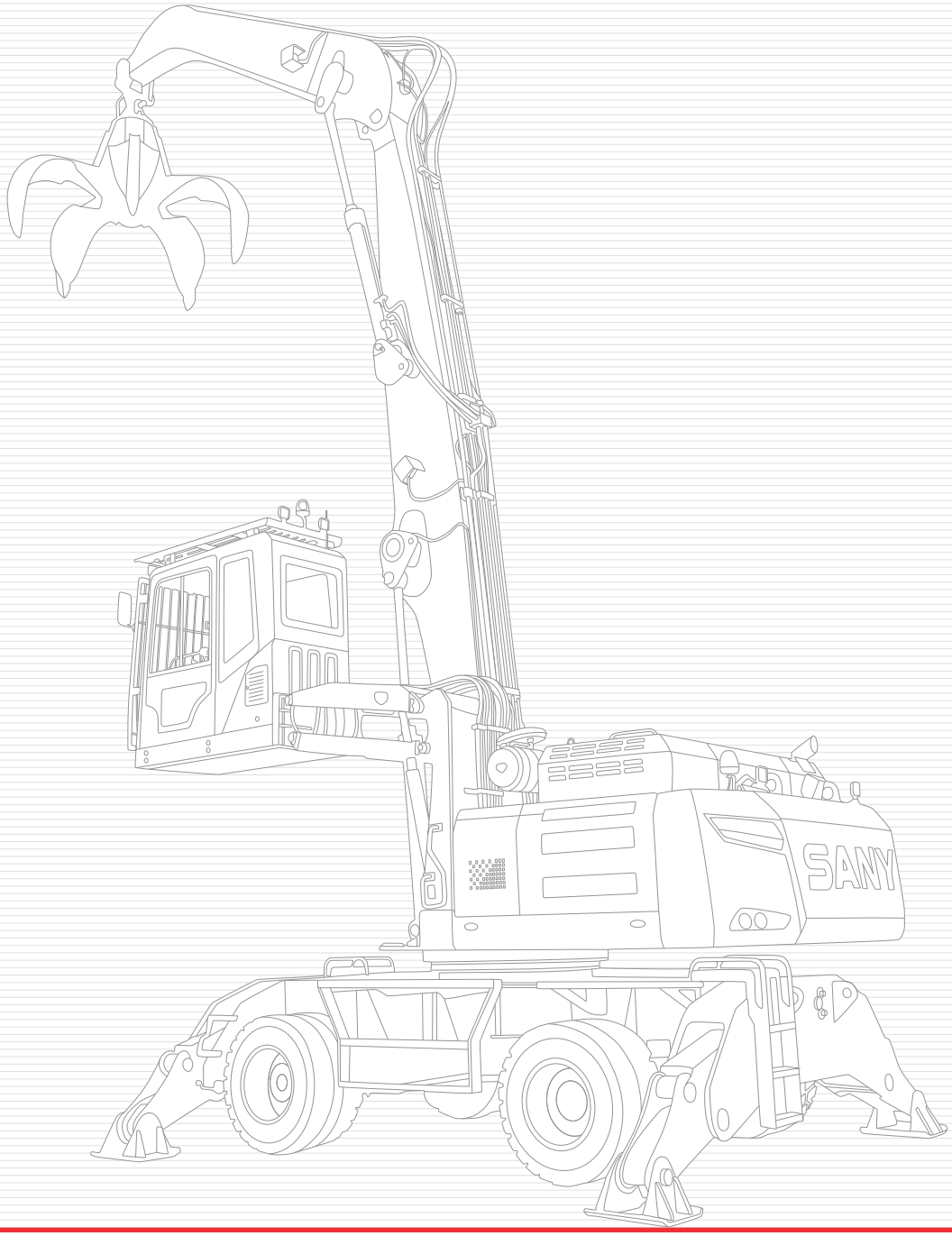
SANY®

MATERIAL HANDLING MACHINE



QUALITY CHANGES THE WORLD

Contents

MATERIAL HANDLING MACHINE

About SANY Marine

SANY Marine is one of the core business units of SANY Group, mainly engaged in container mobile equipment (reach stacker, empty container handler, electric terminal tractor), port equipment (quayside crane, yard crane, jib crane), logistics equipment (material handler, heavy-duty forklift, telehandler), bulk equipment (ship unloader, ship loader, stacker reclaimer), wind tower barrel and other products. We are committed to becoming a global port machinery leader and terminal automation solution provider.

Sany Marine adheres to the enterprise purpose of "to build a first-class enterprise, to foster first-class employees, and to make first-class contributions to society", and the principle of "All for customers, all from innovation" business philosophy, always puts independent innovation in the first position of enterprise development, relying on a strong international brand influence and with a global marketing service network, products are exported to more than 100 countries around the world.

Sany Marine Zhuhai Industrial Park is located in Zhuhai Special Economic District, with a total land area of 2 million m² and a coastline of 1.5 km. Intelligent as the core, the introduction of cutting, machining, welding, painting and assembly robots and other intelligent equipment create an intelligent manufacturing lighthouse factory which leads the industry with the annual planned output value of 30 billion yuan.

Sany Marine has always adhered to the spirit of "quality to change the world" and continues to forge ahead in the field of port and logistics equipment.

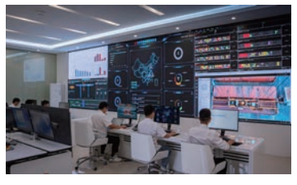
QUALITY CHANGES THE WORLD

Production R&D System

Sany Marine R&D Building

Manufacture Technology

Advanced manufacturing technology is a reliable guarantee for creating excellent products. Sany Marine's 1# & 3# factories are small port machinery intelligent manufacturing factories, covering an area of 70,000 m2, with 43 production robots and a welding automation rate of 80%. Factory 2#, 6#, 7#, and 8# are for large port machinery, covering 250,000 m2 and equipped with 35 production robots to realize the automation of blanking, picking, machining, rivetingand welding. The large port machinery assembly site covers 250,000 m2. The largest 500T+900T jib cranes in the industry support the overall assembly of large port machinery.



Testing System

A complete R&D test system is the strong backing for excellent performance. Sany Marine has an R&D team of more than 500 people. It has established professional technical committees in machinery, electronic control, hydraulics, testing, etc., and has built multiple laboratories and test sites for simulation operation and maintenance, electrical and automation, and automated storage yards. More than 5% of revenue every year is spent on R&D, and key components must undergo more than 300,000 times fatigue tests.

