

SANY[®]
QUALITY CHANGES THE WORLD



MATERIAL HANDLING MACHINE

SANY MARINE

As a key division of SANY International, SANY Marine operates from Zhuhai, Guangdong Province, specializes in MPM (RS, ECH), port crane (RTG, RMG, STS, Jib Crane, MHC and SC), and logistics equipment (material handlers, heavy-duty forklifts, ETT, and TH)

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► SANY Marine launched its first material handler in 2018, with total sales over 1000 units.

The product line includes 30 to 200 tons, with both wheeled and crawler chassis options.



MATERIAL HANDLING MACHINE

► Wheel Type

SMHW30

- Optional Boom
K12, K14
- Overall Weight
33.5-36t
- Engine power
180kW/145kW



SMHW40E/SMHW40

- Optional Boom
K14, K15, K17
- Overall Weight
39.5t
- Main pump power
160kW
- Swing system power
80kW
- Engine power
168kW/175kW



► Rail Gantry

SMHW48

- Optional Boom
K14, K18, K20
- Overall Weight
45t-47t
- Engine power
212kW/252kW



SMHW80

- Optional Boom
K18, K22, K24
- Overall Weight
97t-105t
- Engine power
260kW



SMHR200

- Optional Boom
K31, K35
- Overall Weight
220t-235t
- Engine power
2*353kW



► Crawler-Type

SMHC35

- Optional Boom
K12
- Overall Weight
32.5t
- Engine power
147kW



SMHC45V

- Optional Boom
K11, K14
- Overall Weight
42t-44t
- Engine power
212kW



SMHC50V-D (Towing Power)

- Optional Boom
K11, K14
- Overall Weight
43t-44t
- Engine power
160kW



SMHC70

- Optional Boom
K18, K20, K22
- Overall Weight
66t-71t
- Engine power
260kW



SMHC100

- Optional Boom
K18, K22, K24
- Overall Weight
97t-105t
- Engine power
260kW



SMHC160

- Optional Boom
K22, K26
- Overall Weight
170t-175t
- Engine power
2*235kW



► Material Handler Overview

- A material handler is a high-efficiency multi-purpose equipment for bulk/general cargo loading, unloading, and stacking. It executes specialized operations including grabbing, clamping, hoisting, and cutting in specific applications.
- It is widely used in scrap metal, mining, timber, waste management, as well as ports, rail terminals, logistics yards, and industrial warehouses. Combining functions of cranes, loaders, and excavators, it can perform partial roles of these machinery.



Port Operations



Scrap Metal Handling



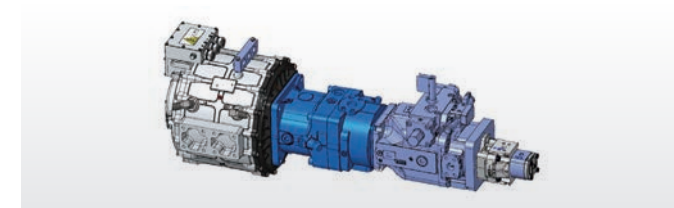
Coal Handling



Bulk Cargo Handling

► Diesel vs Electric Comparison

- The boom drive utilizes an independent positive/negative swing angle two-quadrant piston pump system that harnesses potential energy during boom lowering.
- The slewing mechanism employs permanent magnet synchronous motor drive with regenerative braking capability for kinetic energy recovery.
- Delivers industry-leading energy efficiency with an average runtime of up to 8 hours.
- Operating costs are as low as 24% compared to conventional diesel-powered models.



► Electro-Hydraulic Maindrive



► Slewing drive



► CATL Battery Pack

► Construction

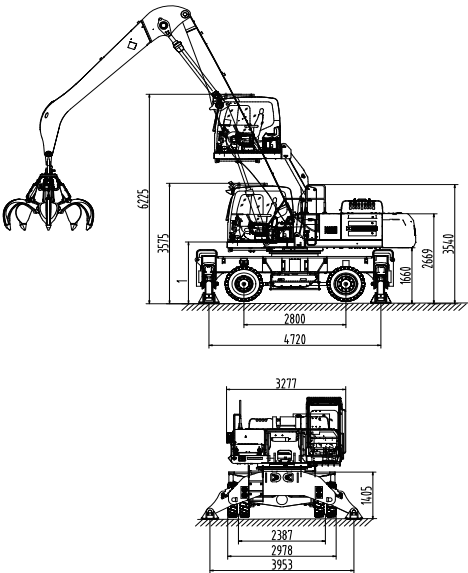
SMHW30



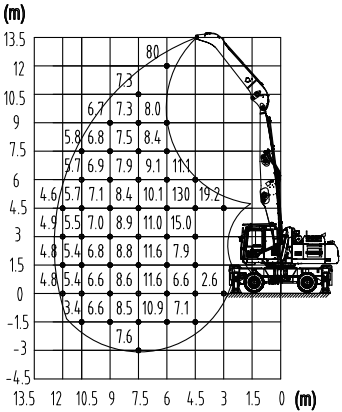
Product Parameters

Technical Parameter					Configuration Parameter					
ITEM			UNIT	SMHW30	CONFIGURATION		UNIT	SMHW30		
Power System	Engine	Model	-	Mitsubishi D06FRC	Hydraulic System	Max. System Pressure	MPa	34.5		
		Rated Power	kW/rpm	147/2100		Hydraulic Oil Tank	L	230		
		Torque	Nm/rpm	750/1350	Slewing Gear	Max. Rotating Speed	rpm	8		
		Emission	-	com III		Cabin	Cabin Lift Height	mm	2650	
		Oil Tank Capacity	L	465	Basic Parameters	Boom Configuration	m	12	14	
Chassis	Track Width		mm	2387			m	Boom 7.3	Boom 8.6	
	Wheel Base		mm	2800			m	Stick 5.1	Stick 5.6	
	Support Width(lengthways)		mm	4750			Max. Operating Radius	m	10.5	13.5
	Support Width(crosswise)		mm	4140		Max. Operating Height	m	12	13.5	
	Turning Radius		mm	8000		Max. Operating Depth	m	-3	-3	
Hydraulic System	Max. Travelling Speed		km/h	20		Max. Operating Radius (Grab Not Included)	t	4.6	3.4	
	Type Of Control		-	Electronically Controlled Positive Flow System						
	Main Pump	Rated Flow	L/min	2×260						

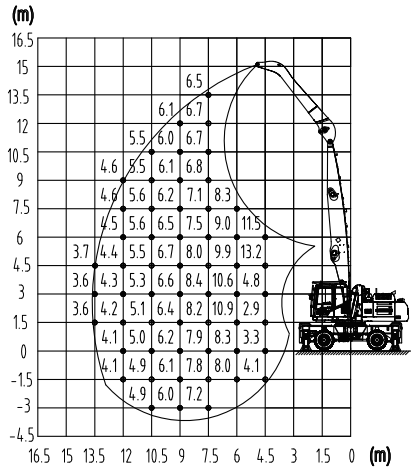
Dimensions



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)



- Load-sensing hydraulics, 10% lower fuel use
- Optimized engine-pump match
- Auto-idle & multi-speed throttle
- 300ms response, 400t/h efficiency

