PT. PRO ANEKA CIPTA

BALIKPAPAN, INDONESIA / EST. 2007

Parker DISTRIBUTOR



COMPANY PROFILE

& PRODUCT CATALOGUE

HYDRAULICS / G.E.T / ENGINEERING / INDUSTRIAL SUPPLY

2026 EDITION / PRODUCT & SPECIFICATION REFERENCE

BEST SUPPORT & SOLUTION
FOR YOUR PRODUCTIVITY

www.ptpac.co.id

CONTENTS

Company profile, services, product ranges and technical references in one catalogue.

01 / PAC & SERVICES

About PAC 03
Vision & mission 04
Services overview 05
Parker Distributor 06
G.E.T & fabrication 07
Bucket wear protection 08
Machining & line boring 09
Warehouse rental 10

PRIORITY PRODUCT LINES

Parker hose & fluid connectors
Bucket teeth & wear components
Donaldson & Eaton filtration
GET locking accessories

02 / PRODUCT CATALOGUE

Hydraulic hose: series 11
Hose covers & part number 12
Hose fittings & assembly 13
Tube fittings & adaptors 14
Quick couplings 15
G.E.T & tooth systems 16
Bucket teeth & adaptors 17
Cutting edges & end bits 18
Bucket wear components 19
G.E.T: size classes & selection 20
G.E.T accessories & locking parts 21
Pump systems 22
Hitachi & Komatsu components 23
Caterpillar & Liebherr components 24
Engine components 25
Engine brands & series 26
Maintenance spare parts 27
Donaldson filters 28
Eaton filtration 29
Sealing solutions 30
LED flood lights 31
Tools & friction products 32
Fast Fill Systems 33

34 Coverage
35 Customers
36 Contact PAC

Click a heading to open the page. Specifications, availability and compatibility are subject to PAC technical confirmation.

ABOUT PAC

Technical support, spare parts and inventory support for your fleet.



2007
Established

Balikpapan
Head office

4 regions
Sales coverage

Established in 2007, PT. Pro Aneka Cipta is based in Balikpapan, East Kalimantan. PAC supports fleet operations through spare parts, technical personnel and inventory support, with sales coverage across Kalimantan, Sulawesi, Sumatra and Java. Our service scope includes pre-sales consultation, equipment inspection, maintenance and customer training, supported by experienced technical staff.

Spare parts supply, technical expertise and inventory support - coordinated from Balikpapan for fleet operations across four regions.

PAC'S FOUR BUSINESS LINES

Hydraulics
Parker hose & fluid connectors. Authorised distribution.

G.E.T
Ground engaging tools, wear parts & bucket fabrication.

Engineering
Machining, line boring & heavy equipment component repairs.

Industrial Supply
Sealing, lighting, workshop tools & fluid transfer.

WHY PAC

As an authorised Parker distributor with in-house fabrication and machining capabilities, PAC combines product supply with sales coverage across Kalimantan, Sulawesi, Sumatra and Java to support hydraulic and heavy equipment parts requirements.

VISION & MISSION

A clear direction for service, quality and productivity.

OUR VISION

To lead in equipment support by providing integrated solutions that improve our customers' productivity and quality.

Integrated support. Improved productivity. Consistent quality.

OUR MISSION

To supply medium and premium products that meet customers' quality and performance requirements, with responsive, efficient and professional service.

Medium and premium products, backed by responsive technical service.



OUR COMMITMENT

Quality - Product quality and performance.
Response - Efficient technical service and logistics.
Service - Professional sales and technical support.

HOW WE DELIVER

Technical consultation

Identifying system requirements and component compatibility before quotation.

Stock availability

Warehousing and regional distribution support continuity of supply.

After-sales support

Ongoing inspection, maintenance and customer training.

OUR SERVICES

Product supply and technical services for operational requirements.

01 **Parker Distributor** 06
Supply of hose, fittings, fluid connectors and hydraulic accessories.

02 **G.E.T sales & fabrication** 07
Teeth, adaptors, wear parts, locking accessories and fabrication.

03 **Bucket wear protection** 08
Bucket tooth reinforcement and additional tungsten coating.

04 **Machining & line boring** 09
Machining and restoration of bores, bushes and pins.

05 **Warehouse rental** 10
Storage space to support logistics requirements.

06 **Technical & inventory support** 03
Consultation, inspection, maintenance and customer training.

BEST SUPPORT & SOLUTION FOR YOUR PRODUCTIVITY

Services, technical information and spare parts - from Parker hydraulic fittings to heavy equipment components, wear parts, sealing, lighting and fluid transfer.

OUR SERVICE PROCESS

1. Consultation
Needs assessment & initial inspection.

2. Quotation
Product & part number recommendations.

3. Delivery
From Balikpapan warehouse stock.

4. After-sales
Maintenance & further training.

PARKER DISTRIBUTOR

Hose, fittings and fluid connection support from PT. Pro Aneka Cipta.

FLUID CONNECTOR SOLUTIONS

Parker product supply with PAC technical support.

PAC supplies Parker hose and fittings for hydraulic systems and fluid transfer. Support includes needs assessment, component selection and connection compatibility for customer applications. Series references follow Parker Hannifin catalogues.

Hydraulic hose

Hose for conveying fluid in hydraulic systems. Construction, diameter and cover resistance depend on pressure, temperature, fluid type and application conditions.

