

Skyliner

Kramer Telehandlers



kramerALLRAD®

The Way Up.
Securing a Sound
Foundation for Your
Success.



State-of-the-art

Leaders in technology and progress.



technology

KRAMERALLRAD'S NEW TELEHANDLERS ARE BASED ON A SOUND FOUNDATION BY COMBINING OUTSTANDING LEVELS OF TECHNOLOGY WITH THE PROVEN ABILITIES OF A FOUR WHEEL SPECIALIST WITH A LONGSTANDING HISTORY OF INNOVATION AND QUALITY.

SECURE YOUR SUCCESS BY REDEFINING YOUR GOALS.

Viewed from all angles.
Off to new horizons, and
moving ahead to new
opportunities. Guaranteed.



Kramer's new machines offer everything you need for the efficient handling and transportation of materials.

- With full 360° all around visibility to make sure you stay in full control of the job.
- With a boom hidden in the U-shaped chassis for transport, completely out of the driver's field of vision.
- With a long wheelbase and a wide track for superior stability and utmost safety.
- Never before have all these features been integrated in a single machine.



07
09



**Kramer visibility
for maximum safety:**

- 360° all around visibility.
- Fully lowered boom.
- Full length front windscreen.



Cockpit.

You're in full command
to get things moving.



Man and machine make up a winning team in the new Kramer telehandlers and are sure to score the highest points.

- With an all-in-one joystick and integrated forward-reverse control the driver need never take his hands from the steering wheel, man and machine merge to create a highly-efficient productive unit.
- With particularly silent engines, drivers can concentrate fully on the job in hand and enjoy maximum output with minimum effort.
- With a wide entrance to ensure comfort from the very start.

Kramer Comfort:

- Comfort cab.
- All-in-one joystick for precise and convenient control.
- Fully-glazed and spacious cab.
- Wide access.
- Low noise level.



- 1 Safe load indicator**
Safe load indicator in the driver's line of sight thanks to a professional cockpit design.
- 2 Joystick**
Precision at your fingertips with a latest-generation joystick.
- 3 Indicators**
The perfect cockpit to stay in command of the situation.



1



2



3



Tough on the job,
nifty on the road
to move from A to B.



ecospeed[®]

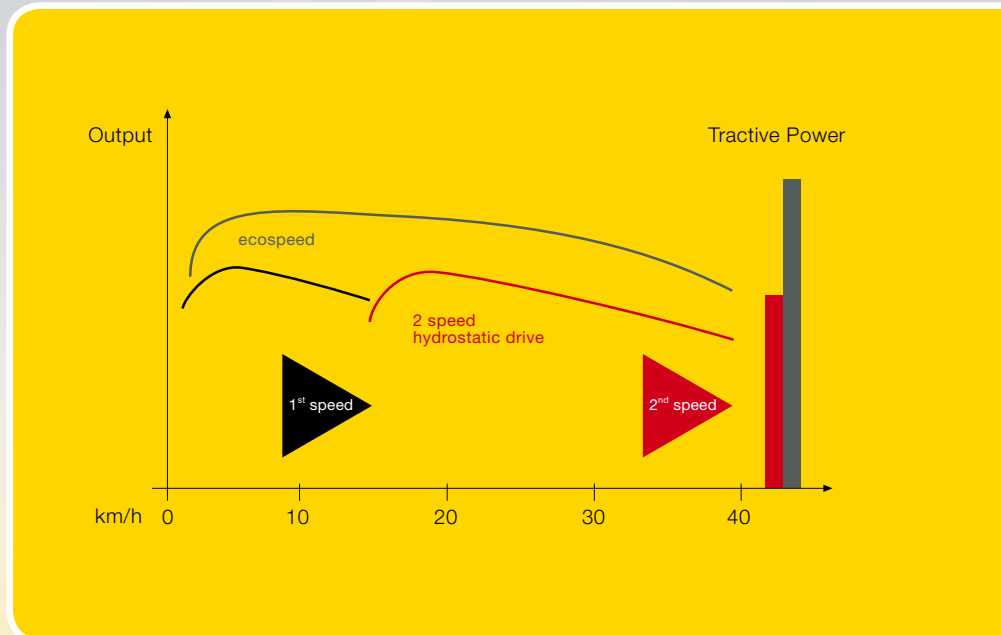
The winner takes all.

