



Our Business



Our Brands



Our Markets

- Transportation
- Agriculture
- Construction
- Mining
- Marine
- Military
- Material Handling

Our Categories

- Brake Parts
- Suspension Components
- Steering Components
- Cooling Components
- Trailer Parts & Accessories
- Permatex Products
- Instrumentation
- Tachographs & Fleet Safety
- Actuators
- Visibility Systems
- Multimedia
- Human-Machine Controls
- Joystick Controls
- Pedals & Throttle Controls
- Position Sensors



Duroline is one of the largest producers of friction material in the world

Over 25 years of international experience
Produce premium quality brake linings
More than 350-part numbers available
Fully operational brake lining finishing plant



A high-quality range of brake linings, brake pads, brake drums, brake shoes, lined brake shoes & rivets



A range of quality Truck and Trailer components all under the trusted MAG brand.

- MAG Suspension
- MAG Electrical
- MAG Cooling
- MAG Lighting
- MAG Trailer Parts



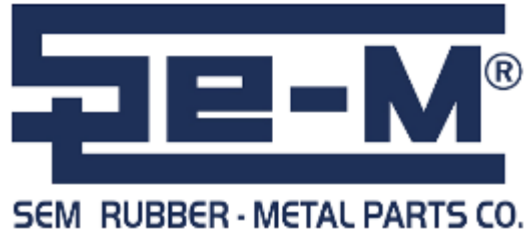
OE supplier for MAN, Mercedes, Scania and Volvo

The long distances travelled, and harsh climate of South Africa require that heavy vehicles have superior cooling

Fans and viscous for most makes of heavy vehicles on South Africa's roads
Proven to lower fuel consumption by between 2 – 6 %



Kit Masters, Inc. manufacture heavy-duty aftermarket components, specializing in remanufactured fan clutches, rebuild kits and accessories



SEM Lastik – OE supplier to MAN, Mercedes Benz, Ford (Otosan), BMC as well as Temsa in Turkey
We have a full range of suspension parts for all European vehicles
Expanding range of parts for American, Chinese & Japanese vehicles



South Africa's No 1 Shock Absorber Brand

Over 100 Years of supplying shocks

Wide product range for European, Japanese and American Trucks

Gabriel was the original OE shock for Freightliner



Premium quality sealants and adhesives

More than 100 years of quality and innovation

OEM specified products

Nr 1 selling brand in the USA



OE Platform Development

Latest Manufacturing technologies to ensure optimum performance

Rugged components are ideal for tough environments

Direct replacement to original part

Range of products and parts to cover all market segments

Worldwide distribution network



Components can be specified straight from catalogue to existing customers of standard products

Provide the most reliable and cost-effective product solution to suit unique application

Extensive hardware design expertise, with 3D modeling and rapid prototyping

In-House experienced software design teams

EMC test facilities in Europe and USA

Environmental and accelerated life testing facilities



First company to design flight data recorder back in 1957

World leader in design and manufacture of motor controllers i.e powered wheelchair applications etc.

In-House design of leading-edge technology products for aviation, professional broadcasting as well as industrial applications









Previously VDO Marine Switzerland

20+ plus years experience in design and manufacture of Hi-Tech Marine instruments and Navigation products

Inhouse design and engineering departments ensure up to date quality products

Continues technology changes and updates to conform to latest industry standards.

Direct supply into marine OE market

Transport	Agricultural	Construction and Mining	Marine	Military	Material Handling
<ul style="list-style-type: none">• Medium Commercial• Heavy Commercial• Bus	<ul style="list-style-type: none">• Agriculture Machinery• Forestry Equipment	<ul style="list-style-type: none">• Construction Machinery• Mining Equipment	<ul style="list-style-type: none">• Power Boating• Yachts• Tugboats	<ul style="list-style-type: none">• Armored Vehicles• Navy	<ul style="list-style-type: none">• Forklifts• Cranes
					

Our Product Categories

Brake



- Brake Linings
- Lined Shoes
- Unlined Shoes
- Brake Pads
- Brake Discs
- Rivets

Suspension & Steering



- Unlined Shoes
- Brake Pads
- Brake Discs
- Rivets

Cooling



- Radiator Fans
- Viscous Drives
- Radiator Caps
- Thermostats
- Water Pumps

Fuel Systems



- Fuel Injectors
- Fuel Caps
- Oil Caps

Trailer Components



- Suzie Hoses
- Slack Adjusters
- Air Fittings
- Raufoss Fittings
- Trailer Bearings

Instrumentation



- Tachometers
- Hour meters
- Ammeters
- Voltmeters
- Tank level gauges
- Pressure gauges
- Speedometers
- Temperature Gauges
- Clocks

Lighting & Visibility



- Chevrons
- Reflective Tape
- Trailer Lights

Auto Electrical



- Alternators
- Starters

Tachographs



- Head units
- Charts
- Installation components

Multimedia



- 24V Radio
- Entry Line Radio
- OE Radio
- Can Radio
- Accessories

Windshield Systems



- Washer Pumps
- Washer Nozzles
- Washer Kits

Fleet Safety Systems



- Reverse Cameras
- ProViu 360
- RightViu (Blindspot Monitoring)

Pedals & Throttle Controls



- Floor-mounted Pedals
- Suspended Pedals , Rocker Pedals
- Tilt Sensors , Thumb Controls
- Twist Controls
- RX Pedal Module

Joystick Controllers



- Single and Multi-axis Joysticks
- Lever and Rotary Hand Controls

Position Sensors



- Linear and Rotary Hall-effect Sensors
- In-Cylinder and Spool Valve Sensors
- Spool Valve Linear Sensors
- Tilt Sensors

Human Machine Interface Controls



- Dash Mounted and Column Shifter
- Multi-function Operator Consoles
- Customized Armrest Consoles

Power Management



- Low Power AC and DC Motor Controllers
- Traction Inverters
- Power Distribution Modules*
- High Voltage Inverters

TPMS



- TPMS
- Conticheck pressure systems
- Commercial Vehicle TPMS

Our Product Categories



Gasketing



- Gasket Makers
- Anaerobic Gasket Makers
- Gasket Sealants
- Gasket Removers

Thread Compounds



- Thread Lockers
- Thread Sealants

Stop Leaks



- Head Gasket Repair
- Oil Stop Leaks
- Power Steering Leaks
- Radiator Repair

Adhesives & Sealants



- Epoxies
- Adhesive Sealants
- Spray Adhesives
- Super Glues
- Adhesive Removers
- Weatherstrip Adhesives

