

# Solmec



**100 LS**

200 ESC

300 ESC

400 ESC

500 ESC



## HANDLING MACHINE SERIES 100 LS (Load Sensing)

Solmec handling machines are designed and built using the best materials and components available on the market in order to guarantee reliability, performances, safety, and high residual value.

Each machine is an innovation that reinterprets the previous model and that improves its technical features.

The 100 series involves three versions. The first has a 4 m gooseneck boom and a telescopic stick, very useful to work in close and limited spaces. The second has a 5 m gooseneck boom and an industrial straight stick with a large reach. The third has a selector arm as stick, perfect to work on waste selecting and recycling. While planning this series 100 LS, preference was given to obtain machines with small running costs. Big productivity, maximum reliability, together with little fuel consumption, make of these handling machines, the most profitable of the category.

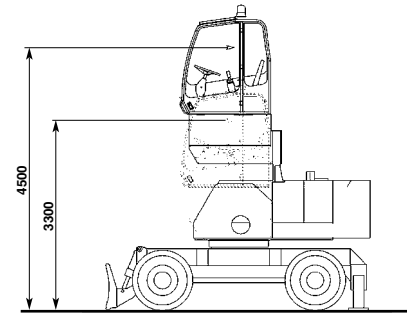
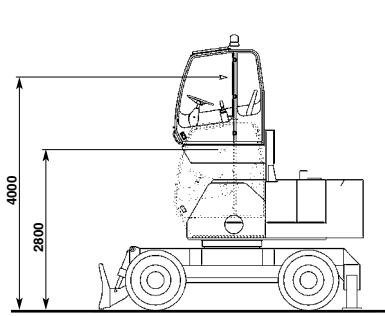


**The engine cover:** easy access to the engine and components simplifies servicing.

**Undercarriage** with large double rows ball bearing slew ring, and ballast blocks fitted on the centre of the frame to drop the centre of gravity, increasing the stability of the machine in any working condition.

**Operators cabin with hydraulic vertical elevation** has a 4 m high reach (operator's eye), and permits always a safety distance of the load content in the grab.

It is possible, on request, to fit a 50 cm fixed extension to increase visibility and permit the operator's eye to reach 4,5 m.



**Nitrogen charged accumulators** increase movements fluidity and operator's comfort.

**Centralized automatic greasing system** to make service operations easier (as option).

**Large radiators**, fitted side by side, built of aluminium with coarse-mesh to allow a better temperature exchange avoiding occlusion of air passages.



**Operators cabin** with big windows for a better visibility, and a sprung seat with 10 regulation modalities, and ergonomic controls. On request it is possible to fit a front window screen or a total protection of the cab.

**Halogen working lights** and the rotating orange light fitted on the top of the cab guarantee a good visibility also during the darker hours of the day. It is possible, as option, to fit extra working lights on stick and on the counterweight to increase visibility.





## COMFORT SERIE 100 LS (Load Sensing)

The clear visual **instrumentation panel** allows monitoring of all machines functions: diesel engine, hydraulic system, liquids levels and temperatures. There are also controls dedicated to auxiliary functions and for light warnings that advise the operator when air or hydraulic oil filters are congested, or when the machine reaches stability level, or the working situation of other fitted implements.



**Dashboard**

### Operator comfort

Well-Sprung, extra large seat, with 10 regulation modalities, safety seat belt with winding mechanism, adjustable arms, and headrest. In addition, an integrated safety device to turn on machine controls only when the operator is in driving position and the safety arm rest is in the down position.

### Air Conditioner

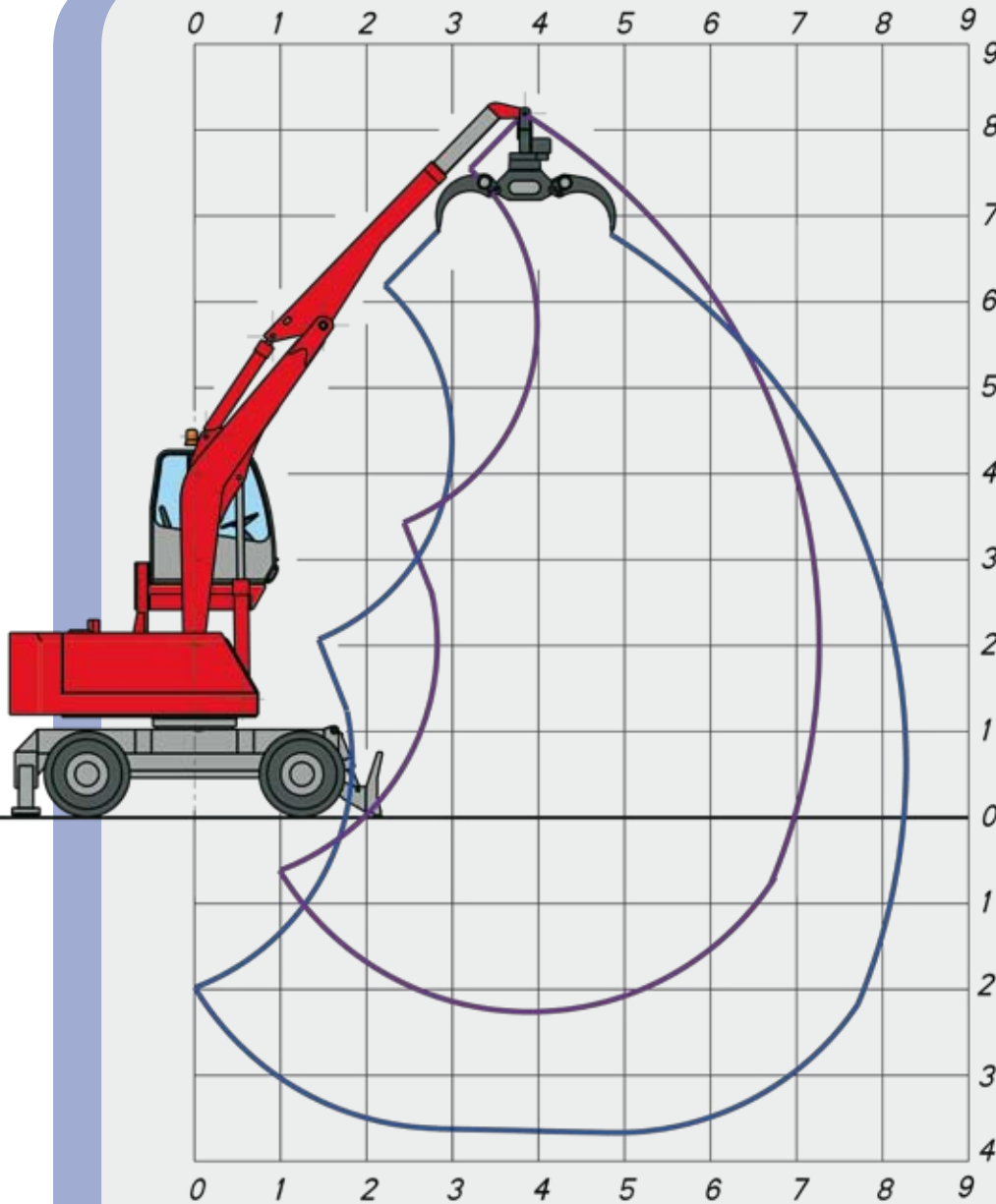
As option, air conditioned with 5 vents to cool the air in the cab and to dehumidify it, avoiding windows steaming up. Heating winter and summer ventilation device are standard fitted.



