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Research & Development Facility

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ABOUT US HIGHLIGHTS

CORPORATE OVERVIEW

POWERPLUS GROUP INC., USA, a leading global manufacturer of a comprehensive range of construction equipment, is part of Worldwide Techno-Equipment Group (1973) Pte Ltd. Established since 1973, POWERPLUS GROUP has evolved into a world-renowned organisation that offers machinery unparalleled in price, quality and performance.

POWERPLUS machinery is manufactured with enhanced capacities to exceed even the most stringent international standards of quality and safety. With the aim of producing machinery that is able to withstand even the most extreme climatic conditions and rugged terrains, POWERPLUS Research & Development team which has its Headquarters in the United States, has been the backbone behind all its innovative engineering solutions.

Optimising the best of technology from the United States, Europe and Japan, POWERPLUS machinery is configured to its ideal technical capabilities. A multinational team of engineers analyses the data collected from our network of distributors worldwide and are on the constant lookout for ways to maximise the life-span of POWERPLUS machinery.

Today the Company's clientele spans over 100 countries across 6 continents.

At the forefront of setting quality standards, every POWERPLUS machine undergoes a technical review after 2 years and is tested rigorously before a new model is churned out of its production facility.

With an emphasis on delivering value and excellent after-sales service to our customers, the POWERPLUS experience outshines and outclasses its competitors in all aspects.



VALUE-ADDED MACHINES WITH MAXIMISED DURABILITY

Designed to last, POWERPLUS Excavators are manufactured with high international standards that are built to withstand harsh working conditions. Years of experience in components integration has given us the capability to architect our range of POWERPLUS Excavators to comply with different operation requirements.

Upon careful selection of premium parts and components from all over the world, this powerful workhorse is engineered to maximise the capacity of every mechanism for optimal performance with high efficiency.

CONDUCIVE WORKING ENVIRONMENT FOR OPERATOR'S COMFORT AND INCREASED PRODUCTIVITY

- Wide operational view with improved visibility for precise execution of works.
- Ergonomic cabin with personalised amenities including POWERPLUS adjustable suspension seat, MP3 player and air-conditioning.
- Noise and shock reduction cabin for better comfort and reduced operator's fatigue.
- Streamlined dashboard for easy control and simple machine operation.



PERKS FOR END-USERS

- Option of Cummins or Isuzu engine with excellent fuel economy and energy savings.
- Robust undercarriage designed for longer life expectancy and ease of maintenance.
- Reinforced X-shaped crawler chassis that promotes machine stability and sturdiness over rough terrains.
- Highly efficient Kawasaki hydraulic pump, valve and swing motor for optimal machine productivity.



MINIMISED ENVIRONMENTAL IMPACT

- Excavator manufactured according to International safety and environmental standards.
- Emphasis on Fuel efficiency and control system for low emission levels.
- Up to 90% of recyclable parts and quality parts for longer lifespan.



OPERATOR'S COMFORT

- Pilot control system for precise operations
- Ergonomically designed air-conditioned cabin
- Low-noise and reduced vibration cabin for minimal fatigue
- Easy-to-control levers and panels
- POWERPLUS suspension seat

EASY ACCESS TO COMPARTMENTS FOR MACHINE MAINTENANCE

- Easily accessible components for cleaning and inspection
- Simple replacement procedures for filter and oil elements
- Simplified service routine with reduced service time and work hazards

KAWASAKI PUMP

- Enhanced digging force
- Higher pressure rating and increased power density
- High efficiency and large self-priming capability
- Improved resistance against wear and tear, promoting longer lifespan
- Optimum design of the valve plate and casing rigidity result in lower noise
- Reduced energy and pressure loss
- World-renowned brand with quality assurance

mmmmmm

CUMMINS, ISUZU & MITSUBISHI ENGINES

- Powerful with high fuel efficiency
- Structurally reinforced to resist bending and torsion while reducing noise output
- Special edge-molded design to eliminate possible leakage and reduce oil consumption
- Reduced environmental impact and carbon footprint
- Comes with international warranty for minimised downtime



- Italian technology heat-treated bucket teeth and edges
- Customised solutions to your job requirements
- High adaptability to different attachments

X-FRAME DESIGN UNDERCARRIAGE

POWERPLUS

 Customised and fabricated to ensure stability and durability even in the harshest environments to prevent damage from foreign objects

*Illustration and statements made are based on standard

HYDRAULICS



LEGENDARY DEPENDABILITY AND WORLD CLASS SUPPORT

In every corner of the globe and every construction zone, chances are you will find Cummins, Isuzu, and Mitsubishi engines hard at work.