Hand Care



- Fast Orange
- Wipes
- Hand Care
- Extended Line

Lubricants



- Anti-Seize Lubricants
- Specialty Lubricants
- Brake Lubricants

Maintenance & Repair

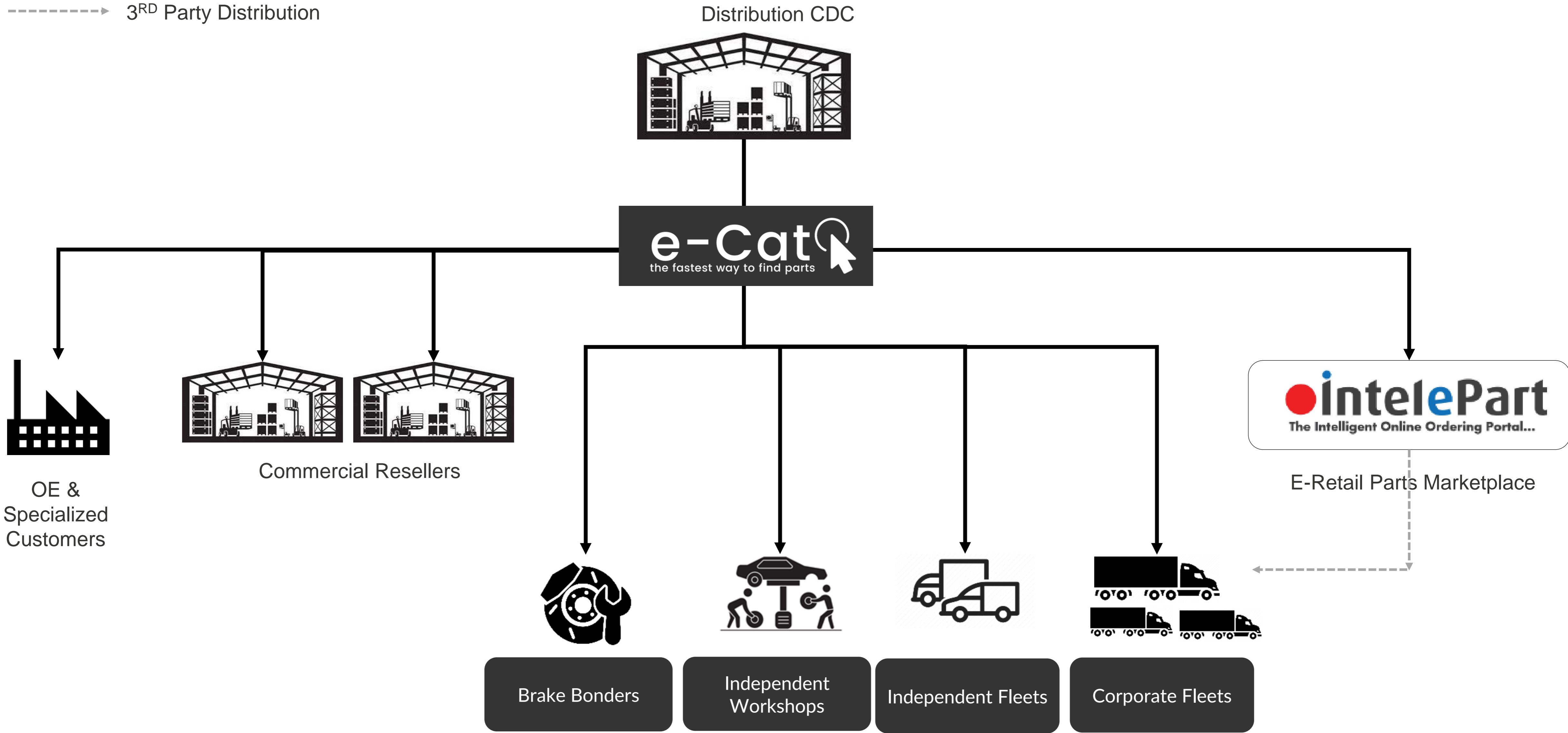


- Body & Under Bonnet
- Brake Repair
- Body Repair
- Rust Treatment
- Repair Kits
- Rebuilders Aid

Our Distribution



————> APG Direct Distribution
-----> 3RD Party Distribution



Our Geographic Reach



▲ National Distribution – South Africa

● Export Territories

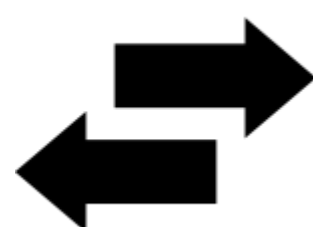
- Namibia
- Botswana
- Mozambique
- Zimbabwe





On-Line Catalogue

A full featured B2B on-line catalogue & ordering systems with data and images, features & benefits



Cross References

More than 1.7m cross references currently catalogued in the system



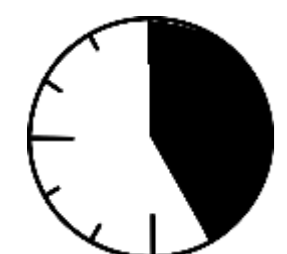
Vehicle Applications

+ 11 500 vehicles cross referenced to parts basket



Search Engine

Fastest search engine in the Industry 0.2s



Quick Orders

Quick Order Screen



Live SOH and Pricing

Live SOH and live channel pricing per customer.



Call centre backed

Help is a call away to either help the user use the system or process an order on their behalf. Whatsapp enabled.



3 000 Parts

+ 3 000 parts on the e-Commerce platform



My Lists

Custom build lists, Favorites, Weekly/Monthly Orders



My Account Suite

Fully Integrated B2B account suite, Order Tracking, Statements, POD, Invoices





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TRAKK^{SA}



APG
COMMERCIAL 

Linings



- Value for money brake linings
- 25 fast moving part numbers
- MCV/HCV/Bus

Drums



- A range of 42 high quality brake drums
- No compromise on weight

Pads



- Cost effective, high quality brake pads
- A range of 8 fast moving brake pad part numbers
- MCV/HCV/Bus

Shoes



- A range of 18 high quality brake shoes
- Cast iron & fabricated
- Lined and Unlined Shoes

Discs



- A range of commercial vehicle brake discs for popular applications
- MCV/HCV

Accessories



- A range of rivets for all applications

Traxx range covers Medium Commercial , Heavy Commercial and Bus applications

DUROLINE[®]
DUROLINE

BRAKE LININGS



APG
COMMERCIAL





- Duroline is one of the largest producers of friction material in the world
- Over 25 years of international experience
- Produce premium quality brake linings
- More than 350-part numbers available
- Fully operational brake lining finishing plant



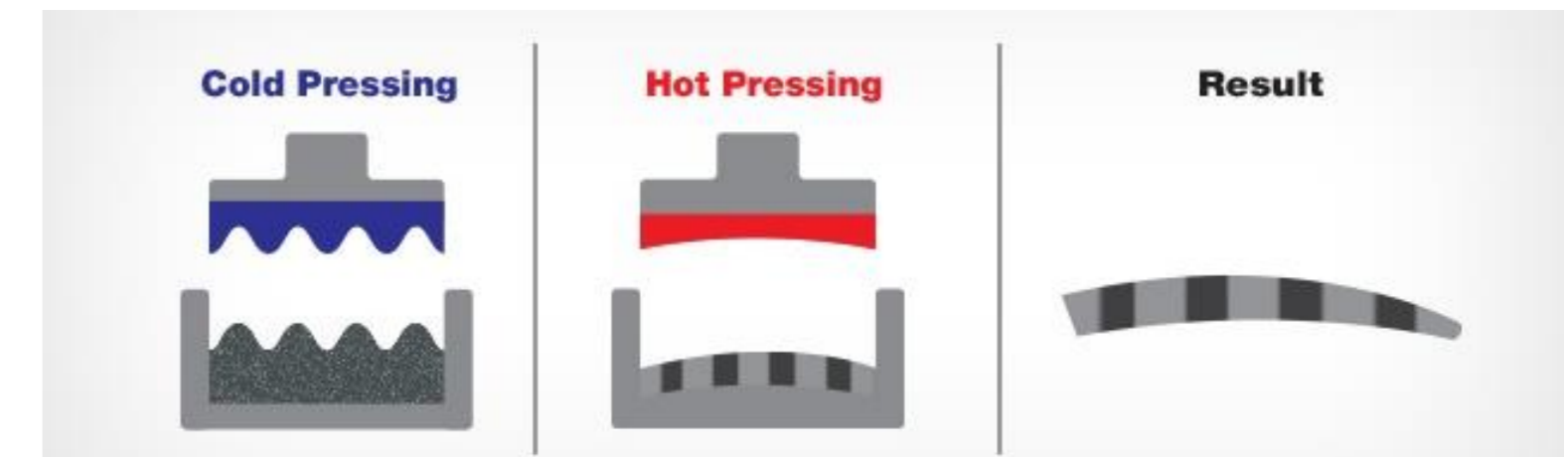
Brake Linings

- More than 350-part numbers available



Wave Process

- Varying densities for enhancing performance and durability
- Recycled material restricted to base layer
- Extending drum life
- Proven lower cost per kilometre





MAG
TRAILER ACCESSORIES

- Air Fittings
- Grease Nipples
- Slack Adjusters
- Wheel Bearings & Hubs
- Suzie Hoses & Cables
- Couplers & Connectors