The new 100 LS series can stand up to any comparison

# 108 LS

All technology at operator's service



## WORKING DIAGRAM FOR LOGS' HANDLING

**Gooseneck boom  
4.00 m**













**Telescopic stick  
2.50 m - 3.40 m**

### SUGGESTED GRABS FOR LOGS

MODEL	WITH CROSSED TEETH		WITH SIMPLE CLOSING TEETH	
	SR 190	SHU 420	S 1800	SR 53 LE
OPENING (m)	1,90	2,10	1,80	1,96
AREA (m <sup>2</sup> )	0,40	0,42	0,60	0,60
WEIGHT WITHOUT ROTATOR (kg)	405	320	800	620

## LIFTING CAPACITIES TONS

LIFTING RANGE (m)

HEIGHT CONFIGURATION		3.0			4.0			5.0			6.0		
7.3	METRES												
6.0	○○							3,55*	3,55*	3,09	3,63*	3,45	2,59
	┌┐							3,55*	3,55*	3,09	3,63*	3,63*	3,16
4.5	○○				4,59*	4,59*	3,99	3,65*	3,65*	3,18	3,53*	3,47	2,60
	┌┐				4,59*	4,59*	3,99	3,65*	3,65*	3,18	3,53*	3,53*	3,07
3.0	○○	6,64*	6,64*	5,78	4,60*	4,60*	4,00	4,09*	4,09*	3,31	3,74*	3,37	2,53
	┌┐	6,64*	6,64*	5,78	4,60*	4,60*	4,00	4,09*	4,09*	3,56	3,74*	3,74*	3,25
1.5	○○	7,34*	7,34*	6,38	5,61*	5,61*	4,30	4,65*	4,19	3,15	4,03*	3,25	2,44
	┌┐	7,34*	7,34*	6,38	5,61*	5,61*	4,88	4,65*	4,65*	4,04	4,03*	4,03*	3,50
0	○○	8,44*	8,17	6,13	6,26*	5,42	4,06	5,01*	4,01	3,01	4,17*	3,15	2,36
	┌┐	8,44*	8,44*	7,34	6,26*	6,26*	5,45	5,01*	5,01*	4,36	4,17*	4,17*	3,63
-1.5	○○	8,19*	8,00	6,00	6,17*	5,30	3,97	4,84*	3,93	2,95	3,75*	3,12	2,34
	┌┐	8,19*	8,19*	7,13	6,17*	6,17*	5,36	4,84*	4,84*	4,21	3,75*	3,75*	3,26

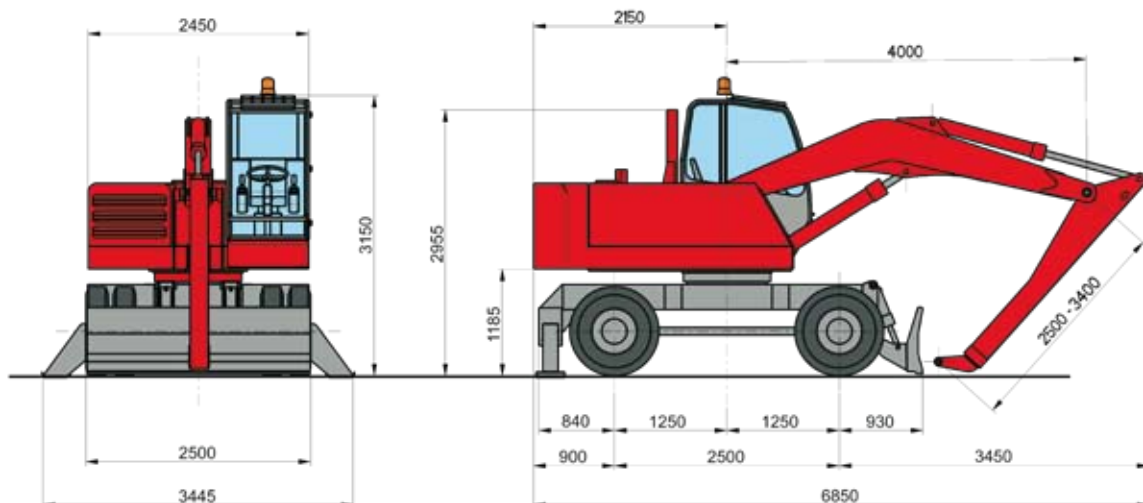
-  LIFTING CAPACITIES ON LONGITUDINAL AXIS
-  LIFTING CAPACITIES ON 360° WITHOUT SAFETY FACTOR
-  LIFTING CAPACITIES ON 360° ACCORDING WITH ISO 10567 STANDARD