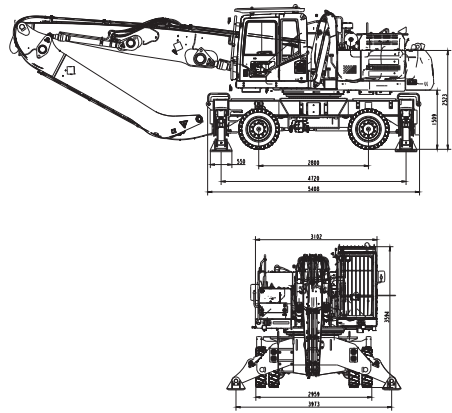
SMHW30G5



► Product Parameters

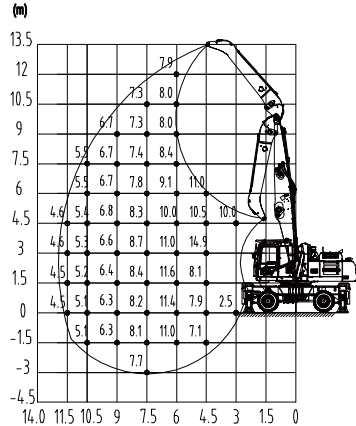
Technical Parameter					Configuration Parameter					
ITEM			UNIT	SMHW30G5	CONFIGURATION		UNIT	SMHW30G5		
Power System	Engine	Model	-	CumminsB6.7	Slewing Gear	Max. Rotating Speed	rpm	8		
		Rated Power	kw/rpm	145/2000						
		Torque	Nm/rpm	847/1500	Cabin	Cabin Lift Height	mm	2650		
		Emission	-	EU stage V						
		Fuel Tank	L	465						
Chassis System	Track Width		mm	2387	Basic Parameters	Boom Configuration	m	12	14	
	Wheel Base		mm	2800			m	Boom 7.3 Boom 8		
	Support Width(lengthways)		mm	4720			m	Stick 5.1 Stick 6		
	Support Width(crosswise)		mm	3973			Max. Operating Radius	m	12	13.5
	Turning Radius		mm	8000				m	12	13.5
	Max. Gradeability		%	35		Max. Operating Height		m	12	13.5
	Max. Travelling Speed		km/h	20			Max. Operating Depth	m	-3	-3
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System	Max. Operating Radius Load (Grab Not Included)	t		4.5	3.2	
	Main Pump	Rated Flow	L/min	2×260						
	Max. System Pressure		MPa	32						
	Hydraulic Oil Tank		L	230						

► Dimensions

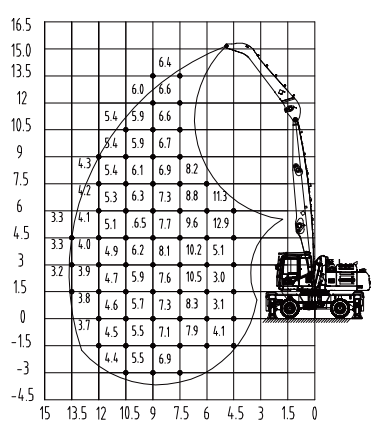


► Scope Of Work

SMHW30G5 Lift capacities of material handler
(Boom 7.3m, Stick 5.1m, Unit:t)



SMHW30G5 Lift capacities of material handler
(Boom 8m, Stick 6m, Unit:t)



- Cummins engine, strong power
- Reinforced undercarriage, stable and safe
- Fits scrap, wood, recycling scenarios

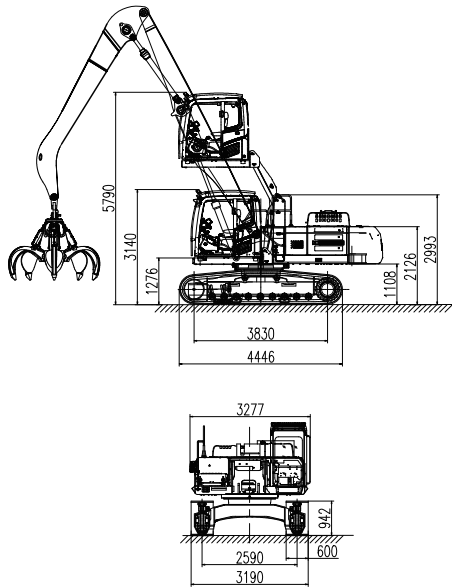
SMHC35



► Product Parameters

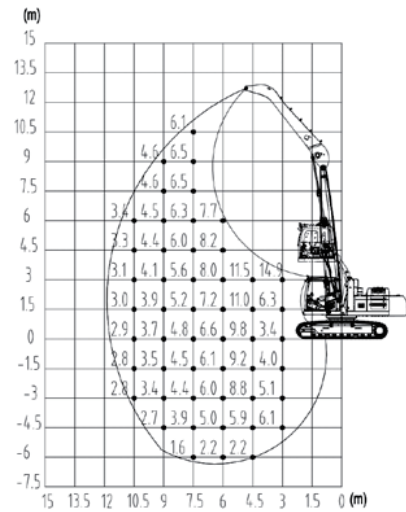
Technical Parameter					Configuration Parameter			
ITEM			UNIT	SMHC35	CONFIGURATION		UNIT	SMHC35
Power System	Engine	Model	-	Mitsubishi D06FRC	Hydraulic System	Max. System Pressure	MPa	34.5
		Rated power	kW/rpm	147/2100		Hydraulic Oil Tank	L	230
		Torque	Nm/rpm	750/1350	Slewing Gear	Max. Rotating Speed	rpm	8
		Emission	-	com III	Cabin	Cabin Lift Height	mm	2650
		Oil Tank Capacity	L	465			m	12
Traveling Gear	Track width		mm	2590		Boom Configuration	m	Boom 6.8
	Wheel Base		mm	3830			m	Stick 5.6
	Track Width		mm	600	Basic Parameters	Max. Operating Radius	m	10.5
	Max. Travelling Speed		km/h	5		Max. Operating Height	m	10.5
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System		Max. Operating Depth	m	-6
	Main Pump	Rated Flow	L/min	2×260		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)



- Load-sensing system, 10% fuel savings
- Efficient engine-pump coordination
- Auto-idle & throttle control
- 300ms response, 200t/h throughput

SMHW40

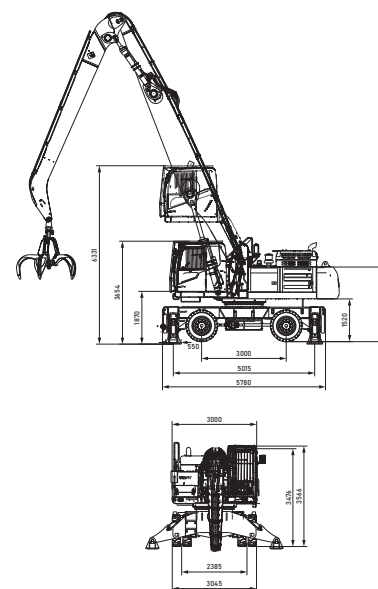


- 20% less fuel than 48t model
- Modular boom, longer fatigue life
- Auto-dust cooling with reversible fan
- Heated suspension seat, 50% less vibration

► Product Parameters

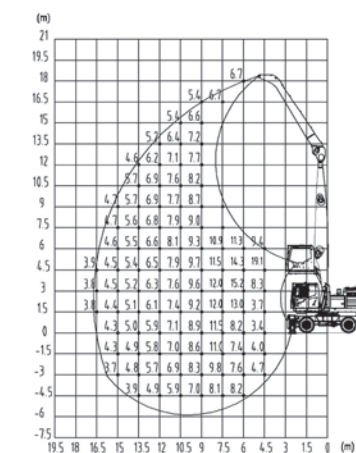
Technical Parameter					Configuration Parameter						
ITEM			UNIT	SMHW40		CONFIGURATION		UNIT	SMHW40		
Power System	Engine	Model	-	Deutz D09S3		Hydraulic System	Max. System Pressure	MPa	34.5		
		Rated Power	kw/rpm	175/2000							
		Torque	Nm/rpm	1200/1100~1400		Cabin	Cabin Lift Height	mm	2650		
		Emission	-	Stage III							
		Fuel Tank	L	600							
Chassis System	Trackwidth		mm	2386		Basic Parameters	Boom Configuration	m	17	15	
	Wheel Base		mm	3000				m	Boom 9.8 Boom 8.8		
	Support Width(lengthways)		mm	5020				m	Stick 7.5	Stick 6	
	Support Width(crosswise)		mm	4400							
	Turning Radius		mm	8500							
	Max.Gradeability		%	30							
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System			Max. Operating Radius	m	16.5	15	
	Main Pump	Model	-	kawasaki				Max. Operating Height	m	10.5	16.5
		Rated Flow	L/min	2×288					Max. Operating Depth	m	-5
	Max.System Pressure		MPa	32				Max. Operating Radius Load (Grab Not Included)		t	3.9
	Hydraulic Oil Tank		L	320							