These engines bring toughness and reliability to every equipment. It is designed to minimise downtime for maximum productivity.



KAWASAKI PUMP Swash plate type axial piston pumps

HIGH POWER DENSITY

A lighter and more compact machine with higher pressure rating and increased power density (output power/mass) is obtained by adopting a half log type wash plate.

In particular, the double pump with its tandem arrangement has eliminated the need for a power divider, which results in an increased transmission efficiency that reduces the time required.

HIGH EFFICIENCY AND LARGE SELF-PRIMING CAPABILITY

The spherical valve plate and improved hydraulic balance provides stable cylinder rotation, thus achieving higher efficiency even in a low-pressure and low-speed operating range.

LONG LIFE

Higher life expectancy with the adoption of large capacity main bearings and usage of piston-return mechanisms. The introduction of this beneficial implementation compensates friction effectively, reducing damage from wear-and-tear to the shoe.

LOW NOISE

Reduced collision and noise level through optimum design of the valve plate and the casing rigidity.

WIDE RANGE OF CONTROLS

The pump can be controlled in various kinds of command methods and is capable of responding to either mechanical, hydraulic or electrical input.





UNDERCARRIAGE





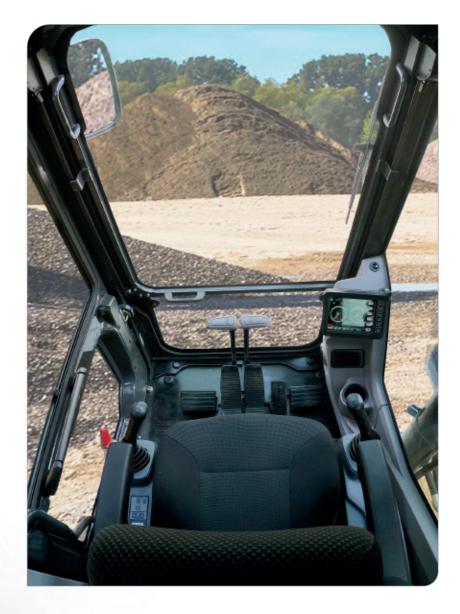


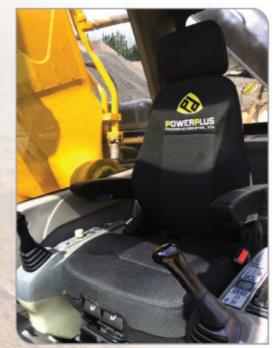
HIGH-STRENGTH FRAME

- Sealed lubricated track, proven to reduce wear and tear
- Heavy excavator elongated base support
- Slope track frame design allow debris to flow down easily
- Robust X-shaped slope type track frame



- Hydraulically balanced piston motor ensures a consistent supply of high-pressure and operation performance.
- An offset type speed design ensures reliable changeover of the displacement.
- Floating seals prevent foreign materials like dust or water from entering the motor.
- Heavy duty bearings are used in the motor for longer lifespan.
- · Auto-brake system enhances safety operation.
- The motor offers an inbuilt, double counter balance valve and shock-less crossover relief value, providing speed control and braking with minimum shock.
- Case rotation type gear reducer has improved durability and reliability due to high precision parts and an equally loaded design.









SUPERIOR VISIBILITY

The ergonomic cabin design provides a wide and clear operational view for the operator to control the mighty workhorse with confidence. The number of blind spots are also minimised, enabling the operator to maintain a high level of concentration while conducting the job in an effective manner.

COMPLETE CONTROL

Extra leg room, adjustable suspension seat, streamline dashboard and user-friendly control levers are designed to suit the human movement. The operator is able to adeptly manoeuvre the machine with excellent bucket visibility, enabling the most delicate finishes to be performed in the harshest conditions with maximum productivity.

WELL-DESERVED COMFORT

The reinforced structure is coupled with a well-cooled cabin designed to lower noise levels, providing a conducive environment for the operator. With an emphasis on maximising comfort and reducing fatigue for the long hours of work, a safe working cabin is POWERPLUS's way of ensuring that there is maximum efficiency while delivering optimal results.

IMPROVED CONTROL SYSTEM

The high-output engine with intercooler, features an ESS (Engine Speed Sensing) system and total horsepower control system that ensures the most efficient usage of the engine at all times. Engine complies with both Tier II & Tier III (European) Regulations depending on the market requirements.