Environmental Protection

Equipped with an eco-friendly engine that complies with the latest National IV standards and uses environmentally friendly paint to effectively reduce pollution. A full range of new energy products have achieved large-scale mass production and delivery.

Reliable Service

Reliable Service

Serivce Concept

reply in 15 minutes
arrive in 2 hours
general fault solved in 1 day
customer complaints resolved in 2 days
general remaining problem solved in 7 days

Service Team

400 service engineers
60% obtained advanced skill level or above
300+ service vehicles
365 days*24h service

Service Outlets

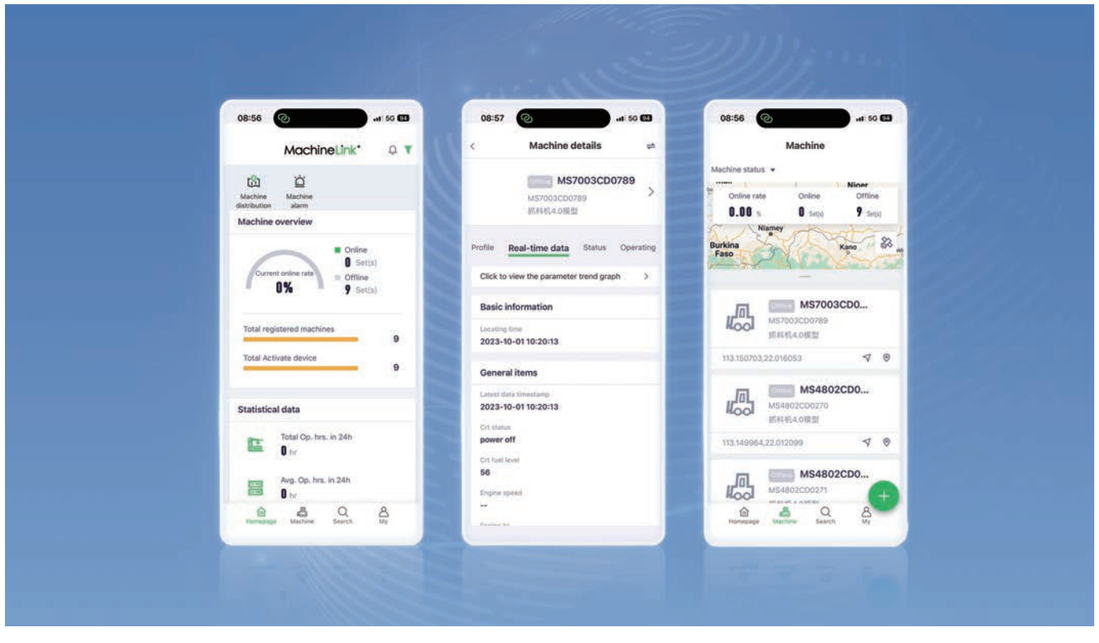
overseas office abound globally
35 domestic service outlets
service engineer standby in major cities

Accessory Storage

The four-in-one parts supply guarantee system of headquarters warehouse, regional central warehouse, provincial warehouse and municipal warehouse stores more than 100,000 kinds of spare parts

Customer APP

"Sany Customer APP" allows customers to monitor the operating status and reports of equipment in real time anywhere in the world, and provides value-added services such as online consultation, community communication, parts mall, one-click repair report, scheduled maintenance, and product knowledge learning.



Material handler is a kind of multi-purpose and efficient material handling equipment, which is widely used in major ports, railways and various places for loading, unloading and stacking of scrap steel and bulk cargo.

Sany independently researched and developed material handler has a number of international leading core technologies, including energy-saving control technology, hydraulic linkage technology, anti-overturning protection technology, automatic fault detection and real-time data display technology, with excellent overall performance, product safety, reliability and energy saving and high efficiency, can fully meet the needs of customers.

Wheel Type

SMHW30

SMHW48V

SMHW80

The models of Sany material handler expand from35tons, 40tons to70~160tons, tire and crawler chassis full coverage, o provide a new solutions for steel mills, ports, terminals, renewable resources and other customers.

MATERIAL HANDLING MACHINE

Crawler-Type

SMHC35

SMHC45V

SMHC50V-D(electric traction)

SMHC70

SMHW30

SANY Material Handling Machine

30-series material handlers are mainly suitable for all kinds of bulk material handling the machine is light and flexible with stable performance and high work efficiency.

1 Hydraulic system
Independent researched and developed electronically controlled positive flow hydraulic system, fuel consumption is 10% lower than that of previous ones.

2 Power system
engine and hydraulic pump curves perfectly match, system simulation reduces fuel consumption in the working area.

3 Control program
engine automatic idle, multi-speed adjustable, throttling loss reduced by 60%.

4 Larger grab weight
a single grab capacity up to 4tons, according to different cargo, the efficiency reaches 100 ~ 200 tons/hour.

5 Faster response
the response time of each action is as low as 300ms.

6 Tire chassis
Travel speed 20km/h, easy to move.

Product Parameters

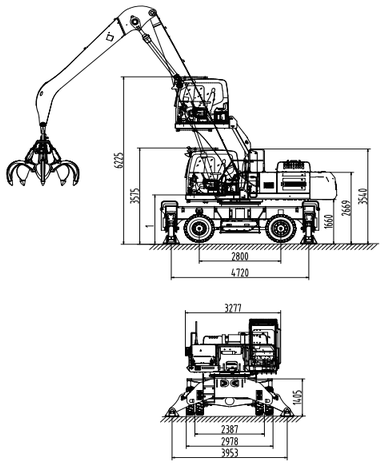
Technical Parameter

ITEM			UNIT	SMHW30
Power System	Engine	Model	-	Mitsubishi D06FRC
		Rated power	kW/rpm	147/2100
		Torque	Nm/rpm	750/1350
		Emission	-	com III
		Oil Tank Capacity	L	465
Chassis	Track Width		mm	2387
	Wheel Base		mm	2800
	Support width (lengthways)		mm	4750
	Support width (crosswise)		mm	4140
	Turning Radius		mm	8000
	Max. Travelling Speed		km/h	20
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System
	Main Pump	Model	-	Rexroth
		Rated Flow	L/min	2×260
	Main Valve		-	Kawasaki
	Reducer		-	Sany
	Boom Cylinder		-	Sany