\* = HYDRAULIC LIMIT

LIFTING CAPACITIES ARE ON HOOK WITHOUT GRABS, MACHINE STATIC, LEVEL SOLID GROUND, WITH AXLE LOCKED.

OPERATING WEIGHT WITH BLADE, OUTRIGGERS, FULL RUBBER TYRES, BOOM 4.00 m, TELESCOPIC STICK, SR190 GRAB WITH ROTATOR.

## DIMENSIONS

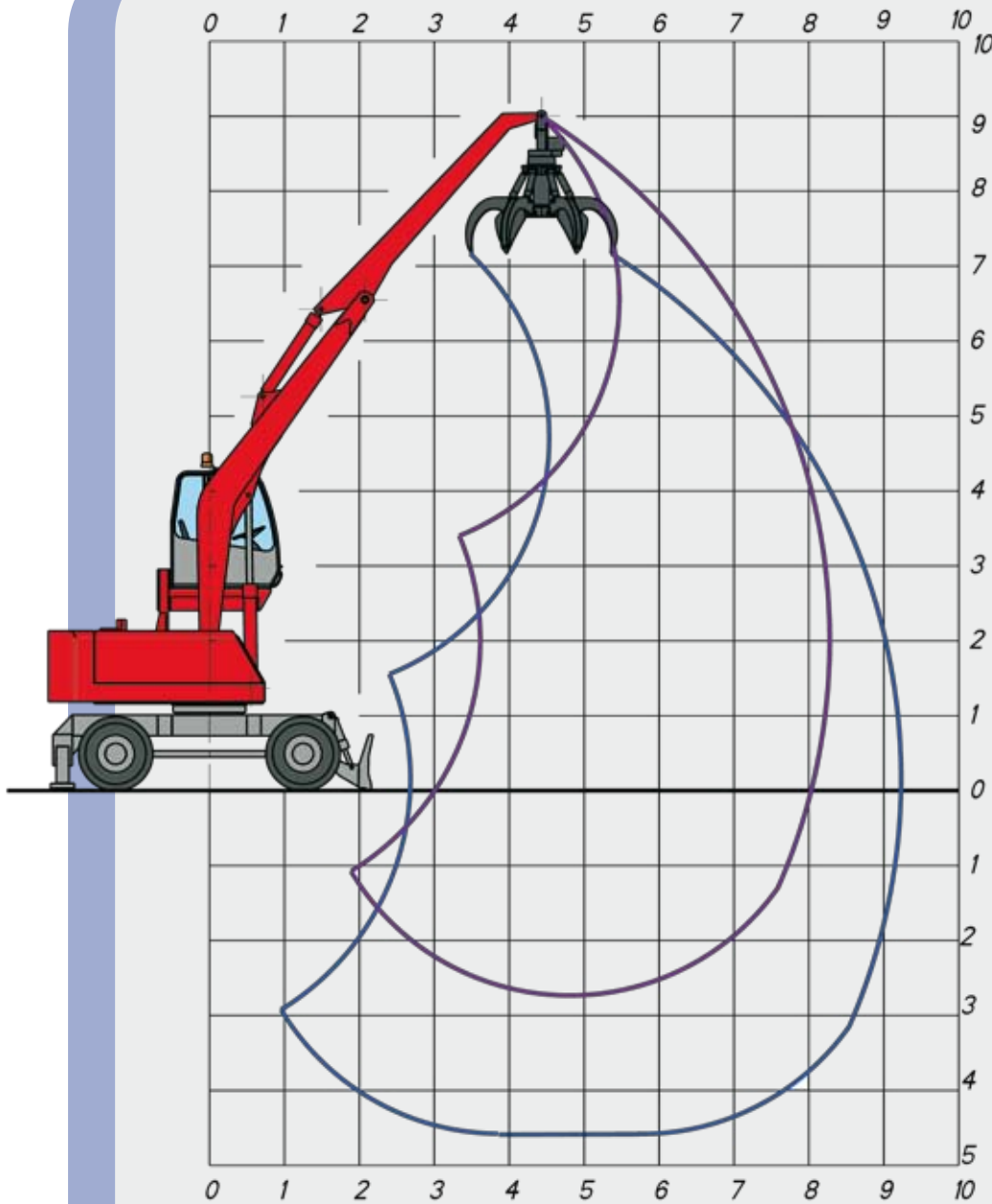


OPERATING WEIGHT 16.500 KG

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## WORKING DIAGRAM FOR SCRAP HANDLING