MAG
AUTO ELECTRICAL

- Starters
- Alternators

MAG
LIGHTING

- Chevrons
- Reflective Tape
- Lighting

MAG
SUSPENSION & STEERING

- Bushes & Repair Kits
- Shocks
- Spring Bolts
- Spring Bushes & Repair Kits
- Spring Mountings
- Stabilizer Arms
- Stabilizer Bushes
- Repair Kits
- Torque Arms
- V-stays

MAG
COOLING PARTS

- Fans
- Fan Clutch units
- Water Pumps
- Radiator Caps
- Thermostats

MAG
SHOCK ABSORBERS

- Truck Shocks
- Cab Struts





- Air Fittings
- Grease Nipples
- Slack Adjusters
- Wheel Bearings & Hubs
- Suzie Hoses & Cables
- Couplers & Connectors



- Starters
- Alternators

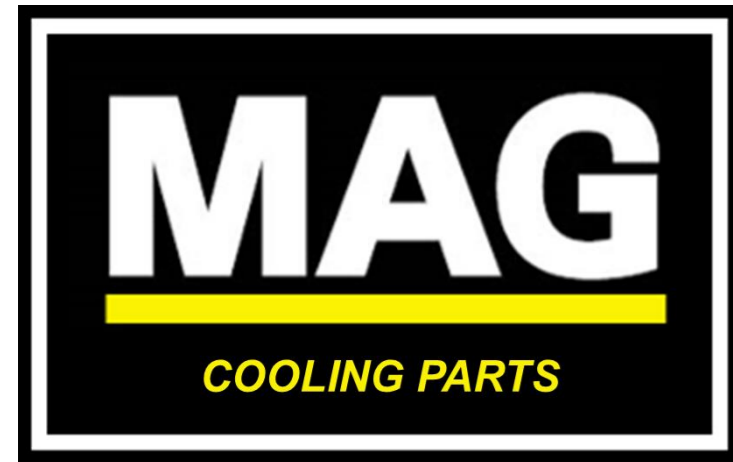


- Chevrons
- Reflective Tape
- Lighting





- Bushes & Repair Kits
- Shocks
- Spring Bolts
- Spring Bushes & Repair Kits
- Spring Mountings
- Stabilizer Arms
- Stabilizer Bushes
- Repair Kits
- Torque Arms
- V-stays



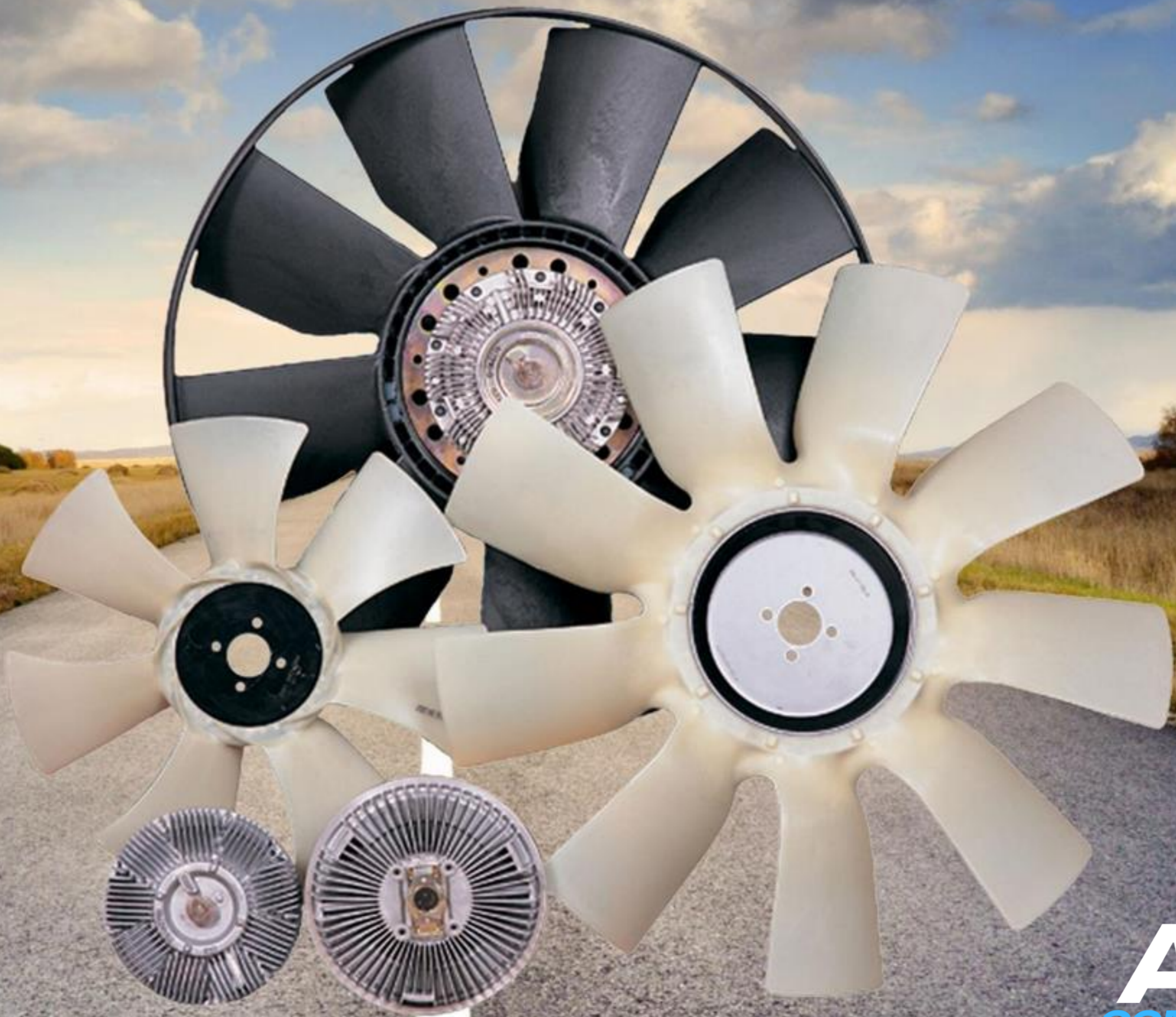
- Fans
- Fan Clutch units
- Water Pumps
- Radiator Caps
- Thermostats



- Truck Shocks
- Can Struts
- Bushes & Mountings



 **BorgWarner**



APG
COMMERCIAL 

 **BorgWarner**

Keeping Cool on the Long Road

- BorgWarner – OE supplier for MAN, Mercedes, Scania and Volvo
- The long distances travelled and harsh climate of South Africa require that heavy vehicles have superior cooling
- Fans and viscous clutches for most makes of heavy vehicles on South Africa's roads
- Proven to lower fuel consumption by between 2 – 6 %



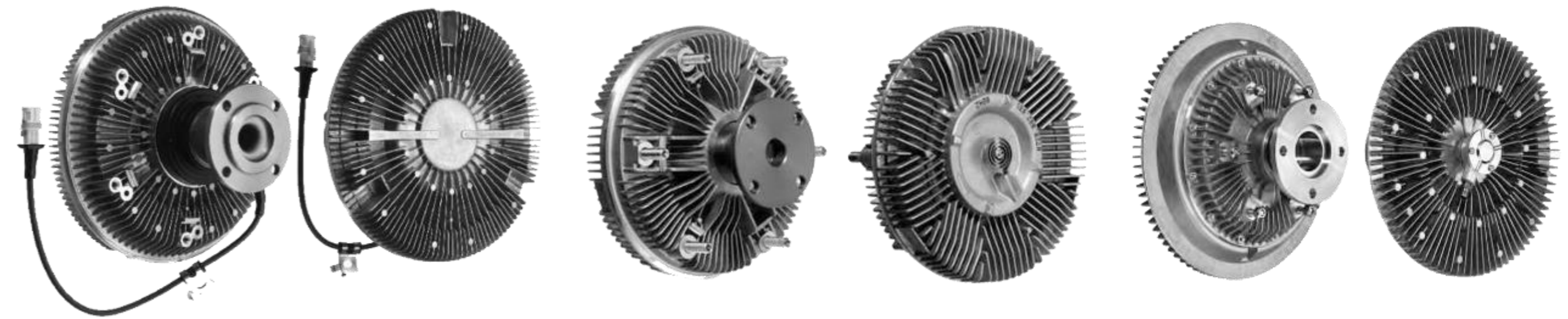
Plastic Fans

- Ring Fans
- Open Blade Fans
- Suction & Blower Fans



Viscous Drives

- Electronic Viscous
- Mechanical Viscous
- Air Viscous



SEM[®]

SEM RUBBER - METAL PARTS CO.



