

 **LIUGONG**



MINING & QUARRY EXPERTISE

TOUGH WORLD. TOUGH EQUIPMENT.

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Material extraction is your world. Whether mining or quarrying, you know how hard it can be to make your business pay. Rising costs, increasing legislation and greater competition all combine to put the pressure on.



WE USE INSIGHT FROM 100s OF WORKSITES

We've listened to owners and to operators and we've analysed the data from thousands of working machines. We've taken this insight and put it into action with a range of tough equipment that is inspired by you.



THE PERFECT MATCH

From open cast mines to granite quarries of we know that delivering operational performance is all about the detail. Our expert team is focused on extracting every gram of performance from our machines.



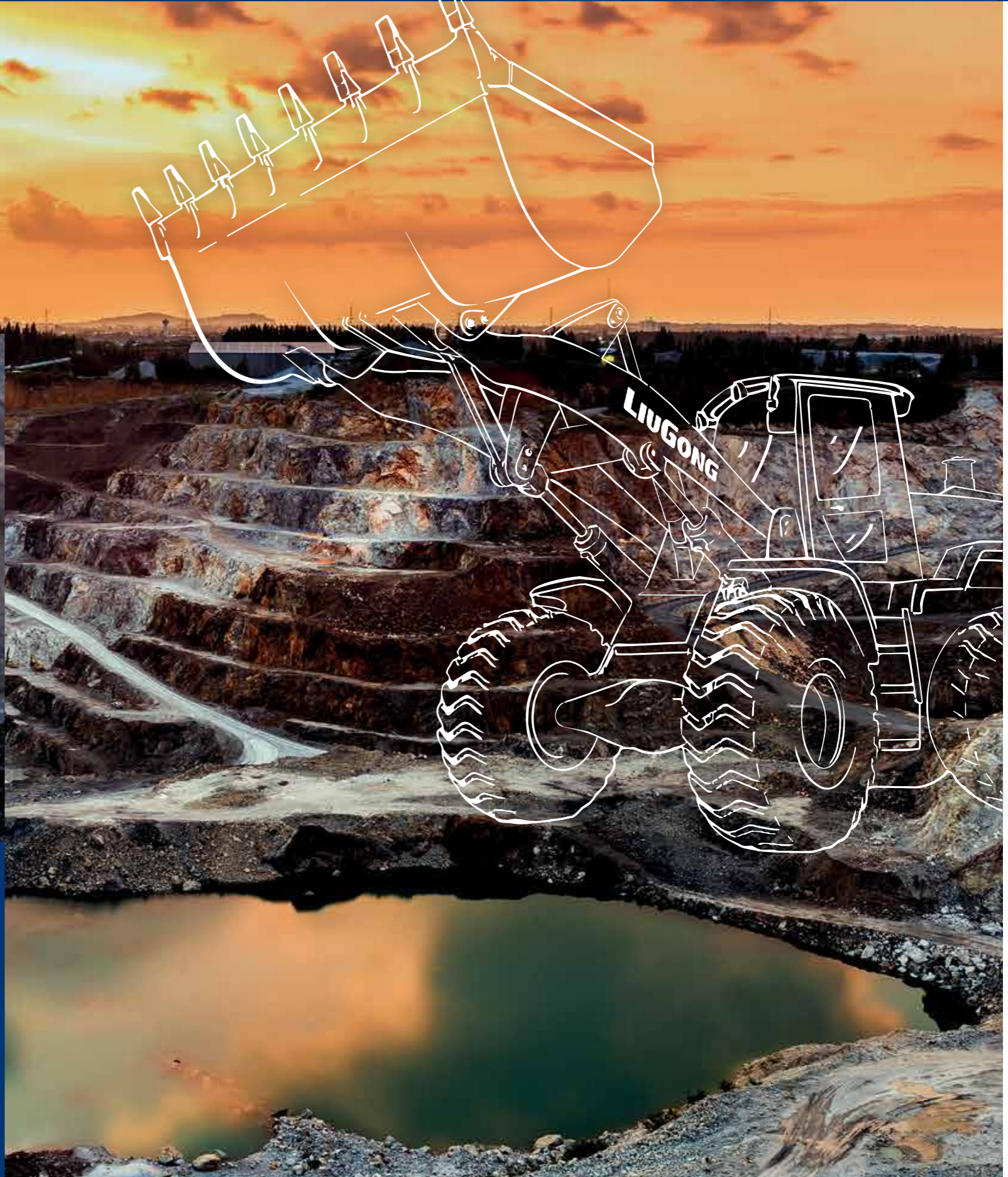
EVERY SECOND COUNTS.