► Dimensions



► Scope Of Work

SMHW40R Lift capacities of material handler
(Boom 9.8m, Stick 7.5m, Unit:t)



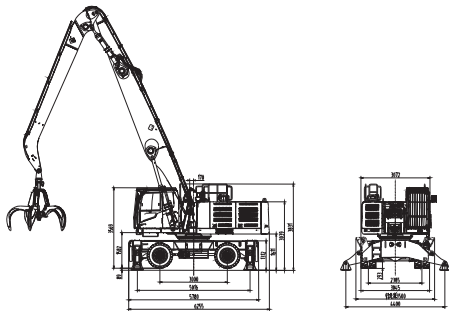
SMHW40G5



► Product Parameters

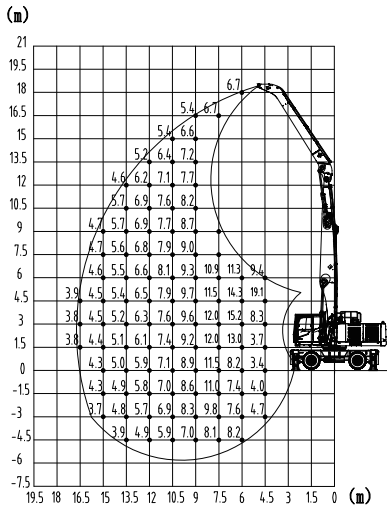
Technical Parameter					Configuration Parameter				
ITEM			UNIT	SMHW40G5	CONFIGURATION		UNIT	SMHW40G	
Power System	Engine	Model		CumminsB6.7	Hydraulic System	Slewing Bearing	-	Sany	
		Rated power	kw/rpm	168/2000		Max.Rotating Speed	rpm	8	
		Torque	Nm/rpm	1044/1500					
		Emission	min	EU stage V					
		Fuel Tank	L	600					
Chassis System	Trackwidth		mm	2386	Cabin	Cabin Lift Height	mm	2650	
	Wheel base		mm	3000					
	Support width(lengthways)		mm	5020	Boom Configuration	m	17	15	
	Support width(crosswise)		mm	4400					
	Turning radius		mm	8500					
	Max.Gradeability		%	30					
	Max.Travelling Speed		km/h	20					
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System	Basic Parameters		m	16.5	15
	Main Pump	Model	-	Kawasaki		Max. Operating Radius	m	16.5	15
		Rated Flow	L/min	2×288					
	Main Valve		-	Kawasaki		Max. Operating Height	m	18	16.5
	Reducer		-	Sany					
	Boom Cylinder		-	Sany		Max. Operating Depth	m	-5	-4.5
	StickCylinder		-	Sany					
	Max.System Pressure		MPa	32		Max. Operating Radius load (Grab Not Included)	t	3.9	5.1
	Hydraulic Oil Tank		L	320					

► Dimensions



► Scope Of Work

SMHW40G Lift capacities of material handler
(Boom 9.8m, Stick 7.5m, Unit:t)



- 20% less fuel than 48t model
- Modular boom, longer fatigue life
- Auto-dust cooling with reversible fan
- Heated suspension seat, 50% less vibration

SMHW40E

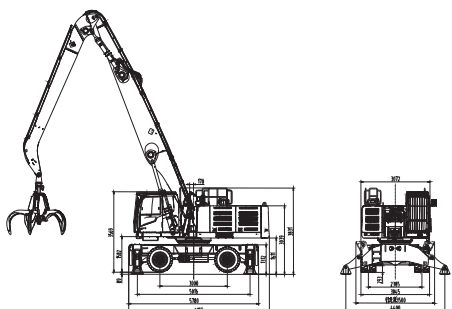


- Energy recovery, 80% lower cost vs diesel
- 7-9h runtime with high-capacity battery
- Electric control + independent swing, +20% efficiency
- Compact wheeled chassis, strong climbing, agile movement

Product Parameters

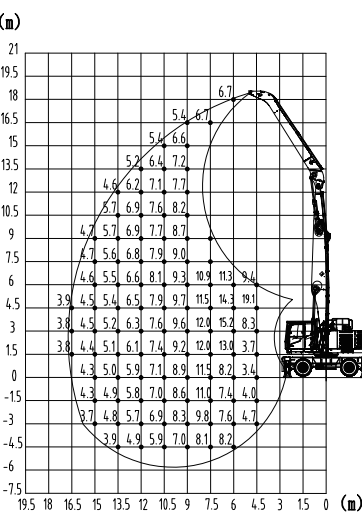
Configuration Parameter					Configuration Parameter						
ITEM			UNIT	SMHW40E	CONFIGURATION		UNIT	SMHW40E			
Power System	Electric Motor	Model	-	Weiteli	Slewing Gear	Max. Rotating Speed	rpm	8			
		Rated Power	kW/rpm	160/2040, 80/1900							
		Battery Voltage	VDC	437	Cabin	Cabin Lift Height	mm	2650			
	Electronic Control	-	Weiteli								
	Battery	Model	-	CATL	Lubrication System	Mode	-	Automatic Lubrication			
Battery Charge Level		kWh	507								
Chassis	Track Width		mm	2385	Basic Parameters	Boom Configuration	m	17	15	14	
	Wheel Base		mm	3000				m	Boom 9.8	Boom 8.8	Boom 8.8
	Support Width (lengthways)		mm	5020					m	Stick 7.5	Stick 6.6
	Support Width (crosswise)		mm	4400							
	Turning Radius		mm	8500							
	Maximum Gradeability		%	30							
	Max. Travelling Speed		km/h	20							
Hydraulic System	Type Of Control		-	Electrically Controlled Positive Flow System			Max. Operating Radius (Excluding Spreader)	m	16.5	14.5	13.5
	Main Pump Reducer	Rated Flow	L/min	2×380			Max. Operating Height (Excluding Spreader)	m	18	15	15
		Model	-	Stub Tooth			Max. Operating Depth (Excluding Spreader)	m	-4.5	-4.5	-4.5
	Maximum System Pressure		MPa	34		Max. Operating Radius (Grab Not Included)	t	4	4.5	5	
	Hydraulic Oil Tank		L	350							

Dimensions

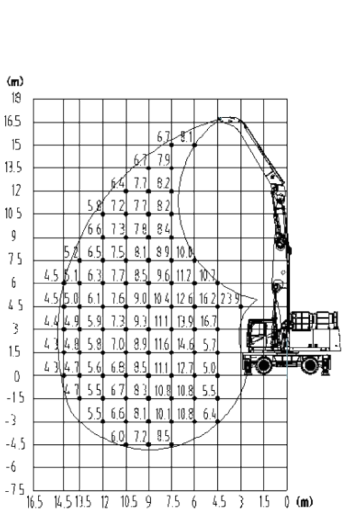


Scope Of Work

SMHW40-E Lift capacities of material handler
(Dynamic Ar 9.8m Bucket Rod 7.5m unit:t)



