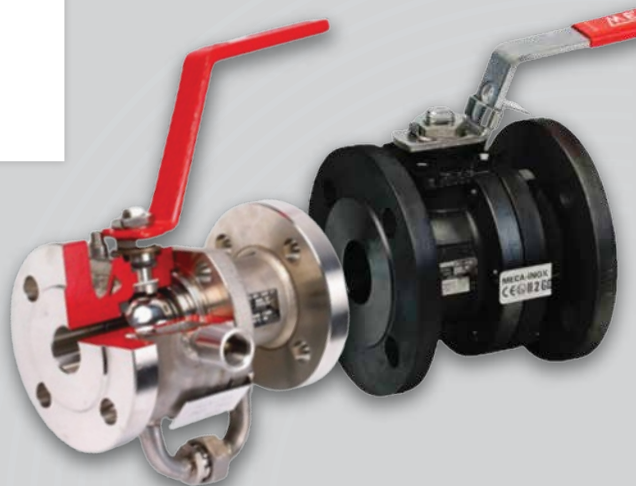
Fire-block System



Filter, Check Valve,  
Sight Glass



Divertor Coupling







Mixed Flow Pump  
SKDE Series



PS/PZ-3 Pieces Body  
Ball Valve



PSPZ - Cryogenic



Tank Bottom



Thermal Fluids



Flush Mounting



MIXER MODEL	ED 7 / ED 10
MOTOR POWER (KW)	5.5 KW / 7.5 KW
RPM OF PROPELLER (R/MIN)	183 RPM
LIQUID TEMP. (MAX)	40 DEG C
OXY REGENERATION	10 KG +/- HR
WEIGHT (KG)	212
RADIUS AREA	19 M +/-
GEARBOX TORQUE	686 Nm



MIXER MODEL	KRSM/5.5-480/620
MOTOR POWER (KW)	5 KW / 415 v / 50 Hz / 3 Ph
RARED CURRENT (A)	18.2
RPM OF PROPELLER (R/MIN)	480
DIAMETER OF PROPELLER (MM)	620
LIQUID TEMP. (MAX)	40 DEG C
FLOX MAX	70 M AT VELOCITY = 0.1 M/S
THRUST (N)	1800
WEIGHT (KG)	212