APG
COMMERCIAL 

Steering Your Fleet In The Right Direction

- SEM Lastik – OE supplier to MAN, Mercedes Benz, Ford (Otosan), BMC as well as Temsa in Turkey
- We have a full range of suspension parts for all European vehicles
- Expanding range of parts for American, Chinese & Japanese vehicles



MERCEDES BENZ



OTOSAN



BMC



TEMSA



Suspension Group



- Bushes & Repair Kits
- Shocks
- Spring Bolts
- Spring Bushes & Repair Kits
- Spring Mountings
- Stabilizer Arms
- Stabilizer Bushes & Repair Kits
- Torque Arms
- V-stays

Engine & Transmission Group



- Engine & Gearbox Mountings
- Engine & Gearbox Products
- Hoses
- Silicone Hoses
- V-Belts

Cab Group



- Cab Bushings, Mountings & Repair Kits
- Cab Cylinders
- Cab Locks & Equipment's
- Cab Pumps
- Cab Shocks
- Pressure Springs

Steering Group



- Draglinks
- Gear Shift Links
- Tie Rods
- Tie Rod Ends

Clutch & Brake Group



- Repair Kits
- Slack Adjusters



Gasketing



- Gasket Makers
- Anaerobic Gasket Makers
- Gasket Sealants
- Gasket Removers

Thread Compounds



- Thread Lockers
- Thread Sealants

Stop Leaks



- Head Gasket Repair
- Oil Stop Leaks
- Power Steering Leaks
- Radiator Repair

Adhesives & Sealants



- Epoxies
- Adhesive Sealants
- Spray Adhesives
- Super Glues
- Adhesive Removers
- Weatherstrip Adhesives

Hand Care



- Fast Orange
- Wipes
- Hand Care
- Extended Line

Lubricants



- Anti-Seize Lubricants
- Specialty Lubricants
- Brake Lubricants

Maintenance & Repair



- Body & Under Bonnet
- Brake Repair
- Body Repair
- Rust Treatment
- Repair Kits
- Rebuilders Aid

Radiator Repair Leak

Permatex® Radiator Repair Stop Leak

- Reduces need to top off fluid due to mild corrosion
- No Draining or Flushing
- One-Step Process
- Anti-Clog Formula



The Permatex Radiator Repair flows through the heater core without restriction and plugs pinhole leaks reducing engine overheating and frequently adding coolant. Corrosion of cooling system components causes pinhole leaks and can lead to engine overheating and the need to frequently add coolant.

Head Gasket Repair Leak

Permatex® Head Gasket Repair Stop Leak

- ASTM D3147, D6107 and D1881 Approved
- Heat Syncing Formula
- One-Step Process
- No Draining or Flushing
- Anti-Clog Formula



The Permatex Head Gasket Repair is designed to seal pinhole leaks 2x faster and prevent coolant, oil and other fluids from mixing with each other. Leaks in head gaskets cause loss of engine power, overheating and excess coolant consumption.

Engine Oil Stop Leak

Permatex® Engine Oil Stop Leak

- Works on all gas, hybrid and diesel engines
- Eliminates exhaust smoke due to burning oil
- Conditions o-rings and seals to prevent cracking and future leaks
- No Draining or Flushing
- Anti-Clog Formula



Permatex Engine Oil Stop Leak increases viscosity of engine oil and conditions, softens and expands rubber components. Brittle seals and gaskets allow oil to seep from the engine and cause deposit formations and dark exhaust smoke.

Power Steering Repair Leak

Permatex® Power Steering Repair Stop Leak

- Quiets Noisy Power Steering Pumps
- Improves Steering Response
- One-Step Process
- No Draining or Flushing
- Anti-Clog Formula



Permatex Power Steering Repair stops leaks, increases fluid viscosity while conditioning and protecting rubber components, reducing cracking and future leak points. Leaky fluids and low levels cause squealing and squeaking

Body and Under Bonnet

- Under Coating, Engine Degreaser, Weatherstrip Cement
- Battery Protector, Battery Cleaner, Throttle & Choke Cleaner, Radiator Cleaner



Brake & Parts

- Brake & Parts Cleaner
- Electrical & Contact Cleaner



Exhaust Repair

- Muffler & Tailpipe Sealant & Putty
- Muffler & Tailpipe Bandage



Rebuilders Aid

- Prussian Blue
- Valve Grinding Compound



Repair Kits

- Wheel Restorations Kits
- Windscreen & Vinyl Repair Kits



Rust Treatments

- Rust Treatments
- Rust Dissolver Gel



Gasket Makers

- Black Gasket Makers
- Red Gasket Makers
- Grey Gasket Makers



Gasket Sealants

- Gasket Dressings
- Spray On Gaskets
- Gasket Sealants



Anaerobic & Specialty Gasket Makers

- Anaerobic Gasket Makers
- Specialty Gasket Makers
- Applications : Transmission/Water Pumps/Thermostats



Gasket Removers

- Gasket Scraper
- Gasket Remover



Fast Orange

- Heavy Duty Hand Cleaner
- Pumice Hand Cleaner / Lotion
- Pro clean Hand Cleaner



Wipes

- Fast Orange Wipes
- Heavy Duty Scrubbing Towel



Extended Line

- Grease X – Laundry Detergent
- Grease X – Body Wash
- Repair Cream / Foaming Hand Wash



Permatex Hand Cleaners

- Mechanics Gloves
- Scrubs in a Bucket
- Grease Grabber



Blue Thread Lockers

- Medium Strength



Orange Thread Lockers

- High Strength



Red Thread Lockers

- High Strength
- High Temperature



Thread Sealants

- Pipe Joint Compounds
- Thread Compounds / Sealants / Bearing Mount



Additional Thread Compounds

- Bolt Mark
- Retaining Compounds



Epoxies & Syringe Adhesives

- Epoxy
- Plastic Weld / Steel Weld / Cold Weld



Adhesive Sealants

- Silicone Adhesives
- Windshield Glass Sealer



Spray Adhesives

- Leak Repair Spray / Headliner Adhesive
- All Purpose Spray



Super Glues

- Super Glue
- Ultra Bond Super Glue



Specialty Adhesives & Removers

- Fuel Tank Repair / Plastic Adhesive/Liquid Tape
- Contact Cement / Wrap it / Decal Remover / Metal Fill



Weatherstrip Adhesives

- Weather Strip Adhesives
- Weather Strip Cement



Anti Seize

- Chain Lube
- Belt Dressing
- Anti Seize Lubricants



Brake Lubricants

- Brake Parts Lubricants
- Ultra Lube / Ceramic Extreme
- Disc Brake Quiet



Specialty Lubricants

- Bulb Grease / Engine Assembly Lube
- Di Electric Tune Up Grease/ Lithium Grease
- Silicon Lubricants