SMHW40-E Lift capacities of material handler
(Dynamic Ar 8.8m Bucket Rod 6.6m unit:t)



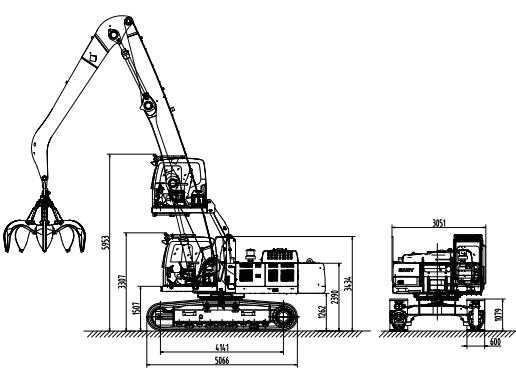
SMHC45V



► Product Parameters

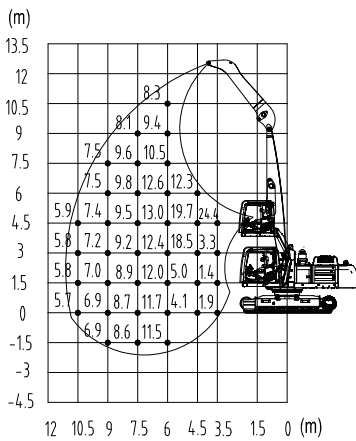
Configuration Parameter					Configuration Parameter				
ITEM			UNIT	SMHC45V	CONFIGURATION		UNIT	SMHC45V	
Power System	Engine	Model	-	Isuzu 6HK1	Slewing Gear	Max. Rotating Speed	rpm	8	
		Rated power	kW/rpm	212/2000	Cabin	Cabin Lift Height	mm	2650	
		Torque	Nm/rpm	1080/1500		Boom Configuration	m	11	14
		Emission	-	com III			m	Boom 7	Boom 8.6
		Oil Tank Capacity	L	600	m	Stick 4.5	Stick 6		
Undercarriage	Track Gauge		mm	2590	Basic Parameters	Boom Mounted At The Pivot Point Of The Slewing Platform	-	Upper Pivot Point	Upper Pivot Point
	Wheelbase		mm	4140		Max. Operating Radius	m	10.5	13.5
	Track Width		cm	600		Max. Operating Height	m	12	15
	Max. Travelling Speed		km/h	5		Max. Operating Depth	m	-1.5	-3
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System		Max. Operating Radius (Grab Not Included)	t	5.9	4.1
	Main Pump	Rated Flow	L/min	2×320					
	Maximum System pressure		MPa	32					
	Hydraulic Oil Tank		L	310					

► Dimensions

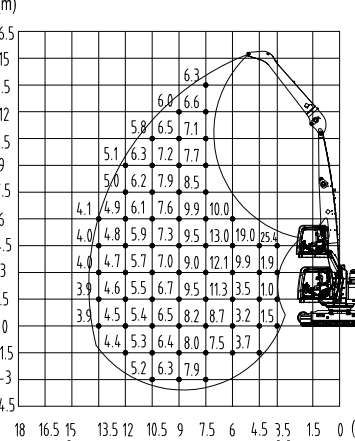


► Scope Of Work

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)



- Load-sensing hydraulics, 10% fuel cut
- Auto-idle & throttle steps reduce loss
- Optimized powertrain
- 300ms response, 450t/h handling rate

SMHW48V



► Product Parameters

Technical Parameter					Configuration Parameter					
ITEM			UNIT	SMHW48V	CONFIGURATION		UNIT	SMHW48V		
Power System	Engine	Model	-	Isuzu 6HK1	Hydraulic System	Max. System Pressure	MPa	32		
		Rated power	kW/rpm	212/2000		Hydraulic Oil Tank	L	310		
		Torque	Nm/rpm	1080/1500	Slewing Gear	Max. Rotating Speed	rpm	8		
		Emission	-	com III		Cabin	Cabin Lift Height	mm	2650	
		Fuel Tank	L	600						
Chassis	Track Width		mm	2746	Basic Parameters	Boom Configuration	m	14	18	
	Wheel Base		mm	3200			m	Boom 8.6	Boom 10.5	
	Support width(lengthways)		mm	5400			m	Stick 6	Stick 7.5	
	Support width(crosswise)		mm	4800		Max. Operating Radius	m	13.5	16.5	
	Turning Radius		mm	8800			Max. Operating Height	m	15	16.5
	Max. Travelling Speed		km/h	20			Max. Operating Depth	m	-4.5	-4.5
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System		Max. Operating Radius (Grab Not Included)	t	6.1	5.1	
	Main Pump	Rated Flow	L/min	2×260						

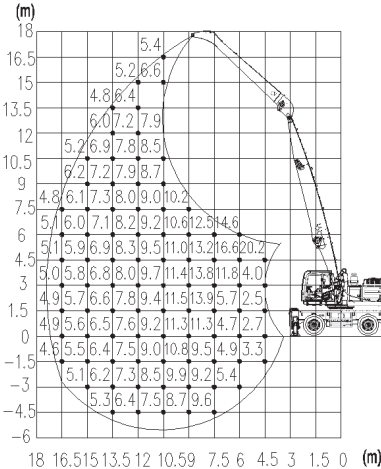
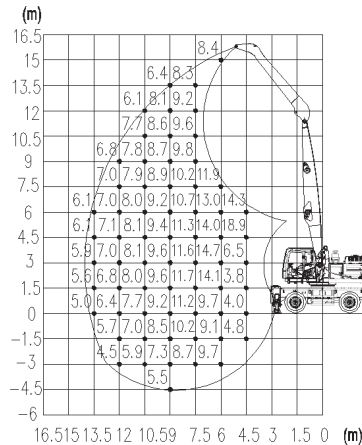
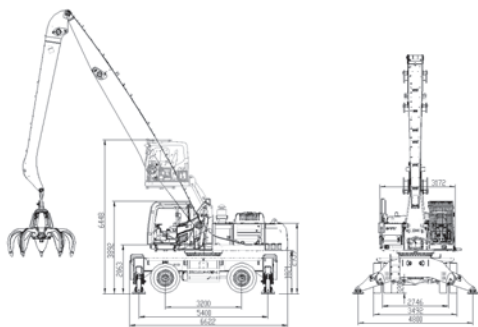
► Dimensions

► Scope Of Work

- 520t/h productivity
- 300ms actuation
- 20km/h wheeled chassis, fast relocation

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)



SMHW48G5

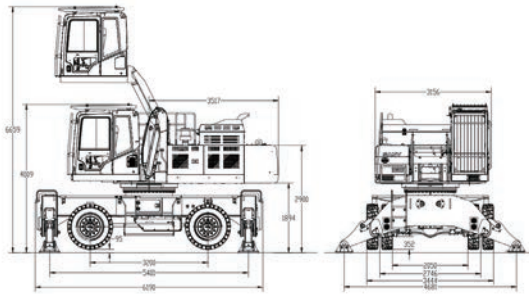


- For ports, timber, dismantling, recycling
- Heavy-duty design for high loads
- Energy-efficient, cost-effective
- Multiple compatible attachments