- With four wheel drive and steering for the ultimate in agility and manoeuvrability.
- With the only progressive hydrostatic drive in its class, for utmost tractive power from 0 to 40 kph.
- With an ecospeed high speed gearbox as an exclusive feature of Kramer telehandlers.
- Because it automatically switches from 4-wheel to 2-wheel steering with automatic steering synchronization for safe road travel.
- With output adapted to the work situation and fuel consumption automatically optimised.
- With tractive power and thrust perfectly coordinated in all situations.
- With precise and smooth controls enabling inexperienced drivers to work without any problems.

Kramer ecospeed gearbox*:

- Progressive from 0 to 40 kph.
- Low noise levels.
- Optimised fuel consumption.

* Option



Continuous ecospeed high speed gearbox for optimised tractive power, minimised fuel consumption and noise level reduction.

Reach for the sky.
With the right
technology and power,
the sky's the limit!



Power is not a luxury but the driving force behind your success. This is an integral feature of all Kramer telehandlers – as is the legendary four wheel steering system.

- With high-performance components and a 100 % differential lock to ensure maximum thrust at all times.
- With a hefty hydraulic output of up to 150 l/min for fast work cycles and utmost agility.
- With the lift ram, the chassis and the boom forming a large force triangle for extremely high lifting capacities.
- With Z linkage to ensure high tearout forces.
- With an ecospeed gearbox to ensure coordinated tractive force and thrust – optimally and fully automatically.

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OUTPUT IS NOT ALL THAT COUNTS.

BUT IT IS THE DRIVING FORCE THAT SHIFTS YOU
AND YOUR BUSINESS INTO A HIGHER GEAR.



Kramer Power:

Kramer Allrad. Supreme power
whatever the application:

- Hydraulic output.
- Thrust.
- Lifting capacity.
- 100 % parallel lift.



Go-getter.

Off the beaten track and yet completely at home.



Intelligent four wheel technology to get things moving:

- With a 2 x 45° steering angle for working fast, flexibly and economically.
- With efficiency – time is money.
- With excellent off-road handling to extend your scope of operation.
- With ample ground clearance to keep you going, plus an intelligent oscillating axle with an extra wide oscillation angle.

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Kramer manoeuvrability:

- 2 x 45° steering angle.
- Excellent off-road handling.
- High ground clearance.
- Intelligent oscillating axle with extra wide oscillation angle.



No corner is too tight:
Marvel at the manoeuvrability of Kramer telehandlers.



Swiss knife on wheels.

Never say never with options made for tackling tough jobs, day in, day out with ease.



Customise your telehandler to your needs.

- With a wide range of options to extend the range of your machine.
- With attachments that make sense from the very start.
- With KramerAllrad's all-inclusive approach.
- With versatility for making money. Guaranteed.

Three steering modes for even more versatility

- 1 Four wheel steering**
Full power in minimum space.
- 2 Crab steering**
Versatile in all situations.
- 3 Front axle steering**
The convenience of conventional steering.



- Kramer options:**
- Increased hydraulic capacity.
 - ecospeed-high speed gearbox.
 - Front and rear attachments.
 - Oscillating axle interlock and frame levelling.



Maintenance won't slow you down.

Profitability is a matter of speed and efficiency, not only on the job but also in the workshop.

Kramer maintenance:

- Long maintenance intervals.
- High-performance components.
- Transverse engine for best accessibility.
- Low-maintenance multidisc brakes.