GASKET MAKER SELECTOR CHART

	SPECIALIZED		ULTRA		OPTIMUM			90 MIN			ONE MINUTE			
Product	Water Pump & Thermostat Silicone Gasket Maker	Gear Oil Gasket Maker	Ultra Black Gasket Maker	Ultra Grey Gasket Maker	Ultra Red Gasket Maker	Optimum Black Gasket Maker	Optimum Grey Gasket Maker	Optimum Red Gasket Maker	The Right Stuff 90min Black Gasket Maker	The Right Stuff 90min Grey Gasket Maker	The Right Stuff 90min Red Gasket Maker	The Right Stuff Black Gasket Maker	The Right Stuff Grey Gasket Maker	The Right Stuff Red Gasket Maker
Sizes/ Part number	22071 - .5oz TB	81182 - 3oz TB 81184 - 5fl oz CT	22072 - .5oz TB	22074 - .5oz TB	81630 - 3.35oz TB 81695 - 9.5oz PB 81624 - 13oz CT	27037 - 3.35oz TB 27137 - 9.5oz PB 27237 - 13oz CT	27036 - 3.35oz TB 27136 - 9.5oz PB 27236 - 13oz CT	27038 - 3.35oz TB 27138 - 9.5oz PB 27238 - 13oz CT	25228 - 3oz TB	34328 - 3oz TB	34628 - 5oz TB	25229 - 3oz PC Carded 29208 - 5oz CT	25238 - 3oz PC Carded 34311 - 5oz CT	34423 - 3oz PC Carded 34425 - 5oz CT
Temp Range	-65°F to 500°F Intermit	-65°F to 500°F Intermit	-65°F to 500°F Intermit	-65°F to 500°F Intermit	-65°F to 650°F Intermit	-75°F to 500°F Intermit	-75°F to 700°F Intermit	-90°F to 750°F Intermit	-65°F to 500°F Intermit	-65°F to 500°F Intermit	-65°F to 650°F Intermit	-75°F to 450°F Intermit	-75°F to 450°F Intermit	-75°F to 650°F Intermit
Sensor Safe	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Applications	Water-Clycol (Antifreeze)	Gear oil, Manual Transmissions	Heavy Duty Oil	High Torque, High Vibration	High-Temp	Max Flex and Oil Resistance	Max Torque & Vibration	Max Temp	90 Minute Return to Service	90 Minute Return to Service	90 Minute Return to Service	Immediate Return To Service	Immediate Return To Service	Immediate Return To Service
	Water Pump & Thermostat Housings	Differentials, Transfer Cases	Older Domestic Vehicles, Oil Pans, Valve Covers, Timing Covers	Import & Newer Domestic Vehicles, Intake Manifolds, Thermostat Housings	Exhaust Manifold or Header Flanges, Exhaust Flange or Slip Fit Joints, Turbo Flanges, Heat Riser Tube Flanges	Newer Lightweight & Premium Components, Oil Pans, Timing Covers	High Performance Components, Exhaust Manifolds, Intake Manifolds	Exhaust Manifold or Header Flanges, Exhaust Flange or Slip Fit Joints, EGR Valves, Turbo Flanges, Heat Riser Tube Flanges	Valve Covers, Intake Manifolds, Coolant Flanges, Oil Pans, Timing Covers, Heavy-Duty Truck & Fleet	Valve Covers, Intake Manifolds, Coolant Flanges, Oil Pans, Oil Pumps, Timing Covers	Exhaust Manifold or Header Flanges, Exhaust Flange or Slip Fit Joints, EGR Valves, Turbo Flanges, Heat Riser Tube Flanges	Automotive & Marine Gaskets, Older Domestic Vehicles, oil pans, oil pumps, valve covers, timing covers	Automotive & Marine Gaskets, Older Domestic Vehicles, oil pans, oil pumps, valve covers, timing covers	Exhaust Manifold or Header Flanges, Exhaust Flange or Slip Fit Joints, EGR Valves, Turbo Flanges, Heat Riser Tube Flanges
Replaces					Replaces previous gen. Red			Replaces Ultra Copper 81873						

PX-0766

Permatex EPOXY SERIES TOUGH BONDS FOR TOUGH JOBS

	1 MINUTE GEL EPOXY	5 MINUTE GEL EPOXY	2 TON EPOXY	BLACK PLASTIC WELDER	MARINE H2 HOLD EPOXY	STEEL WELD™ EPOXY	500° HIGH HEAT EPOXY	CELLULOSE WOOD EPOXY
Best For:	<ul style="list-style-type: none"> General Purpose No-Clamp NO-DRIP GEL Blue Dye disappears when mixed 	<ul style="list-style-type: none"> General Purpose No-Clamp NO-DRIP GEL Blue Dye disappears when mixed 	<ul style="list-style-type: none"> Bonds together rigid materials High clarity and impact strength Gap-filling and non-shrinking 	<ul style="list-style-type: none"> Structural Adhesive Ideal for plastics and composites Resists weathering & humidity 	<ul style="list-style-type: none"> Flexible Water-Proof Adhesive Sticks and Cures Underwater Shock & Vibration resistant 	<ul style="list-style-type: none"> Steel reinforced epoxy Eliminates welding & brazing Ideal for metal to metal 	<ul style="list-style-type: none"> Up to 500F Underhood and Automotive Applications Chemical resistant 	<ul style="list-style-type: none"> Ideal for wood bonding & repair jobs Non-foaming formula Strong lasting bond
Strength:	2500 psi	3400 psi	4000 psi	3500 psi	4000 psi	Permanent Strength up to 4500psi	Up to 800 psi	2000 psi
Set Time:	1 min	5 min	30 min	5 min	15 min	5 min	10 min	5 min
Cure Time:	5 min	10 min	1 hour	10 mins	1 hour	1 hour	2 hours	1 hour
Finished Color:	Clear	Clear	Clear	Black	Off-white	Metallic Grey	Clear	Tan
Bonds to:	Metals Hard Plastics Ceramics Glass Rubber And more..	Metals Hard Plastics Ceramics Glass Rubber And more..	Ceramics Fiberglass Metal Concrete And more..	Hard Plastics Metal Fiberglass Chrome Ceramic	Fiberglass PVC Metal Wood Plastics And more..	Aluminium Brass Chrome Copper Stainless Steel And other metals..	Metals Hard Plastics Ceramics Glass Rubber And more..	Furniture Doors Windows Trim / Molding Decks

Threadlocker SELECTOR CHART											
THREADLOCKERS								2-in-1 Compound	THREAD SEALANTS		
PRODUCT	PURPLE Low Strength Threadlocker	BLUE Medium Strength Threadlocker	BLUE Surface Insensitive Threadlocker	ORANGE High Strength Removable Threadlocker	RED Permanent Strength Threadlocker	RED High Strength Threadlocker	RED High Temperature Threadlocker	GREEN Penetrating Grade Threadlocker	Seal & Lock Thread Compound	High Performance Thread Sealant	High Temperature Thread Sealant
SIZES PRODUCT #	6 ml - #24024	6 ml - #24200 36 ml - #24240 90 ml - #24283 2.5 ml - #24206 10 ml - #24210 50 ml - #24250 <i>Gel</i> Use Gel for Overhead Applications 5g GEL - #24005 10g GEL - #24010	6 ml - #24027 10 ml - #24300	10 ml - #25210	36 ml - #26240	6 ml - #27100 36 ml - #27140 90 ml - #27183 10 ml - #27110 50 ml - #27150 <i>Gel</i> Use Gel for Overhead Applications 5g GEL - #27005 10g GEL - #27010	6 ml - #24026 10 ml - #27200 36 ml - #27240	6 ml - #29000 36 ml - #29040	35 ml - #57535	50 ml - #56521	6 ml - #59214 50 ml - #59235
FASTENERS/FITTINGS	#2 to 1/4" (2.2 - 6mm)	1/4" to 3/4" (6 - 20mm)	1/4" to 3/4" (6 - 20mm)	1/4" to 1" (10 - 25mm)	3/8" to 1" (10 - 25mm)	3/8" to 1" (10 - 25mm)	3/8" to 1 1/2" (10 - 25mm)	#2 to 1/2" (2.2 - 12mm)	1/4" to 3/4" (6 - 20mm)	Up to 2" (50mm)	Up to 2" (50mm)
BREAKAWAY/PREVAILING TORQUE, IN-LB	55/20	115/50	180/60	160/180	190/275	250/250	200/225	65/225	80/N/A	N/A	N/A
TEMPERATURE RANGE	-65°F to +300°F (-54°C to +150°C)	-65°F to +300°F (-54°C to +150°C)	-65°F to +300°F (-54°C to +150°C)	-65°F to 300°F (-54° to 150°C)	-65°F to +300°F (-54°C to +150°C)	-65°F to +300°F (-54°C to +150°C)	-65°F to +450°F (-54°C to +232°C)	-65°F to +300°F (-54°C to +150°C)	-60°F to +300°F (-51°C to +150°C)	-65°F to +300°F (-54°C to +150°C)	-65°F to +400°F (-54°C to +204°C)
APPLICATIONS	Small mounting screws, throttle body assembly, choke assembly, interior panel screws and light duty requirements	Valve cover bolts, water pump bolts, oil pan bolts, drive shaft bolts, carburetor studs	Rocker studs, rocker adjustment bolts, disc brake caliper slide bolts, intakes, alternator and pulley assemblies	Case half bolts, triple tree fasteners, fly wheel bolts, stator bolts, axle nuts, dirt bikes, heavy-duty construction, power tools, lawn and garden	Ring gear bolts, transmission shaft bolts, strut or shock hardware, control arm hardware	Threaded and slip fit joints, cylinder block and rocker arm studs, ring gear bolts, transmission and shaft bolts, strut or shock hardware, control arm hardware and many motorcycle applications	Camshaft sprocket bolts, crankshaft bolts, idler bearings, transmission input and output shaft threads and heavy duty applications	Preassembled fasteners, instrument screws, carburetors, adjustment screws	Threaded freeze plugs, oil pressure sensor, fuel line supply nuts and bolts, fuel injector, coolant temperature sensor, power steering cooler lines, brake master cylinder line nuts, A/C systems, plumbing systems	Steel fittings, head bolts into through holes, oil PSI sending units/sensors, oil and coolant lines, intake manifold switches, rear axle fill plug, fuel fittings	Head bolts into through holes, oil PSI sending units/sensors, oil and coolant lines, fuel fittings, rear axle fill plug, power steering fittings

