



SANY

Quality Changes the World

HIGH PERFORMANCE INCLUDED

PRODUCTIVITY. SAFETY. COST EFFECTIVENESS.

CONSTRUCTION MACHINERY



CRAWLER EXCAVATOR **SY500H**

Engine
CUMMINS QSX12
Rated power
298 kW / 2100 rpm
Bucket capacity
2.2-3.5 m³
Operating weight
53300 kg

SANY

For challenging tasks, you need a first-class partner

Quality comes from experience. And from new ideas. This is why we combine these two crucial factors at SANY. This is because we are one of the world's leading producers, having sold more than **320 000** excavators in **10 years**. This means that you can always rely on sophisticated products that have been tried and tested in practice. An impressive **5-7%** of our annual turnover is dedicated to research and development.

320 000
EXCAVATORS SOLD IN
10 YEARS

5-7%
TURNOVER FOR RESEARCH
AND DEVELOPMENT

Quality Changes the World



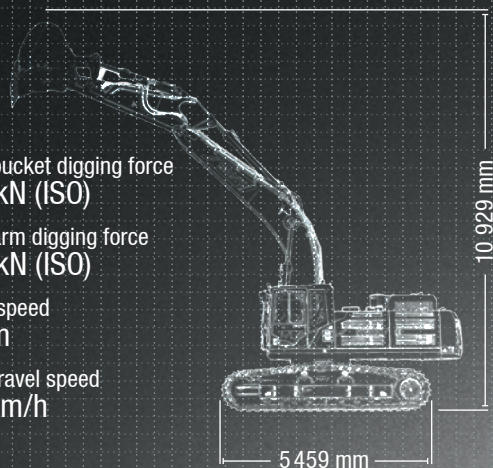
SY500H HARD FACTS

Max. bucket digging force
260 kN (ISO)

Max. arm digging force
230 kN (ISO)

Swingspeed
8 rpm

Max. travel speed
5.4 km/h





SY500H

GETS THE JOB DONE

The SANY SY500H was developed to complete large, challenging tasks quickly and reliably. Wherever a great deal of material must be moved in a short time period, it is the perfect choice. With its even balance of power and precision, it is just the right workhorse for cost-oriented use on the construction site. On every large construction site, it gives the guarantee that extensive earth moving projects can be carried out profitably within short time periods. It is optimally equipped for tough use in harsh environments – with a solid undercarriage, high stability across all components and a powerful transmission.

QUALITY

EXTREMELY TOUGH

Whether used for extraction in a stone or gravel quarry – these machines are in great demand wherever large amounts of material must be moved. As a robust power machine, the SY500H meets expectations with regards to quality and durability, for example, with its high-quality steel and precise and meticulously computer-controlled welded seams. Or with its safety valves, which are 100% reliable in the worst-case scenario.



Our highlights – the added benefits SANY offers you:

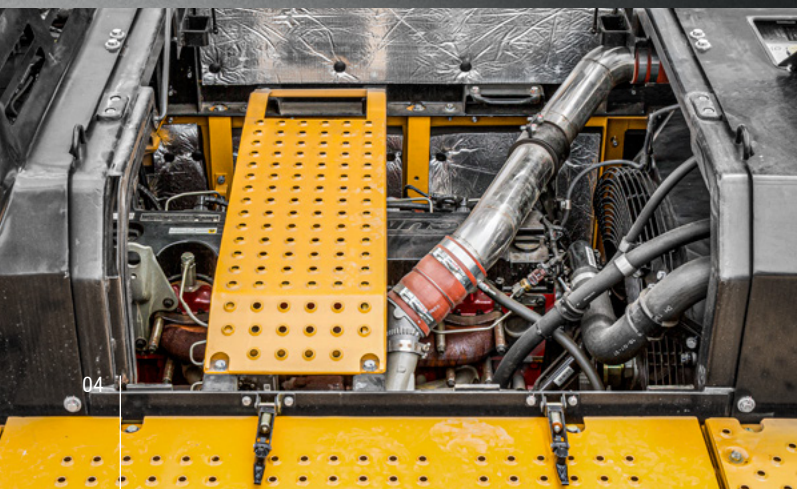
- + Comfortable driver's cab
- + Total safety package, including camera
- + Air-suspension driver's seat
- + Powerful, large-volume engine
- + Heating and automatic air conditioning system

* With participating partners

COMPONENTS

Maximum power, maximum productivity

The large-volume Cummings engine delivers the required power at all times. This also saves time and money on the construction site. And the perfect harmony of hydraulics, engine and equipment guarantees a high level of fuel efficiency and productivity.