**Gooseneck boom  
5.00 m**

**Industrial stick  
3.40 m**




























### SUGGESTED ORANGE PEEL GRABS


MODEL	FOR SCRAP			FOR WASTE
	SG 405	SRV 325	SRC 356	SR 565
OPENING (m)	1,90	1,70	1,80	2,00
CAPACITY (l)	400	320	350	560
WEIGHT WITHOUT ROTATOR (kg)	525	560	690	600



## LIFTING CAPACITIES TONS

LIFTING RANGE (m)

HEIGHT CONFIGURATION		4.0			5.0			6.0			7.0			8.0					
8.3																			
6.0																			
																			
4.5																			
																			
3.0					4,03*	4,03*	3,26	3,55*	3,55*	2,52	3,22*	2,70	2,02	2,92	2,21	1,66			
					4,03*	4,03*	3,50	3,55*	3,55*	3,09	3,22*	3,22*	2,80	2,99*	2,99*	2,60			
1.5		5,69*	5,50	4,13	4,57*	4,09	3,07	3,87*	3,21	2,40	3,40*	2,60	1,95	2,87	2,16	1,62	2,74	2,06	1,55
		5,69*	5,69*	4,95	4,57*	4,57*	3,97	3,87*	3,87*	3,37	3,40*	3,40*	2,96	3,04*	3,04*	2,64	2,93*	2,93*	2,53
0		6,17*	5,22	3,91	4,90*	3,90	2,92	4,07*	3,08	2,31	3,49*	2,53	1,90	2,84	2,13	1,60			
		6,17*	6,17*	5,36	4,90*	4,90*	4,26	4,07*	4,07*	3,54	3,49*	3,49*	3,03	2,93*	2,93*	2,55			
-1.5		6,06*	5,11	3,83	4,85*	3,81	2,86	3,99*	3,03	2,27	3,28*	2,50	1,88						
		6,06*	6,06*	5,27	4,85*	4,85*	4,22	3,99*	3,99*	3,48	3,28*	3,28*	2,86						

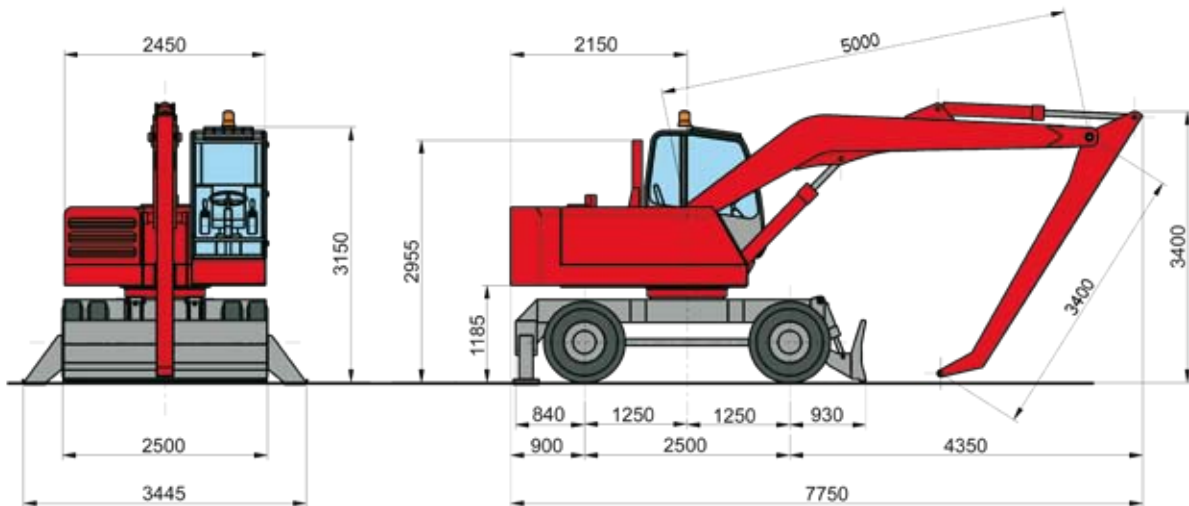
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-  LIFTING CAPACITIES ON 360° WITHOUT SAFETY FACTOR
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\* = HYDRAULIC LIMIT

LIFTING CAPACITIES ARE ON HOOK WITHOUT GRABS, MACHINE STATIC, LEVEL SOLID GROUND, WITH AXLE LOCKED.

OPERATING WEIGHT WITH BLADE, OUTRIGGERS, FULL RUBBER TYRES, BOOM 5.00 m, INDUSTRIAL STICK 3.40 m, SRC 356 ORANGE PEEL GRAB WITH ROTATOR.