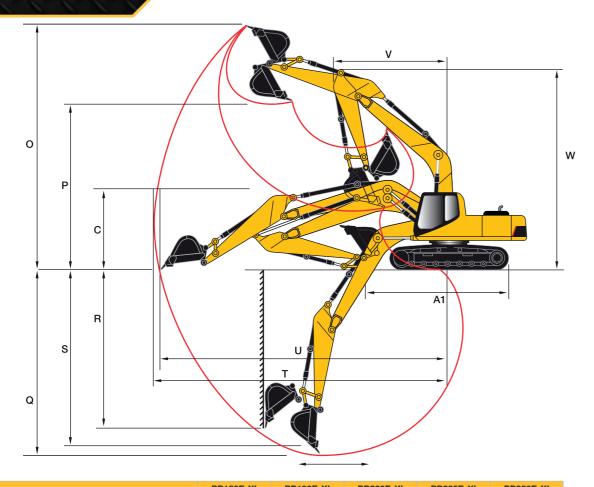
The new monitor is equipped with an intelligent computer CPU control system. With this latest addition, switching between the various operating modes have become exceptionally convenient. "P" for "Priority" mode allows users to work fast and hard; while "E" for "Fuel Economy" mode, has four options—E0, E1, E2, E3, to best meet the users' operational habits and optimise fuel economy.



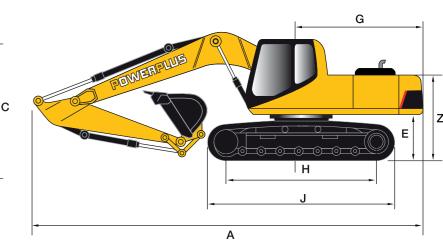




OIMENSIONS WORKING RANGE



	B →
	- N -
D	POWERPLUS C
	K M
	- L -



DIMENS	SIONS		PP150E-XI	PP180E-XI	PP220E-XI	PP235E-XI	PP250E-XI
Α	Overall Length	mm	7580	7580	9535	9390	9740
В	Overall Width	mm	2490	2490	2780	2780	2980
С	Overall Height (To Top Of Boom)	mm	2780	2780	3140	3040	3190
D	Overall Height (To Top Of Cab)	mm	2815	2815	3090	3120	3120
Е	Counterweight Ground Clearance	mm	870	870	1080	1065	1065
F	Minimum Ground Clearance	mm	430	430	470	468	442
G	Rear Swing Radius	mm	2155	2155	2800	2720	2810
Н	Track Ground Length	mm	2750	3000	3260	3445	3640
J	Track Length	mm	3485	3735	4070	4260	4450
K	Track Gauge	mm	1960	2000	2180	2180	2380
L	Track Width	mm	2460	2500	2780	2780	2980
М	Track Shoe Width	mm	500	500	600	600	600
N	Turntable Width	mm	2490	2490	2700	2700	2700
V	Minimum Swing Radius	mm	2495	2490	3800	3630	3975
W	Maximum Height At Min Swing Radius	mm	6430	6430	7640	7670	7775
Z	Height Of Counterweight	mm	1935	1935	2120	2120	2120
A1	Ground Length (Transportation)	mm	4410	4410	4970	4840	5165
	Boom Length	mm	4600	4600	5700	5700	5850
	Arm Length	mm	2500	2500	2900	2900	3050
	WORKING RANGE						
0	Maximum Digging Height	mm	8630	8630	9270	9275	9310
Р	Maximum Dumping Height	mm	6180	6180	6600	6560	6438
Q	Maximum Digging Depth	mm	5500	5500	6525	6515	6875
R	Maximum Vertical Digging Depth	mm	4940	4940	5915	5915	5860
S	Maximum Digging Depth Cut For 2440mm Level	mm	5285	5285	6380	6380	6680
Т	Maximum Digging Reach	mm	8305	8305	9820	9865	10170
U	Maximum Digging Reach At Ground Level	mm	8180	8180	9630	9680	9990