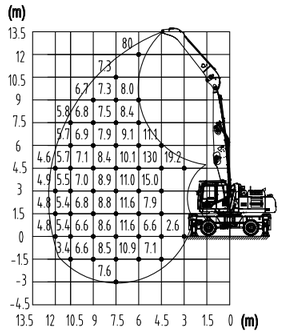
Configuration Parameter

CONFIGURATION		UNIT	SMHW30	
Hydraulic System	Stick Cylinder	-	Sany	
	Max. System Pressure	MPa	34.5	
	Hydraulic Oil Tank	L	230	
Slewing Gear	Slewing Bearing	-	Sany	
	Max. Rotating Speed	rpm	8	
Cabin	Cabin Lift Height	mm	2650	
Basic Parameters	Boom Configuration	m	12	14
		m	Boom 7.3	Boom 8.6
		m	Stick 5.1	Stick 5.6
	Max. Operating Radius	m	10.5	13.5
	Max. Operating Height	m	12	13.5
	Max. Operating Depth	m	-3	-3
	Max. Operating Radius (Grab Not Included)	t	4.6	3.4

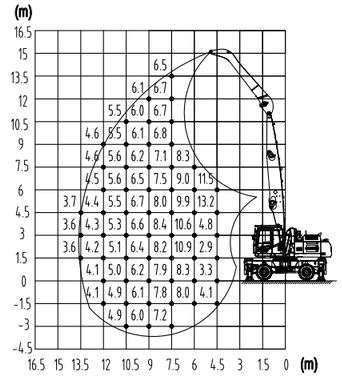
Dimensions



SMHW30 Lift capacities of material handler
(Boom 7.3m, Stick 5.1m, Unit:t)



SMHW30 Lift capacities of material handler
(Boom 8.6m, Stick 5.6m, Unit:t)



SMHC35

SANY Material Handling Machine

35-series material handlers are mainly used in steel mills for scrap and bulk cargo loading, unloading and stacking operations, can offer high efficiency, with excellent machine performance, safety and reliability.

1 Hydraulic system
Independent researched and developed electronically controlled positive flow hydraulic system, fuel consumption is 10% lower than that of last year.

2 Power system
engine and hydraulic pump curves perfectly match, system simulation reduces fuel consumption in the working area.

3 Control program
engine automatic idle, multi-speed adjustable, throttling loss reduced by 60%.

4 Larger grab weight
a single grab capacity is up to 4 tons, according to different cargo, the efficiency reaches 100 ~ 200 tons/hour.

5 Faster response
the response time of each action is as low as 300ms.

6 Track chassis
steady and efficient.

Product Parameters

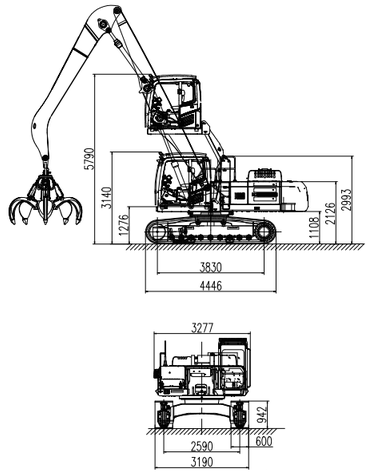
Technical Parameter

ITEM			UNIT	SMHC35
Power System	Engine	Model	-	Mitsubishi D06FRC
		Rated power	kW/rpm	147/2100
		Torque	Nm/rpm	750/1350
		Emission	-	com III
		Oil Tank Capacity	L	465
Traveling Gear	Track width		mm	2590
	Wheel Base		mm	3830
	Track Width		mm	600
	Max. Travelling Speed		km/h	5
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System
	Main Pump	Model	-	Rexroth
		Rated Flow	L/min	2×260
	Main Valve		-	Kawasaki
	Reducer		-	Sany
	Boom Cylinder		-	Sany

Configuration Parameter

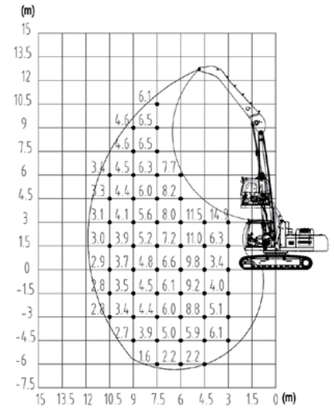
CONFIGURATION		UNIT	SMHC35
Hydraulic System	Stick Cylinder	-	Sany
	Max. System Pressure	MPa	34.5
	Hydraulic Oil Tank	L	230
Slewing Gear	Slewing Bearing	-	Sany
	Max. Rotating Speed	rpm	8
Cabin	Cabin Lift Height	mm	2650
Basic Parameters	Boom Configuration	m	12
		m	Boom 6.8
		m	Stick 5.6
	Max. Operating Radius	m	10.5
	Max. Operating Height	m	10.5
	Max. Operating Depth	m	-6
	Max. Operating Radius (Grab Not Included)	t	3..4

Dimensions



Scope Of Work

SMHC35 Lift capacities of material handler
(Boom 6.8m, Stick 5.6m, Unit:t)



SMHC45V

SANY Material Handling Machine

45V material handlers are widely used for hadling loading and unloading operations of scrap steels and bulk cargo, the machine is light and flexible with stable performance and high work efficiency.

1 **Hydraulic system**
Independent researched and developed electronically controlled positive flow hydraulic system, fuel consumption is 10% lower than that of last year.

2 **Power system**
engine and hydraulic pump curves perfectly match, system simulation reduces fuel consumption in the working area.

3 **Control program**
engine automatic idle, multi-speed adjustable; The throttling loss in linkage condition is reduced by 60%.

4 **Larger grab weight**
a single grab capacity is up to 4tons, according to different cargo, the efficiency is 120 ~ 260 tons/hour.

5 **Faster response**
the response time of each action is as low as 300ms

6 **Track chassis**
stable and efficient.