QUALITY

For the toughest conditions – gets down to work and takes it all in its stride – from the bottom up, the SY500H is designed to deliver high performance, even in the toughest conditions. Made for the long term.

DIMENSIONS

Improved stability, increased transferable force

The SY500H features an extremely stable and robust frame. The large stand space provides the basis for the driver to work safely and precisely, even on uneven ground, and offers the best standing properties – meaning power can be used optimally.



USER EXPERIENCE

Productivity centre – power is nothing without control. This is why the spacious, comfortable driver's cab is designed so that all the controls are convenient to reach and the displays are easy to read.

ECONOMY

Always the right power – digging, loading, moving... Every task makes special demands of the machine. With the intelligent choice of working modes, the components of the SY500H can always be adjusted optimally with regards to fuel consumption and performance.

SAFETY

Totally safe – In addition to the extensively glazed driver's cab, the standard rear camera guarantees excellent visibility on all sides with no blind spots. The reinforced cab structure in accordance with ROPS/FOPS specifications ensures a safe work environment for the machine operator.

COMPONENTS

A true power package – with its almost 12-litre displacement, the Cummins engine is the foundation of high productivity. The high torque in the low engine speed range delivers superior performance whilst at the same time guaranteeing low fuel consumption.

DIMENSIONS

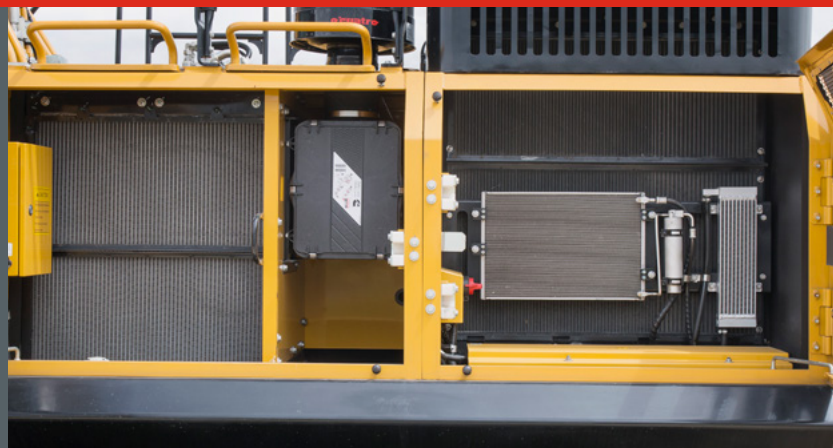
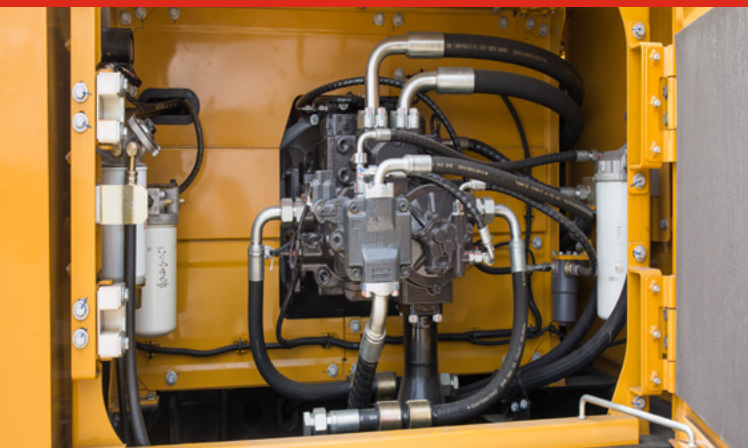
Stable basis – the robust undercarriage is designed down to the last detail to provide the highest levels of stability and reliability. Even under the toughest working conditions, the high-quality construction guarantees continuous operating hours and a long service life.

USER EXPERIENCE

ERGONOMIC CAB AS A PRODUCTION FACTOR

The driver's cab in the SY500H attracts special attention. It combines the safety and ergonomics factors, offering the driver the best conditions for relaxed and fatigue-free work. The focus here is on the comfortable, heated, air-suspension driver's seat with high backrest that provides lumbar support and the easily accessible controls.