A perfect match can save valuable seconds on a loading cycle, a small improvement that can lead to real profitability.



EXCELLING ON THE ESSENTIALS.

In site preparation, extraction, material handling and re-handling our machines work together to excel on **3 KEY ESSENTIALS...**



LOWEST COST PER TONNE



MAXIMUM OPERATIONAL UPTIME



1ST CLASS PARTS & SERVICE SUPPORT



YOUR JOB IS OUR JOB

From removing the overburden, to creating accesses roads. From extracting, refining and handling materials to reclaiming the site at the end of its life. Whatever the job, we have a team of machines that will work harder, for longer to get that job done. Our machines are perfectly matched to deliver the highest levels of operational performance.



OUR MACHINES AND OUR PEOPLE ARE CONSTANTLY WORKING HARD TOGETHER TO DELIVER ON THESE ESSENTIALS. EVERY CYCLE. EVERY SHIFT. EVERY DAY.

WITH YOU EVERY STEP OF THE WAY



YOUR WORLD IS OUR WORLD

WE HAVE THOUSANDS OF TOUGH
MACHINES ALL WORKING HARDER
AND EARNING FOR LONGER.



LET'S MEET THE TEAM!



SITE SELECTION

Mining or quarrying, whatever your extraction challenge, you need a team of machines that can work together with speed and efficiency. Our multifunctional machines will give you a life time of performance, from opening of the site right through to its final reclamation.



REMOVING OVERBURDEN

In any large-scale extraction project, fast and efficient site preparation is an essential job. The faster the overburden is removed, the faster you can start extracting materials and start earning.

TOUGH TEAM

Our team of 30 to 90 tonne excavators, our 17 to 70 tonne bulldozers and our Red Dot Award winning graders work together to get the job done right. One team with one aim, to get the site ready as fast as possible.

LET'S FOCUS ON OUR BULLDOZERS

In site preparation bulldozers have a key role. From 178hp up to 515hp, we offer a choice of tough, LiuGong and Dressta bulldozers designed to deliver the pushing power required to shift even the most challenging overburden.

Our machines have the raw power you need, but they also have the stability, control, and sensitivity professional operators desire.

MEET OUR BULLDOZER TEAM

LIUGONG BULLDOZERS

Models	B320
Operating Weight	34,000kg
Rated Power	257kW (345hp)
Blade Capacity	10.4m ³
Standard Blade	Straight Tilt

DRESSTA BULLDOZERS

Models	TD25M	TD40E
Operating Weight	41,250kg	67,700kg
Rated Power	246kW (330hp)	384kW (515hp)
Blade Capacity	5.7-21m ³	18.6-39.8m ³
Standard Blade	Straight Tilt	Straight Tilt



WE REMOVE OVERBURDEN FAST!



DRILLING & BLASTING

The drill and blast method is the most commonly used technique for excavation in surface mining and large-scale quarry applications. Once a blasting plan has been designed, its success relies on the speed and accuracy of the drilling rigs and their operators, employed to execute the plan. The profitability and success of the whole extraction project starts here, so the pressure is on to get it right first time.



DRILL IT RIGHT. FIRST TIME. EVERY TIME.

Trusted by mining and construction companies around the world for our accuracy and precision, we offer a range of mobile drilling rigs designed for high capacity rock drilling in quarries, open cast and underground mining and rock excavation projects.

HIGH PRECISION PERFORMANCE

Our range of mobile rigs have a small footprint and excellent mobility giving them the ability to serve multiple sites.

Our high-precision rigs use tried and tested components such as the Sullivan-Palatek air compressor and Yamamoto drifter.