Hose fittings

Fittings connect hose ends to system components. Connection options depend on hose type, routing requirements and equipment port configuration.

Adaptors & connectors

Adaptors, tube fittings and port connectors link different connection configurations. Straight, elbow and branch options follow system requirements.

Quick couplings

Couplings for fluid connections requiring repeated connection and disconnection. Body type, seals, sizes and valve configurations depend on the product series.





Parker catalogue: hydraulic hose, fittings, adaptors and quick couplings - pages 11-15.

G.E.T & FABRICATION

Ground Engaging Tools, accessories and fabrication support.



Ground Engaging Tools

Supply of teeth, adaptors, cutting edges, end bits, side cutters and bucket protection components. Accessories include pins, retainers and fastening hardware matched to the GET system.

Fabrication

Fabrication and repair of bucket components, machine parts and structures. Support includes bucket tooth reinforcement, wear protection and work tailored to operational requirements.

PAC FABRICATION CAPABILITIES

Bucket rebuild

Reconditioning worn or cracked bucket structures, including base plate replacement.

Wear plating

Additional wear plates & tungsten coating on abrasive material contact areas.

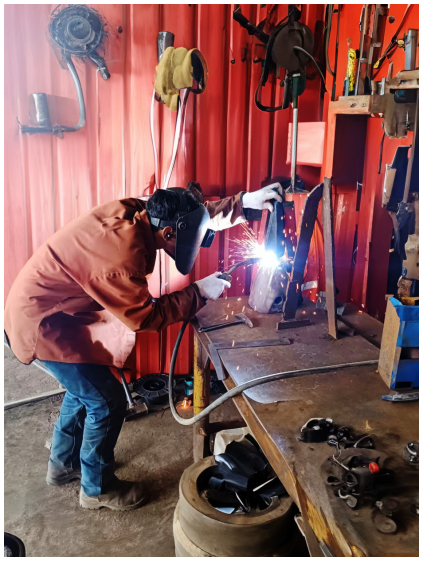
Custom fabrication

Fabrication of brackets & structural components for specific equipment requirements.

Tooth systems, size classes and locking accessories: pages 16-21.

BUCKET WEAR PROTECTION

Component reinforcement and additional protection for bucket working areas.



01 / REINFORCEMENT

Reinforced tooth bucket

Reinforcement work on bucket teeth to support component durability in demanding operating environments.

The scope of work depends on component condition and application requirements.

02 / WEAR COATING

Additional tungsten coating

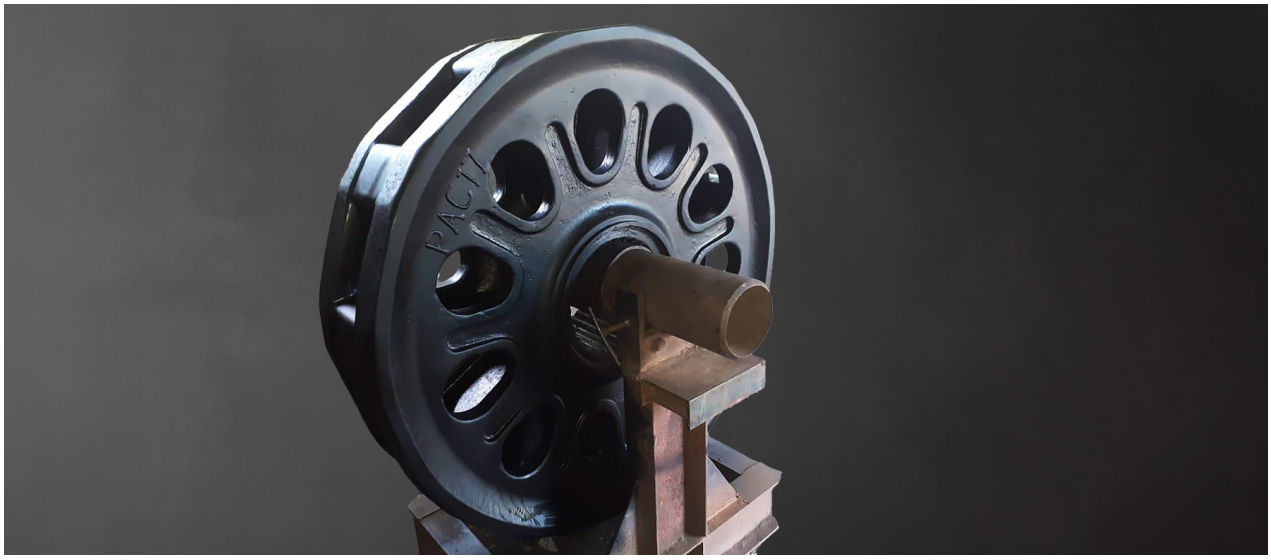
Additional tungsten coating on bucket teeth to support wear resistance when in contact with abrasive materials.

Service focus: contact area protection and support for component service life.



MACHINING & LINE BORING

Component machining and restoration of bores, bushes and pins.



PAC provides machining to achieve the required component shape and dimensions, together with line boring services for worn or distorted bores.





Machining

Component machining through controlled material removal.

Line boring

Restoring bore alignment and condition on heavy equipment components.

SCOPE OF WORK

Booms, arms, bucket pins / bushes, idlers and other structural components requiring remachining or restoration of bore tolerances. Work is carried out at PAC's Balikpapan facility by experienced technical personnel.