ANTIBACTERIAL FOAMING HAND WASH

GENTLE ENOUGH FOR EVERYDAY USE
Gentle on skin but effective
Mild formulation for smoother feeling hands

HELPS KILL HARMFUL GERMS
Contains antibacterial ingredients
Regular hand washing is the best way to stay healthy

FRESH SCENT
Neutral fresh scent for broad appeal

MORE PROFESSIONAL FAST ORANGE HAND CLEANING PRODUCTS AND ACCESSORIES.

Item #	Description	Case Pack	Case Dimensions	Case Cube	Item UPC Prefix
95105	FO ANTIBACTERIAL FOAMING HAND WASH	12	10.875"L x 8.00"H x 7.625"W	0.384	6 86226 95105 2
25050	FAST ORANGE WIPES 25 CT	8	10.125"L x 8.500"H x 6.00"W	0.299	6 86226 25050 6
25051	FAST ORANGE WIPES 72 CT	6	15.000"L x 11.250"H x 10.000"W	0.976	6 86226 25051 3
35406	PUMICE HANDCLEANER 4.5 LB	1	16.750"L x 8.500"H x 11.125"W	0.917	6 86226 35406 8
28192	35013 PUMICE HANDCLNR 28OZ	12	19.250"L x 5.500"H x 14.000"W	0.858	6 86226 28192 0
25219	PUMICE HANDCLEANER 1 GA	4	14.625"L x 11.250"H x 10.375"W	0.988	6 86226 25219 7
25217	PUMICE HANDCLEANER 64 FC	6	14.500"L x 8.500"H x 12.125"W	0.890	6 86226 25217 3
25122	FOPL ROCKER TOP 15 OZ	12	11.250"L x 8.875"H x 7.750"W	0.447	6 86226 25122 0
95140	UNIVERSAL PUMP SOAP DSPNR	1	6.625"L x 9.75"H x 5.375"W	0.201	6 86226 95140 3
23218	SMOOTH HANDCLEANER 1 GA	4	14.625"L x 11.250"H x 10.375"W	0.988	6 86226 23218 2
23217	FOSL 64 FO PMPBD	6	14.375"L x 8.875"H x 12.125"W	0.895	6 86226 23217 5
23122	FOSL ROCKER TOP 15 OZ	12	11.250"L x 8.875"H x 7.750"W	0.447	6 86226 23122 2

FAST ORANGE®

THE BEST CHOICE FOR WORKING HANDS EVERYWHERE

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INTRODUCING FAST ORANGE XTREME

A new professional grade hand cleaner

- PROVEN 10% GREATER CLEANING EFFICIENCY**
Over Competitive Brands & Original Fast Orange
- ADVANCED SKIN PROTECTING FORMULA**
- ODOR ELIMINATOR TECHNOLOGY**

A new professional grade formulation delivering superior cleaning power, fast, with less residue, and without a lingering petroleum odor. Contains a concentrated odor neutralizer that counteracts the smell of gasoline, oil, and other common odors. Advanced skin protection formula with premium skin conditioners: aloe vera, glycerin, lanolin, vitamin E, jojoba oil.

FAST ORANGE GREASE X MECHANIC'S LAUNDRY DETERGENT

REMOVES AUTOMOTIVE STAINS & SOILS
ELIMINATES FUEL, OIL & EXHAUST ODORS
KEEPS WASHER CLEAN OF RESIDUAL GREASE

NO SEPARATE PRETREATER NEEDED
HELPS REPEL FUTURE STAINS
SAFE FOR ALL FABRICS AND SEPTIC SYSTEMS

SOAP-INFUSED GRIME MAGNET

THIS SPECIAL FOAM WAS DESIGNED FOR INDUSTRIAL OIL SPILLS AND OIL SPILL CRISIS CLEANUP.

Features and Benefits:
Absorbs 14x its weight in petroleum products
Repels Water
No Mildew or Mold
Infused with the cleaning performance of Fast Orange pumice hand cleaner
Renewable plant-based foam
Long-lasting

Item #	Description	Case Pack	Case Dimensions	Case Cube	Item UPC Prefix
25618	FAST ORANGE XTREME 1 GAL	4	14.625"L x 11.25"H x 10.375"W	0.988	6 86226 25618 8
25619	FAST ORANGE XTREME ULTRA CHERRY 1 GAL	4	14.625"L x 11.25"H x 10.375"W	0.988	6 86226 25619 5
25419	FAST ORANGE XTREME FRESH SCENT 1GAL	4	14.625"L x 11.25"H x 10.375"W	0.988	6 86226 25419 1
25616	FAST ORANGE XTREME ROCKER TOP 15 OZ	12	11.250"L x 8.875"H x 7.750"W	0.447	6 86226 25616 0
22340	FAST ORANGE GREASE X MECHANIC'S LAUNDRY DETERGENT 40 OZ BTL	6	10.875"L x 10.125"H x 10.375"W	.0661	686226223401
25106	FAST ORANGE SOAP INFUSED SPONGE	6	11.250"L x 8.875"H x 7.750"W	0.447	6 86226 25106 0



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Continental

VDO



VDO is now Continental. Original stays Original.

As a global technology company and one of the leading automotive suppliers, we are the ideal partner for aftermarket solutions and services. Thanks to our broad portfolio and the top quality of an original equipment manufacturer, we always offer our customers real added value.

This bundled know-how represents our Continental brand – and therefore VDO original spare parts for electronics and mechatronics and VDO service tools are supplied in the new Continental packaging as part of the brand transfer. The products will of course be identical.