## Valves



Series 4 TriO Triple Offset



Series 40/41 Split  
Body Lined



Series 42/43 Lined



Series 50/52  
Resilient Seated



Series 44-49 High  
Performance Double Offset



Series 51/53 Large  
Diameter Resilient Seated



Series 58 Resilient  
Seated for Higher  
Pressures Double Flanged



Series 5C/5D Split Body  
Resilient Seated



Series 59 Resilient  
Seated Short Neck,  
Notched Body



Series 56/57 Resilient  
Seated for Higher  
Pressures Wafer, Lug



# VALVES

## Valves



3-Pcs Body Ball Valve,  
Full Bore, Threaded End,  
Direct Mounting



1-Pc Body Ball Valve,  
Reduced Bore,  
Threaded End



2-Pcs Body Ball Valve,  
Full Bore, Threaded End



2-Pcs Body Ball Valve,  
Full Bore, Threaded End,  
Direct Mounting



3-Pcs Body Ball Valve,  
Full Bore, Threaded,  
Socket, Butt Weld



2-Pcs Flanged Ball Valve, Full Bore,  
JIS 10K / 20K RF End



2-Pcs Flanged Ball Valve, Full Bore,  
ANSI 150# / 300# RF End



2-Pcs Flanged Ball Valve, Full Bore,  
DIN PN16 / PN40 RF End



3-Way Ball Valve,  
Full Bore, Threaded End,  
Direct Mounting



# STEAM PRODUCTS





3-way Flanged Ball Valve, Full Bore,  
ANSI 150# / 300# RF End



3-way Flanged Ball Valve, Full Bore,  
JIS 10K / 20K RF End



3-way Flanged Ball Valve, Full Bore,  
DIN PN16 / PN40 RF End



Gate Valve, OS & Y,  
ANSI 150# / 300# /  
600# RF End



Globe Valve, OS & Y,  
ANSI 150# / 300# /  
600# RF End



Swing Check Valve,  
ANSI 150# / 300# /  
600# RF End



Gate Valve, OS & Y,  
ANSI 800# / 1500#, T  
threaded or Socket Weld



Globe Valve, OS & Y,  
ANSI 800# / 1500#,  
Threaded or Socket Weld



Check Valve,  
ANSI 800# / 1500#,  
Threaded or Socket Weld



Rubber Seat Butterfly Valve, Wafer Type,  
Lever Handle



Teflon Lining Butterfly Valve, CF8M Disc,  
PTFE Seat, Lever Handle



Teflon Lining Butterfly Valve, PTFE Disc & Seat,  
Lever Handle



Rubber Seat Butterfly Valve, Wafer Type, Gear Operator



Teflon Lining Butterfly Valve, CF8M Disc, PTFE Seat, Gear Operated



Teflon Lining Butterfly Valve, PTFE Disc & Seat, Gear Operated



Gate Valve, OS & Y, ANSI 150# / 300# / 600# RF End



Globe Valve, OS & Y, ANSI 150# / 300# / 600# RF End



Dual Plate Check Valve, ANSI 125# / JIS 10K, Wafer Connection



Gate Valve, OS & Y, ANSI 800# / 1500#, T headed or Socket Weld



Y-Strainer, ANSI 125# / JIS 10K RF Flanged End



Knife Gate Valve, ANSI 125# / JIS 10K RF Flanged



Bellows Seal Globe Valve, DIN Flanged, Handwheel Operated



Lift Check Valve, DIN Flanged



Dual Plate Check Valve, DIN Flanged, Wafer Connection





Globe Valve, Gland Packing, DIN Flanged, Handwheel Operated



Y-Strainer, DIN Flanged



Resilient Seat Gate Valve, DIN Flanged, Handwheel Operated



Pneumatic 2-pcs Ball Valve, Threaded End, Double / Single Acting



Pneumatic Ball Valve, RF Flanged End, Double / Single Acting



Pneumatic Plastic Ball Valve, Double / Single Acting



Pneumatic 3-pcs Ball Valve, Threaded End, Double / Single Acting



Pneumatic Butterfly Valve, Wafer End, Double / Single Acting



Pneumatic Sanitary Butterfly Valve, Double / Single Acting



Electric 2-pcs Ball Valve, Threaded End



Electric Ball Valve, RF Flanged End



Electric Plastic Ball Valve