The joystick control allows for precise work in any situation and the large, easy-to-read display shows all of the key parameters clearly at a glance. The powerful heating and the automatic air-conditioning system guarantee the ideal climate. Also provided on-board as standard: Radio and 12 V jack, plenty of stowage space and storage options.



USER EXPERIENCE

The large cover reveals everything you need

Service and maintenance are essential for maintaining performance and productivity. This doesn't mean, however, that these tasks must be time-consuming. The powerful engine of the SY500H is therefore easily accessible, positioned under the large engine bonnet on the superstructure. This means all engine parts required for service

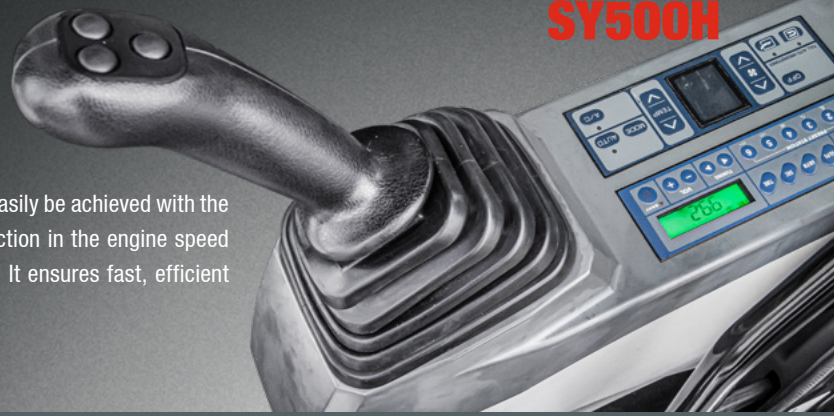
and maintenance can be accessed quickly and safely. All other components that must be regularly checked and serviced are easily accessible via large maintenance covers. This makes maintenance and service quick and easy, saves operating costs and increases machine availability.

SY500H

ECONOMY

Productivity at the touch of a button

An optimal balance between performance and fuel efficiency can easily be achieved with the preselectable work modes – for every task. This prevents a reduction in the engine speed and performance, as well as uneconomically high engine speeds. It ensures fast, efficient work. And protects the components, extending the service life.



ECONOMY

MOVING MORE

You can rely on the water-cooled six-cylinder engine with common rail injection in every respect. It scores highly with exemplary values not only when it comes to reliability and performance, but also when it comes to consumption. Lower fuel consumption thanks to the latest SCR emissions technology reduces not only ongoing operating costs but also emissions. The two variable displacement axial piston pumps also guarantee a maximum flow of 360 l twice per minute. The power of the hydraulic pump is thereby always automatically adjusted to the actual energy that is required.



TECHNICAL SPECIFICATIONS

ENGINE

Model	CUMMINS QSX12
Type	Water-cooled, 6 cylinder, with commonrail and Adblue
Exhaust emissions	Stage V
Rated power	298 kW / 2 100 rpm
Max. torque	2 034 Nm / 1 400 rpm
Displacement	11 800 ccm
Batteries	2 × 12 V / 200 Ah

HYDRAULIC SYSTEM

Main pump	2 x variable piston pump with electronic positive control
Max. oil flow	2 × 360 l/min
Travel motor	Variable displacement axial piston motor
Swing motor	Axial-piston motor

RELIEF VALVE SETTINGS

Implement circuit	350 bar
Power boost	370 bar
Swing circuit	270 bar
Travel circuit	350 bar
Pilot pressure	40 bar

SERVICE REFILL CAPACITIES

Fuel tank	680 l
Engine coolant	50 l
Engine oil	34 l
Drive (per side)	15 l
Adblue	46 l
Hydraulic oil tank	480 l

PERFORMANCE

Swingspeed	8 rpm
Max. travel speed	High 5.4 km/h, slow 3.1 km/h
Max. travel force	339 kN
Bucket capacity	2.2-3.5 m ³
Ground pressure	0.83 kg/cm ²
Gradeability	35°
Bucket digging force ISO	260 kN
Arm digging force ISO	230 kN