Product Parameters

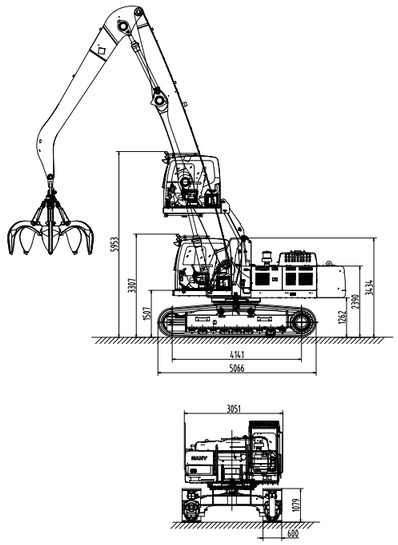
Technical Parameter

ITEM			UNIT	SMHC45V
Power System	Engine	Model	-	Isuzu 6HK1
		Rated power	kW/rpm	212/2000
		Torque	Nm/rpm	1080/1500
		Emission	-	com III
		Oil Tank Capacity	L	600
Traveling Gear	Working Gauge		mm	2590
	Wheel Base		mm	4140
	Track Width		mm	600
	Max. Travelling Speed		km/h	5
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System
	Main Pump	Model	-	Kawasaki
		Rated Flow	L/min	2×320
	Main Valve		-	Kawasaki
	Rotary Motor		-	Sany
	Max. System Pressure		MPa	32
	Hydraulic Oil Tank		L	310

Configuration Parameter

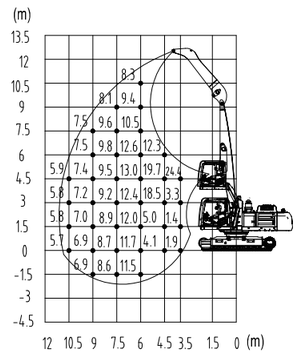
CONFIGURATION		UNIT	SMHC45V	
Slewing Gear	Slewing Bearing	-	Sany	
	Max. Rotating Speed	rpm	8	
Cabin	Cabin Lift Height	mm	2650	
Basic Parameters	Boom Configuration	m	11	14
		m	Boom 7	Boom 8.6
		m	Stick 4.5	Stick 6
	Max. Operating Radius	m	10.5	13.5
	Max. Operating Height	m	12	15
	Max. Operating Depth	m	-1.5	-3
	Max. Operating Radius (Grab Not Included)	t	5.9	4.1

Dimensions

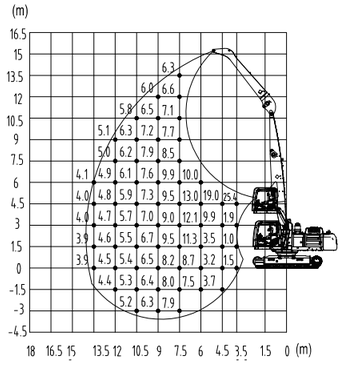


Scope Of Work

SMHC45V Lift capacities of material handler
(Boom 7m, Stick 4.5m, Unit:t)



SMHC45V Lift capacities of material handler
(Boom 8.6m, Stick 6m, Unit:t)



SMHW48V

SANY Material Handling Machine

48V series is widely used in railway, inland wharf for bulk material loading and unloading, a variety of boom combination for railway bulk material, steel mills, inland wharf, general cargo and other working conditions, can offer wide range of operation and high efficiency.

1 **Larger grab weight**
a single grab capacity can reach 4 tons, according to different cargo, the efficiency is 150 ~ 520 tons/hour.

2 **Faster response**
the response time of each action is as low as 300ms

3 **Tire chassis**
Travel speed 20km/h, easy to move.

Product Parameters

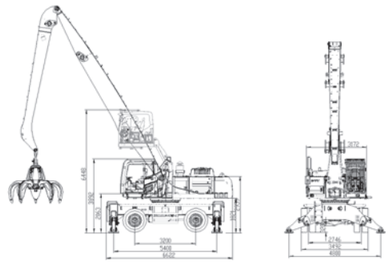
Technical Parameter

ITEM			UNIT	SMHW48V
Power System	Engine	Model	-	Isuzu 6HK1
		Rated power	kW/rpm	212/2000
		Torque	Nm/rpm	1080/1500
		Emission	-	com III
		Oil Tank Capacity	L	600
Chassis	Track Width		mm	2746
	Wheel Base		mm	3200
	Support width(lengthways)		mm	5400
	Support width(crosswise)		mm	4800
	Turning Radius		mm	8800
	Max. Travelling Speed		km/h	20
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System
	Main Pump	Model	-	Rexroth
		Rated Flow	L/min	2×260
	Main Valve		-	Kawasaki
	Reducer		-	Sany
	Boom Cylinder		-	Sany

Configuration Parameter

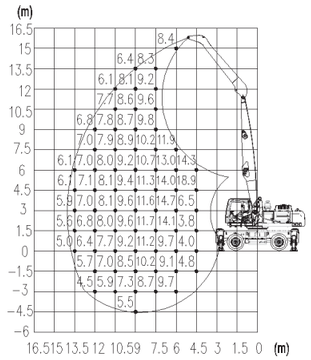
CONFIGURATION		UNIT	SMHW48V	
Hydraulic System	Stick Cylinder	-	Sany	
	Max. System Pressure	MPa	32	
	Hydraulic Oil Tank	L	310	
Slewing Gear	Slewing Bearing	-	Sany	
	Max. Rotating Speed	rpm	8	
Cabin	Cabin Lift Height	mm	2650	
Basic Parameters	Boom Configuration	m	14	18
		m	Boom 8.6	Boom 10.5
		m	Stick 6	Stick 7.5
	Max. Operating Radius	m	13.5	16.5
	Max. Operating Height	m	15	16.5
	Max. Operating Depth	m	-4.5	-4.5
	Max. Operating Radius (Grab Not Included)	t	6.1	5.1

Dimensions

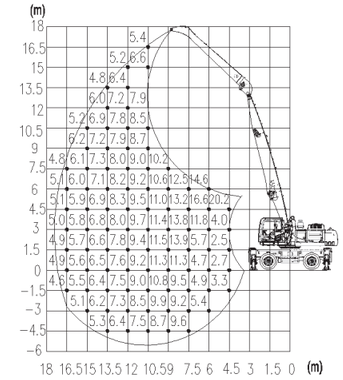


Scope Of Work

SMHW48V Lift capacities of material handler
(Boom 8.6m, Stick 6m, Unit:t)



SMHW48V Lift capacities of material handler
(Boom 10.5m, Stick 7.5m, Unit:t)



SMHC50V-D

SANY Material Handling Machine

50V-D series is fully electric, equipped with different grabs for the loading and unloading of bulk cargo and steel scrap at inland ports. The whole machine is driven by electric motor, zero emission, green and eco-friendly, compared with the conventional internal combustion engine, the power cost is 50% decreased.

1 **Cost saving**
electric drive, high efficiency and energy saving, saving more than 65% per hour compared to fuel vehicles.

2 **Faster response:**
the response time of each action is as low as 300ms.

3 **Track chassis:**
Travel speed is 5km/h, easy to move.

