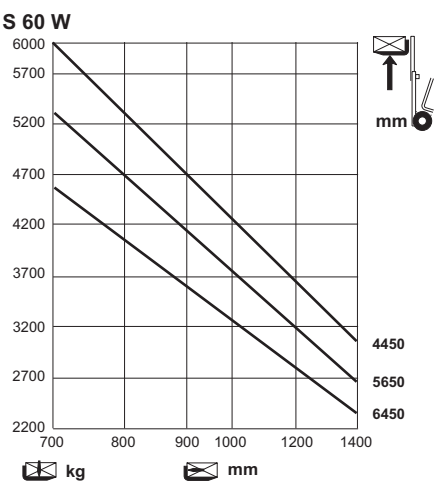
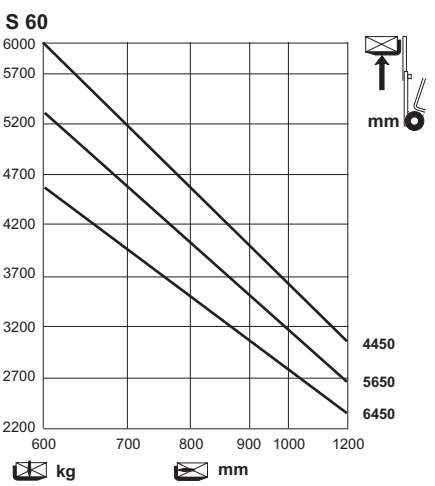
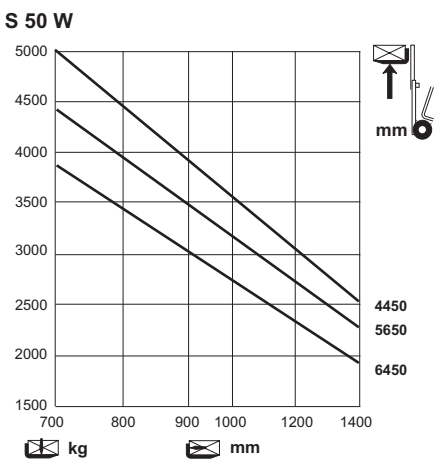
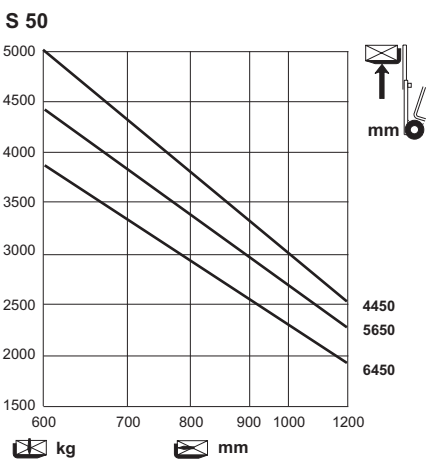
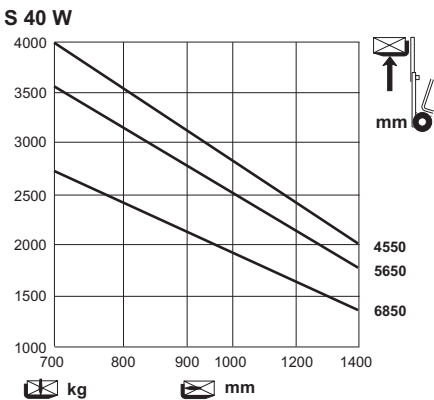
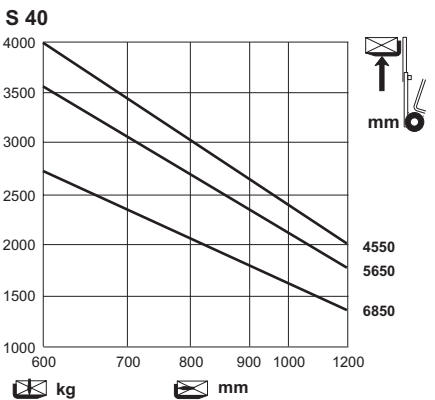
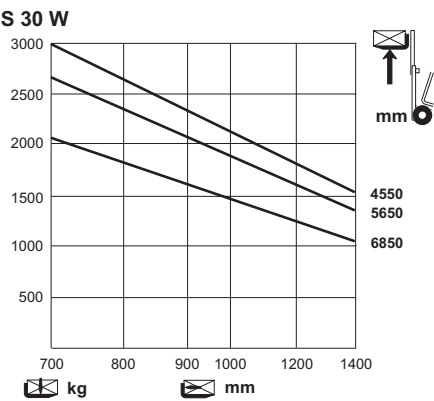
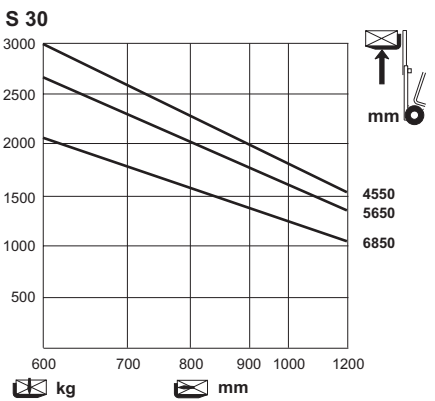