Electric 3-pcs Ball Valve,  
Threaded Endt



Electric Butterfly Valve,  
Wafer End



Electric Sanitary  
Butterfly Valve



Pneumatic Actuator,  
Rack and Pinion Type



Pneumatic Actuator,  
Scotch & Yoke Type



Heavy Duty Electric  
Actuator



Limit Switch Box



Globe Control Valve



Multi-turn Electric  
Actuator



Air Filter Regulator



Namur Solenoid Valve



Electro-Pneumatic  
Positioner



## Electrical Motor



Brake Motors



Class H Motors



Dual Speed Motor



Explosion Proof Motors



Induction Motors



Inverter Motors



Marine Motors



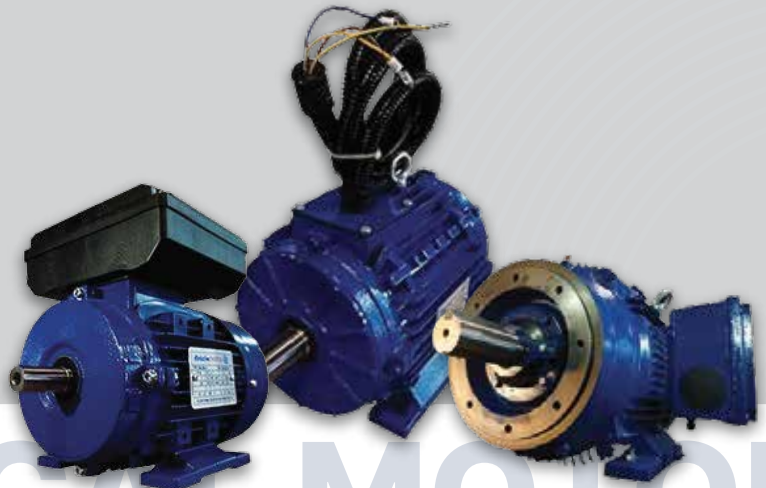
Single Phase Motor



Slip Ring Motors



Tenv Motors



# ELECTRICAL MOTOR

## Screw Press Spare Parts



Screw Press

## Gauges



Pressure gauges

## Vibrating Screen



Alpha Screen

## Basket Strainers



Fabricated Simplex Basket Strainer

## Mechanical Seal



Mechanical Seal

## High Quality Case Hardening Rod

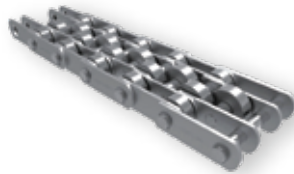


MATERIAL	COLD DRAWN CARBON STEEL
TENSILE STRENGTH	MPA 675
METHOD	HIGH QUALITY CASE HARDENING ROD
HARDNESS	55 HRC
PENETRATION DEPTH	1.5 MM
SIZES	19mm x 393mm Round Rod 19mm x 430mm Round Rod 20mm x 430mm Round Rod 25mm x 430mm Round Rod 28mm x 625mm Round Rod 19mm x 19mm x 560mm Square Type Others

## Transmission Products



Roller Chain



Conveyor Chain



Chain Coupling



Flexible Coupling



Tyre Coupling



Roller Chain Sprocket



Conveyor Sprocket



Taper Lock Pulley



V-Belt



● **Sterilizer Door Packing**



L-SHAPE DOOR PACKING (100FT/ ROLL)
A8.0 X B17.0 X C22.0 (MM)
A8.5 X B16.5 X C20.0 (MM)
A9.0 X B16.5 X C20.0 (MM)
A9.5 X B16.5 X C20.0 (MM)
A10.0 (SMALL) X B16.5 X C 20.0 (MM)
A10.0 (BIG) X B18.0 X C23.0 (MM)

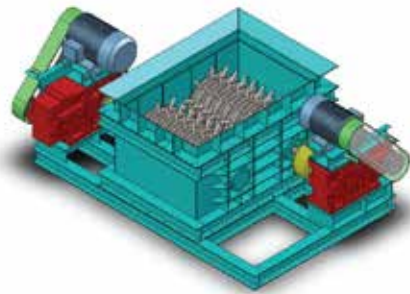
SPECIAL SIZE
A7.5 X B16.0 X C18.0 (MM)
A8.5 X B16.5 X C27.0 (MM)
A9.0 X B15.0 X C23.0 (MM)
A9.0 X B18.0 x C23.0 (MM)
A9.5 X B18.0 X C23.0 (MM)
A9.5 X B18.0 X C25.0 (MM)
A10.5 X B18.0 X C23.0 (MM)
A16.0 X B20.0 X C30.0 (MM)

● **Pipes, Plate, Angle Bar, Channel, Hollow Section, Bar & Others**

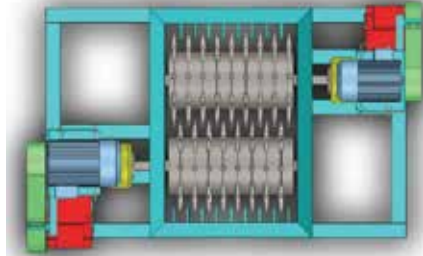


MATERIAL
Mild Steel/ Stainless Steel/ Carbon Steel

# FFB SEPARATOR MACHINE



Isometric View



Top View

## Specification:

Capacity: 75 Tonnes/ hour  
Machine Height: 1785 MM  
Machine Length: 3760 MM  
Machine Width: 2500 MM

## Accessories:

Drum Design: Bi-Drum c/w Spike  
Motor (1): Electrim 37KW, 50HP 4P/ 415/ 50 Hz  
Motor (2): Electrim 55KW, 75HP 4P/ 415/ 50Hz  
Gear Reducer (1): SEW M3PSF50SPD  
Gear Reducer (2): SEW M3PSF60KPD

## Design Strength:

- Robust and Solid design
- Balance load force design
- Easy for maintenance
- Low maintenance cost
- Easy to install and operate

- To reduce steam consumption during sterilization time.
- To provide equal cook on the Fresh Fruit Bunches with good steam penetration.
- To minimize percentage of unstripped bunches and hard bunches during process period.
- To cut shot sterilization period and to increase sterilizer output capacity.

## Bearing Products



## OUR FEATURED CLIENTS

Over the years, we've had the privilege of working with a wide range of valued clients who trust us as their partner in engineering and industrial solutions.