They have safe and comfortable operator environments and have been designed to match power and precision with the highest levels of fuel economy.

MEET OUR DRILLING TEAM

Models	RD45A-CS	DH45A-H	DH47A-H
Hole range	76-127mm	90-115mm	115-185mm
Engine power	194kW	62.5kW	75kW
	Cummins	Yuchai	Yuchai
Drilling type	Top hammer	Down-the-hole	Down-the-hole
Compressor	Integrated	CS580A-17MD	CSH660A-20MDB

WORK WITH OUR AIR COMPRESSORS

Models	Sullivan-Palatek	CS580A-17MD	CSH660A-20MDB
Air Pressure	10.5 bar	17 bar	20 bar
Free Air Delivery	10.5 m³/min	16 m³/min	18 m³/min



TRUSTED PERFORMANCE



LOAD & CARRY

Drilling and blasting creates a vast shot pile of raw material which then needs to be processed in to a sellable commodity. Time wasted at this important stage can seriously effect the productivity and profitability of the mine or quarry. In some quarries, larger rocks may even require a secondary breaking process before they can be moved. Loading and carrying is a vital step in the extraction process and is both time and cost sensitive.

FAST, EFFICIENT TRUCKS

To achieve the lowest cost per tonne, you need machines that can move the maximum amount of material – fast.

LiuGong's range of Rigid-body mining trucks has built a strong reputation for delivering on this essential requirement. No two extraction environments are the same.

From scorching heat to arctic temperatures. From extreme uphill applications to long, flat haul profiles; downhill loaded hauls and high altitudes.

Whatever the environment our tough trucks excel in the most challenging conditions. They are fuel efficient and have the diagnostic intelligence to help the operator maintain the highest levels of uptime.

MEET OUR RIGID DUMP TRUCK TEAM

Models	DR50C	DR100C
Engine power	388kW (528hp) @ 2,100rpm	783kW (1,050hp) @ 2,100rpm
Max Payload	45,000kg	91,000kg
Heaped Capacity (2:1)(SAE)	29.8m ³	60m ³

MOVE MORE. FOR LESS

In extraction cost per tonne ranks high. Breaking, loading and carrying material quickly and efficiently is vital to the commercial success of the project. Our range of wheel loaders, excavators and mining

trucks have been designed to perfectly match each other to deliver the fastest cycle times. From rocks to minerals our machines move more material faster. They have the agility, the breakout force and power work and earn more.

VERSATILE EXCAVATORS

From secondary breaking to lifting and loading, our large tonnage excavators excel in the quarry and mining environments. They have the perfect combination of intelligent power, control and efficiency in handling heavy loads whilst providing a safe and comfortable working environment for the operator. With a wide range of hammers and attachments available, our excavators are the ultimate multi-tasking tool.

MEET OUR EXCAVATOR TEAM

Models	945E	950E	952E, hammer	970E	990F
Operating Weight	45,500-47,300kg	46,500-48,300kg	49,500-50,500kg	70,500-70,960kg	93,000kg
Engine Power	280kW (381hp) @ 2,000rpm	299kW (401hp) @ 2,100rpm	299kW (401hp) @ 2,100rpm	373kW (500hp) @ 1,800rpm	447.5kW (608hp) @ 1,800rpm
Bucket Capacity	2.2m ³	3.2m ³	3.2m ³	4.3m ³	5.6m ³

HEAVYWEIGHT LOADERS

When you want the ultimate in loading power, LiuGong delivers. From our 8128H, the mining industry's largest and most powerful loader, we offer a full range heavy duty, customizable loaders designed to make the toughest loading jobs easy. With a choice of buckets from 3.5 to 12m³ nothing loads material like a LiuGong. They love heavy work but are light on fuel consumption and on maintenance. They are fast, stable and a joy to operate. It's no surprise that we have delivered over 350,000 wheel loaders to our customers world-wide.