Capacity charts



Features

Sideloader With standard or wide deck 3 000 kg to 6 000 kg



Safety

- Three independent braking systems.
- Engine - neutral start transmission safety interlock.
- Audible warning (horn).
- Steering control - integrated 'anti-kick' valve.
- Steering axle proximity mounted shock valve.
- Steering reverts to manual in the event of engine failure.
- Safe load lowering valve.
- Pressure relief valve.
- Good all-round visibility.

Standard equipment

- Fully equipped cab with front opening door, wipers and washers for wind-screen and rear screen, heater and demister.
- Fully adjustable, suspension type seat.
- Comprehensive instrumentation.
- Full road lighting.

- Perkins 1004-42, 4 cylinder water-cooled diesel engine.
- Linde hydrostatic transmission.
- Heavy duty double hub reduction drive axle.
- Power assisted hydraulic steering.
- Hydraulic deck tilt.
- Deck width:-
 - 1 220 mm (S 30 to S 60).
 - 1 400 mm (S 30 W to S 60 W).

- Hydraulic drum brakes on steer axle and disc brakes on drive axle.
- Pneumatic tyres.
- Standard clearview mast:-
 - 3 550 mm lift (S 30/S 40, S 30 W/S 40 W),
 - 3 150 mm lift (S 50/S 60, S 50 W/S 60 W)
- Non hydraulic fork carriage.

- Fork length:-
 - 1 200 mm (S 30 to S 60).
 - 1 400 mm (S 30 W to S 60 W).
- Standard colour scheme - vermilion and charcoal grey.

Optional equipment

- Side opening cab door.
 - Audible warning in reverse gear.
 - Safety lighting.
 - Double stage mast, 1 050mm free lift.
 - Duplex full free lift mast.
 - Perkins 1 004-40S LPG engine.
 - Heavy duty engine air filter.
 - Exhaust purifier.
 - Spark arrestor and inlet flame trap.
 - Additional hydraulic circuits.
 - Carriage tilt.
 - Load stabiliser.
 - Vertically moving forks.
 - Forkspreading carriage.
 - Automatic reversing light.
 - Carriage backrest extension.
 - Carriage or fork mounted crane jib.
 - Paper roll clamp.
 - Load weight indicator.
 - Alternative colour schemes.
- Other options available on request.

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E-mail: enquiries@linde-mh.co.uk
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national network company on **0845 608 5000**



DM5094A/1/04

The manufacturer reserves the right to alter specifications without notice.



**S 30
S 40
S 50
S 60**

Introduction

The S 30 to S 60 engine powered side-loaders combine the flexibility and precise control of the Linde hydrostatic transmission with a robust, compact chassis design and a high basic specification. The sideloader is the ideal machine for handling long loads such as timber packs, pipes, steel plate or similarly shaped items. As the loads are handled by the fork reaching out sideways, aisle widths in storage yards can be reduced to little more than the width of the machine.

The major characteristics at a glance:

- Ergonomically designed operator's compartment.
- Powerful, modern diesel engine.
- Linde hydrostatic transmission for smooth acceleration and deceleration, and precise control.
- Robust drive axle with low maintenance wet brake units.