Product Parameters

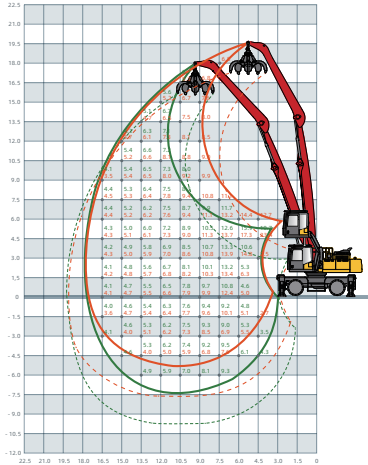
Technical Parameter					Configuration Parameter					
ITEM			UNIT	SMHW48G5	CONFIGURATION		UNIT	SMHW48G5		
Power System	Engine	Model	-	Cummins QSL9	Slewing Gear	Max. Rotating Speed	rpm	8		
		Rated Power	kw/rpm	252/1800						
		Torque	Nm/rpm	1526/1400	Cabin	Cabin Lift Height	mm	2650		
		Emission	min	EU Stage V						
		Fuel Tank	L	600						
Chassis	Track Width		mm	2746	Basic Parameters	Boom Configuration	m	18	20	
	Wheel Base		mm	3200			m	Boom 10.5	Boom 10.5	
	Support Width(lengthways)		mm	5400			m	Stick 7.5	Stick 9.5	
	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			Max. Operating Radius	m	17.5	19.5
	Main Pump	Rated Flow	L/min	2×320			Max. Operating Height	m	18	19.5
		Max. System Pressure	MPa	32			Max. Operating Depth	m	-7	-9
	Hydraulic Oil Tank		L	340			Max. Operating Radius Load (Grab Not Included)	t	4.3	3.5

Dimensions

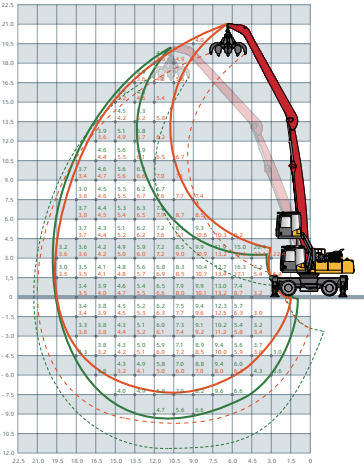


Scope Of Work

SMHW48G5 Lift capacities of material handler
(Boom10.5m, Stick 7.5m, Unit:t)



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



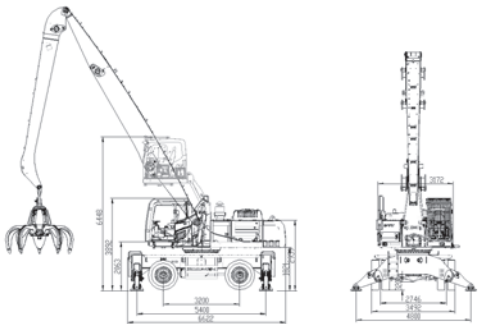
SMHW48-D



Product Parameters

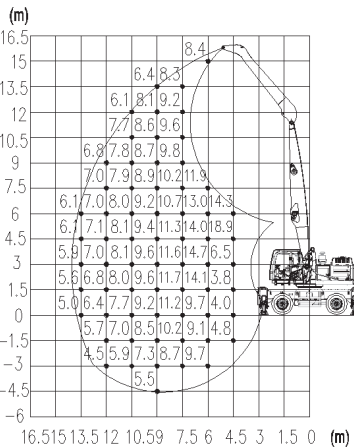
Technical Parameter					Configuration Parameter							
ITEM			UNIT	SMHW48-D	CONFIGURATION		UNIT	SMHW48-D				
Power System	Motor	Model	-	XEMC YE2-315L1-4	Slewing Gear	Slewing Bearing	-	SANY				
		Rated power	kw/rpm	160/1485		Max. Rotating Speed	rpm	8				
		Torque	Nm/rpm	1526/1400								
		Voltage	AC	380V,50HZ								
Chassis System	Trackwidth		mm	2746	Cabin	Cabin Lift Height	mm	2650				
	Wheel base		mm	3200		Basic Parameters	Boom Configuration	m	18	20		
	Support width(lengthways)		mm	5400	m			Boom 10.5	Boom 10.5			
	Support width(crosswise)		mm	4680	m			Stick 7.5	Stick 9.5			
	Turning radius		mm	8800	Max. Operating Radius			m	16.5	16.5		
	Max.Gradeability		%	35							Max. Operating Height	m
	Max.Travelling Speed		km/h	5		Max. Operating Depth	m					
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System	Max. Operating Radius (Grab Not Included)			t	4.3	3.5		
	Main Pump	Model	-	Kawasaki								
		Rated Flow	L/min	2×320								
	Main Valve		-	Kawasaki								
	Reducer		-	Sany								
	Boom Cylinder		-	Sany								
	StickCylinder		-	Sany								
	Max.System Pressure		MPa	32								
	Hydraulic Oil Tank		L	380								

Dimensions

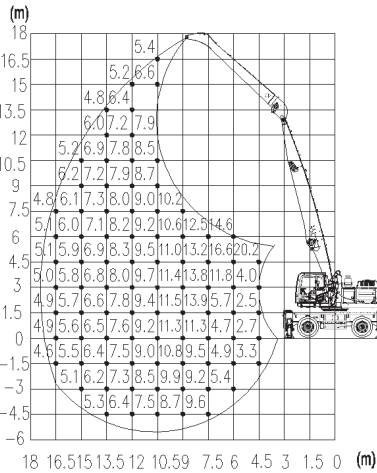


Scope Of Work

SMHW48-D Lift capacities of material handler
(Boom 10.5m, Stick 7.5m, Unit:t)



SMHW48-D Lift capacities of material handler
(Boom 10.5m, Stick 9.5m, Unit:t)



- Fuel-Saving Hydraulics: 20% lower consumption vs 48t models
- Modular Boom: 30%+ fatigue life extension
- Transport-Ready: 3m×3.5m regulation-compliant dimensions
- Self-Cleaning Radiator: Motor-driven reversible fan
- Enhanced Comfort: Heated air-ride seat + 50% less vibration

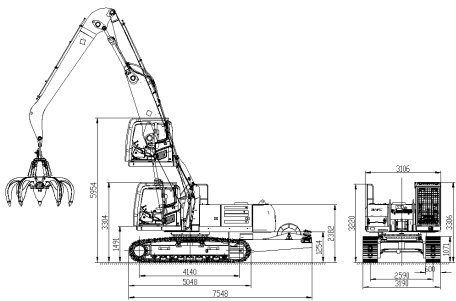
SMHC50V-D



Product Parameters

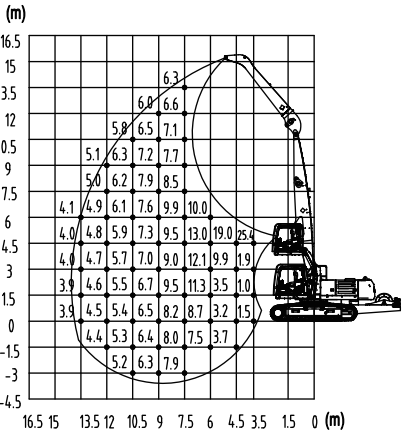
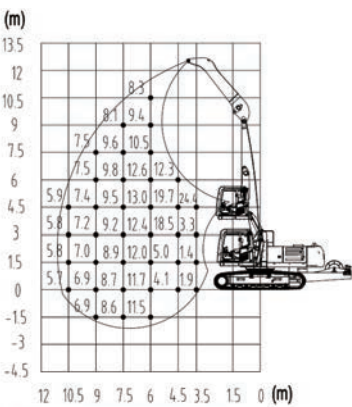
Technical Parameter					Configuration Parameter			
ITEM		UNIT		SMHC50V-D	CONFIGURATION		UNIT	SMHC50V-D
Power System	E-Motor	Model	-	XEMC YE2-315L1-4	Slewing Gear	Max. Rotating Speed	rpm	8
		Rated Capacity	kW/rpm	160/1485	Cabin	Cabin Lift Height	mm	2650
		Input Voltage	V/Hz	380/50		Boom Configuration	m	11 14
		Type Of Start	-	Soft Start			m	Boom 7 Boom 8.6
Traveling Gear	Working Gauge		mm	2590	Basic Parameters	Max. Operating Radius	m	10.5 13.5
	Wheel Base		mm	4140			m	10.5 13.5
	Track Width		mm	600		Max. Operating Depth	m	-1.5 -3
	Max. Travelling Speed		km/h	5		Max. Operating Radius (Grab Not Included)	t	5.9 4.1
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System		Max. Operating Radius	m	10.5 13.5
	Main Pump	Rated Flow	L/min	2×297			m	-1.5 -3
	Max. System pressure		MPa	32		Max. Operating Radius (Grab Not Included)	t	5.9 4.1
	Hydraulic Oil Tank		L	310			t	5.9 4.1