Product Parameters

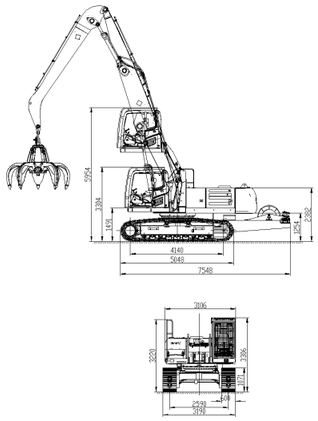
Technical Parameter

ITEM			UNIT	SMHC50V-D
Power System	E-Motor	Model	-	XEMC
		Rated Capacity	kW/rpm	160/1480
		Input voltage	V/Hz	380/50
		Type Of Start	-	Soft Start
Traveling Gear	Working Gauge		mm	2590
	Wheel Base		mm	4140
	Track Width		mm	600
	Max. Travelling Speed		km/h	5
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System
	Main Pump	Model	-	Kawasaki
		Rated Flow	L/min	2×297
	Main Valve		-	Kawasaki
	Reducer		-	Sany
	Max. System pressure		MPa	32
	Hydraulic Oil Tank		L	310

Configuration Parameter

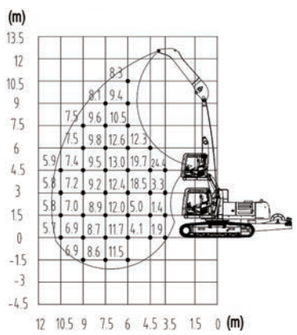
CONFIGURATION		UNIT	SMHC50V-D	
Slewing Gear	Slewing Bearing	-	Sany	
	Max. Rotating Speed	rpm	8	
Cabin	Cabin Lift Height	mm	2650	
Basic Parameters	Boom Configuration	m	11	14
		m	Boom 7	Boom 8.6
		m	Stick 4.5	Stick 6
	Max. Operating Radius	m	10.5	13.5
	Max. Operating Height	m	12	15
	Max. Operating Depth	m	-1.5	-3
	Max. Operating Radius (Grab Not Included)	t	5.9	4.1

Dimensions

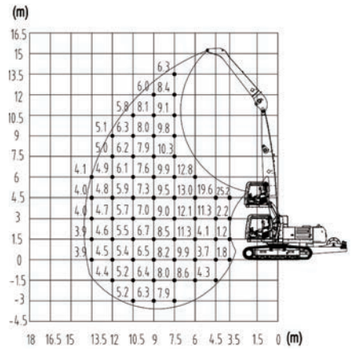


Scope Of Work

SMHC50V-D Lift capacities of material handler
(Boom 7m, Stick 4.5m, Unit:t)



SMHC50V-D Lift capacities of material handler
(Boom 8.6m, Stick 6m, Unit:t)



SMHC70

SANY Material Handling Machine

SMHC70 is a dual powered, mainly used in bulk material handling operations in inland ports, equipped with a large bucket shell grabber, a variety of boom options, a wide loading and unloading range, and is highly efficient.

1 High load
a single cycle of only costs 30 seconds, a single grab capacity reaches 6 tons, the average efficiency is twice higher than a 16-ton portal crane, easily covers 5000 tons of ship operations.

2 Light self weight:
little pressure on the dock, no need to lay track.

3 Excellent process:
bulk materials are unloaded and loaded directly, without the aid of funnel or loader.

4 More flexible:
Grab clearance is more convenient.

Product Parameters

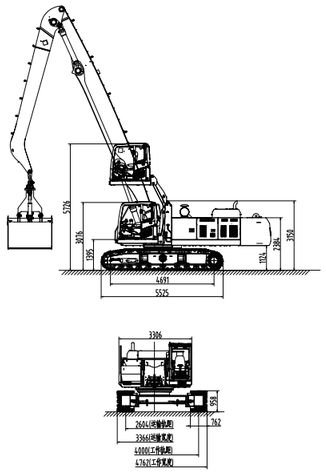
Technical Parameter

ITEM			UNIT	SMHC70
Power System	Engine	Model	-	DCEC QSL8.9
		Rated power	kw/rpm	264/2100
		Torque	Nm/rpm	1900/1500
		Emission	min	com III
		Oil Tank Capacity	L	600
	E-Motor	Model	-	XEMC YE3-355M-4
		Rated Capacity	kW/rpm	250/1486
		Input voltage	V/Hz	380/ 50
		Type Of Start	-	Soft Start
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System
	Main Pump	Model	-	Engine connection pump: kawasaki E-motor connection pump: kawasaki
		Rated Flow	L/min	While Using Engine: 2×400 While Using E-Motor: 2×416
	Main Valve		-	Hengli
	Reducer		-	Sany
	Boom Cylinder		-	Sany
	Stick Cylinder		-	Sany
	Max. System Pressure		MPa	34.3
	Hydraulic Oil Tank		L	500

Configuration Parameter

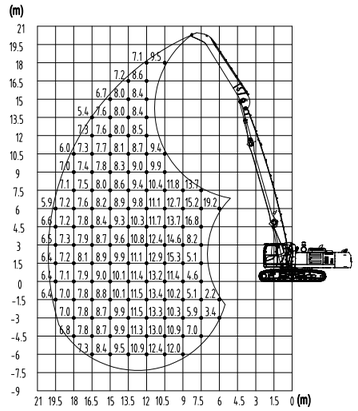
CONFIGURATION		UNIT	SMHC70		
Traveling Gear	Working Gauge	mm	4000		
	Wheel Base	mm	4691		
	Track Width	mm	762		
	Max. Travelling Speed	km/h	3		
Slewing Gear	Slewing Bearing	-	Sany		
	Max. Rotating Speed	rpm	8		
Cabin	Cabin Lift Height	mm	2650		
Basic Parameters	Boom Configuration	m	18	20	22
		m	Boom 10.5	Boom 12.5	Boom 12.5
		m	Stick 7.5	Stick 7.5	Stick 10
	Max. Operating Radius	m	18	19.5	21
	Max. Operating Height	m	16.5	18	19.5
	Max. Operating Depth	m	-6	-6	-9
	Max. Operating Radius (Grab Not Included)	t	5.6	6.1	5.8

Dimensions

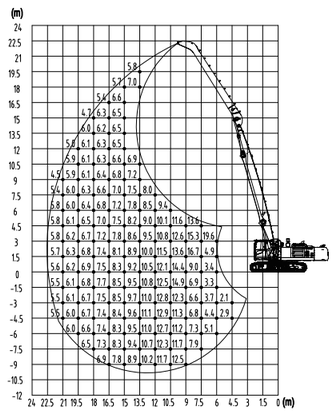


Scope Of Work

SMHC70 Lift capacities of material handler
(Boom 10.5m, Stick 7.5m, Unit:t)



SMHC70 Lift capacities of material handler
(Boom 12.5m, Stick10m, Unit:t)



SMHW80

SANY Material Handling Machine

SMHW80 series is large tonnage tire material handler, equipped with different arm combinations and grabbers, can be applied to the loading and unloading and stacking of bulk cargo and other goods in the dock and yard.