MEET OUR WHEEL LOADER TEAM

Models	877H	886H	890H	8128H
Bucket Capacity	3.5-7.0m ³	4.0-8.0m ³	4.5-9.0m ³	6.0-12.0m ³
Tipping Load @ Full Turn (ISO 14397-1:2007)	16,020kg	17,560kg	20,600kg	32,600kg
Gross Power	220kW (299hp) @ 1,600rpm	272kW (370hp) @ 1,800rpm	287kW (390hp) @ 1,800rpm	419kW (569hp) @ 1,600rpm



400,000+ DELIVERED



FASTER CYCLE TIME. EVERY TIME.



CRUSHING & SCREENING

The crushing and screening process turns the raw material into a sellable commodity. It's about breaking materials down and separating them by size or shape. In many mines and quarries, this is a mission critical stage in the extraction process. High performance and reliability are vital because the ultimate profitability of the site can depend on how quickly and efficiency the materials are processed.



WORLD-CLASS PARTNERSHIP

We offer a competitive range of mobile crushers and screens developed in partnership with Metso, a world leader in mining and construction technology services.

LOW COST. HIGH PERFORMANCE

Our our range of track mounted crushers are portable, easy to use and highly versatile. Energy efficient, they have extremely low running costs and are built to the highest quality standards, with durable wear parts for higher capacity and uptime.

BUILT TO LAST

Our mobile screens offer a cost-effective and flexible solution from smaller aggregate production sites to large quarries and major mining applications.

They are built to last with robust deckframe design and high quality, durable components.

MEET OUR CRUSHER TEAM

Models	LM J106	LM I1213	LM I1213S
Crusher	Nordberg® C106™	Nordberg® NP1213M™	Nordberg® NP1213M™
Feed Port	1,060x700mm	1,320x900mm	1,320x900mm
Engine	Cummins QSC8.3L	Cummins QSM11L	Cummins QSM11L
Weight	40,000kg	45,000kg	52,000kg

MEET OUR SCREEN TEAM

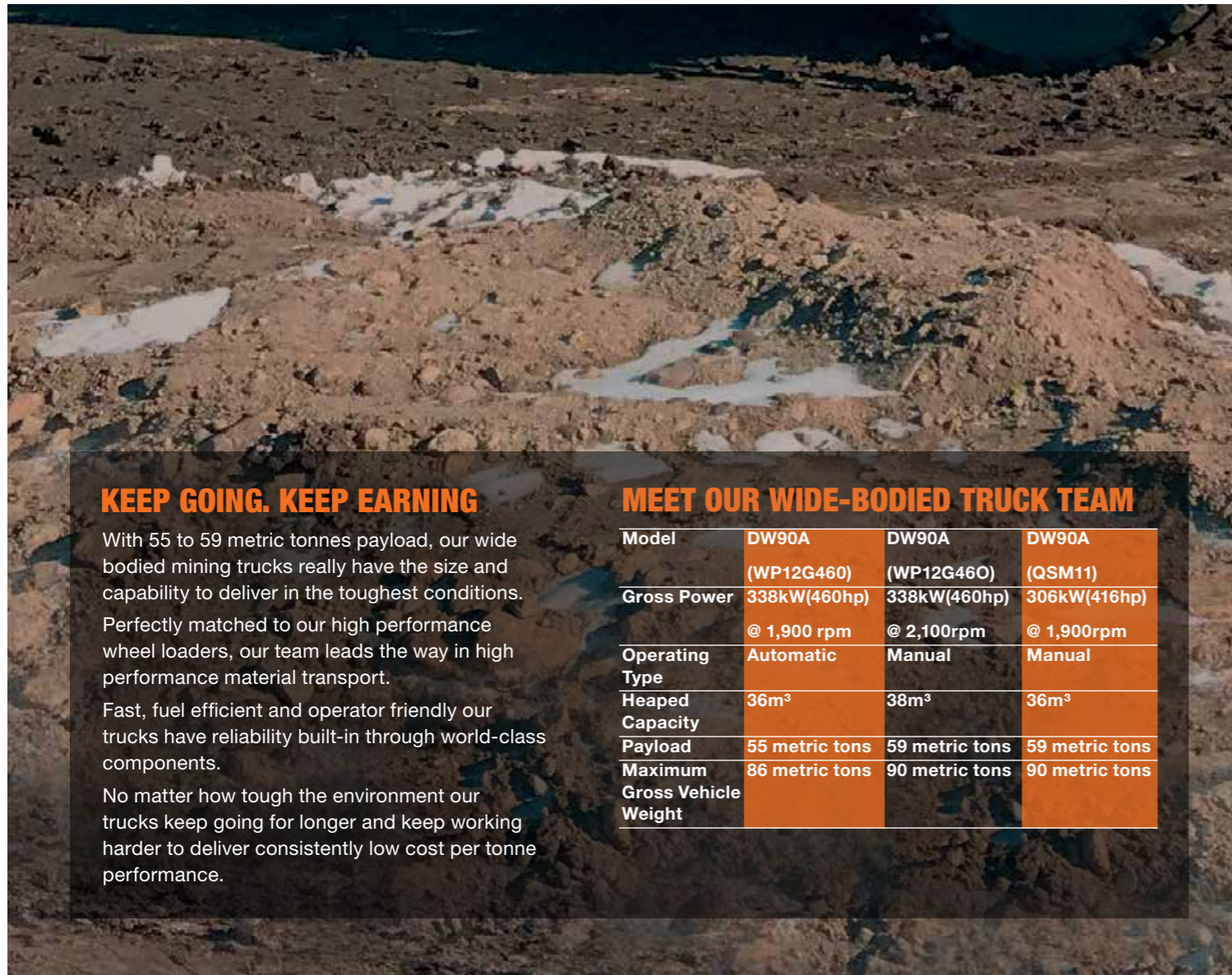
Models	LM S48
Screen Size	5,480x1,524mm
Number Of Decks	3
Engine	Cummins QSB 4.5L
Weight	32,000kg