WAREHOUSE RENTAL

Storage space to support operational and logistics activities.







Flexible space

Space options suited to storage requirements.

Accessible location

Convenient access for suppliers and customers.

Storage support

Facilities that support logistics flow.

HYDRAULIC HOSE

Parker hydraulic hose series, working pressures, sizes and configurations.

PARKER DISTRIBUTOR

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PAC references cover Parker Catalog 4400 / GlobalCore series. Pressure, construction, covers and fittings depend on size and part number; confirm the final combination against Parker data.

SERIES	WORKING PRESSURE	DASH SIZE	CONSTRUCTION / COVER	FITTING
187	1,000 psi 70 bar	-8 to -48	1-2 steel braids Standard / TC / ST	43 Series
302	1,300-5,800 psi Size-dependent	-6 to -32	2 steel braids Standard	43 Series
387	3,000 psi 210 bar	-4 to -32	Braid / spiral, by size Standard / TC / ST / CP	43 / 77 Series Size-dependent
422 / 482TC-ST	900-3,250 psi Size-dependent	-4 to -32	1 steel braid Standard / TC / ST*	43 Series
471TC / ST	2,500-5,800 psi Size-dependent	-4 to -16	2 steel braids; ISO 11237 2SC TC / ST	43 Series*
487	4,000 psi 280 bar	-4 to -32	Braid / spiral, by size Standard / TC / ST / CP	43 / 77 Series*
777	4,000 psi 280 bar	See series data*	Spiral; construction by size Standard / TC / ST / CP*	77 Series*
787	5,000 psi 350 bar	-4 to -32	4 / 6 compact spirals Standard / TC / ST / CP	43 (-4 / -6)* 77 (-8 to -32)*
797	6,000 psi 420 bar	-4 to -32	4 / 6 compact spirals Standard / TC / ST / CP	43 (-4 / -6)* 77 (-8 to -32)*
722	4,000 psi 280 bar	-6 to -16	Steel spiral* Standard / TC / ST	43 Series*

*Size ranges, covers and fittings require confirmation by part number. Nominal ratings: 21 / 28 / 35 / 42 MPa = 210 / 280 / 350 / 420 bar.

HOSE COVERS & PART NUMBER

Hose protection options and Parker crimp fitting part number identification.

COVER OPTIONS

STANDARD

Synthetic rubber for general applications, depending on hose series construction.

TOUGH COVER (TC)

Cover with enhanced abrasion resistance for demanding operating environments.

SUPER TOUGH (ST)

Cover with excellent abrasion resistance for areas exposed to high friction.

CRITICAL PROTECTION (CP)

Cover with abrasion and impact resistance for applications requiring additional protection.

HOW TO READ A CRIMP FITTING PART NUMBER

1 JC 43 – 12 – 8 C

1 — **Fitting type**
1 = crimp; 2 = field attachable; 3 = Push-Lok.

JC — **End connection**
Code identifying end connection shape and type.

43 — **Fitting series**
The fitting product family.

12 — **End size**
End connection dash size: e.g. 12/16 in.

8 — **Hose size**
Hose dash size: e.g. 8/16 in.

C — **Material**
Blank: steel; B: brass; C: 316 stainless steel.

TEMPERATURE & TECHNICAL DATA

General reference: -40°F to +212°F; selected variants up to +257°F. Temperature limits, vacuum ratings and minimum bend radii depend on series, size, fluid and the part number datasheet.

HOSE FITTINGS & ASSEMBLY

Crimp fittings, hose protection and hose assembly support.

PARKER DISTRIBUTOR

PT. PRO ANEKA CIPTA

Fittings connect hose ends to equipment ports. PAC helps identify the hose, end connection and mating configuration as a compatible system.

SERIES	CONFIGURATION / CONNECTION	REFERENCE SCOPE
43 Series	Crimp hose fittings for general applications. NPTF, JIC, ORFS and BSP configurations; sealing method depends on the end type.	Construction, agriculture, mining and transport. Initial reference range: -4 to -20; hose selection must follow the compatibility table.
77 Series	Crimp fittings for spiral hose and larger bores, including Code 61/62 flanges and Caterpillar and Komatsu configurations.	High-pressure systems and heavy equipment. Large-bore reference: -20 to -48; other sizes depend on the hose series.
26 Series	Crimp fittings for transport hose and specialist applications, including refrigerant / AC, O-ring and tube connections.	AC hose options for vehicles and heavy equipment. End types and sealing methods depend on the product variant.

Hose protection

Partek Sleeve, Partek Wrap, PolyGuard and Parkoil support abrasion protection and hose assembly organisation.

Assembly support

Hose identification and compatible end fitting selection, supported by crimping with the Parkrimp system.

Hose-fitting compatibility is specified by part number. References to hoses 301LT through 881 or the GlobalCore family do not mean that all sizes use the same fitting series.

Tube fittings, adaptors and port connection options: page 14.

TUBE FITTINGS & ADAPTORS

Parker tube connection options for different system configurations.

Tube fittings and adaptors connect different port configurations, tube sizes and seal types. Selection considers dimensions, working pressure, material and connection standards.