UNDER AND UPPER STRUCTURE

Boom length	7 000 mm
Arm length	3 350 mm
Bottom rollers	9
Top rollers	2
Rotation device	Planetary gear reducer driven by an axial piston motor, automatic hydraulic released slewing brake

OPERATING WEIGHT

SY500H 53300 kg



LIFTING CAPACITIES

Load point height	Radius						
	3.0m	4.5m	6.0m	7.0m	9m		
6.0m kg				11 055	11 055	10 587	8 042
4.5m kg		18 642	18 642	14 279	14 279	12 192	10 338
3.35m kg		23 570	19 988	16 675	16 435	13 511	9 852
1.5m kg		16 257	16 257	18 626	12 724	14 705	9 433
Ground kg		20 366	20 366	19 732	12 327	15 515	9 153
-1.5m kg	15 054	15 054	26 578	18 598	19 928	12 202	15 750
-3.0m kg	25 395	25 395	24 999	18 849	19 161	12 298	15 157
-4.5m kg	29 297	29 297	22 004	22 004	17 031	12 629	12 794

NOISE LEVELS

ISO 6395 (exterior)	104 dB(A)
ISO 6396 (interior)	72 dB(A)

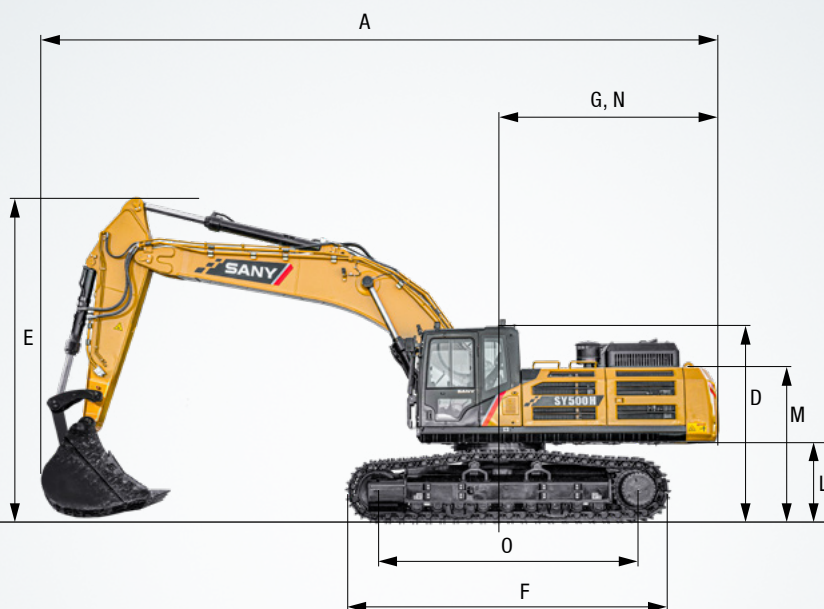
BUCKET CAPACITIES

Bucket type	Boom length		7.0m		
	Bucket	Counterweight	9.3T		
	m ³	Stick length	2.5m	3.0m	3.35m
Standard rock bucket	2.5			☉	
Heavy rock bucket	2.2			●	
	2.5				☉
Standard bucket for Soil	3.1		☐		☐
	3.5		☐		

Max material density: ● -2.2T/m³ ☉ -1.8T/m³ ☐ -1.6T/m³ ○ -1.3T/m³
 Max hardness of the material: ● -1 ~ 12 ☉ -5 ~ 8 ☐ -3 ~ 4 ○ -1 ~ 2