B Overall Width mm 3190 3190 3190 3190 3490 3490 C Overall Height (To Top Of Boom) mm 3500 3180 3180 3180 3755 3790 D Overall Height (To Top Of Cab) mm 3160 3280 3165 3280 3280 3280 E Counterweight Ground Clearance mm 1190 1210 1190 1210 1269 1300 F Minimum Ground Clearance mm 523 498 498 495 722 722 G Rear Swing Radius mm 3110 3420 3525 3420 3735 3735 H Track Ground Length mm 4030 3700 4030 4030 4360 4360 J Track Length mm 4957 4622 4945 4955 5390 5388 K Track Gauge mm 2590 2590 2590 2590 2890 2890 L Track Width mm 3190 3190 3190 3190 3490 3490 M Track Shoe Width mm 600 600 600 600 600 600 N Turntable Width mm 2700 2995 2995 2995 3045 3045 V Minimum Swing Radius mm 7835 8500 8500 8500 9295 9050 Z Height Of Counterweight mm 2175 2265 2657 2265 2830 2360	XI PP400E-XI PP500E-XI PP550E-XI	PP380E-XI	PP350E-XI	PP300E-XI		DIMENSIONS	
C Overall Height (To Top Of Boom) mm 3500 3180 3180 3755 3790 D Overall Height (To Top Of Cab) mm 3160 3280 3165 3280 3290 328	11080 12260 11745	11184	11150	10030	mm	A Overall Length	
D Overall Height (To Top Of Cab) mm 3160 3280 3165 3280 3280 3280 E Counterweight Ground Clearance mm 1190 1210 1190 1210 1269 1300 F Minimum Ground Clearance mm 523 498 498 495 722	3190 3490 3490	3190	3190	3190	mm	B Overall Width	
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H Track Ground Length mm 4030 3700 4030 4030 4360 4360 4360 J Track Length mm 4957 4622 4945 4955 5390 5388 K Track Gauge mm 2590 2590 2590 2590 2890 2890 L Track Width mm 3190 3190 3190 3190 3490 3490 M Track Shoe Width mm 600 600 600 600 600 600 600 N Turntable Width mm 2700 2995 2995 2995 3045 3045 V Minimum Swing Radius mm 3975 4265 4265 4265 5015 4570 W Maximum Height At Min Swing Radius mm 7835 8500 8500 8500 9295 9050 Z Height Of Counterweight mm 2175 2265 2627 2265 2830 2360	495 722 722	498	498	523	mm	F Minimum Ground Clearance	
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K Track Gauge mm 2590 2590 2590 2590 2890 2890 L Track Width mm 3190 3190 3190 3190 3490 3490 M Track Shoe Width mm 600 600 600 600 600 600 600 N Turntable Width mm 2700 2995 2995 2995 3045 3045 V Minimum Swing Radius mm 3975 4265 4265 4265 5015 4570 W Maximum Height At Min Swing Radius mm 7835 8500 8500 8500 9295 9050 Z Height Of Counterweight mm 2175 2265 2627 2265 2830 2360	4030 4360 4360	4030	3700	4030	mm	H Track Ground Length	
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M Track Shoe Width mm 600 600 600 600 600 600 N Turntable Width mm 2700 2995 2995 2995 3045 3045 V Minimum Swing Radius mm 3975 4265 4265 4265 5015 4570 W Maximum Height At Min Swing Radius mm 7835 8500 8500 8500 9295 9050 Z Height Of Counterweight mm 2175 2265 2627 2265 2830 2360	2590 2890 2890	2590	2590	2590	mm	K Track Gauge	
N Turntable Width mm 2700 2995 2995 2995 3045 3045 V Minimum Swing Radius mm 3975 4265 4265 4265 5015 4570 W Maximum Height At Min Swing Radius mm 7835 8500 8500 8500 9295 9050 Z Height Of Counterweight mm 2175 2265 2627 2265 2830 2360	3190 3490 3490	3190	3190	3190	mm	L Track Width	
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W Maximum Height At Min Swing Radius mm 7835 8500 8500 8500 9295 9050 Z Height Of Counterweight mm 2175 2265 2627 2265 2830 2360	2995 3045 3045	2995	2995	2700	mm	N Turntable Width	
Z Height Of Counterweight mm 2175 2265 2627 2265 2830 2360	4265 5015 4570	4265	4265	3975	mm	V Minimum Swing Radius	
	8500 9295 9050	8500	8500	7835	mm	W Maximum Height At Min Swing Radius	
A1 Ground Length (Transportation) mm 5545 5950 5875 5920 7590 7500	2265 2830 2360	2627	2265	2175	mm	Z Height Of Counterweight	
	5920 7590 7500	5875	5950	5545	mm	A1 Ground Length (Transportation)	
Boom Length mm 5850 6470 6470 6470 7060 6500	6470 7060 6500	6470	6470	5850	mm	Boom Length	
Arm Length mm 3050 3185 3185 2900 2900 2500	2900 2900 2500	3185	3185	3050	mm	Arm Length	
WORKING RANGE						WORKING RANGE	
O Maximum Digging Height mm 9380 10200 10200 9800 10680 9760	9800 10680 9760	10200	10200	9380	mm	O Maximum Digging Height	
P Maximum Dumping Height mm 6510 7135 7135 6830 7428 6725	6830 7428 6725	7135	7135	6510	mm	P Maximum Dumping Height	
Q Maximum Digging Depth mm 6800 7370 7370 6890 7300 6395	6890 7300 6395	7370	7370	6800	mm	Q Maximum Digging Depth	
R Maximum Vertical Digging Depth mm 5750 6380 6380 6100 6695 4060	6100 6695 4060	6380	6380	5750	mm	R Maximum Vertical Digging Depth	
S Maximum Digging Depth Cut For 2440mm Level mm 6880 7190 7190 6800 7150 6185	6800 7150 6185	7190	7190	6880	mm	S Maximum Digging Depth Cut For 2440mm Level	
T Maximum Digging Reach mm 10170 11100 11100 10800 11540 10510	10800 11540 10510	11100	11100	10170	mm	T Maximum Digging Reach	
95 5 *** *** ***	10600 11325 10270	10910	10910		mm	00 0	