SERIES / NAME	TYPE & RANGE	SEALING METHOD	APPLICATION / PORT
Triple-Lok® 37° Flare	JIC tube fittings & adaptors; reference range 1/4-2 in. Selected stainless variants up to 9,000 psi.	Metal-to-metal 37° flare. Triple-Lok 2 adds an elastomeric O-ring.	ORB, NPTF, BSPP, BSPT, ISO 6149 and metric.
Seal-Lok® ORFS	O-Ring Face Seal tube fittings; SAE J1453 / ISO 8434-3 standards.	O-ring on a flat sealing face.	High-pressure system connections with leak control.
Ferulok®	Flareless bite-type fittings for medium to extra-heavy wall tube.	The ferrule grips the tube's outer surface.	An alternative connection without flaring.
EO / EO2 DIN 2353	Metric bite-type. LL / L / S classes cover light, medium and heavy applications.	Cutting ring on EO; additional elastomeric seal on EO2.	Metric tubing and systems using European standards.

ADAPTORS & CONNECTORS

Straight, 22½° / 30° / 45° / 60° / 90° elbow, union, bulkhead and reducer options depend on the series. Related fitting references include 43 / 77 / 82 Series, subject to approved combinations.

PORT END OPTIONS

NPTF, JIC 37°, ORB, BSPP, BSPT, Code 61 and Code 62 flanges, and Komatsu-style adaptors. Seal type and maximum pressure depend on material, size and part number.

QUICK COUPLINGS

General purpose and non-spill couplings for detachable fluid connections.

Parker quick couplings cover general connection and non-spill requirements. Flat-face configurations help limit oil spillage and air ingress during disconnection, depending on series design.

SERIES	TYPE	REFERENCE SCOPE	CHARACTERISTICS
60 Series	General purpose	Mobile equipment and transport.	General interchange; steel body options.
4000 / 4200	General purpose	Light to medium mobile & industrial applications.	Valve configuration depends on series and part number.
6600 Series	General purpose	Mobile / industrial hydraulic systems.	Steel body; flow capacity depends on size.
IB Series	Connect under pressure	Systems with residual pressure.	Poppet valve; connection limits follow the series rating.
FEM Series	Non-spill, flat-face ISO 16028	Reference body sizes 1/8-1 in.; variants up to 450 bar.	Limits oil spillage and air ingress.
IF Series	Non-spill / pressure connection	Flat-face and repeated connection applications.	Configuration and interchange follow series data.
FA Series	Non-spill; aluminium	Mobile applications requiring low weight.	Body material and performance depend on part number.
PF Series	Non-spill; thermoplastic	Chemical transfer applications.	Non-metallic; chemical compatibility depends on fluid.

General purpose

60 / 4000 / 4200 / 6600 / IB Series selection considers working pressure, body size, valve configuration and application requirements.

Non-spill couplings

FEM / IF / FA / PF options depend on product design. ISO 16028 conformity and connect-under-pressure capability must be checked for each series.

PAC helps cross-reference existing couplings by series, size, fluid type and connection frequency. Final compatibility follows product data.

G.E.T & TOOTH SYSTEMS

Digging, cutting and protective components for ground contact areas.



Bucket teeth



Cutting edges & end bits



Bucket wear components

PAC supplies Ground Engaging Tools for excavation, loading and material handling. Tooth and adaptor compatibility depends on the locking system, equipment class and bucket design.

TOOTH LOCKING SYSTEMS

SYSTEM	CONFIGURATION	REFERENCE SCOPE
Side pin (horizontal)	A transverse pin with a retainer secures the tooth-adaptor pair.	Common on various excavators, including classes above 20 tonnes; many aftermarket variants are available.
Top / vertical pin	The pin is oriented from the top of the adaptor; locking design depends on the system.	Found on small to medium units and systems with top access for replacement.
Integrated / rotary pin	The pin and retainer are integrated into one locking mechanism.	Used in selected OEM systems; helps reduce the number of loose components.

WEAR PARTS RANGE

Bucket teeth / tips, tooth adaptors, cutting edges, end bits, side cutters, lip shrouds, side protectors, wear plates, ripper tips and related protective components.

Product details: pages 17-19. Size classes: page 20. Locking accessories: page 21.

BUCKET TEETH & ADAPTORS

Penetration components and matching adaptors for bucket systems.



BUCKET TEETH / TIPS

The primary contact point as the bucket penetrates material.

The tooth contacts the material directly. The adaptor connects the tooth to the bucket, while the pin and retainer complete the locking system. These parts are considered as a matched assembly.

PROFILES & PRODUCT RANGE

CATEGORY	FUNCTION / FEATURES	IDENTIFICATION FOCUS
General purpose	A versatile profile for general excavation and loading requirements.	Balance of tip shape, wear material capacity and system compatibility.
Penetration / rock	A profile focused on penetration into compacted or rocky material.	Tip geometry and material conditions inform application identification.
Twin tiger	A twin-point profile available for selected systems.	Tooth shape must match the function and adaptor; it is not a universal replacement.
Abrasion profile	A profile with wear protection characteristics for abrasive materials.	Wear material thickness and distribution depend on product design.
Tooth adaptors	Connects the tooth to the bucket lip structure, in configurations suited to bucket design.	Nose shape, tooth series, lip thickness and locking system must be compatible.

IDENTIFICATION DATA

Tooth and adaptor part numbers, equipment model, component photographs and pin / retainer system details help PAC identify a suitable match. Different profiles are not automatically interchangeable.

Category reference: Caterpillar GET for Wheel Loaders. Images from PAC reference material.