1 **High load**
a single cycle takes only 30 seconds, a single grab capacity reaches 9 tons, loading and unloading operations can be up to 800tons/h, easily covering 10,000 tons of ship operations.

2 **Wide range**
maximum operating depth is 14 meters, maximum operating height reaches 23 meters, maximum operating radius is 24 meters.

3 **Low energy consumption**
The application of energy recovery technology, the boom system adopts multi-body dynamics simulation design, energy-saving efficiency of more than 20%.

4 **Full coverage**
12meters amplitude load capacity of more than 15 tons, covering more than 90% of the lifting needs of general cargo, replacement of attachments, a multi-purpose machine.

5 **More flexible**
tire type chassis makes transition more convenient.

Product Parameters

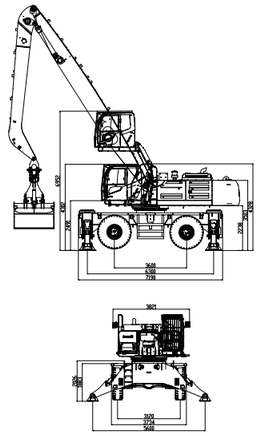
Technical Parameter

ITEM			UNIT	SMHW80
Power System	Engine	Model	-	Deutz D09S4T9
		Rated power	kw/rpm	260/2000
		Torque	Nm/rpm	1530/1200-1400
		Emission	min	com III
		Oil Tank Capacity	L	600
	E-Motor	Model	-	Sany YE3-355M-4
		Rated Capacity	kW/rpm	250/1486
		Input voltage	V,Hz	380,50
		Type Of Start	-	Soft Start
Chassis System	Track width		mm	3135
	Wheel base		mm	3600
	Support width(lengthways)		mm	6300
	Support width(crosswise)		mm	5600
	Turning radius		mm	9800
	Max. Gradeability		%	20
	Max. Travelling Speed		km/h	10
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System
	Main Pump	Model	-	Hengli
		Rated Flow	L/min	2×400
	Main Valve		-	Hengli
	Reducer		-	Sany
	Boom Cylinder		-	Sany
	Stick Cylinder		-	Sany
	Max. System Pressure		MPa	34
	Hydraulic Oil Tank		L	500

Configuration Parameter

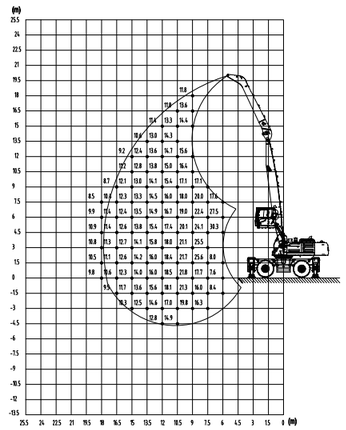
CONFIGURATION		UNIT	SMHW80			
Slewing Gear	Slewing Bearing	-	Sany			
	Max. Rotating Speed	rpm	8			
Cabin	Cabin Lift Height	mm	2650			
Basic Parameters	Boom Configuration	m	18	20	22	24
		m	Boom 10.5	Boom 12.5	Boom 12.5	Boom 13
		m	Stick 7.5	Stick 7.5	Stick 10	Stick 11
	Max. Operating Radius	m	18	20	21	23
	Max. Operating Height	m	18	20	21	24
	Max. Operating Depth	m	-4.5	-4.5	-7	-10
	Max. Operating Radius (Grab Not Included)	t	9	5	6	5

Dimensions

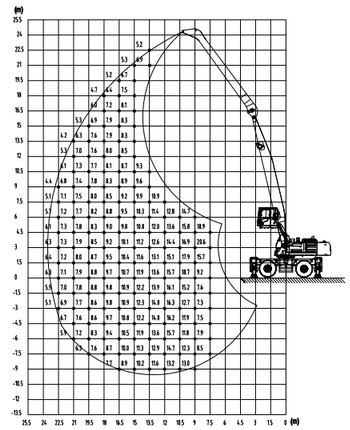


Scope Of Work

SMHW80 Lift capacities of material handler
(Boom10.5m, Stick 7.5m, Unit:t)



SMHW80 Lift capacities of material handler
(Boom 13m, Stick 11m, Unit:t)



SMHW30G5

SANY Material Handling Machine

30-series material handlers are mainly suitable for all kinds of bulk material handling the machine is light and flexible with stable performance and high work efficiency.

The SMHW30G5 equipped Cummins L6.7 engine (EU Stage V) with high efficiency and low consumption performance.
The SMHW30G5 with reinforced undercarriage stability and comprehensive security features.
It is comfortable to operate in scrap, timber, and waste recycling handling.

Product Parameters

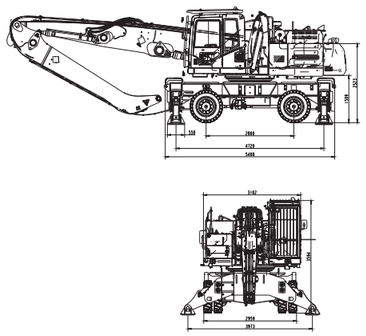
Technical Parameter

ITEM			UNIT	SMHW30G5
Power System	Engine	Model	-	CumminsL6.7
		Rated power	kw/rpm	145/2000
		Torque	Nm/rpm	847/1500
		Emission	min	EU stage V
		Oil Tank Capacity	L	465
Chassis System	Track width		mm	2387
	Wheel base		mm	2800
	Support width(lengthways)		mm	4720
	Support width(crosswise)		mm	3973
	Turning radius		mm	3146
	Max. Gradeability		%	35
	Max. Travelling Speed		km/h	20
Ber	Gearbox		-	DANA360
	Axles		-	KESSLER
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System
	Main Pump	Model	-	Kawasaki
		Rated Flow	L/min	2×260
	Main Valve		-	Kawasaki
	Reducer		-	Sany
	Boom Cylinder		-	Sany
	Stick Cylinder		-	Sany
	Max. System Pressure		MPa	32
	Hydraulic Oil Tank		L	230