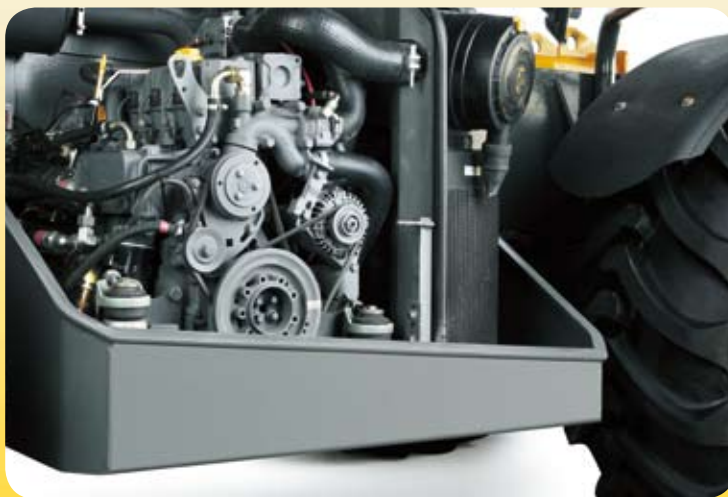
Benefit from a Kramer telehandler even when it needs a break.

- With high-performance components to increase durability, range and service life, and to maintain its value over many years.
- With a transverse-mounted engine for full access to all maintenance points from a standing position.

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OPERATION MADE EASY.

KRAMER'S NEW TELEHANDLERS GIVE YOU THE EXTRA EDGE WITHOUT COMPROMISING ON MAINTENANCE.



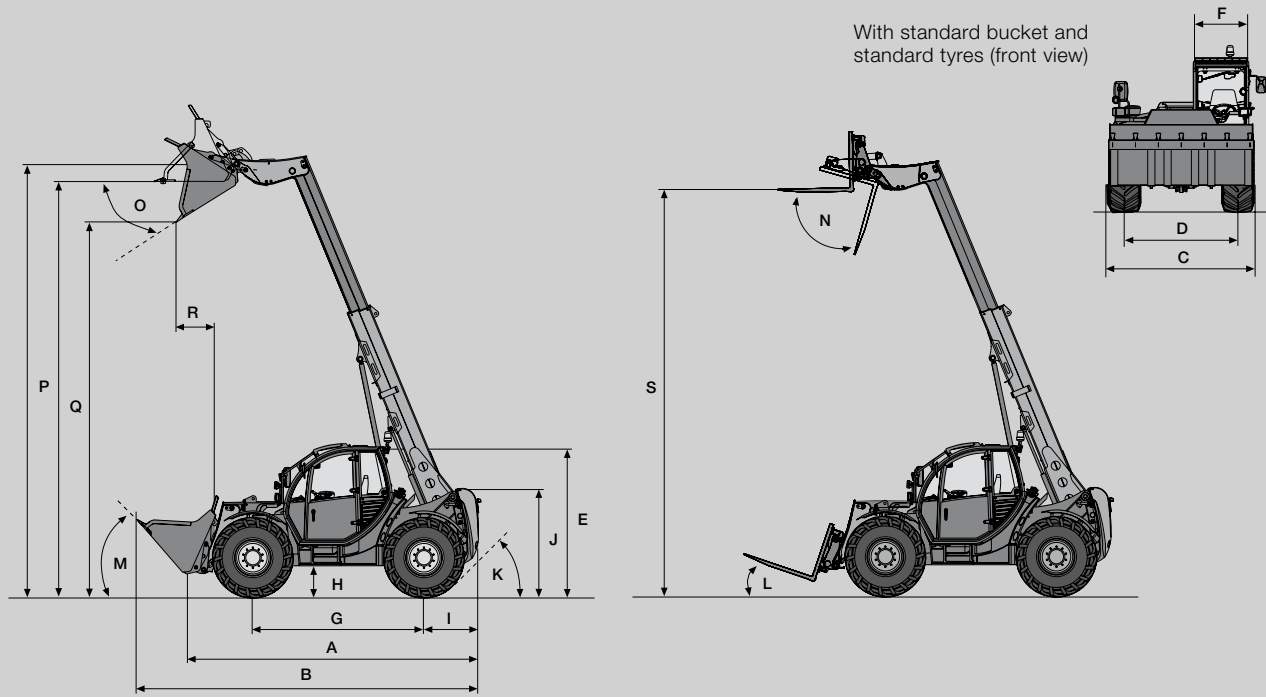
Optimal filter accessibility

- 1 Cyclone prefilter
- 2 Cab air filter
- 3 Air filter cartridge

Transverse engine
for optimal accessibility.