CUTTING EDGES & END BITS

Bucket and blade cutting components for earthmoving applications.



CUTTING & EDGE PROTECTION

Maintaining the cutting function and working edge.

The cutting edge forms the cutting surface along the working edge. End bits complete the blade ends that also contact the material. The range depends on the equipment's bucket or blade design.

COMPONENT	FUNCTION / SCOPE	CONFIGURATION REFERENCE
Bucket cutting edges	Cutting components at the bucket edge to support loading and material handling.	Loaders and excavators, by bucket configuration.
Dozer cutting edges	Cutting segments along the bottom of the blade for pushing and levelling material.	Blade-specific segment dimensions and hole pattern.
End bits	Blade end components that complement cutting edges and protect corners.	Left / right position and end shape follow the blade.
Grader blades / edges	Motor grader cutting components for shaping and levelling surfaces.	Profile, segment length and connections follow the unit.

FASTENING HARDWARE

Bolts, nuts and washers form part of the matched product set. Diameter, length, head shape and hole pattern must suit the selected cutting edge or end bit.

Identification data: equipment / blade model, part number, component dimensions, hole count and pattern, and left / right position where applicable. Material and thickness follow product specifications.

Category reference: Komatsu - Ground Engaging Tools. Fastening hardware details: page 21.

BUCKET WEAR COMPONENTS

Protection for the bucket lip, sides and body exposed to material contact.



BUCKET PROTECTION RANGE

Protection for areas exposed to wear.

Wear components help protect bucket surfaces that contact material. Protection areas are selected according to bucket shape, wear patterns and application requirements.

COMPONENT	PROTECTED AREA	FUNCTION
Lip shrouds / edge segments	Lip and edge areas between teeth.	Helps protect the bucket edge from material contact and abrasion.
Side cutters	Front sides / bucket corners.	Supports side cutting while protecting edge areas.
Sidebar / side protectors	Bucket sidebars and sides.	Protects side areas exposed to material friction or impact.
Wear plates / liners	Bucket body surfaces, according to the protection design.	Additional wear components; shape and coverage depend on bucket condition.
Wear bars / heel protection	Bottom or heel areas, depending on bucket configuration.	Additional protection for areas exposed to repeated contact.

PAC SUPPORT

Wear parts supply can be combined with bucket rebuild, wear plating and contact area reinforcement services. Work scope depends on structural condition and equipment requirements; fabrication services: pages 7-8.

Category references: Caterpillar Side & Edge Protection; Komatsu GET Parts. Images are illustrative.

G.E.T SIZE CLASSES

Equipment classes, tooth profiles and component identification requirements.

The following weight classes support an initial discussion of GET requirements. Equipment weight alone does not determine tooth-adaptor compatibility; bucket design and the existing system remain the reference.

CLASS	UNIT WEIGHT	EQUIPMENT TYPE	GET CHARACTERISTICS
Mini	< 10 tonnes	Mini / compact excavator	Small teeth and adaptors; bolt-on configurations available.
Small	10-20 tonnes	Small excavators	Side pin / top pin and medium-sized adaptors.
Medium	20-35 tonnes	Medium excavators; wheel loaders	Side pin, general purpose and penetration tooth references.
Large	35-50 tonnes	Large excavators; dozers	Heavy-duty teeth and adaptors; twin tiger profiles available.
Heavy / Mining	> 50 tonnes	Mining excavators; rope shovels	Heavy-duty systems; materials depend on design, abrasion and impact loads.

TOOTH PROFILES & MATERIALS



Standard / General Purpose - profiles for general excavation.

Penetration / Rock - profiles for penetration into hard and rocky material.

Twin Tiger / Abrasion - twin-point or abrasion-resistant profiles, depending on product characteristics.

Materials: heat-treated alloy steel; forged alloy or manganese-alloy options depend on the product and impact / abrasion requirements.

PRODUCT IDENTIFICATION

PAC supports identification using part numbers, measurements or component photographs. Final size, material and locking system selection follows the bucket model and existing adaptor.

G.E.T ACCESSORIES

Locking systems, fastening hardware and supporting GET components.

PAC supplies accessories matched to teeth, adaptors and wear parts. Pins, retainers, locks and bolts are selected from compatible systems so that locking and fastening suit the equipment design.

PIN LOCKING SYSTEM TYPES

TYPE	MECHANISM	FEATURES / APPLICATIONS
Hammerless pin	A press / turn locking mechanism without a hammer.	Supports component replacement with more compact tooling requirements.
Hammer-driven pin	A conventional pin with a rubber or metal retainer.	Widely used across size classes; compatibility depends on the GET system.
Rubber-retained pin	A pin with a rubber retaining element.	Supports retention under vibration; medium to large tooth references.
2-step / flex-pin	A two-stage or flexible pin design, depending on the series.	Supports removal and replacement; large equipment and mining references.

Bolts, nuts & washers

Hardware for cutting edges, end bits, side cutters and wear components. Diameter, length, hex / countersunk / dome head and lip thickness must suit the mating component.

Locks & support hardware

Lock assemblies, keepers, locking rings, clips and retainers follow the GET design. Clearance tolerances and compatibility are specified with the matching tooth, adaptor and wear part.

PRODUCT PAIRING

Tooth + adaptor + pin / retainer • Cutting edge + fastening hardware • Bucket wear protection + system-compatible fasteners. PAC recommends replacing pins and retainers with teeth where required by the system.