## DIMENSIONS

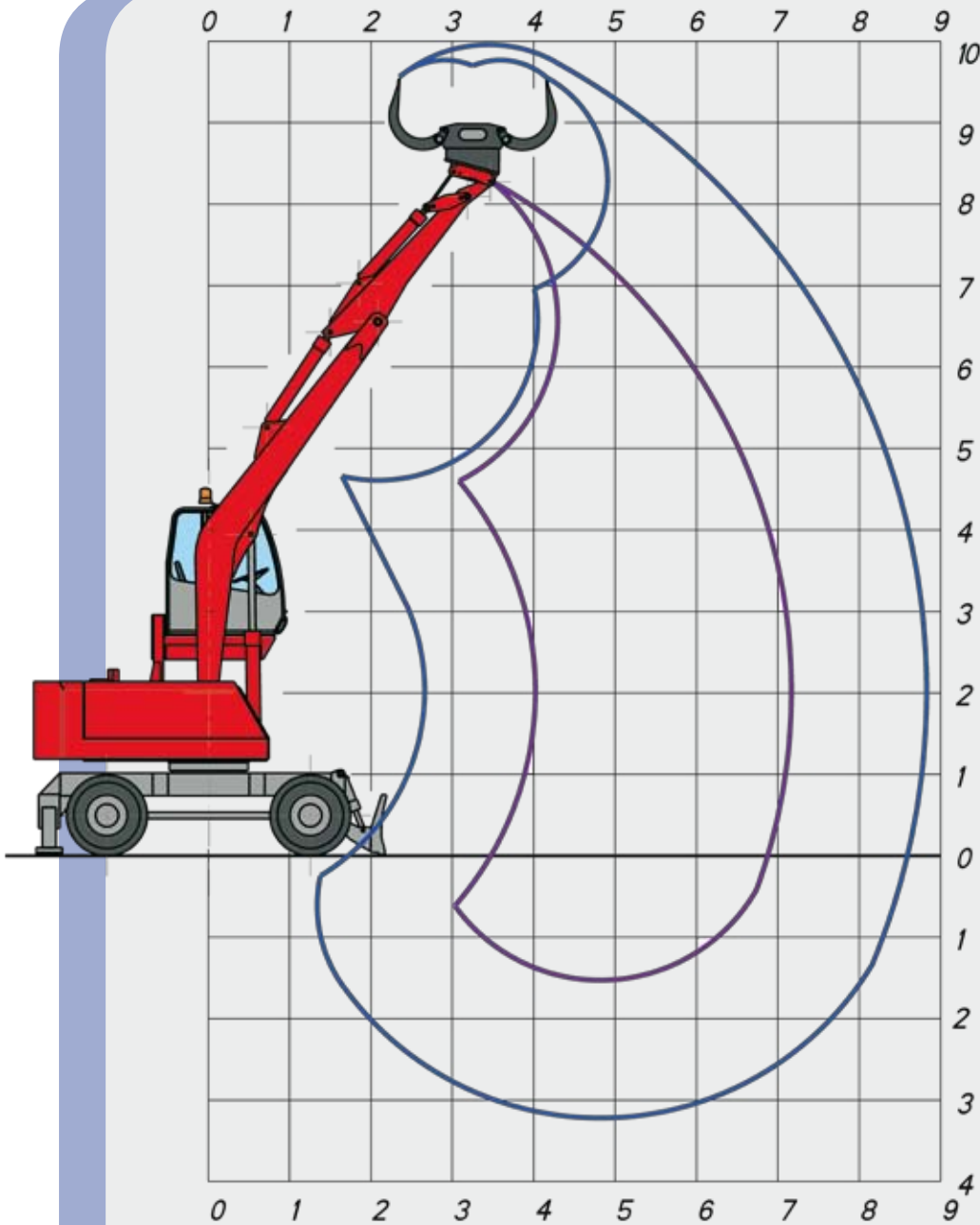


OPERATING WEIGHT 17.400 KG

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# 108 LS

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## WORKING DIAGRAM FOR WASTE SELECTION

**Gooseneck boom  
5.00 m**













**Selector arm  
2.20 m**

### SELECTOR GRABS

MODEL	SRS 500
OPENING (m)	1,80
CAPACITY (l)	500
WEIGHT WITHOUT ROTATOR (kg)	990

## LIFTING CAPACITIES TONS

LIFTING RANGE (m)

HEIGHT CONFIGURATION		4.0			5.0			6.0			7.0		
													
7.0	○○				<b>3,46*</b>	<b>3,46*</b>	2,784						
	┘┘				<b>3,46*</b>	<b>3,46*</b>	3,01						
6.0	○○				<b>3,33*</b>	<b>3,33*</b>	2,81						
	┘┘				<b>3,33*</b>	<b>3,33*</b>	2,90						
5.0	○○	<b>3,75*</b>	<b>3,75*</b>	3,26	<b>3,43*</b>	<b>3,43*</b>	2,77	<b>3,24*</b>	2,92	2,19			
	┘┘	<b>3,75*</b>	<b>3,75*</b>	3,26	<b>3,43*</b>	<b>3,43*</b>	2,99	<b>3,24*</b>	<b>3,24*</b>	2,82			
4.0	○○	<b>4,19*</b>	<b>4,19*</b>	3,53	<b>3,65*</b>	<b>3,60</b>	2,70	<b>3,32*</b>	<b>2,88</b>	2,16			
	┘┘	<b>4,19*</b>	<b>4,19*</b>	3,64	<b>3,65*</b>	<b>3,65*</b>	3,17	<b>3,32*</b>	<b>3,32*</b>	2,89			
3.0	○○	<b>4,81*</b>	<b>4,81*</b>	3,50	<b>3,93*</b>	<b>3,51</b>	2,63	<b>3,46*</b>	<b>2,81</b>	2,11	<b>3,05</b>	2,32	1,74
	┘┘	<b>4,81*</b>	<b>4,81*</b>	4,18	<b>3,93*</b>	<b>3,93*</b>	3,42	<b>3,46*</b>	<b>3,46*</b>	3,01	<b>3,16*</b>	<b>3,16*</b>	2,75
2.0	○○	<b>5,42*</b>	<b>4,71</b>	3,53	<b>4,21*</b>	<b>3,44</b>	2,58	<b>3,58*</b>	<b>2,75</b>	2,06	<b>3,02</b>	<b>2,29</b>	1,72
	┘┘	<b>5,42*</b>	<b>5,42*</b>	4,72	<b>4,21*</b>	<b>4,21*</b>	3,66	<b>3,58*</b>	<b>3,58*</b>	3,12	<b>3,17*</b>	<b>3,17*</b>	2,76
1.0	○○	<b>5,78*</b>	<b>4,76</b>	3,57	<b>4,41*</b>	<b>3,41</b>	2,56	<b>3,66*</b>	<b>2,70</b>	2,03	<b>3,00</b>	<b>2,26</b>	1,70
	┘┘	<b>5,78*</b>	<b>5,78*</b>	5,03	<b>4,41*</b>	<b>4,41*</b>	3,83	<b>3,66*</b>	<b>3,66*</b>	3,18	<b>3,12*</b>	<b>3,12*</b>	2,72
0	○○	<b>5,77*</b>	<b>4,76</b>	3,57	<b>4,42*</b>	<b>3,39</b>	2,54	<b>3,57</b>	<b>2,68</b>	2,01			
	┘┘	<b>5,77*</b>	<b>5,77*</b>	5,02	<b>4,42*</b>	<b>4,42*</b>	3,85	<b>3,62*</b>	<b>3,62*</b>	3,15			