WORLD-CLASS PARTNERSHIP



MATERIAL RE-HANDLING

Re-handling is focused on moving the maximum amount of material from its point of production, to its point of distribution at the lowest possible cost. This method of “off highway” transportation requires specialised trucks designed and engineered work in the toughest conditions.



KEEP GOING. KEEP EARNING

With 55 to 59 metric tonnes payload, our wide bodied mining trucks really have the size and capability to deliver in the toughest conditions.

Perfectly matched to our high performance wheel loaders, our team leads the way in high performance material transport.

Fast, fuel efficient and operator friendly our trucks have reliability built-in through world-class components.

No matter how tough the environment our trucks keep going for longer and keep working harder to deliver consistently low cost per tonne performance.

MEET OUR WIDE-BODIED TRUCK TEAM

Model	DW90A (WP12G460)	DW90A (WP12G460)	DW90A (QSM11)
Gross Power	338kW(460hp) @ 1,900 rpm	338kW(460hp) @ 2,100rpm	306kW(416hp) @ 1,900rpm
Operating Type	Automatic	Manual	Manual
Heaped Capacity	36m ³	38m ³	36m ³
Payload	55 metric tons	59 metric tons	59 metric tons
Maximum Gross Vehicle Weight	86 metric tons	90 metric tons	90 metric tons