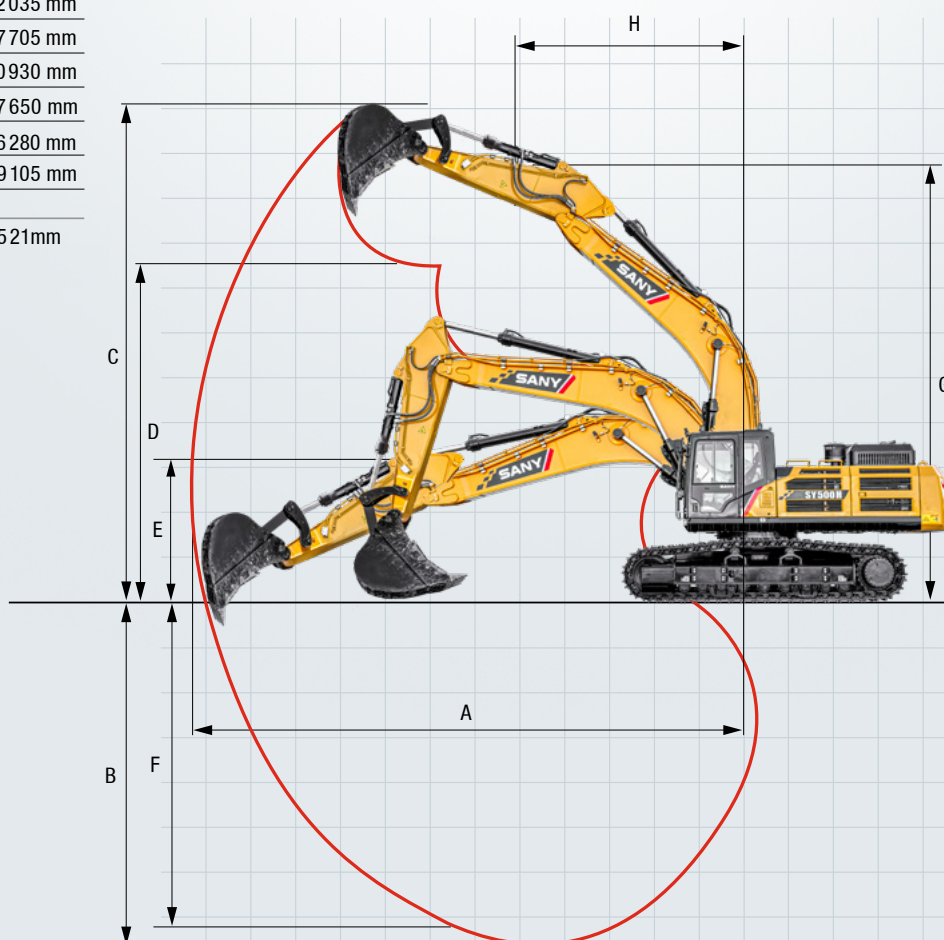
DIMENSIONS (TRANSPORT)

A	Transport length	12 100 mm
B	Transport width	3 600 mm
C	Upperstructure carriage	3 300 mm
D	Height over cabin/ROPS	3 480 mm
E	Height of Boom – transport	3 600 mm
F	Overall length of crawler	5 460 mm
G	Tail length	3 740 mm
H	Track gauge	2 740 mm
I	Track height	1 220 mm
J	Track pads width	600 mm
K	Min. ground clearance	560 mm
L	Counterweight clearance	1 355 mm
M	Engine cover height	3 160 mm
N	Tail swing radius	3 740 mm
O	Center distance of tumblers	4 410 mm



WORKING AREA

A	Max. digging reach	12 035 mm
B	Max. digging depth	7 705 mm
C	Max. digging height	10 930 mm
D	Max. dumping height	7 650 mm
F	Max. vertical digging depth	6 280 mm
G	Overall height over arm by min. swing radius	9 105 mm
H	Min. swing radius	5 210 mm



Complete powerhouse

The SY500H does not just impress with its performance. When it comes to equipment, this machine is in the top class. Everything you would expect from an excavator in the 50--tonne class is included on-board as standard.



OPERATORS COMFORT / CABIN

Heater	●
Automatic air conditioning C/H*	●
Radio and speaker	●
Armrests (adjustable)	●
Airsuspension seat	●
Heated seat	●
Wiper	●
Sprayer f. wiper	●
AUX 1 on Joystick	●
AUX 2 on Joystick	●
Removable front-window	●
Sky light openable	●
Integrated cooling box	●

WORKING EQUIPMENT

Boom and arm load holding valves with overload indicator	●
Double acting circuit for hydraulic quick coupler with piping	●
Hammer&Shear line proportional on Joystick with piping	●
Rotation line proportional on Joystick with piping	●
Flow adjustment for attachments	●

UNDERCARRIAGE

Steel tracks 600	●
Holes/loops for fixing	●

WORKING LIGHTS

Lights – front (LED)	●
Lights – boom (LED)	●
Lights – platform (LED)	●

ENGINE

Auto idle	●
Diesel filter	●
DOC+DPF+SCR	●

HYDRAULIC SYSTEM

Swing brake	●
2 speed travel	●
Piping for additional hydraulic function AUX 1	●
Piping for additional hydraulic function AUX 2	●
Hydr. Pre-pressure operating joysticks	●
Mainfilter	●

SAFETY

Battery master switch	●
Travel Alarm	●
Warning beacon	●
Rear Camera	●
Handrails	●
Lockable hoods	●
Lockable fuel cap	●

Standard equipment ● Special option ●

The standard and special options differ depending on the country in which the crawler excavator is delivered. If you have any questions, please contact your dealer directly.