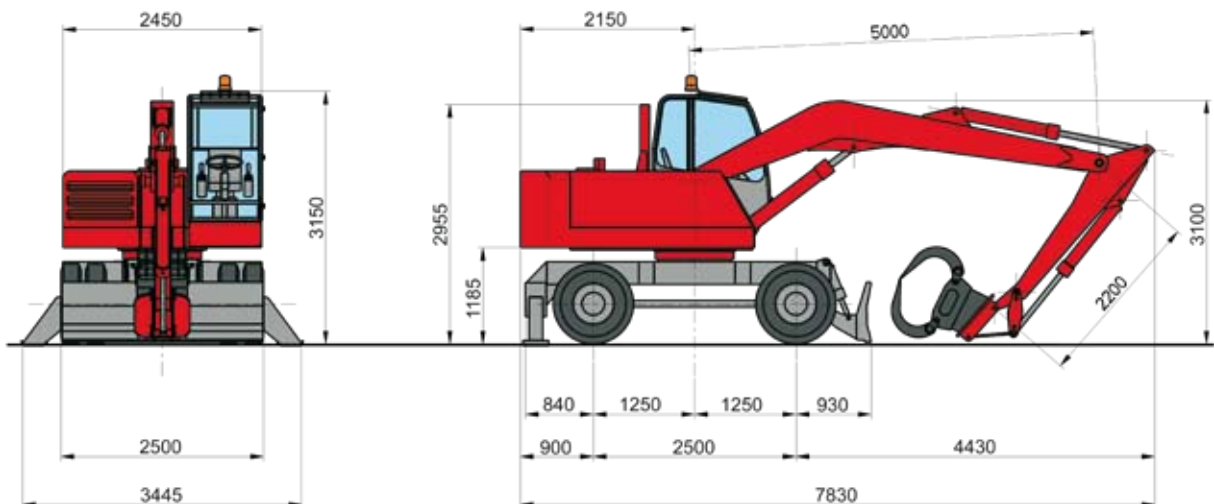
-  LIFTING CAPACITIES ON LONGITUDINAL AXIS
-  LIFTING CAPACITIES ON 360° WITHOUT SAFETY FACTOR
-  LIFTING CAPACITIES ON 360° ACCORDING WITH ISO 10567 STANDARD

\*= HYDRAULIC LIMIT

LIFTING CAPACITIES ARE ON HOOK WITHOUT GRABS, MACHINE STATIC, LEVEL SOLID GROUND, WITH AXLE LOCKED.

OPERATING WEIGHT WITH BLADE, OUTRIGGERS, FULL RUBBER TYRES, BOOM 5.00 m, SELECTOR ARM 2.20 m, SRS 500 SELECTOR GRAB.