Operator's compartment

The truck is equipped with an all-weather cab as standard. Access to the operator's position is through a front opening door. A full suspension seat is provided. It is hydraulically damped and fully adjustable for maximum comfort. The hydraulic control levers for lift, traverse and deck tilt are mounted close to the operator's right hand. The forward/reverse direction lever is fitted to the right of the steering column, under the steering wheel. The pedals consist of an accelerator and a brake

pedal. Either foot can operate the brake pedal. The handbrake lever is mounted on the left hand side of the operator's seat.

Chassis

The compact, all welded chassis has integral ballasting and steel chequer plate decks. Its high strength to weight ratio is due to the use of high quality steel plate combined with computer aided design techniques.

Engine

A Perkins 1104-44, 4 cylinder direct injection diesel developing 64 kW at 2400 rpm is fitted as standard. Alternatively, Perkins 1 004-40S LPG engine, developing 49 kW at 2 100 rpm is available.

Transmission and drive axle

These models are fitted with a Linde hydrostatic transmission giving infinitely variable forward and reverse speeds. The transmission consists of an axial piston pump directly mounted to the engine. This pump drives a swash plate hydrostatic motor mounted on the differential. The drive axle is a heavy duty double reduction type fitted to the chassis on a central pivot.

Steering

Full hydrostatic power steering is standard, resulting in excellent manoeuvrability without operator fatigue. A heavy duty fabricated axle assembly is mounted to the chassis via a pivoting tilt plate. This

houses the single, double acting steering cylinder, which is connected to the stub axles by fixed length track rods.

Lift mast

A robust clearview fabricated mast of all roller construction affords great strength, maximum load stability and mast rigidity at full lift height. Full width load rollers between inner and outer mast ensure complete alignment. The standard mast offers free lift of 150 mm. The optional masts offer either 1050 mm free lift or full free lift. A plate type carriage is standard and is roller mounted into the mast.

Deck tilt and suspension

Hydraulic cylinders mounted on the load side of the centre pivoted axles tilt the machine to aid picking up and depositing loads, and improve load stability when travelling. Transfer of oil between these two cylinders provides suspension over rough surfaces and ensures that all four wheels remain in contact with the ground at all times.

Brakes

These models incorporate three independent braking systems:

1. Dual circuit hydraulic service brakes consisting of drum brakes in the steer axle hubs and in-board, oil-immersed disc brakes on the drive axle.
2. Hydrostatic braking effect provided by the transmission.
3. Handbrake operated disc parking brake.