Sime Darby Plantation Berhad – One of the world's largest palm oil producers, managing 208 estates and 65 mills across Malaysia and Indonesia.



Kuala Lumpur Kepong Berhad (KLK) – A top Malaysian multinational with businesses in plantations, manufacturing, property development, and retail.



IOI GROUP

IOI Group – A leading global palm oil player with operations spanning the entire value chain from plantations to value-added manufacturing.



Wilmar International Limited – Asia's leading agribusiness group and the world's largest palm oil producer and merchandiser, with activities from cultivation to biodiesel.



FGV Holdings Berhad – Among the world's top crude palm oil producers, with diversified businesses in plantations, oils & fats, sugar, logistics, and consumer products.



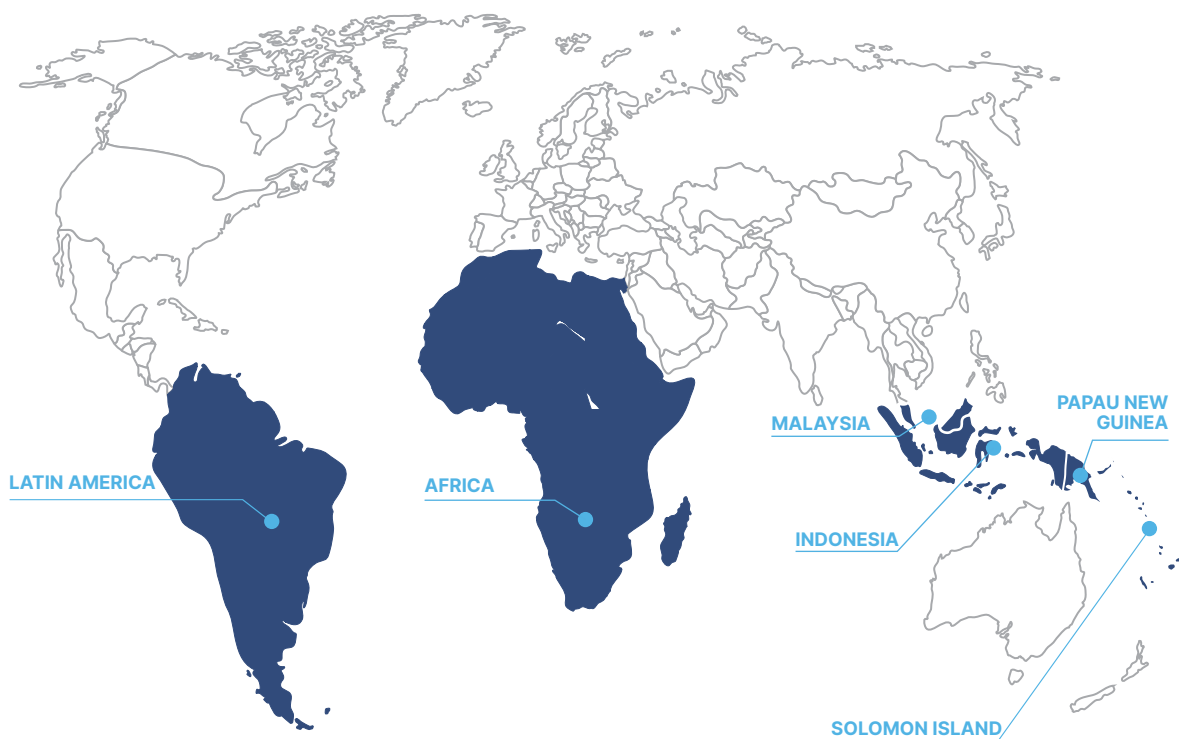
New Britain Palm Oil Limited (NBPOL) – A global leader in sustainable palm oil, and the largest sugar and beef producer in Papua New Guinea.



Tradewinds Plantation Berhad – One of Malaysia's largest plantation companies, managing extensive oil palm and rubber estates nationwide.

## Supplying Solutions Beyond Borders

From Southeast Asia to Latin America, Karomech delivers trusted palm oil mill and kernel crushing solutions to clients across diverse geographies. Our growing international footprint is a testament to our commitment to quality, reliability, and long-term partnerships.





## FEATURED BRANDS



YOSHITAKE

Meca-inoX  
BALL VALVES



SEW  
EURODRIVE



**KAROMECH SDN BHD** (855037-M)

### Headquarters

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