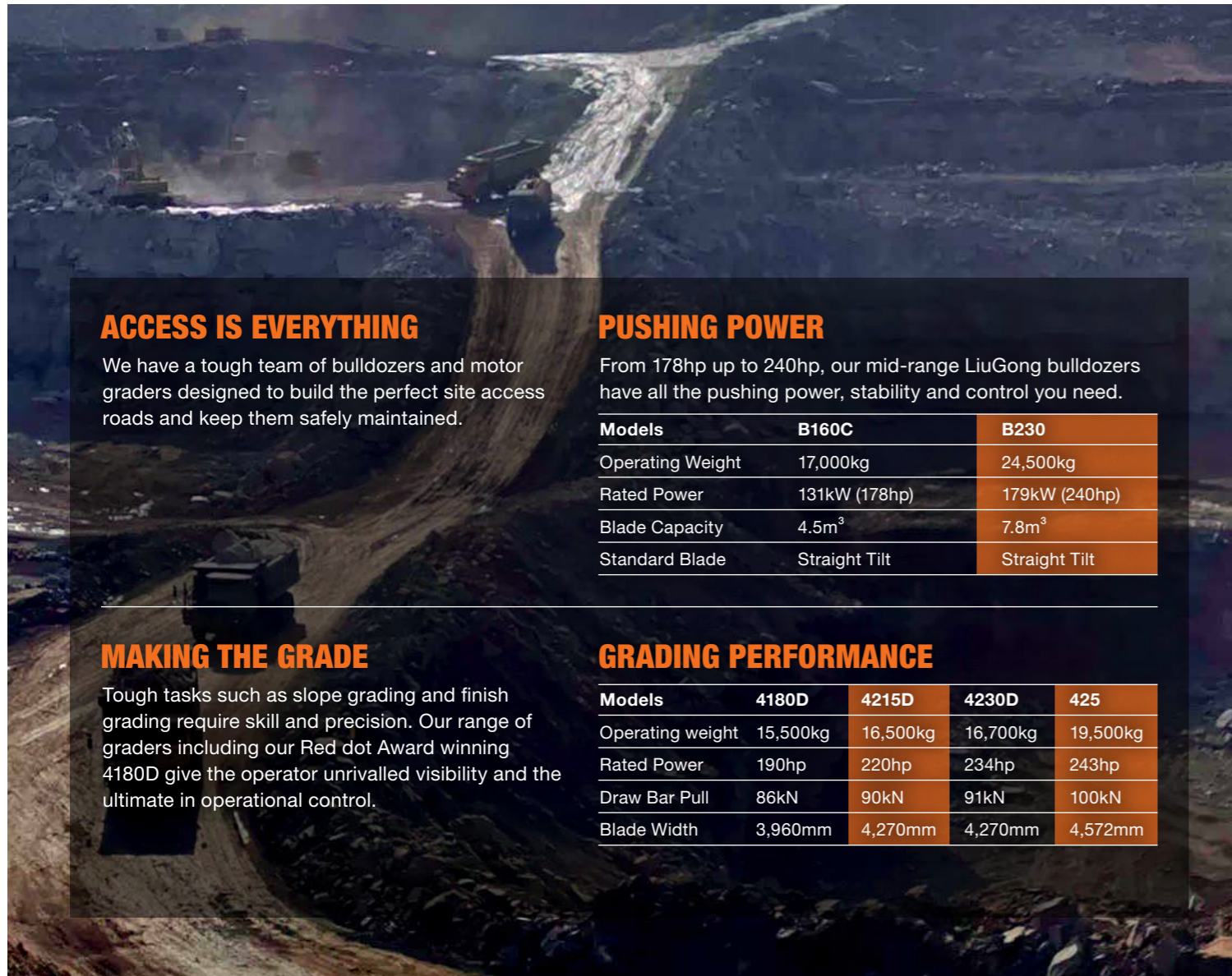


HEAVYWEIGHT CHAMPIONS



ROAD MAINTENANCE

Creating and maintaining safe access to the extraction site is a fundamental requirement. Roads need to be laid and maintained. Roadside safety banks and barriers also need to be constantly monitored and repaired to ensure the safety of machines and more importantly workers onsite. Well built and well maintained access routes reduce accidents and help to boost the productivity of the extraction site.



ACCESS IS EVERYTHING

We have a tough team of bulldozers and motor graders designed to build the perfect site access roads and keep them safely maintained.

PUSHING POWER

From 178hp up to 240hp, our mid-range LiuGong bulldozers have all the pushing power, stability and control you need.

Models	B160C	B230
Operating Weight	17,000kg	24,500kg
Rated Power	131kW (178hp)	179kW (240hp)
Blade Capacity	4.5m ³	7.8m ³
Standard Blade	Straight Tilt	Straight Tilt

MAKING THE GRADE

Tough tasks such as slope grading and finish grading require skill and precision. Our range of graders including our Red dot Award winning 4180D give the operator unrivalled visibility and the ultimate in operational control.