Dimensions



Scope Of Work

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



- Electric drive cuts costs by 65%
- 300ms fast response
- Crawler chassis for tough terrain

SMHC70

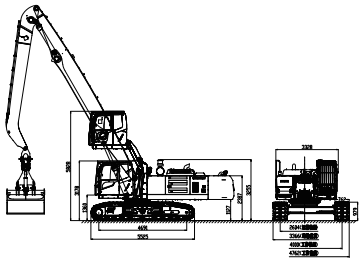
Product Parameters

Technical Parameter					Configuration Parameter					
ITEM			UNIT	SMHC70	CONFIGURATION		UNIT	SMHC70		
Power System	Engine	Model	-	Deutz D09S3T9	Traveling Gear	Working Gauge	mm	4000		
		Rated Power	kw/rpm	260/2000		Wheel Base	mm	4690		
		Torque	Nm/rpm	1530/1200-1400		Track Width	mm	762		
		Emission	-	EU Stage III		Max. Travelling Speed	km/h	3		
		Oil Tank Capacity	L	600		Max. Rotating Speed	rpm	8		
	E-Motor	Model	-	XEMC YE3-355M-4	Cabin	Cabin Lift Height	mm	2650		
		Rated Capacity	kW/rpm	250/1485	Basic Parameters	Boom Configuration	m	18	20	22
		Input Voltage	V/Hz	380/ 50			m	Boom 10.5	Boom 12.5	Boom 12.5
		Type Of Start	-	Soft Start			m	Stick 7.5	Stick 7.5	Stick 10
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System	Max. Operating Radius	m	18	19.5	21	
	Main Pump	Rated Flow	L/min	While Using Engine: 2×400 While Using E-Motor: 2×416	Max. Operating Height	m	16.5	18	19.5	
					Max. Operating Depth	m	-6	-6	-9	
	Max. System Pressure		MPa	34.3	Max. Operating Radius (Grab Not Included)	t	7.4	6.6	5.8	
	Hydraulic Oil Tank		L	500						

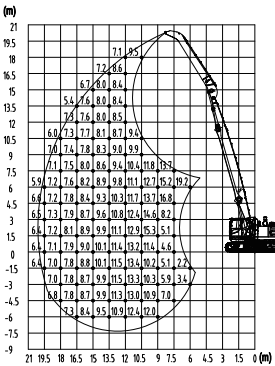
Dimensions

Scope Of Work

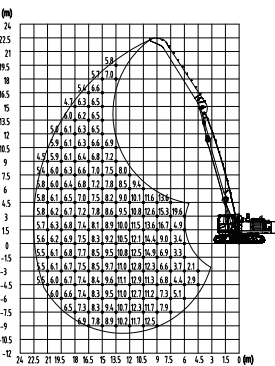
- 6.5t grab, 24s cycle, 2× 16t crane output
- Lightweight, rail-free setup
- Telescopic crawlers, ground-friendly mobility
- Dual power, 65%+ cost saving



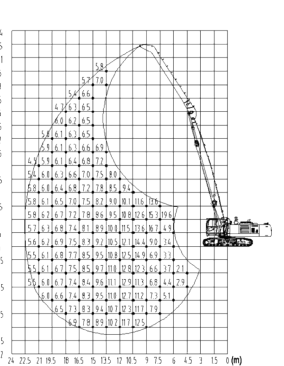
SMHC70 Lift capacities of material handler (Boom 10.5m, Stick 7.5m, Unit:t)



SMHC70 Lift capacities of material handler (Boom 12.5m, Stick 7.5m, Unit:t)



SMHC70 Lift capacities of material handler (Boom 12.5m, Stick 10m, Unit:t)



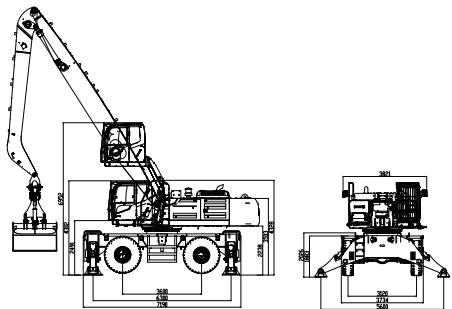
SMHW80



Product Parameters

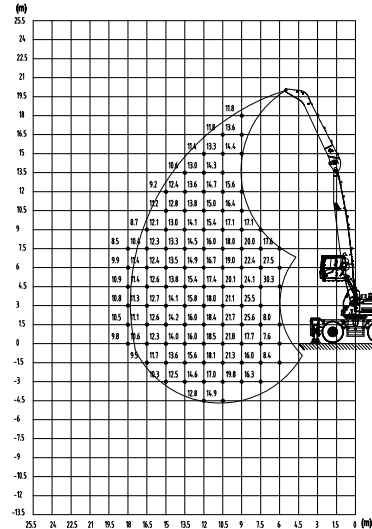
Technical Parameter					Configuration Parameter															
ITEM			UNIT	SMHW80	CONFIGURATION		UNIT	SMHW80												
Power System	Engine	Model		-	Deutz D09S3T9	Slewing Gear	Max. Rotating Speed	rpm	8											
		Rated power		kw/rpm	260/2000															
		Torque		Nm/rpm	1530/1200-1400	Cabin	Cabin Lift Height	mm	2650											
		Emission		-	EU Stage III															
		Oil Tank Capacity		L	600															
	E-Motor	Model		-	-	Basic Parameters	Boom Configuration	m	18	22	24									
		Rated Capacity		kW/rpm	-				m	Boom 10.5	Boom 12.5	Boom 13								
		Input Voltage		V,Hz	-			m		Stick 7.5	Stick 10	Stick 11								
Type Of Start		-	-	Max. Operating Radius	m				18	22	24									
Chassis System	Track Width		mm	3120	Max. Operating Height			m	18	21	23									
	Wheel Base		mm	3600								Max. Operating Depth	m	-4.5	-7.5	-9				
	Support Width(lengthways)		mm	6300			Max. Operating Radius (Grab Not Included)										t	10.5	8.1	6.4
	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	Rated Flow	L/min	2×400																
	Max. System Pressure		MPa	34																
	Hydraulic Oil Tank		L	500																

Dimensions

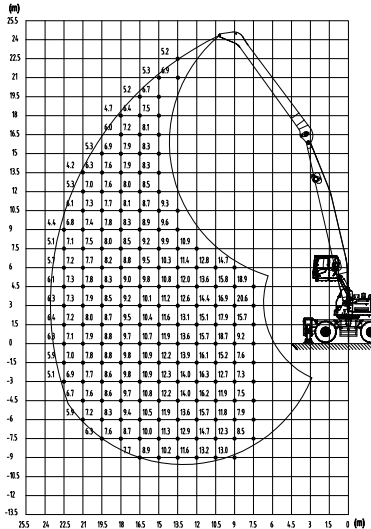


Scope Of Work

SMHW80 Lift capacities of material handler
(Boom10.5m, Stick7.5m, Unit:t)