PUMP SYSTEMS

Brand, series and specification references for hydraulic and fluid transfer pumps.



Hydraulic pump range



Pumps & motors



Transfer pump

Pump selection considers piston / gear / vane / plunger type, displacement, working pressure and fluid characteristics. The following references support initial system identification.

BRAND	SERIES / TYPE	REFERENCE RANGE	APPLICATION
Sauer-Danfoss	Series 90; axial piston, closed circuit	55–250 cc/rev	Travel drive & hydrostatic transmission.
Rexroth	A4VG; axial piston, closed circuit	28–250 cc/rev; 400 bar nominal / 450 bar peak	Excavator travel drives, winches.
Rexroth	A10VO; axial piston, open circuit	280 bar nominal / 350 bar peak	Industrial & mobile open circuit.
Sunfab	SC / SCP; fixed displacement piston	SC012-SC108; SCP reference 12-108 cc/rev	Mobile hydraulics, PTO-driven.
Marzocchi Pompe	ALP 1–4; aluminium gear pump	1.4-200 cc/rev	Light to medium industrial & mobile applications.
CAT Pumps	Triplex plunger pump	0.13-240 GPM; 100-10,000 psi	High-pressure cleaning & transfer.
Blackmer / Corken	Sliding vane / rotary vane	Model- and capacity-dependent	LPG, fuel & industrial fluid transfer.

Piston: hydraulic / hydrostatic systems, with fixed or variable displacement depending on the model. **Gear:** compact configurations for mobile and industrial requirements. **Plunger / vane:** pressure cleaning or fluid transfer, depending on pump design.

Other brands: Southern Cross, Winner, Dinamic Oil, Hydro Control and Ebsray. Final selection also considers capacity, rotation direction and connection configuration.

MAJOR COMPONENTS

Powertrain, hydraulic and structural components for fleet maintenance support.

HITACHI

Example models: ZAXIS 210, 350 and 470.



Engine



Final drive



Swing motor



Main pump

Engines provide power; final drives and swing motors provide movement; main pumps and cylinders serve hydraulic systems.

Other components: Cylinders, buckets, track links and idlers.

KOMATSU

Example models: PC200, PC300, PC400, PC1250 and PC2000.



Engine



Final drive



Swing motor



Main pump

Engines provide power; final drives and swing motors provide movement; main pumps and cylinders serve hydraulic systems.

Other components: Cylinders, buckets, arms, booms, track links and idlers.

Genuine and aftermarket options depend on the equipment model. PAC helps identify part numbers by model, production year and serial number for engine, hydraulic, undercarriage and structural requirements.

MAJOR COMPONENTS

Major component options for excavators, dozers and support equipment.

CATERPILLAR

Example models: 320 / 349 excavators, D8R dozers and 14M graders.



Engine



Final drive



Swing motor



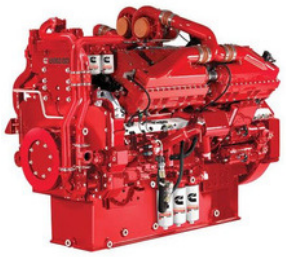
Main pump

Engines provide power; final drives and swing motors provide movement; main pumps and cylinders serve hydraulic systems.

Other components: Cylinders, buckets, arms, booms and track links.

LIEBHERR

Example models: R9250, R984 and R9350.



Engine



Swing motor



Main pump



Cylinder

Engines provide power; final drives and swing motors provide movement; main pumps and cylinders serve hydraulic systems.

Other components: Final drives, buckets and transmissions.

Other brand references: SANY, Volvo, Mercedes-Benz and Renault. Engine, final drive, swing motor and main pump availability and lead times are subject to stock and OEM / supplier confirmation.

ENGINE COMPONENTS

Core engine components and supporting parts for maintenance requirements.



Engine block

The main structure housing internal engine components.



Crankshaft

Converts piston movement into rotation.



Cylinder head & gaskets

Cylinder head and gaskets around the combustion chamber.



Liner, piston & pin kit

Cylinder, piston and connecting pin components.



Connecting rods

Rods connecting pistons to the crankshaft.



Turbocharger

Air intake system component on turbocharged engines.

ADDITIONAL COMPONENT RANGE

- Camshafts, engine valves and bearings
- Belt tensioners and engine mounts
- Air compressors, intake / exhaust pipes and clamps
- Gasket kits and head gaskets
- Manifolds and engine oil pumps
- Air intake and exhaust components

Brand references: Cummins, Perkins, Kubota, Yanmar, Iveco & Volvo. Series details: page 26.

ENGINE BRANDS & SERIES

Engine family references, power ranges and typical applications.

Series references help classify engine component requirements. Power ranges are indicative; actual ratings depend on model, turbo / aftercooler configuration and equipment application.

BRAND	SERIES	INDICATIVE POWER	TYPICAL APPLICATIONS
Cummins	QSB 3.9 / 4.5 / 5.9 L	110–275 hp 82–205 kW	Small to medium excavators & loaders.
Cummins	QSC / QSL 8.3 / 8.9 L	230–410 hp 172–306 kW	Medium to large excavators & dump trucks.
Cummins	QSX 15 L	Can exceed 500 hp (500 hp ≈ 373 kW)	Mining dump trucks & heavy equipment.
Perkins	400 / 1000 / 2000 Series	Varies by displacement	Gensets, excavators & light to medium equipment.
Kubota	D & V Series	Varies by displacement	Mini excavators & light equipment.
Yanmar	TNV Series	Varies by displacement	Mini / compact excavator.
Iveco / Volvo	Application-specific series	Varies by displacement	Dump trucks and support equipment.