LINDE			Sideloader		Data sheet for material handling equipment to VDI 3586								316 03 Series no		VDI 2198	
JANUARY 2004			Manufacturer's data and design characteristics								Model types				Registration note	
Characteristics	1.1	Manufacturer			Linde	Linde		Linde	Linde	Linde	Linde	Linde	Linde			
	1.2	Model designation			S 30	S 30 W		S 40	S 40 W	S 50	S 50 W	S 60	S 60 W			
	1.3	Power unit: battery, diesel, petrol, LP gas, mains power			Diesel	Diesel		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel			
	1.4	Operation: manual, pedestrian, stand-on, seated, order picker			Seated	Seated		Seated	Seated	Seated	Seated	Seated	Seated			
	1.5	Load capacity		Q (t)	3.0	3.0		4.0	4.0	5.0	5.0	6.0	6.0			
	1.6	Load centre		c (mm)	600	700		600	700	600	700	600	700			
	1.8	Platform edge to load face		x (mm)	58	58		58	58	85	85	85	85			
	1.9	Wheelbase		y (mm)	2 450	2 450		2 450	2 450	2 450	2 450	2 450	2 450			
Weights	2.1	Service weight		kg	6 220	6 420		7 060	7 310	8 600	8 800	9 080	9 280			
	2.2	Axle load with load, front/rear		kg	4 420 / 4 800	4 530 / 4 890		5 290 / 5 770	5 480 / 5 860	6 650 / 6 950	6 760 / 7 040	7 450 / 7 630	7 560 / 7 720			
	2.3	Axle load without load, front/rear		kg	2 920 / 3 300	3 030 / 3 390		3 290 / 3 770	3 480 / 3 860	4 150 / 4 450	4 260 / 4 540	4 450 / 4 630	4 560 / 4 720			
Wheels and tyres	3.1	Tyres, front/rear. SE = (superelastic), P = (pneumatic)			P/P	P/P		P/P	P/P	P/P	P/P	P/P	P/P			
	3.2	Tyre size, front			7.50 x 15 / 14 PR	7.50 x 15 / 14 PR		7.50 x 15 / 14 PR	7.50 x 15 / 14 PR	8.25 x 15 / 14 PR	8.25 x 15 / 14 PR	300 x 15 / 18 PR	300 x 15 / 18 PR			
	3.3	Tyre size, rear			7.50 x 15 / 14 PR	7.50 x 15 / 14 PR		7.50 x 15 / 14 PR	7.50 x 15 / 14 PR	8.25 x 15 / 14 PR	8.25 x 15 / 14 PR	300 x 15 / 18 PR	300 x 15 / 18 PR			
	3.5	Wheels, number, front/rear (x = driven)			2 / 2x	2 / 2x		2 / 2x	2 / 2x	2 / 2x	2 / 2x	2 / 2x	2 / 2x			
	3.6	Track width, front		b ₁₀ (mm)	1 648	1 828		1 648	1 828	1 648	1 828	1 648	1 828			
	3.7	Track width, rear		b ₁₁ (mm)	1 698	1 828		1 698	1 828	1 698	1 828	1 650	1 828			
	4.1	Mast/fork carriage tilt, forward/backward		α/β (°)	3.5 / 4	3 / 3.5		3.5 / 4	3 / 3.5	3 / 5	4.5 / 4.5	3 / 5	4.5 / 4.5			
	4.2	Height of mast, lowered ²⁾		h ₁ (mm)	2 730	2 730		2 730	2 730	2 730	2 730	2 730	2 730			
Dimensions	4.3	Free lift		h ₂ (mm)	150	150		150	150	150	150	150	150			
	4.4	Lift		h ₃ (mm)	3 550	3 550		3 550	3 550	3 150	3 150	3 150	3 150			
	4.5	Height of mast, extended		h ₄ (mm)	4 450	4 450		4 450	4 450	4 250	4 250	4 250	4 250			
	4.7	Height of overhead guard (cabin)		h ₆ (mm)	2 510	2 510		2 510	2 510	2 600	2 600	2 600	2 600			
	4.8	Height, operators seat/stand-on platform		h ₇ (mm)	1 370	1 370		1 370	1 370	1 460	1 460	1 460	1 460			
	4.12	Towing coupling height Optional		h ₁₀ (mm)	520	520		520	520	610	610	610	610			
	4.13	Platform height, unladen		h ₁₁ (mm)	870	870		870	870	960	960	960	960			
	4.17	Loading platform, length		l ₃ (mm)	1 425	1 425		1 425	1 425	1 425	1 425	1 425	1 425			
	4.18	Loading platform, width		b ₉ (mm)	1 220	1 400		1 220	1 400	1 220	1 400	1 220	1 400			
	4.19	Overall length		l ₁ (mm)	4 150	4 150		4 150	4 150	4 150	4 150	4 150	4 150			
	4.21	Overall width		b ₁ /b ₂ (mm)	1 975 / 1 975	2 155 / 2 155		1 975 / 1 975	2 155 / 2 155	1 975 / 1 975	2 155 / 2 155	1 975 / 1 975	2 170 / 2 170			