SMHW80 Lift capacities of material handler
(Boom13m, Stick11m, Unit:t)



- 9t grab, 30s cycle, 800t/h output
- 13m depth, 23m height, 24m radius
- Energy recovery, 20% savings
- Agile wheeled chassis

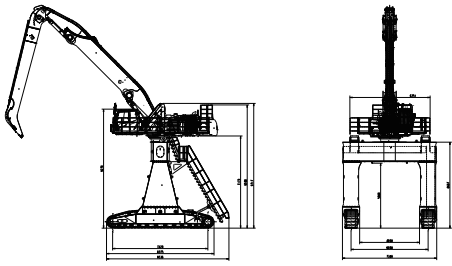
SMHC100



► Product Parameters

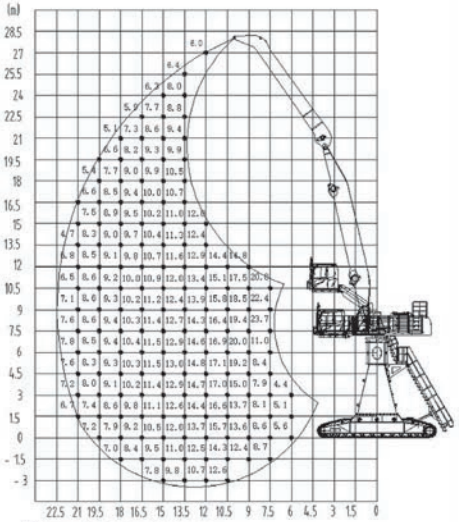
Technical Parameter					Configuration Parameter					
ITEM			UNIT	SMHC100	CONFIGURATION		UNIT	SMHC100		
Power System	Engine	Model	-	Deutz D09S3T9	Traveling Gear	Working Gauge	mm	6000		
		Rated Power	kw/rpm	260/2000		Wheel Base	mm	7420		
		Torque	Nm/rpm	1530/1200-1400		Track Width	mm	950		
		Emission	-	EU Stage III		Max.Travelling Speed	km/h	3		
		Oil Tank Capacity	L	600		Slewing Gear	Max. Rotating Speed	rpm	8	
	E-Motor	Model	-	-	Cabin	Cabin Lift Height	mm	3200		
		Rated Capacity	kW/rpm	-		Boom Configuration	m	18	18	22
		Input Voltage	V/Hz	-			m	Boom 10.5	Boom 12.5	Boom 14.5
Hydraulic System	Type Of Control		-	Electronically Controlled Positive Flow System	Basic Parameters	m	Stick 7.5	Stick 10	Stick 11	
	Main Pump	Rated Flow	L/min	2×400		Max. Operating Radius	m	18	22	24
	Max. System Pressure		MPa	34		Max. Operating Height	m	24	27	29
	Hydraulic Oil Tank		L	500		Max. Operating Depth	m	0	-3	-5
						Max. Operating Radius (Grab Not Included)	t	9.0	7.5	5.0

► Dimensions



► Scope Of Work

SMHC100 Lift capacities of material handler
(Boom10.5m, Stick7.5m, Unit:t)



- 9t grab, 30s cycle, 800t/h
- Energy-saving with regen & simulation
- 13m depth, 23m height, 24m reach
- Gantry chassis for rail yards

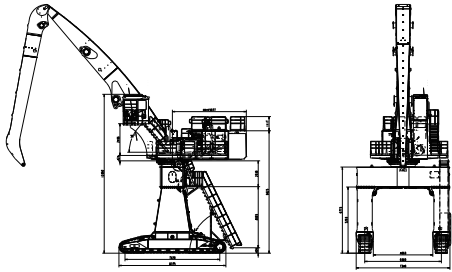
SMHC160



Product Parameters

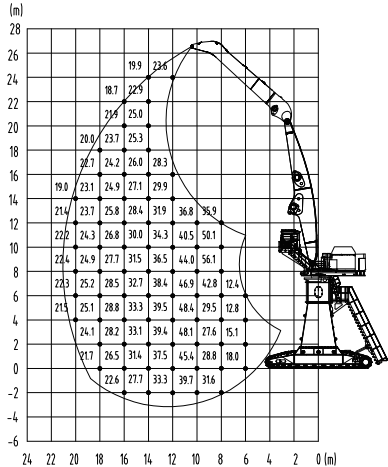
Configuration Parameter					Configuration Parameter					
ITEM			UNIT	SMHC160	CONFIGURATION		UNIT	SMHC160		
Power System	Engine	Model	-	Deutz D09S3T9A*2	Slewing Gear	Max. Rotating Speed	rpm	5		
		Rated power	kw/rpm	2*235/2000						
		Torque	Nm/rpm	2*1450/1200~1400	Cabin	Cabin Lift Height	m	Fixed Height increase2.3		
		Emission	-	Stage III /CN-4						
		Oil Tank Capacity	L	2200						
Chassis	Track Width		mm	6000	Basic Parameters	Boom Configuration	m	22	26	
	Wheel Base		mm	7420			m	Boom 12	Boom 14.5	
	Support Width (lengthways)		mm	8375			m	Stick 10	Stick 12	
	Support Width (crosswise)		mm	7340			Max. Operating Radius (Excluding Spreader)	m	20	24
	Turning Radius		mm	/						
	Max. Travelling Speed		km/h	3						
Hydraulic System	Type Of Control		-	Fully Electronically Controlled Positive Flow System	Basic Parameters	Max. Operating Depth (Excluding Spreader)	m	-3	-7	
	Main Pump	Rated Flow	L/min	1450		Max. Operating Radius (Grab Not Included)	t	21	13	
	Maximum System Pressure		MPa	35						
	Hydraulic Oil Tank		L	1100						

Dimensions

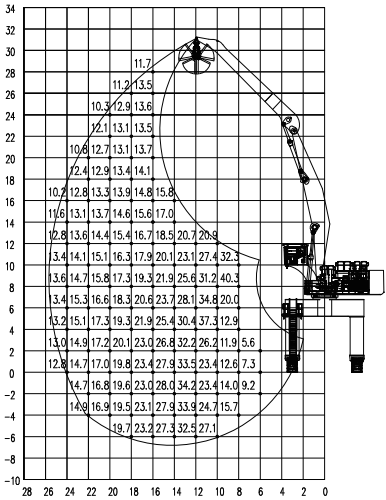


Scope Of Work

SMHC160 Lift capacities of material handler
(Boom12m, Stick10m, Unit:t)



SMHC160 Lift capacities of material handler
(Boom 14.5m, Stick12m, Unit:t)



- 13t grab, 30s cycle, 800t/h
- Energy recovery, 20% savings, 60-80L/h
- 24m radius with K22/K26 boom
- Gantry crawler chassis, 40% gradient