Configuration Parameter

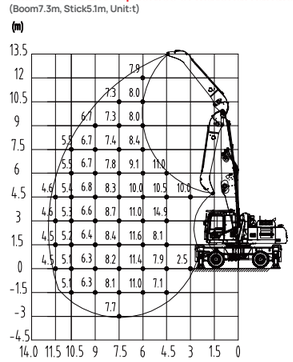
CONFIGURATION		UNIT	SMHW30G5	
Slewing Gear	Slewing Bearing	-	Sany	
	Max. Rotating Speed	rpm	8	
Cabin	Cabin Lift Height	mm	2650	
Basic Parameters	Boom Configuration	m	12	14
		m	Boom 7.3	Boom 8.6
		m	Stick 5.1	Stick 5.6
	Max. Operating Radius	m	12	13.5
	Max. Operating Height	m	12	13.5
	Max. Operating Depth	m	-3	-3
	Max. Operating Radius (Grab Not Included)	t	4.5	3.2

Dimensions

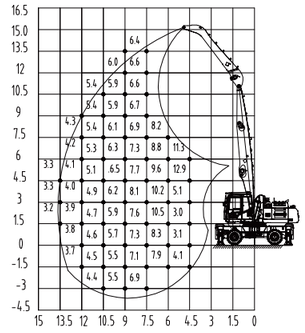


Scope Of Work

SMHW30G5 Lift capacities of material handler
(Boom7.3m, Stick5.1m, Unit:t)



SMHW30G5 Lift capacities of material handler
(Boom 8.6m, Stick5.6m, Unit:t)



SMHW48G5

SANY Material Handling Machine

48 series is widely used in railway, inland wharf for bulk material loading and unloading, a variety of boom combination for railway bulk material, steel mills, inland wharf, general cargo and other working conditions, can offer wide range of operation and high efficiency.

The SMHW48G5 is a versatile material handler that can be deployed wherever large quantities of material need to be moved.
It's a real powerhouse that impresses on account of its high efficiency and cost effectiveness.
One of its signature features is its high load capacity,which allows even the greatest of tasks to be handled swiftly.
No matter whether the SMHW48G5 is deployed in a Port or a timber yard,for materials handing or for sorting tasks on a demolition site ,to handle recycling material or scrap-the range of task-appropriate attachment devices guarantee the maximum in performance and reliability for any application.

Product Parameters

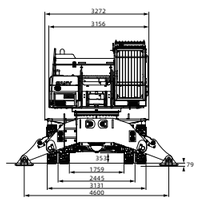
Technical Parameter

ITEM			UNIT	SMHW48G5
Power System	Engine	Model	-	Cummins SL9
		Rated power	kw/rpm	252/1800
		Torque	Nm/rpm	1526/1400
		Emission	min	EU stage V
		Oil Tank Capacity	L	540
Chassis System	Track width		mm	2445
	Wheel base		mm	3200
	Support width(lengthways)		mm	5300
	Support width(crosswise)		mm	4600
	Turning radius		mm	8800
	Max. Gradeability		%	35
	Max. Travelling Speed		km/h	20
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System
	Main Pump	Model	-	Kawasaki
		Rated Flow	L/min	2×320
	Main Valve		-	Kawasaki
	Reducer		-	Sany
	Boom Cylinder		-	Sany
	Stick Cylinder		-	Sany
	Max. System Pressure		MPa	32
	Hydraulic Oil Tank		L	340

Configuration Parameter

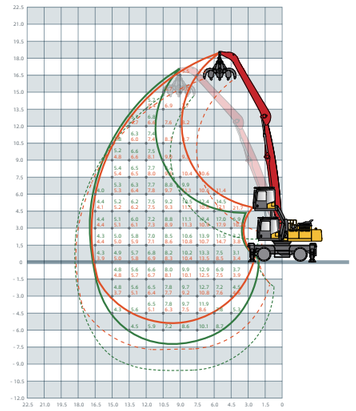
CONFIGURATION		UNIT	SMHW48G5		
Slewing Gear	Slewing Bearing	-	Sany		
	Max. Rotating Speed	rpm	8		
Cabin	Cabin Lift Height	mm	2650		
Basic Parameters	Boom Configuration	m	17	18	20
		m	Boom 9.6	Boom 10.5	Boom 10.5
		m	Stick 7.5	Stick 7.5	Stick 9.5
	Max. Operating Radius	m	16.5	17	19.5
	Max. Operating Height	m	16.5	18	19.5
	Max. Operating Depth	m	-6	-6	-9
	Max. Operating Radius (Grab Not Included)	t	3.9	4.1	3.5

Dimensions

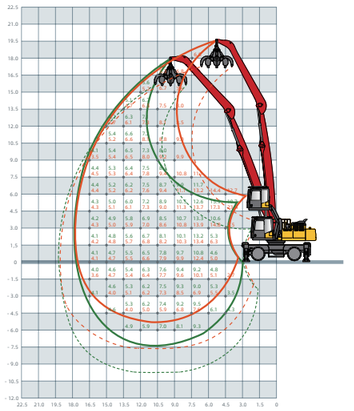


Scope Of Work

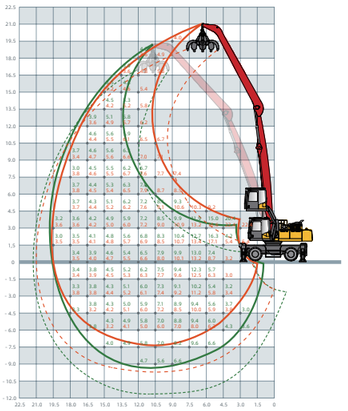
SMHW48G5 Lift capacities of material handler
(Boom9.6m, Stick7.5m, Unit:t)



SMHW48G5 Lift capacities of material handler
(Boom10.5m, Stick7.5m, Unit:t)



SMHW48G5 Lift capacities of material handler
(Boom10.5m, Stick 9.5m, Unit:t)



Attachments

Orange-peel grab

Technical Parameter		
Capacity(m³)	**0.8m³**	**1m³**
Self-weight(kg)	1902	1952
Self weight without rotator(kg)	1675	1725
Width when expanded(mm)	2550	2933
Width when closed(mm)	1625	1822
Height with rotator(kg)	3093	3286
Height without rotator(kg)	2829	3022
Working pressure(Mpa)	25	25