	4.22	Fork dimensions		s/e/l (mm)	50 x 120 x 1 200	50 x 120 x 1 400		50 x 120 x 1 200	50 x 120 x 1 400	60 x 130 x 1 200	60 x 130 x 1 400	60 x 130 x 1 200	70 x 150 x 1 400			
	4.23	Fork carriage to DIN 15173, class/form A, B			3A	3A		3A	3A	4A	4A	4A	4A			
	4.24	Width of fork carriage		b ₃ (mm)	1 200	1 200		1 200	1 200	1 200	1 200	1 200	1 200			
	4.25	Fork spread, minimum/maximum		b ₅ (mm)	260 / 1 200	260 / 1 200		260 / 1 200	260 / 1 200	320 / 1 200	320 / 1 200	320 / 1 200	320 / 1 200			
	4.26	Width between platform well width (Sideloader)		b ₄ (mm)	1 300	1 300		1 300	1 300	1 300	1 300	1 300	1 300			
	4.28	Reach travel		l ₄ (mm)	1 270	1 450		1 270	1 450	1 295	1 475	1 295	1 485			
	4.31	Ground clearance, mast		m ₁ (mm)	165	165		165	165	165	165	155	155			
	4.32	Ground clearance, centre of wheelbase		m ₂ (mm)	225	225		225	225	225	225	225	225			
	4.33	Aisle width with pallets 1 000 x 1 200 across forks		Ast (mm)	2 175	2 355		2 175	2 355	2 175	2 355	2 175	2 355			
4.34	Aisle width with pallets 800 x 1 200 along forks		Ast (mm)	2 175	2 355		2 175	2 355	2 175	2 355	2 175	2 355				
4.35	Turning radius		Wa (mm)	4 020	4 155		4 020	4 155	4 020	4 155	4 020	4 155				
4.36	Minimum pivoting point distance		b ₁₃ (mm)	1 310	1 450		1 310	1 450	1 310	1 450	1 310	1 450				
4.39	Aisle 90° intersecting		Ast ₁ (mm)	3 800	3 955		3 800	3 955	3 800	3 955	3 800	3 955				
IC engine	5.1	Travel speed, with/without load		km/h	24 / 26	24 / 26		24 / 26	24 / 26	23 / 26	23 / 26	23 / 26	23 / 26			
	5.2	Lift speed, with/without load		m/s	0.51 / 0.53	0.51 / 0.53		0.44 / 0.53	0.44 / 0.53	0.40 / 0.41	0.40 / 0.41	0.39 / 0.41	0.39 / 0.41			
	5.3	Lowering speed, with/without load		m/s	0.51 / 0.40	0.51 / 0.40		0.51 / 0.40	0.51 / 0.40	0.48 / 0.36	0.48 / 0.36	0.48 / 0.36	0.48 / 0.36			
	5.4	Reach speed, with/without load		m/s	0.22 / 0.22	0.22 / 0.22		0.22 / 0.22	0.22 / 0.22	0.22 / 0.22	0.22 / 0.22	0.22 / 0.22	0.22 / 0.22			
	5.5	Tractive force, with/without load		kN	25	25		25	25	30	30	30	30			
	5.7	Climbing ability, with/without load		%	22 / 22	22 / 22		22 / 22	22 / 22	22 / 22	22 / 22	22 / 22	22 / 22			
	5.10	Service brake, front/rear			Dry drum / Wet disc	Dry drum / Wet disc		Dry drum / Wet disc	Dry drum / Wet disc	Dry drum / Wet disc	Dry drum / Wet disc	Dry drum / Wet disc	Dry drum / Wet disc			
6.4	Starting battery		V/Ah	1 x 12 / 105	1 x 12 / 105		1 x 12 / 105	1 x 12 / 105	1 x 12 / 105	1 x 12 / 105	1 x 12 / 105	1 x 12 / 105				
Drive	7.1	Engine manufacturer/type			Perkins 1104-44	Perkins 1104-44		Perkins 1104-44	Perkins 1104-44	Perkins 1104-44	Perkins 1104-44	Perkins 1104-44	Perkins 1104-44			
	7.2	Engine performance to ISO 1585		kW	64	64		64	64	64	64	64	64			
	7.3	Rated speed		1/min	2 400	2 400		2 400	2 400	2 400	2 400	2 400	2 400			
	7.4	Number of cylinders/displacement		/ cm ³	4/4 400	4/4 400		4/4 400	4/4 400	4/4 400	4/4 400	4/4 400	4/4 400			
	7.5	Fuel consumption to VDI cycle		l/h	¹⁾	¹⁾		¹⁾	¹⁾	¹⁾	¹⁾	¹⁾	¹⁾			
Other	8.1	Type of drive control			Hydrostatic / infinitely variable				Hydrostatic/infinitely variable							
	8.2	Working pressure for attachments		bar	190	190		190	190	190	190	190	190			
	8.3	Oil flow for attachments		l/min	100	100		100	100	100	100	100	100			
	8.4	Noise level at operator's ear, Overhead guard/Cab		LpA	77	77		77	77	77	77	77	77			
	8.5	Towing coupling, design/type DIN Optional		ø (mm)	32	32		32	32	32	32	32	32			
1) Refer to manufacturer for details.																
2) With 150 mm free lift																