## DIMENSIONS

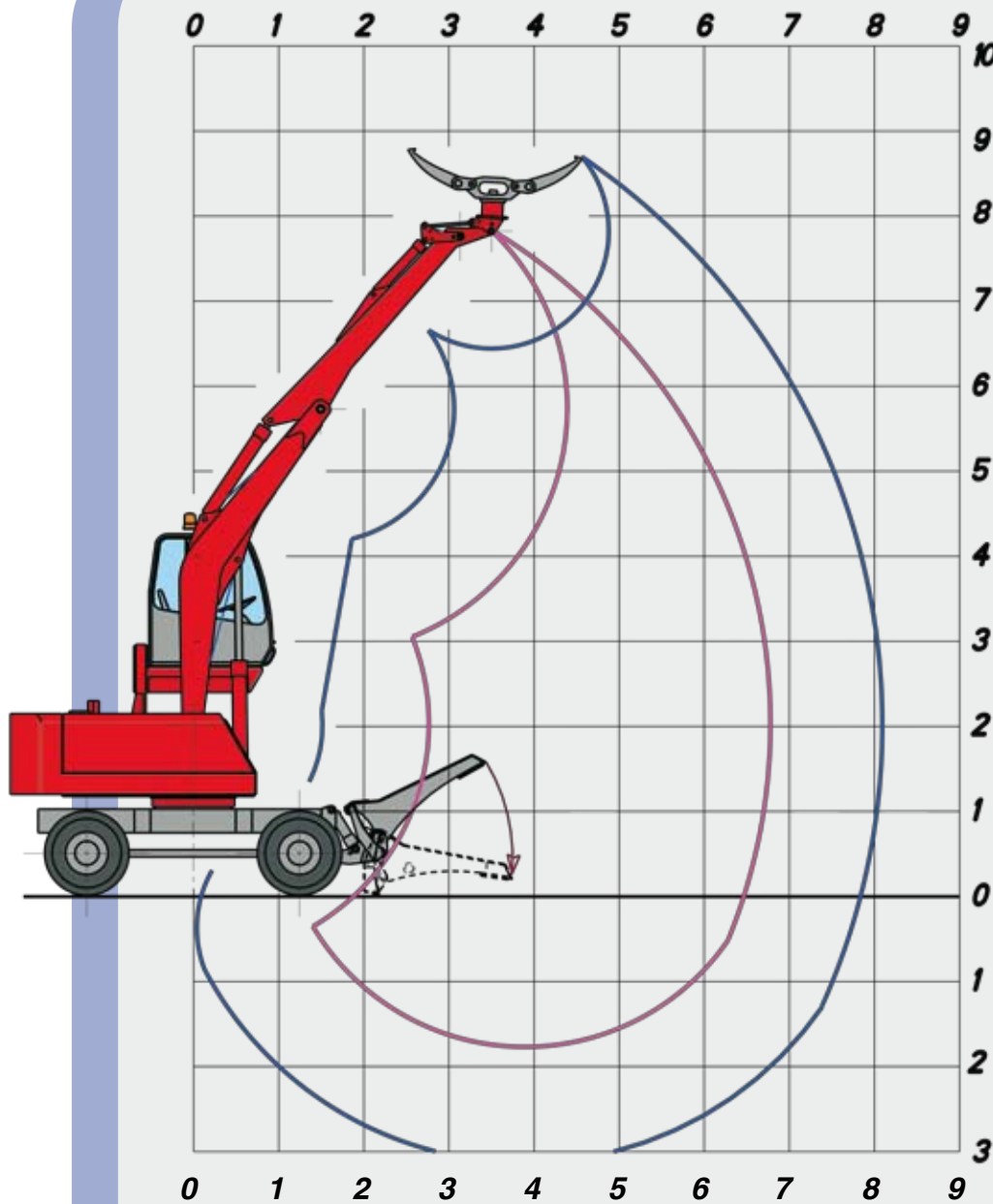


OPERATING WEIGHT 17.200 KG

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## WORKING DIAGRAM FOR CAR DISMANTLING

**Gooseneck boom**  
4.00 m

**Selector Arm**  
2.90 m

## ENGINE REMOVAL GRAB

MODEL	SR 58
OPENING (m)	1810
TINE FORCE (daN)	1900
WEIGHT WITHOUT ROTATOR (kg)	260

## LIFTING CAPACITIES TONS

LIFTING RANGE (m)

HEIGHT	CONFIGURATION	3.0			4.0			5.0			6.0					
6.0	○○							3,39*	3,39*	2,761						
	⊥ℓ							3,39*	3,39*	2,95						
4.5	○○							3,41*	3,41*	2,75	3,36*	2,90	2,18			
	⊥ℓ							3,41*	3,41*	2,96	3,36*	3,36*	2,92			
3.0	○○				4,13*	4,13*	3,45	3,75*	3,55	2,66	3,48	2,85	2,14			
	⊥ℓ				4,13*	4,13*	3,59	3,75*	3,75*	3,26	3,48*	3,48*	3,03			
1.5	○○	6,57*	6,52	4,89	4,98*	4,48	3,36	4,15*	3,42	2,56	3,67*	2,78	2,08	3,14*	2,41	1,81
	⊥ℓ	6,57*	6,57*	5,72	4,98*	4,98*	4,33	4,15*	4,15*	3,61	3,67*	3,67*	3,19	3,14*	3,14*	2,73
0	○○	7,55*	6,74	5,06	5,49*	4,44	3,33	4,39*	3,36	2,52	3,64*	2,72	2,04			
	⊥ℓ	7,55*	7,55*	6,57	5,49*	5,49*	4,78	4,39*	4,39*	3,82	3,64*	3,64*	3,17			
-1.5	○○				4,21*	4,21*	3,66									
	⊥ℓ				4,21*	4,21*	3,66									

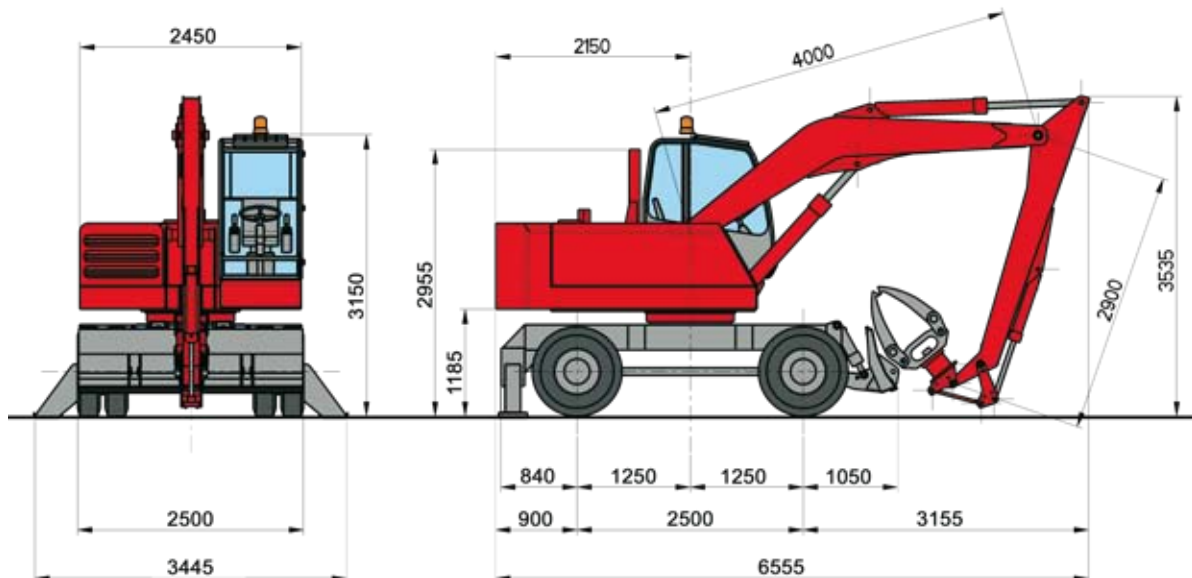
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OPERATING WEIGHT WITH BLADE, OUTRIGGERS, FULL RUBBER TYRES, BOOM 4.00 m, SELECTOR ARM 2.90 m, SR 58 ENGINE REMOVAL GRAB.