* The air conditioner contains fluorinated greenhouse gases: Refrigerant type: HFC-134a, Global warming potential: 1 430, Quantity: 0,9 kg, CO₂e: 1,29 t

Parts supply – quick and reliable

With the purchase of a SANY crawler excavator you have made an investment in the future. Fast availability of spare parts is your guarantee of minimal downtimes and failure times.



A SERVICE YOU CAN RELY ON

Just as we do with our excavators, we also demand high quality and reliability of our service products. This underlines our equipment's performance in terms of their durability and their excellent price-performance ratio. After all, maintenance is crucial

for efficiency, cost-effectiveness and safety. Your SANY dealer is happy to help you with a comprehensive range of services to ensure that your machine continues operating efficiently in the long term.

SANY – flexible, fast and always there for you

Rapid assistance, tailored advice and a reliable supply of original parts – that is what we mean by a premium service.



The added benefits SANY offers you:

- + Experienced dealer network throughout England, Wales, Northern Ireland and Ireland
- + Direct sales and support route in Scotland
- + Dedicated SANY team based in the UK to support you and your product
- + UK office and parts warehouse to ensure SANY excavators are fully supported

* To locate your nearest dealer, visit <https://www.sanyuk.com>.

Detailed information in black and white

Handbooks and documents are available for all SANY crawler excavators, and these can help you with operation, maintenance, servicing and repairs. These include operating and maintenance instructions and technical specifications.



DELIVERS HIGH PERFORMANCE

Cost-effectiveness is an easy calculation – maximum productivity at minimal cost. In this way, the SY500H is a real maths genius. It impresses with its efficient operation, in other words, its high performance and low fuel consumption. Durability and low investment costs. Availability and fewer maintenance requirements.

FOR THE TOUGHEST CONDITIONS

The SY500H is built to deliver maximum performance reliably, even in difficult places. It does this boldly, thanks to its **robust construction** and **high-quality welded seams**. Also a sign of superior stability and durability: The **well thought-out hydraulic system**.

STABLE BASIS

Stability isn't everything. But without it, there can be nothing. Therefore, the undercarriage is built to be **particularly stable**.

PRODUCTIVITY CENTRE

For concentrated, low-fatigue work, the driver's cab is equipped to be particularly **spacious** and **comfortable**. Included here is exemplary **protection against sound and vibration**.

COMPREHENSIVE PROTECTION

Safety begins at the point of entry – with **stable hand rails** and **anti-slip tread surfaces**. Further features in the safety package: **Best visibility on all sides, camera and safety valves**.

A TRUE POWER PACKAGE

Efficient productivity in its greatest form – the **large-volume Cummins engine** leaves no doubt that even the largest tasks can be completed quickly and safely. Its proven **common rail technology** delivers an exemplary **high torque**, allowing for economical use of the fuel.

ALWAYS THE RIGHT POWER

Efficiency has many faces when it comes to the SY500H: A **high-performance engine**, which holds back impressively with regards to consumption. The intelligent **choice of working modes** for optimal engine power at all times. An **efficient, powerful hydraulic system**. This keeps operating costs to a minimum and contributes to the savings effect.

TECHNICAL HIGHLIGHTS

Engine	CUMMINS QSX12
Rated power	298 kW / 2 100 rpm
Max. torque	2 034 Nm / 1 400 rpm
Max. travel speed	5.4 km/h
Swingspeed	8 rpm
Mainpump	2 x variable-piston-pump with electronic positive control
Max. oilflow	2 x 360 l/min

Not all products are available in all markets. As part of our continuous improvement process, we reserve the right to modify specifications and designs without giving prior notice. The figures may contain additional options.

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SANY HEAVY MACHINERY (UK) LTD
info@sanyuk.com
www.sanyuk.com