GRADING PERFORMANCE

Models	4180D	4215D	4230D	425
Operating weight	15,500kg	16,500kg	16,700kg	19,500kg
Rated Power	190hp	220hp	234hp	243hp
Draw Bar Pull	86kN	90kN	91kN	100kN
Blade Width	3,960mm	4,270mm	4,270mm	4,572mm

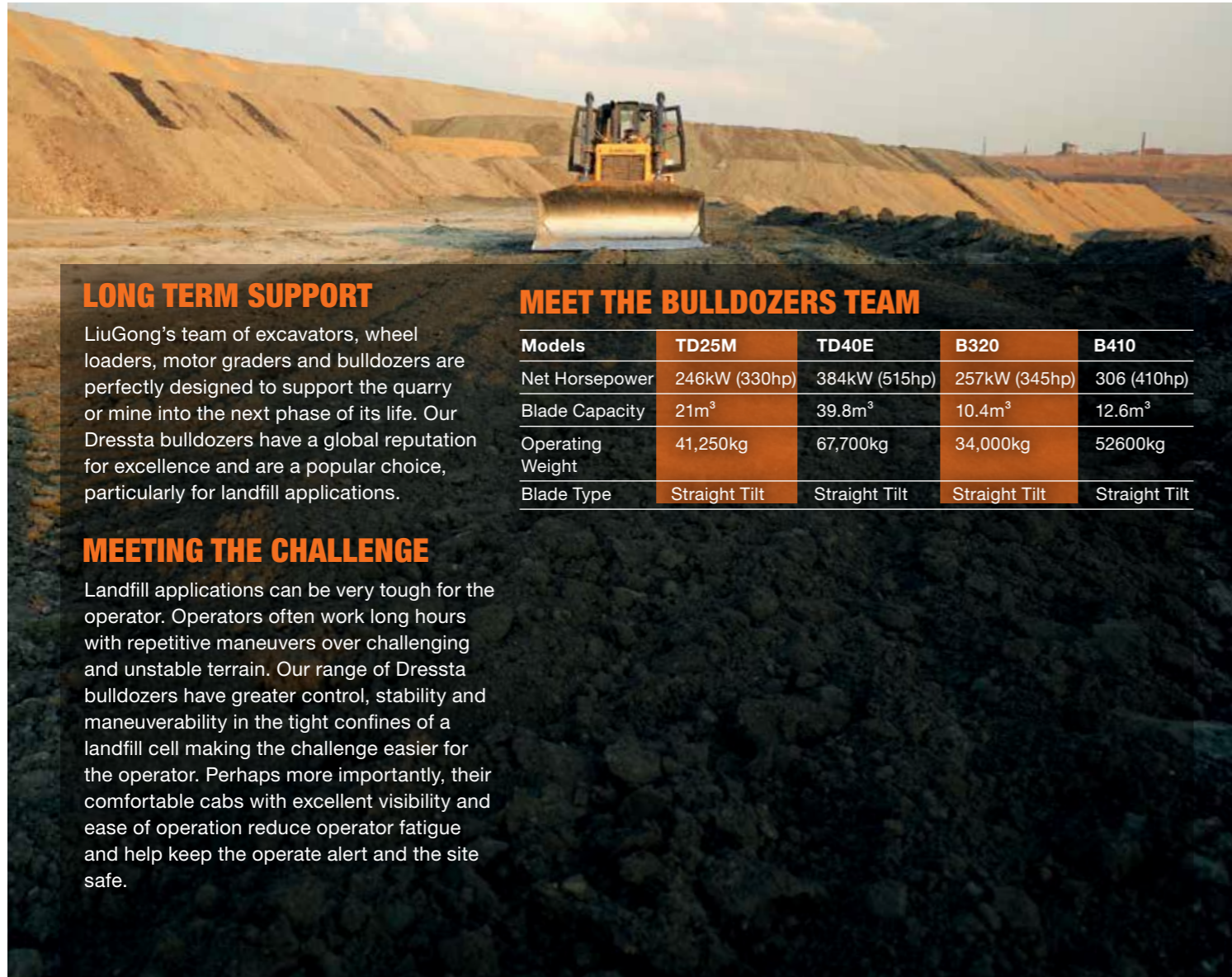


A WHOLE NEW LEVEL



SITE RECLAMATION

After a long and productive life, the site may continue to be used for waste management purposes such as landfill or be reclaimed so that it can be enjoyed by future generations. Site reclamation often involves filling in the site with materials and landscaping the surface area.