VDO

Original will always be original

VDO is now Continental



Continental 

Instrumentation



- Tachometers
- Hour meters
- Ammeters
- Voltmeters
- Tank level gauges
- Pressure gauges
- Speedometers
- Temperature Gauges
- Clocks

Tachographs



- Head units
- Charts
- Installation components

Switches & Senders



- Pressure senders
- Temperature senders
- Tank level senders
- Pressure switches
- Temperature switches
- Adapters and fittings

Sensors



- Mass airflow sensors
- MAP sensors
- Cam and crankshaft sensors
- Wheel speed sensors
- Knock sensors
- Oxygen/NOX sensors

Actuators



- Throttle Actuators
- Idle Control Actuators
- EGR Valves

Fuel Systems



- Common Rail Diesel Systems
- Fuel Injectors
- Wide Range of Fuel Pumps

Cooling Systems



- Electric Water Pumps

Windshield Systems



- Washer Pumps
- Washer Nozzles
- Washer Kits

Multimedia



- 24V Radio
- Entry Line Radio
- OE Radio
- Can Radio
- Accessories

TPMS



- TPMS
- Conticheck pressure systems
- Commercial Vehicle TPMS

Fleet Safety Systems



- Reverse Cameras
- ProViu 360
- RightViu (Blindspot Monitoring)

VDO Cockpit International

- Range available for last 30+ Years
- Market coverage Automotive, Commercial and Off-Highway
- 52mm, 80mm and 100mm Variants
- Speedometers and Tachometers now discontinued



VDO SingleViu

- New Technology (Analogue and CAN)
- Market coverage Automotive, Commercial and Off-Highway
- 52mm, 80mm and 100mm Variants
- Fully customizable input settings to work with OE senders
- Standard connectors on all instrument sizes
- Customizable back light colors (White, Green, Red, Orange, Yellow)
- Programmable warning limits



Veratron Viewline

- Market coverage Marine and Off-Highway
- IP67 rating
- Analogue and CAN inputs
- Double lens configuration for marine use
- Suitable versions specific for marine applications (Rudder Angle, Trim Tilt, Sumlog etc.)



Pressure Senders

- Oil
- Water
- Air and Turbo/Boost pressure



Pressure Switches

- Engine Oil
- Hydraulic Oil
- Water and Brake Air pressure



Temperature Senders

- Engine Coolant
- Oil, & Air-Cooled engine
- EGT (Exhaust gas) and Ambient



Temperature Switches

- Engine Coolant
- Oil
- Hydraulic Oil



Tank Level Senders

- Tubular Type
- Lever Arm type
- Stainless Reed Switch



Oxygen Sensors

- No of References : 322
- New References : 158
- Vehicle Coverage : 4.75m vehicles (56%)



CAM & Crankshaft Sensors

- No of References : 165
- New References : 56
- Vehicle Coverage : 7.75m vehicles (86%)



Wheel Speed Sensors

- No of References : 0
- New References : 0
- Vehicle Coverage : 0m vehicles (0%)



MAP Sensors (Air Pressure)

- No of References : 165
- New References : 56
- Vehicle Coverage : 7.75m vehicles (86%)



Air Temperature Sensors

- No of References : 322
- New References : 158
- Vehicle Coverage : 4.75m vehicles (56%)



Engine Oil Level Sensors

- No of References : 165
- New References : 56
- Vehicle Coverage : 7.75m vehicles (86%)



Throttle Position Sensors

- No of References : 0
- New References : 0
- Vehicle Coverage : 0m vehicles (0%)



MAF Sensors (Mass Air Flow)

- No of References : 322
- New References : 158
- Vehicle Coverage : 4.75m vehicles (56%)



Knock Sensors

- No of References : 165
- New References : 56
- Vehicle Coverage : 7.75m vehicles (86%)



EGT Sensors (Exhaust Gas)

- No of References : 0
- New References : 0
- Vehicle Coverage : 0m vehicles (0%)



Other Sensors

- High Pressure Sensors
- Rudder Angle Sensors
- CKP/CMP Sensors



Throttle Valves

- Electromotive Throttle Valves
- Electronic Throttle Valves
- Mechanical Cable and Electric Servo Operated



Idle Speed Control

- Electric pneumatic



Digital Linear Actuator

- Electric servo controlled



Design and Manufacturing at OE manufacturer specification

Direct replacement (Mounting and Electrical)

Full integration with vehicle electronics

Ensuring improved efficiency in all load conditions, producing better performance, fuel economy and emissions

OE – VDO Cross reference

Common Rail Diesel

- Common Rail Pumps
- Common Rail Injectors
- CR Diesel Rails



Fuel Pumps & Fuel Feed Units

- In tank Electric pumps
- Swirl Pots
- Cartridge Pumps



Petrol Fuel Injectors

- Direct OE Replacement



Direct Replacement of OE part
Design/Manufactured to OE manufacturers specification
Cross-reference between VDO and OE number
Full integration with vehicle electronics

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Human Machine Interface Controls



- Dash Mounted and Column Shifter
- Multi-function Operator Consoles
- Customized Armrest Consoles

Joystick Controls



- Single and Multi-axis Joysticks
- Lever and Rotary Hand Controls

Throttle Controls



- Floor-mounted Pedals
- Suspended Pedals , Rocker Pedals
- Tilt Sensors , Thumb Controls
- Twist Controls
- RX Pedal Module

Sensors



- Linear and Rotary Hall-effect Sensors
- In-cylinder and Spool Valve Sensors
- Spool Valve Linear Sensors
- Tilt Sensors

- Dash-mounted and Column Shifters
- Multi-function Operator Consoles
- Customized Armrest



- Low Power AC and DC Motor Controllers
- Traction Inverters
- Power Distribution Modules*
- High Voltage Inverters



Low Voltage - Controls

High Voltage Traction Converters



WTI-S160



WTI-S260



WTI-D260

*PDM on-demand



- Single and Multi-axis Joysticks
- Lever and Rotary Hand Controls



- **Pedal mounting placement**
 - Bracket
- **Programming**
 - Sensor
- **Starting pedal angle**
 - Bracket
- **Overall travel angle**
 - Lever
- **Forces**
 - Return springs
 - Kickdown module



- **Hall Effect Non-Contact Sensor**
- **Environmental Protection**
 - IP68S and IP69k
 - Salt fog 1000 hour while powered on
- **Endurance Tested to 10 Million Cycles**
- **EMC Tested to International Standards**
 - ISO11452, ISO7637, CISPR25, ISO16750, ISO10605
- **Sensor Outputs Available**
 - Dual Analog or PWM Outputs
 - Analog and Dual IVS Outputs
 - CAN Message Output
- **Sensor Power Supply – Regulated 5V**
 - 12V & 24V Battery (CAN Option only)
- **Sensor Electronic Platform Used in Integrated Products**
- **High DC Magnetic Immunity Option (Inductive Foundry Applications)**



- **Hall Effect Non-Contact Sensor**
- **Environmental Protection**
 - IP67 & IP69k
 - Salt fog 96 hour while powered on
- **Endurance Tested to 10 Million Cycles**
- **EMC Tested to International Standards**
 - ISO11452, ISO7637, CISPR25, ISO16750, ISO10605
- **Sensor Outputs Available**
 - Dual Analog or PWM Outputs
 - Dual 4-20mA Current Output
 - Analog and Dual IVS Outputs
- **Sensor Power Supply**
 - Regulated 5V (Analog and PWM Outputs)
 - 12V & 24V Battery (PWM and Current Outputs)
- **Optional Flying Lead Connector**



- **Features**
 - Multiple configurable mounting options
 - Optional magnetic kickdown
 - Integrated hysteresis
 - Standard pedal angles of 28.5, 35, and 45 degrees
- **Certified to FMVSS-124 (Dual springs for redundant safety return)**
- **Testing**
 - Based on SAE J1455
 - Tested to 10 million cycles
- **Designed for Heavy duty applications**
 - on-highway, agriculture, and construction markets



- **Features**
 - Narrow and compact design
 - Multiple configurable mounting options
 - Standard pedal angles of 35 and 52 degrees
- **Certified to FMVSS-124 (Dual springs for redundant safety return)**
- **Testing**
 - Based on SAE J1455
 - Tested to 4 million cycles
- **Designed for Heavy duty applications**
 - on-highway



- **Features**
 - Injection molded engineering plastic construction
 - Multiple mounting points available
 - Integrated hysteresis
 - Standard pedal angles of 35 and 45 degrees available.
- **Certified to FMVSS-124 (Dual springs for redundant safety return)**
- **Testing**
 - Based on SAE J1455
 - Tested to 3 million cycles
- **Designed for Medium and Light duty applications**
 - on-highway