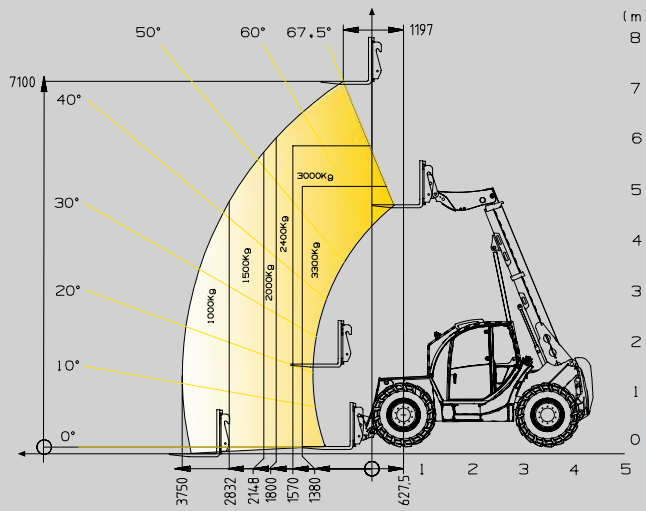
High tech. A winner's specs.



With standard bucket and standard tyres

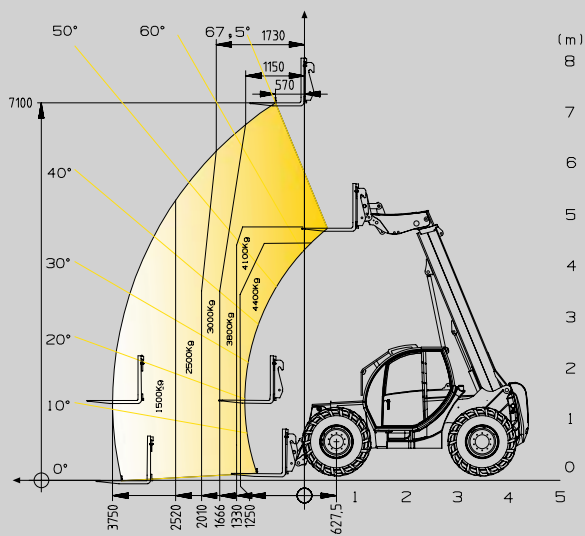
With pallet forks and standard tyres

DIMENSIONS		3307	4507	4009
A	Length incl. quick coupler	4760 mm	4760 mm	5590 mm
B	Length with standard bucket	5690 mm	5690 mm	6440 mm
C	Max. width	2320 mm	2320 mm	2320 mm
D	Track width	1920 mm	1920 mm	1920 mm
E	Height up to cab roof	2450 mm	2450 mm	2450 mm
F	Inside cab width	920 mm	920 mm	920 mm
G	Wheelbase	2850 mm	2850 mm	3050 mm
H	Ground clearance	430 mm	430 mm	430 mm
I	Distance centre of rear wheel to rear end	900 mm	900 mm	1060 mm
J	Height to boom	1710 mm	1710 mm	1760 mm
K	Rear departure angle	47°	47°	50°
L	Pallet forks crowd angle in lower position	20°	20°	20°
M	Standard bucket crowd angle in lower position	45°	45°	45°
N	Pallet forks dump-out angle in top position	70°	70°	70°
O	Standard bucket dump-out angle in top position	45°	45°	45°
P	Load-over height	7050 mm	7050 mm	8825 mm
Q	Dump height	6370 mm	6370 mm	8080 mm
R	Dump reach	290 mm	290 mm	270 mm
S	Max. lift height	7100 mm	7100 mm	8950 mm