## DIMENSIONS



OPERATING WEIGHT 15.800 KG

## TECHNICAL DATA

<b>ENGINE</b>	<p>Model: DEUTZ  Displacement: 4000 cc  N° Cylinder: 4  Aspiration: turbo  Power: 101 HP (74 kW)  Rating: 2300 rpm  Maximum torque: 374 Nm @ 1500 rpm  Voltage: 12 V  Fuel tank capacity: 220 l</p>
<b>HYDRAULIC SYSTEM</b>	<p>Open "LOAD SENSING" circuit constituted by a variable displacement axial pump, with automatic flow setting, connected to the Diesel engine, feeding a distributor block composed by 7 elements, with high pressure control valves and anti-choc valves on each element.  Max flow: 163 litres/mn  Operating pressure: 265 bar/26500 kPa.  Hydraulic tank capacity: 200 l  Hydraulic system capacity: 250 l  Totally aluminium large mesh oil heat exchanger combined with engine radiator.  Two additional pumps for the auxiliary functions.</p>
<b>TRAVEL</b>	<p>Hydrostatic with 2 or 4 wheel drive.  CLARK-HURT axle with gear box fitted directly on rear axle.  Working speed: 5 km/h  Travel speed: 12 km/h  Different axles with planetary reduction gears on the hubs.</p>
<b>SWING DRIVE</b>	<p>On a high resistance double row ball bearing ring with internal teeth. Unlimited rotation in both directions by means of a radial piston hydraulic motor keyed to a double stage reduction gear with oil bath gears. Anti-shock and brake valves protect the system. Max swing speed: 9 rpm.</p>
<b>BRAKES</b>	<p>SERVICE: Operating on the wheel drive, using the braking characteristic of the hydrostatic circuit of the translation.  PARKING AND EMERGENCY BRAKES: Oil bath multi-disk type brake mounted on rear axles, electro-hydraulically released.</p>
<b>DRIVE</b>	<p>DANFOSS hydraulic steering system powered by an independent pump.  System incorporates a pre-calibrated safety valve.  The floating steering axle can be hydraulically locked from the cabin in any position.</p>
<b>TYRES</b>	<p>Nr 8 "Superelastic" full rubber tyres with rubber spacer rings  On request twinned tyres</p> <p style="text-align: right;">9.00x20  9.00x20 - 14P.R.</p>
<b>OPERATOR'S CAB AND CONTROLS</b>	<p>Driver's cab installed on silent block with large windows of tinted, heat resistant safety glass. Front sliding windows can be stored overhead. Rear opening window. Winter heating and summer ventilation installed as standard; on request can be installed an air conditioning system. "Operator inside" detector is located on the left arm and inside the seat. "GRAND CONFORT" adjustable operator's seat in its entirety with hydraulic joysticks incorporated in its arms to control the four main movements; each joystick incorporate electric push button for rotating grab, telescopic extension of the jib, outriggers, and blade. Electro-hydraulic devices for controlling gear box, parking brakes, hydraulic raising of the cab, front axle oscillation lock. Digital and analogical instruments for checking all the functions as fuel level, engine temperature, hour counter, engine speed indicator, ecc...</p>
<b>OVERLOAD WARNING DEVICE</b>	<p>(EEC Directives 98/37)  In accordance with EEC Directives 98/37 this device provides to check the crane stability while loading in accordance with loads and distances. When the stability limits are reached, acoustical and optical warning advise danger conditions before the automatic lock of movements.</p>
<b>SOUND LEVELS</b>	<p>SOUND LEVELS (Dir 2000/14/CE)  Inside cab LpA 76 dB (A)</p>
<b>ELECTROMAGNETIC COMPATIBILITY</b>	<p>In accordance with EEC directive 89/336</p>

**Solmec reserves the right to modify specifications without prior notice.**



## **SOLMEC 50 YEARS MOVING THE MARKET**

Solmec Manufactures Rehandling machines on Wheels, Tracked and on Pedestal. Solmec are the market leader in rehandling in the Italian market and have gained an important position throughout Europe. Versatility, reliability and Stability are the strength points that have made Solmec a major manufacturer in the material handling business. The Solmec machines are designed to work in Scrap Metal industry, Timber Yards and Sawmills, Waste Recycling Depots, Car Disman- tlers, Tanneries, Harbours and Railway companies. Solmec is the machine for rehandling material.

### **SOLMEC QUALITY**

Solmec handling machines are made of first class components and materials, and obtained with a continuous updating of working process, and following the most rigid European laws in the matter of safety on work.

### **MODELS**

In order to completely satisfy customers' requests, Solmec has developed a range made of more than 15 models: a large and various offers for any request.

series 100LS (108LS)

series 200ESC (208ESC – 210ESC – 212ESC)

series 300ESC (311ESC - 313ESC)

series 400ESC (411ESC – 413ESC – 416ESC)



**100 LS**

200 ESC

300 ESC

400 ESC

500 ESC

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