LONG TERM SUPPORT

LiuGong's team of excavators, wheel loaders, motor graders and bulldozers are perfectly designed to support the quarry or mine into the next phase of its life. Our Dressta bulldozers have a global reputation for excellence and are a popular choice, particularly for landfill applications.

MEET THE BULLDOZERS TEAM

Models	TD25M	TD40E	B320	B410
Net Horsepower	246kW (330hp)	384kW (515hp)	257kW (345hp)	306 (410hp)
Blade Capacity	21m ³	39.8m ³	10.4m ³	12.6m ³
Operating Weight	41,250kg	67,700kg	34,000kg	52600kg
Blade Type	Straight Tilt	Straight Tilt	Straight Tilt	Straight Tilt

MEETING THE CHALLENGE

Landfill applications can be very tough for the operator. Operators often work long hours with repetitive maneuvers over challenging and unstable terrain. Our range of Dressta bulldozers have greater control, stability and maneuverability in the tight confines of a landfill cell making the challenge easier for the operator. Perhaps more importantly, their comfortable cabs with excellent visibility and ease of operation reduce operator fatigue and help keep the operator alert and the site safe.



CARE AND RESPONSIBILITY



LIUGONG INTELLIGENCE SYSTEM

Whatever your application, you need to get the most out of your machines. LiuGong Equipment Intelligence System (LiuGong iLink) gives you the insight to boost productivity, reduce costs and make better business decisions.



INSIGHT SAVES MONEY

The system gives you real-time information on all of your machines. Our machine reports provide you with all the insight you need to really maximize your machine's performance. Idling time, gear changing, productive and non-productive machines hours plus positioning and geo-fencing combine to give you the real picture of your machine's day to day life and keep your assets safe.

BIG DATA

Our intelligence system takes the guesswork out of operating your machines ensuring that you get a proven return on your investment.

When it comes to Big Data, we've got it covered with a range of information services which give a total view of your machine.

FUNCTIONAL DATA

1	MAPPING & TRACKING	
	Machine positioning	✓
	Path tracking	✓
2	ASSETS	
	Geo-fence	✓
	Time-fence	✓
3	UTILIZATION REPORTS	
	Machine hours	✓
	Fuel consumption	✓
	Data sheet download	✓
4	SERVICE MANAGEMENT	
	Alarms history	✓
	Maintenance reminding	✓

BACKING YOU ALL THE WAY

MAINTENANCE AND SUPPORT PACKAGES

From genuine LiuGong parts, to full repair and maintenance contracts, LiuGong has the flexibility to offer the level of support and response to suit your business and applications. Whatever level of support you choose you can be confident that it is backed up by LiuGong's service promise.



"ONE-STOP" MAINTENANCE CONCEPT

COMMUNICATION IS KEY

We always aim to keep you informed on service and maintenance work and provide you with clear and accurate estimates, invoices and information in a timely manner. These may be small things, but your feedback tells us that these basics really matter – so we aim to get them right.

**Right parts.
Right price.
Right service.**



**Above all,
we get it right
the first time.**

1st

LIUGONG SERVICE PROMISE

Highly trained technicians utilizing the latest diagnostic equipment	15,000+ genuine LiuGong parts available within 24hrs from our European Parts Distribution Center	Multi-lingual service helpline and online support	Transparent estimates and invoicing	Clear communications through electronic parts catalogue

IT ALL ADDS UP

With our LiuGong and Dressta machines we've listened to operators and given you everything you need and nothing you don't. We've given you a choice of tough machines all backed up by our service promise.

When it comes to performance, we've got it covered, on the job site and on the balance sheet. Add up the benefits and you'll see that we give you the formula for success.



**LOWEST COST PER TONNE
+
MAXIMUM OPERATIONAL UPTIME
+
1ST CLASS PARTS & SERVICE SUPPORT**

CUSTOMER SATISFACTION

TRUST OUR EXPERTISE



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