COMPONENT RANGE

Engine blocks, crankshafts, cylinder heads, gaskets, liners, pistons, connecting rods and turbochargers. Additional parts: camshafts, valves, bearings, tensioners, mounts, manifolds, oil pumps and intake / exhaust components.

ENGINE IDENTIFICATION

Engine series, equipment model and serial number guide part identification. Genuine and aftermarket options are subject to availability and component compatibility confirmation.

MAINTENANCE SPARE PARTS

Fleet maintenance spare parts, organised by system.



Filters



Fuel system



Wear parts



Powertrain

SYSTEM	PRODUCT RANGE
Filtration	Air filters; oil filters; fuel filters.
Cooling system	Oil coolers, radiator cores, fans and water pumps.
Powertrain	Carriers, stators, spiders, torque converter impellers and sprockets.
Frame & body	Bogies, wear strips, equalizer bars and frame assemblies.
Operator station	Alarms, horns, cabin glass and mirrors.
Ground engaging tools	Dozer blades, end bits, excavator side cutters and grader blades.
Fuel system	Nozzles, motors and line assemblies.
Hydraulics	Actuators, cartridges, cylinders, pumps, barrels and pistons.
General parts	Fittings, gauges, glow plugs, hardware, dowels, lights and cables.

PAC helps cross-reference OEM part numbers to available alternatives. Maintenance support includes reviewing filter and wear component replacement intervals against the model, operating hours and equipment maintenance guidance.

DONALDSON FILTERS

Air, lube oil, fuel and hydraulic filtration for equipment maintenance.

AIR INTAKE	LUBE OIL	FUEL	HYDRAULICS



DONALDSON PRODUCT RANGE

Filtration support for air intake, engine lubrication, fuel and hydraulic circuits. Product selection follows the equipment and filter part number.



Air filter | P536492

Safety RadialSeal air filter. Confirm the matching primary element and air-cleaner assembly.



Lube oil filters

Spin-on filter format for engine lubrication. Confirm thread, seal and application using the part number.

PAC product matching: send the filter part number, equipment model and a photo of the existing element for quotation and compatibility review.

Product reference: Donaldson filtration

P536492: manufacturer reference

EATON FILTRATION

Hydraulic, lubrication and industrial filtration product references.



HYDRAULIC & LUBRICATION

Filter elements for fluid systems.

Pleated elements capture particles in hydraulic and lubrication circuits. Options include glass-fibre and stainless-steel media. Select the element by housing, fluid and required cleanliness.

Manufacturer series references
01.NR: return-line filtration
01.NL: in-line lubrication / pressure
EasyFit: exchange filter elements

INDUSTRIAL FILTRATION HOUSINGS



Industrial liquid-filter housings hold the filtration media and connect it to the process line. Eaton offers single- and multi-bag systems; series, flow and pressure are confirmed by model.

PAC selection support: part number / housing model / fluid / flow / pressure / micron rating.

Eaton: hydraulic & lubrication elements

Eaton: bag filter housings

SEALING SOLUTIONS

TotalSeal & Hercules - seals, gaskets and sealing components.



TOTALSEAL

- Mechanical, hydraulic & pneumatic seals
- O-rings, gaskets & gasket materials
- Elastomers & engineering plastics
- Metallic / non-metallic expansion joints
- Pump & valve packing; pump spares
- Shaft sleeves & die-formed graphite rings
- Synthetic lubricants, spray shields & Gore-Tex products
- Titanium & specialty metals

HERCULES

- Hydraulic seals & cylinder seal kits
- Rod, piston & hinge pin seals
- O-rings, D-rings & flange seals
- Alignment bushings & bearings
- Sealing products for truck suspensions
- Hoist & steering cylinder applications
- Hose coupling applications

COMMON SEAL MATERIALS

NBR	PU	FKM	PTFE	GRAPHITE
Nitrile	Polyurethane	Viton®		

Sealing solutions support cylinder, pump, valve and fluid connection maintenance. Options include individual seals and seal kits matched to component type, dimensions, temperature and working fluid.

EQUIPMENT REFERENCES

Bobcat, Case, Caterpillar, Euclid, Fiat, Ford, Kubota, Letourneau, Liebherr, Longwall, New Holland, Hitachi, JCB, John Deere, Kobelco, Komatsu, Sandvik, Takeuchi, Terex, Volvo and Yanmar.

LED FLOOD LIGHTS

Green Light - lighting towers and work area illumination.



LED flood light - front view



Housing & heat sink - rear view

Green Light LED flood lights for work area and lighting tower applications. Lamp configurations, beam angles and dimensions depend on the product model.