Timber grab

Technical Parameter	
Looping area(m²)	**Parameter**
Self weight with rotator(kg)	2211
Looping area when expanded(mm)	3251
Looping area when closed(mm)	1638
Height/length(mm)	4028/810
Working pressure(Mpa)	28

Clamshell grab

Technical Parameter					
Capacity(m³)	**2.0m³**	**2.5m³**	**3.5m³**	**4.0m³**	**5.0m³**
Self-weight(kg)	2216	2404	2566	2752	2924
Self weight without rotator(kg)	1888	2090	2243	2318	2795
Length(mm)	1500	1602	1804	2000	2000
Width expanded(mm)	2470	2865	3112	2918	3228
Width closed(mm)	2218	2298	2668	2696	2595
Height with rotator(kg)	3270	3468	3597	3652	3629
Height without rotator(kg)	3006	3204	3333	3234	3458
Working pressure(Mpa)	28	28	28	28	28

Steel tube grab

Technical Parameter	
Item	**Parameter**
Rated load(t)	8
Max. Rotate speed(r/min)	10
Rated working pressure(MPa)	25
Stretch Itinerary(mm)	single side 1420
Lateral distance(mm)	left 360/right 360
Steel tube length(m)	6-8.5
Spreader self weight(t)	2.5

Pulp grab

Technical Parameter	
Item	**Parameter**
Rated load(t)	6
Max. Rotate speed(r/min)	10
Movable hook open/close time(s)	<1
Rated working pressure(mpa)	25
Spreader length(mm)	2600
Spreader width(mm)	1300
Spreader height(mm)	2150
Hook distance range(mm)	840 -2000
Spreader self weight(t)	1.5

Generator system

Technical Parameter			
Item	**WM5-110L**	**WM5-130L**	**WM5-160L**
Rate of power kW	25		
Electromagnet			
Item	**ZKZL-19E-D**		
Shape(mm)	520×350×750 (dimension)		
Output rate of work(kW)	25		
Input voltage(V)	AC380		
Output voltage(V)	DC220		
Protection level	IP45 (suitable for outdoor use)		
Magnetization & demagnetization time	≤3s		
Control cabinet			
Item	**WM5-110L**	**WM5-130L**	**WM5-160L**
Rated voltage(DC)	220V	220V	220V
Input rate of power(kW)	8.14	13.4	17.8
Diameter(m)	1.1	1.3	1.6
Self weight(kg)	around 1310	around 2100	around 3050
Cold current(a)	37	60.9	81
Protection level	IP67	IP67	IP67
Insulation level	H level	H level	H level
Cast iron mold(kg)	800	1100	2300
Cutting bits (kg)	800	1100	2300
No.1 Steel scalp(kg)	400	600	1100
No.2 Steel scrap(kg)	100	200	400
Type of connection	chain	chain	chain
Electromagnet outlet	YC2×10	YC2×16	YC2×16

Engine

Hydraulic motor

Control cabinet

Magnetic plate

Construction Cases
steel mills & renewable resources

45T crawler material handler

35T crawler material handler

35T crawler material handler

40T crawler material handler

45T magnetic plate material handler

45T crawler material handler

45T crawler material handler

50T electric material handler

50T electric material handler

70T crawler material handler

Construction Cases
inland wharf


70T material handler


70T material handler


70T material handler

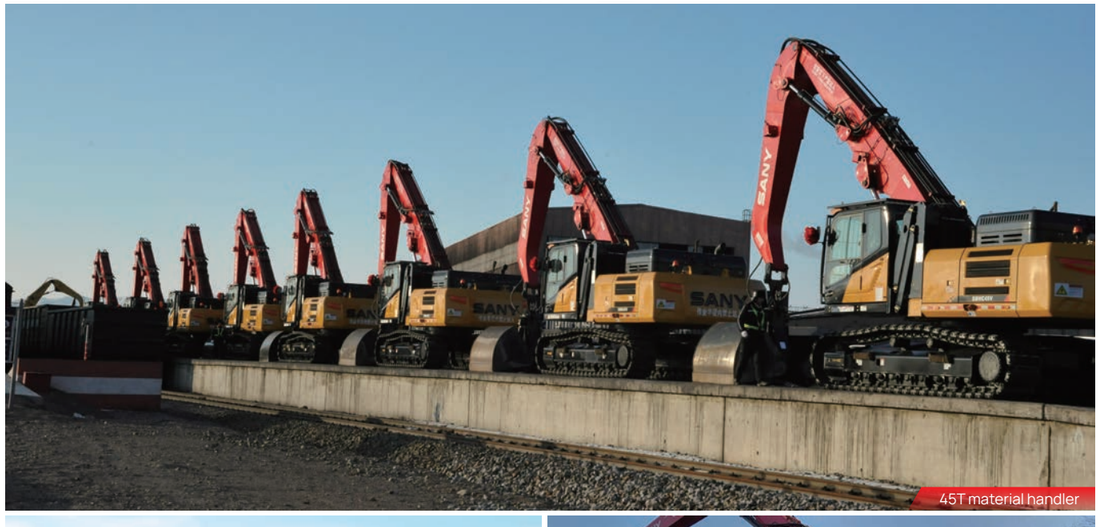

70T material handler


70T material handler

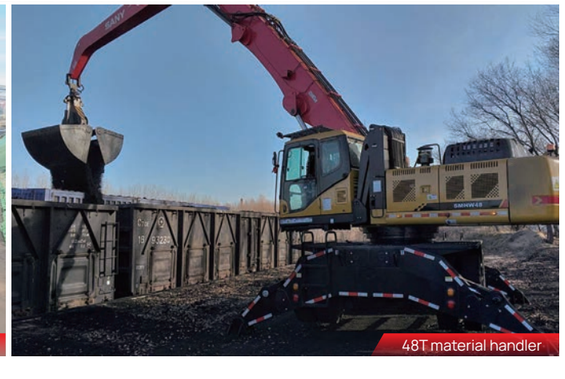
Construction Cases
railways


70T material handler


40T material handler


45T material handler

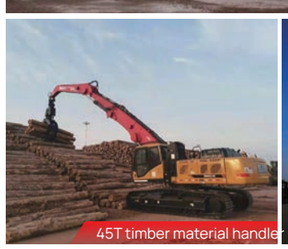

48T material handler


48T material handler

Construction Cases
bulk cargo

36T tire material handler

45T crawler material handler


45T timber material handler

48T tire material handler

48T pulp material handler

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