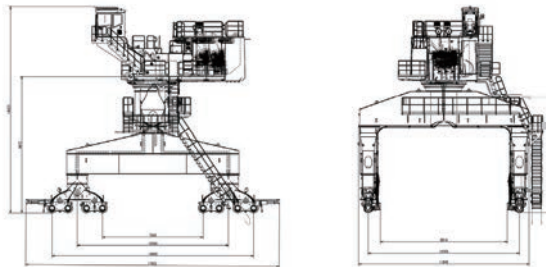
SMHR200



Product Parameters

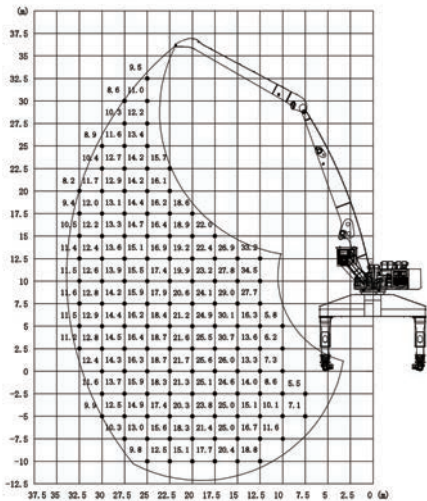
Configuration Parameter				Configuration Parameter			
ITEM		UNIT	SMHR200	CONFIGURATION		UNIT	SMHR200
Power System	Engine	Model	-	Traveling Gear	Working Gauge	mm	10500
		Rated power	kw/rpm		Wheel Base	mm	10500
		Torque	Nm/rpm		Max.Travelling Speed	km/h	2
		Emission	min		Slewing Bearing	-	Sany
	E-Moto	Fuel Tank	L	Slewing Gear	Max.Rotating Speed	rpm	5
		Model	-		Cabin Lift Height	mm	2300
		Rated Capacity	kW/rpm	Basic Parameters	Boom Configuration	m	3135
		Input voltage	V/Hz			m	Boom 1619.5
Hydraulic System	Type Of Control		-			m	Stick 1516
	Main Pump	Model	-		Max. Operating Radius	m	3032.5
		Rated Flow	L/min		Max. Operating Height	m	32.536
	Main Valve		-		Max. Operating Depth	m	-10-12
	Reducer		-		Max. Operating Radius (Grab Not Included)	t	9.211.3
	Boom Cylinder		-				
	Stick Cylinder		-				
	Max.System Pressure		MPa				
	Hydraulic Oil Tank		L				

Dimensions



Scope Of Work

SMHR200 Lift capacities of material handler
(Boom19.5m, Stick16m, Unit:t)



Efficiency:

- Load capacity can be more than 11.3 tons when 32.5m in horizon , 45 seconds when turn 90 degrees to operate in one working cycle , the average efficiency can reach 700 tons per hour.

Energy saving:

- Energy recovery system, saving energy efficiency 15% ,electrical control positive flow system, energy consumption reduce 5% ,comprehensive operation consumption about 60~80 Litre per hour.

Reliable:

- Suit for -45℃~+45℃ working condition,dynamic anti-tipping over protection and bracket protection against falling and loosening,automatic circular fire extinguishing system in engine room.

► Introduction to the New Generation Material Handler Cab

Aesthetics and Comfort



Orange-peel Grab

- Rocker switches have been replaced with push-button switches.
- One-touch start, cup holder, and emergency stop integrated into right armrest console.

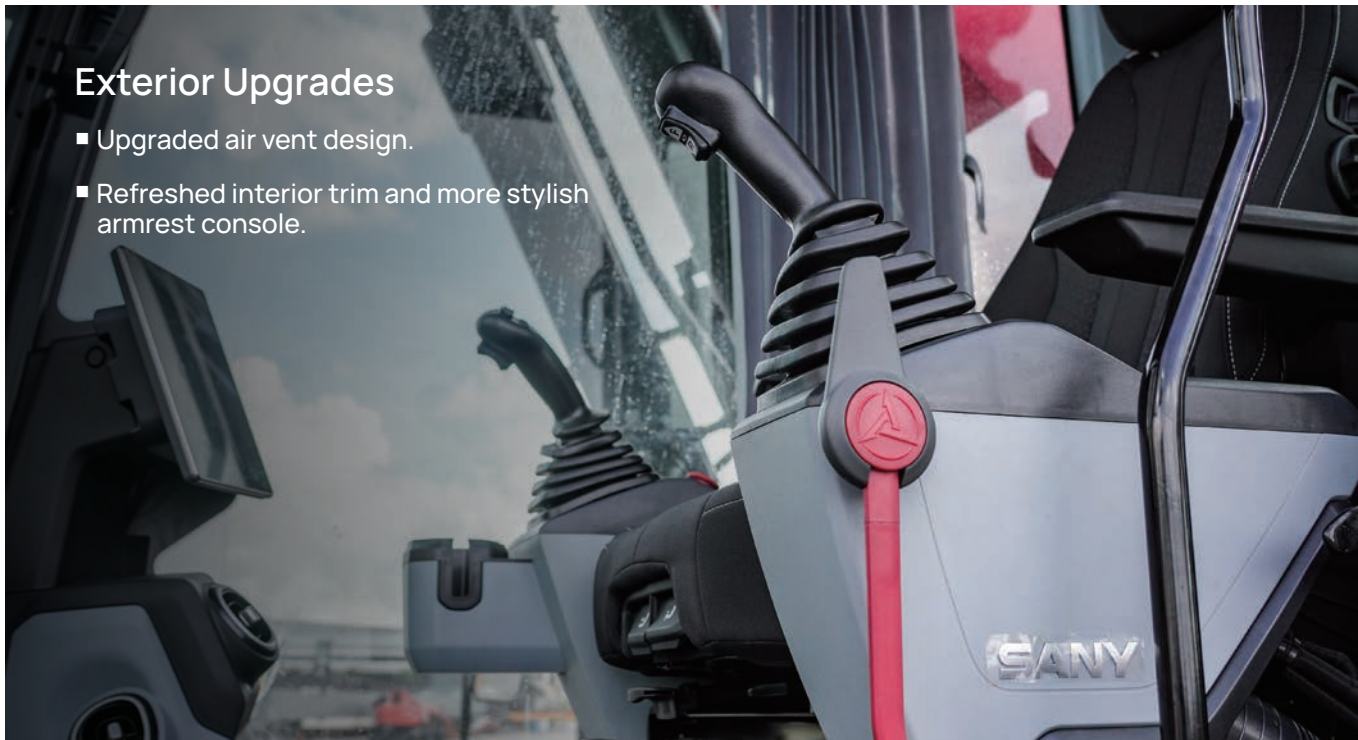


Comfort Enhancements

- Standard electro-controlled air suspension heated seat
- Standard right-side roll-up curtain and front sunshade.

Exterior Upgrades

- Upgraded air vent design.
- Refreshed interior trim and more stylish armrest console.



Control System Updates

- Independent 10-inch touchscreen display
- Integrated controls for Bluetooth phone, music, radio, and AC
- Configurable camera display interface with four viewing modes
- Independent power supply for cab and upper platform with self-diagnosis
- Integrated controller for ignition switch and throttle knob
- EVI System



Overall Exterior Design



► 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)	30	30



► 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)	30	30	30	30	30



► 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



Magnetic plate

► Construction Cases



Construction Cases (Inland Port)



Construction Cases (Rail Yard)



► Construction Cases (Cargo)



36T



48T



200T

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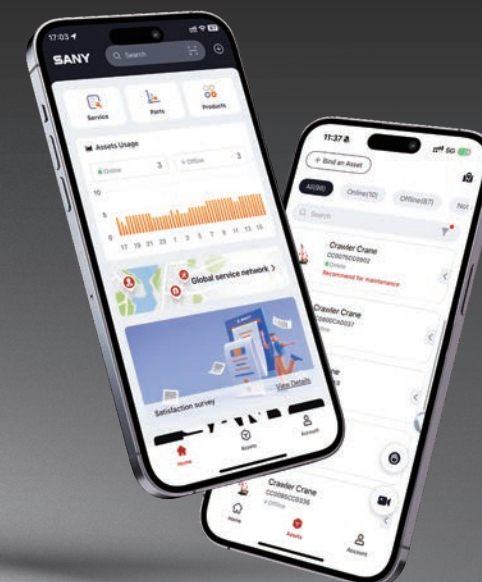


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