- **Features**
 - Injection molded engineering plastic construction
 - Multiple mounting points available
 - Integrated hysteresis
 - Standard pedal angles of 30, 37.5, and 45 degrees
- **Certified to FMVSS-124 (Dual springs for redundant safety return)**
- **Testing**
 - Based on SAE J1455
 - Tested to 3 million cycles
- **Medium duty applications**
 - on-highway, agriculture, and construction markets



- **Features**
 - Injection molded engineering plastic construction
 - Under panel/through floor installation
 - Standard pedal angles of 22 degrees
- **Certified to FMVSS-124 (Dual springs for redundant safety return)**
- **Testing**
 - Based on SAE J1455
 - Tested to 3 million cycles
- **Designed for material handling and off-highway applications**
 - Lift trucks and sweepers



WM-540 Suspended Pedal

- **Features**

- All metal construction with die cast aluminum and steel
- Many lever arm options available
- Plastic or heavy-duty aluminum pedal pads available.
- Configurable steel mounting bracket with many available options

- **Certified to FMVSS-124 (Dual springs for redundant safety return)**

- **Testing**

- Based on SAE J1455
- Tested to 3 million cycles

- **Designed for Heavy and Medium duty applications**

- on-highway, agricultural, and construction



WM-542 Suspended Pedal

- **Features**

- Injection molded engineering plastic construction
- Many lever arm options
- Configurable steel mounting bracket with many available options
- Optional magnetic kickdown
- Optional hysteresis

- **Certified to FMVSS-124 (Dual springs for redundant safety return)**

- **Testing**

- Based on SAE J1455
- Tested to 3 million cycles

- **Designed for Heavy and Medium duty applications**

- on-highway



WM-554 Suspended Pedal

- **Features**

- Injection molded engineering plastic construction
- Many lever arm options
- Configurable steel mounting bracket with many available options
- Narrow profile

- **Certified to FMVSS-124 (Dual springs for redundant safety return)**

- **Testing**

- Based on SAE J1455
- Tested to 3 million cycles

- **Designed for light and medium duty applications**

- on-highway, off-highway, sports and rec



APG
COMMERCIAL 

New Product's



■ Features

- Snap in panel mount
- Soft touch 360° continuous rotation knob with 12 detent positions
- Up to 4 configurable buttons on faceplate
- Customizable button icons with dimmable LED backlighting and
- Separate LED status indicators
- Integrated 6-pin Metri-pack 150 Series connector
- Programmable CAN outputs

■ Testing

- Sealed to IP67 and IP69K

■ Designed for rugged environments

- agricultural, construction, sports and recreation



■ Features

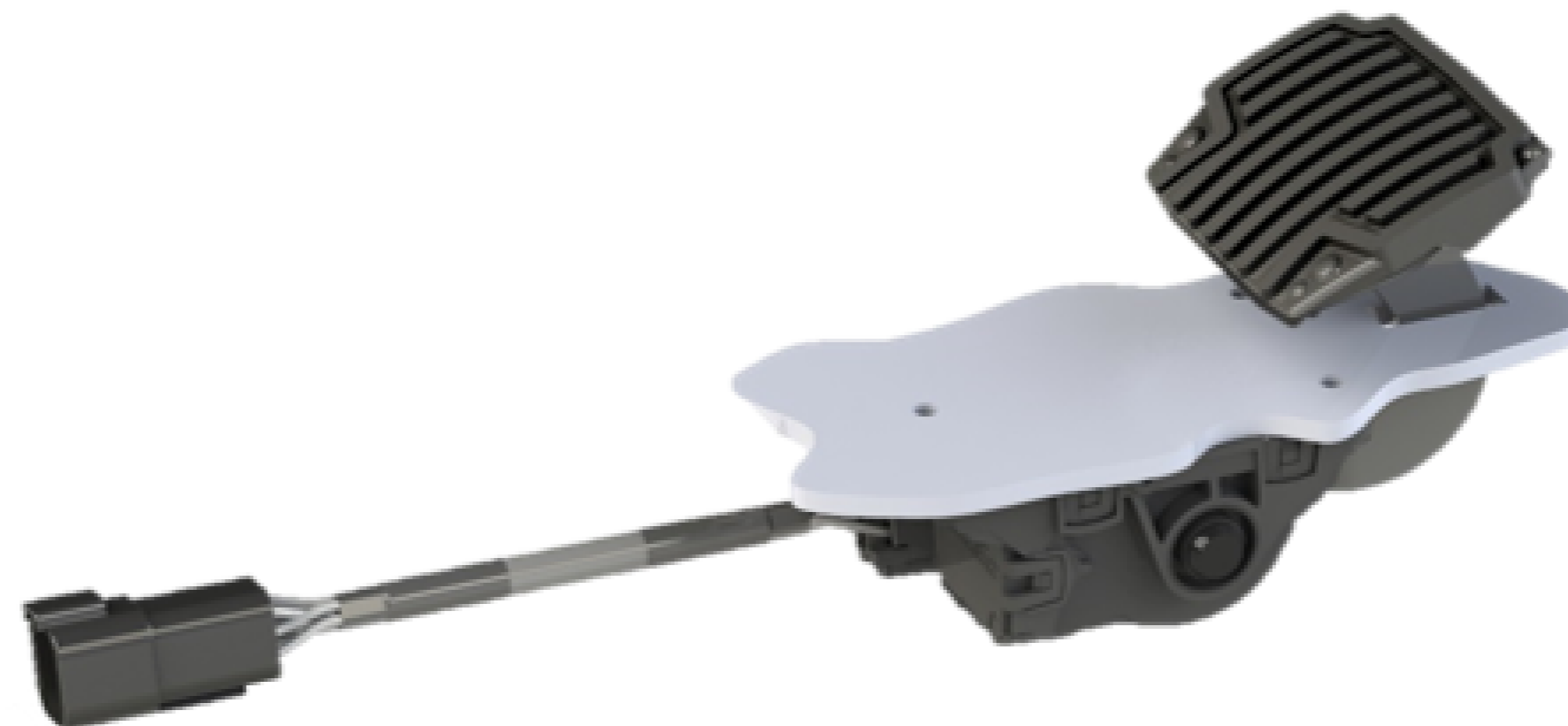
- High performance pedal for use in extreme environments
- Low profile housing allowing ergonomic placement in cab
- Integrated WM-830 sensor platform
- Mounts under the floor or onto the firewall

■ Testing

- Tested to 3 million cycles
- Mechanism sealed to IP67
- Integrated sensor sealed to IP69K

■ Designed for extreme environment applications

- agricultural, construction, and material handling



WM-J10 Gearshift Handle

■ Features

- Custom designed handle for use in open or closed cabs
- Ergonomic surfaces provide many comfortable hand positions
- Can be shipped to customer as fully assembled handle
 - All components, harness, and cover can be pre-installed
 - Reduced assembly time
 - Simplified field retrofit installation
- Customizable arrangement of buttons from preferred button manufacturers
- Customizable insert with shift pattern, company logo, ISO graphical symbols, etc.
- Mounts directly to shafts from 16.5 to 22 mm

■ Designed for Heavy Duty applications

- agricultural, construction



- **Features**
 - Designed for use in closed cabs
 - Optional magnetic kickdown
 - Optional Integrated hysteresis
 - Integrated WM-830 sensor platform
 - Mounting bracket is integrated into pedal housing
 - Optional brackets for specific mounting arrangements available
- **Certified to FMVSS-124 (Dual springs for redundant safety return)**
- **Testing**
 - Tested to 3 million cycles
 - Sensor sealed to IP67 and IP69K
- **Designed for Light and Medium duty applications**
 - on-highway



- Linear and Rotary Hall-effect Sensors
- In-Cylinder and Spool Valve Sensors
- Spool Valve Linear Sensors
- Tilt Sensors



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