EXCAVATOR		PP150E-XI	PP180E-XI	PP220E-XI	PP235E-XI	PP250E-XI	
Operating Weight	kg	13000	15000	21500	21500	24000	
Rated Bucket Capacity	m³	0.53	0.6	1.0	1.2	1.2	
Maximum Digging Force	kN	80	100	148	159	159	
Swing Speed	rpm	12	12	10.7	11	11.1	
Maximum Gradeability	0	35	35	35	35	35	
ENGINE							
Model		CUMMINS QSF3.8 / ISUZU 4BG1T	CUMMINS 4BTAA3.9	CUMMINS 6BTAA5.9 / QSB7.0 ISUZU 6BG1 / 4HK1	CUMMINS 6BTAA5.9 / CUMMINS QSB7.0	CUMMINS 6BTAA5.9 / ISUZU 6BG1	
Rated Power	hp	115 / 95	115	178 / 168 / 160 / 180	178 / 168	178 / 170	
Rated Speed	rpm	2200	2200	2000 / 2050 / 2150 / 2000	2000 / 2050	2000 / 2100	
Displacement	L	3.8	3.9	5.9 / 6.7 / 6.494 / 5.193	5.9 / 6.7	5.9 / 6.494	
No. of Cylinders		4	4	6/6/6/4	6	6	
Emission		Euro III / II	Euro II	Euro II / III / II / III	Euro II / III	Euro II / II	
JNDERCARRIAGE							
ravel Speed (High / Low)	km/h	5.3 / 3.1	5.3 / 3.1	5.8 / 3.2	5.2 / 3.5	5.2 / 3.5	
Ground Pressure	kPa	38	39	45.3	46.5	49.4	
rack Rollers		7	7	8	8	9	
Carrier Rollers		1	2	2	2	2	
No. of Tracks		42	45	47	47	49	
HYDRAULIC SYSTEM							
Main Pump		POWERPLUS	POWERPLUS	KAWASAKI	KAWASAKI	KAWASAKI	
Maximum Flow	L/min	165 x 2	165 x 2	223 x 2	200 x 2	200 x 2	
Vorking Pressure	MPa	37.0	37.0	34.3	34.3	34.3	
REFILL SERVICE CAPAC	ITY						
Fuel Tank	L	247	247	350	350	350	A.
Hydraulic Tank	L	130	130	246	246	246	1
Engine Oil	L	16.5	17.6	15	20	20	3/4/4
Coolant	L	25	16.5	24	20	20	Strie A
CABIN							
Гуре		designer uphols	tery, adjustable PO	WERPLUS mechanic	de operational view, co cal suspension driver's s operations with well des	seat, streamline	
		OWER LUS		nin			
			1				19 1