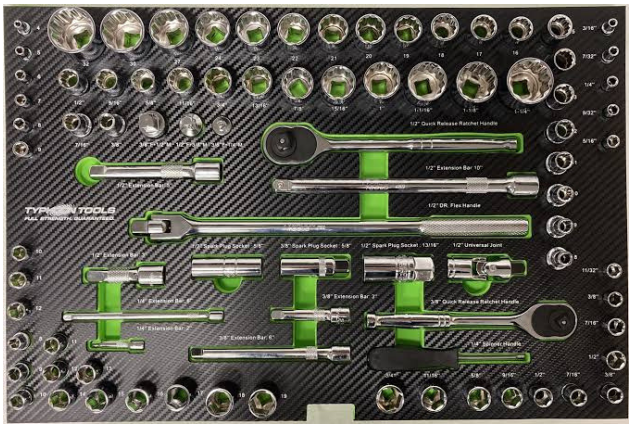
CHARACTERISTICS	REFERENCE SPECIFICATIONS
Housing	Die-cast aluminium with integrated heat sink.
Lens	Impact-resistant polycarbonate (PC).
Fasteners	Stainless steel.
AC input voltage	85–265 V, wide voltage range.
Electrical protection	Constant current, short-circuit & over-voltage protection.
Beam angle	Narrow to wide beam options, depending on model.
Power - reference	Low to high power variants for lighting towers and large work areas.

Wattage, lumen output, dimensions, beam angles and IP ratings follow the official model datasheet and are available with the quotation.

TOOLS & FRICTION PRODUCTS

Typhoon Tools and Tribco for component and workshop requirements.

TYPHOON TOOLS



Workshop tool range

Socket sets, spanners and drive tools for workshop mechanical tasks. A range of sizes and configurations supports equipment maintenance requirements.

CHARACTERISTICS	REFERENCE SCOPE
Drive size	1/4 in., 3/8 in., 1/2 in., 3/4 in. - according to torque requirements.
Set contents	Socket sets, spanners / combination wrenches, extension bars, ratchet handles and universal joints.
Measurement system	Metric (mm) and imperial (inch).
Material	Chrome vanadium steel; durability characteristics depend on product grade.

TRIBCO / FRICTION COMPONENTS



Friction discs - friction components in clutches, wet brakes and transmissions; shape and dimensions follow equipment design.

Friction linings - linings for brake shoes / bands; material type depends on the application.

Braketex - Tribco lining and disc products for heavy equipment with demanding friction loads and temperatures.

Reference lining materials include organic / semi-metallic options by product. Confirm part numbers using the relevant transmission or brake model.

FAST FILL SYSTEMS

Fluid filling components and supporting equipment.

Diesel refuelling




Nozzles, receivers, check valves and bulk diesel refuelling components.

Fluid nozzles & receivers




Standard and colour-coded fluid nozzles and receivers to help identify fluid types.

Pressure systems




Pressure / pressureless components, vents and accessories.

Coupling systems




Matrix flatface, 300 series, high-flow and breakaway couplers.

Mounting accessories




Bell housings, half sockets and remote receiver brackets.

Service connections




Swivels, service boxes and fluid connection equipment.

Fast fill / bulk fluid transfer supports fleet fuel and lubricant filling. Colour coding helps reduce misfilling and cross-contamination; flatface, matrix and breakaway options depend on system compatibility.

SALES COVERAGE

Based in Balikpapan, with sales coverage across multiple regions.

BALIKPAPAN

Head office

KALIMANTAN

Sales coverage

REGIONAL REACH

Sulawesi, Sumatra & Java



SALES COVERAGE

Local presence. Broader support.

PAC serves customers across Kalimantan, Sulawesi, Sumatra and Java through sales and technical support.

Sales

Needs assessment and product quotations for customers across regions.

Technical services

Consultation, inspection and equipment maintenance within PAC's service scope.

Inventory support

Spare parts coordination and logistics support from Balikpapan.

The full list of customer and operational partner references is on page 35.

Content: COMPRO PAC and PAC Enriched 2026; GET descriptions include Caterpillar and Komatsu references on the product pages. Additional images: Sufcon profile, 5 June 2025. Brand names and model examples are product references. Availability, ratings and compatibility are subject to quotation and PAC technical confirmation.

Technical references: Parker Hydraulic Hose Guide; Parker 26 Series; Sunfab SCP 012-108.

CUSTOMER REFERENCES

PAC customer, operational partner and contractor references.

PT. Indo Muro Kencana (IMK)

PT. Kaltim Prima Coal (KPC)

PT. Bukit Makmur Mandiri Utama (BUMA)

PT. Petrosea, Tbk

PT. Thiess Contractors Indonesia

PT. Sandvik Mining & Construction Indonesia

PT. Hitachi Construction Machinery Indonesia

PT. Saptaindra Sejati

PT. Ansaf Inti Resources

PT. KTC Coal Mining & Energy

PT. Thriveni Indo Mining

PT. Indexim Coalindo

PT. Trasindo Murni Perkasa

PT. Unggul Dinamika Utama

Halliburton

Pertamina Hulu Mahakam

PT. Putra Perkasa Abadi

Darma Henwa

PT. Harmoni Panca Utama (HPU)

Cipta Kridatama

Tambang Raya Usaha Tama (TRUST)

SIMS

Bina Sarana Sukses

Air Nipindo

CRM

Company references are drawn from PAC's profile and the partner list on its website.

Source: ptpac.co.id - Operational Partners & Contractors | Accessed 15 September 2026.

PT. PRO ANEKA CIPTA

Service, technical support
and industrial supply.

LET'S SUPPORT YOUR PRODUCTIVITY.

Contact PAC for product requirements, technical specifications and quotations.

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