EXCAVATOR		PP300E-XI	PP350E-XI	PP380E-XI	PP400E-XI	PP500E-XI	PP550E-XI		
Operating Weight	kg	30000	33000	36000	37500	47000	50500		
Rated Bucket Capacity	m³	1.4	1.4	1.8	1.8	2.3	3.0		
Maximum Digging Force	kN	169	227	245	256	256	286		
Swing Speed	rpm	9.4	10.6	8.2	8.5	8.9	8.6		
Maximum Gradeability	rimum Gradeability ° 35 35		35	35	35	35	35		
ENGINE									
Model		CUMMINS QSB7.0	CUMMINS 6LTAA8.9 / ISUZU 6HK1	CUMMINS 6LTAA8.9 / QSL8.9 / ISUZU 6HK1	ISUZU 6HK1X	CUMMINS QSM11	CUMMINS QSM11 / ISUZU 6WG1		
Rated Power	hp	230	328 / 258	328 / 328 / 258	288	380	405 / 407		
Rated Speed	rpm	2000	2000	2000 / 2100 / 2000	2000	2100	1800 / 1800		
Displacement	L	6.7	8.3 / 7.79	8.9 / 8.9 / 7.79	7.79	10.8	10.8 / 15.6		
No. of Cylinders		6	6	6	6	6	6		
Emission		Euro III	Euro II / II	Euro II / III / III	Euro III	Euro III	Euro III / III		
UNDERCARRIAGE									
Travel Speed (High / Low)	km/h	5.9 / 3.4	5.2 / 3.3	6.2 / 4.0	5.2 / 3.3	4.9 / 2.7	4.8 / 3.0		
Ground Pressure	kPa	65.0	65.0	70.8	70.8	88.5	84.8		
Track Rollers		9	7	9	8	9	9		
Carrier Rollers		2	2	2	2	2	2		
No. of Tracks		48	45	48	48	49	49		
HYDRAULIC SYSTEM									
Main Pump		KAWASAKI	KAWASAKI	KAWASAKI	KAWASAKI	KAWASAKI	KAWASAKI		
Maximum Flow	L/min	265 x 2	320 x 2	320 x 2	320 x 2	360 X 2	360 x 2		
Working Pressure MPa		34.3	37.3	34.3	37	34.3	34.3		
REFILL SERVICE CAPAC	CITY								
Fuel Tank	L	595	595	595	595	650	650		
Hydraulic Tank	L	310	310	310	310	335	335		
Engine Oil	L	24	47	47	47	38	38		
Coolant	L	30	21.2	21.2	21.2	38	38		
CABIN									
An ergonomically designed sound proof cabin, enabling wide operational view, comes standard with designer upholstery, adjustable POWERPLUS mechanical suspension driver's seat, streamline dashboard, aircon and radio/mp3 player for extensive operations with well deserved comfort.									

OPTIONAL

ENGINE

Pre-Heat Starter

HYDRAULIC SYSTEM

Customised Bucket Size Extended Arm **Quick Coupler**

CABIN

Glass Protection Heater and Ventilation Solar Film

UNDERCARRIAGE

Track Width 600/700/800 mm

SAFETY

Additional Lights ROPS/FOPS Cabin Rear View Camera

ATTACHMENTS

SHEAR For cutting through scrap materials



and waste materials









*Availability of equipment may vary across different regions. Kindly consult your POWERPLUS territory sales personnel for details.

GLOBAL NETWORK DISTRIBUTION

POWERPLUS is committed to creating long-term value for its customers, partners and stakeholders. Our Service Centers are strategically located in major construction, industrial and manufacturing hubs in key regions around the world.

Given our years of experience in the industry, it is no doubt that our customers can always rely on us for the expertise, services and solutions we provide. Most importantly, you will find our after-sales service a satisfying experience at all of our Service Centers worldwide.



DURABILITY, RELIABILITY & AFFORDABILITY

POWERPLUS Parts and Service Centers provides a convenient channel for you to order the original spare parts through a network of highly certified OEM manufacturers and an effective distribution of spare parts through our global network of vendors.

From determining the correct part number to locating and ordering, we are committed to working round-the-clock for timely solutions and delivery to ensure we serve our customers promptly and efficiently.

Coupled with affordable parts prices and high interchangeability across the POWERPLUS machinery range, we take pride in being able to offer value to our customers with cost-effective solutions. Most importantly, you are able to retain the machines with high residual value to enhance your return on investment.







SERVICE

Delivering Unsurpassed Customer Service - Because You Matter.

Our dedicated team of customer service executives, skilled engineers and technicians are well-trained to ensure timely and propitious support throughout the customer life cycle. With a comprehensive dealer network coverage and service facilities support, POWERPLUS dedicated team of account managers and service teams from the Customer Service Charter are trained to respond to your queries and requests promptly and efficiently.

To deliver more, our service package includes educating our customers with training, maintenance and servicing to ensure customers are empowered to utilise the machines at its best; therefore optimising the machine's performance and increasing uptime.

At POWERPLUS, we strive to build and maintain long-term relationships with each and every client based on trust, integrity and professionalism.