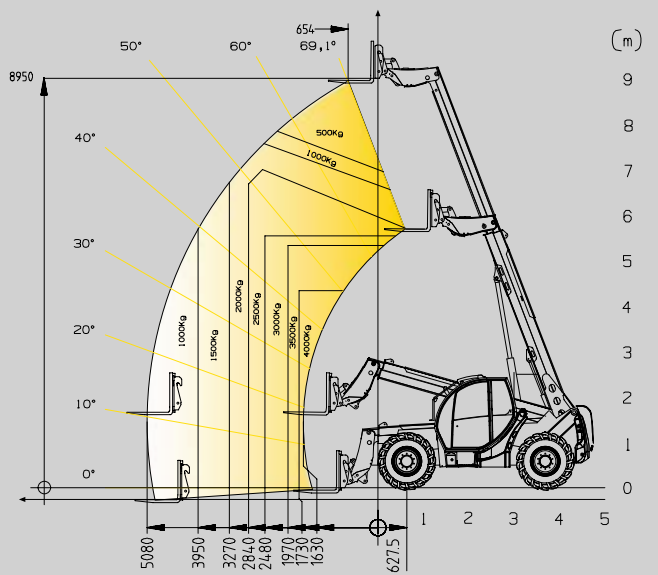
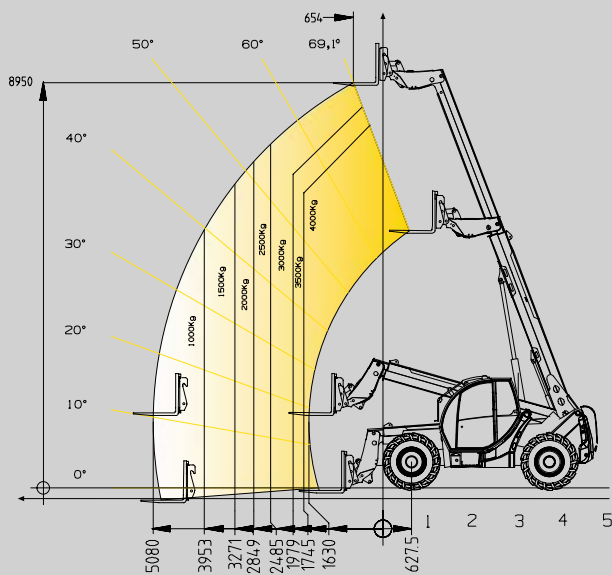
Load diagram
(with load centre 500 mm)
3307

(m)
8
7
6
5
4
3
2
1
0




Load diagram
(with load centre 500 mm)
4507

(m)
8
7
6
5
4
3
2
1
0



Load diagram
(with load centre 500 mm)
Left: 4009 with hydraulic frame levelling and oscillating axle interlock
Right: 4009 without frame levelling and without oscillating axle interlock

(m)
9
8
7
6
5
4
3
2
1
0

 SPECIFICATIONS	3307	4507	4009
Bucket capacity	1,2 – 2,5 m ³	1,2 – 3,0 m ³	1,2 – 3,0 m ³
Weight without attachment	7200 kg	8100 kg	8600 kg
Turning radius between kerbs	3600 mm	3600 mm	3850 mm
Turning radius with pallet forks	4550 mm	4550 mm	5300 mm
Total tilt angle of quick-change	163 °	163 °	163 °
ENGINE			
Make	Deutz		
Type/design	TCD 2012 L04 2V, 4 cylinder in-line water-cooled turbocharged engine with charge-air cooler		
Output	88 kW / 120 hp at 2400 rpm		
max. Drehmoment	420 Nm at 1600 rpm		
Max. torque	4040 cm ³		
Emissions	Tested and certified as per 97/68 EC, emissions standard level 3		
POWER TRANSMISSION			
Drive	Automotive, progressive hydrostatic axial-piston gearbox, 4 wheel drive		
Drive speed	0 – 20 km/h ecospeed 0 – 30 km/h (option) ecospeed 0 – 40 km/h (option)		
Axles	Planetary drive and steering axles		
Oscilation angle rear axle	20 °		
Differential lock	Locking power 100 % (front)		
Service brake	Hydraulic multidisc brake in front axle Hydraulic dual-circuit multidisc brake in front and rear axles (option) 1		
Parking brake	Electrohydraulically controlled spring-loaded multidisc brake		
Standard tyres	405/70-24		
STEERING AND WORK HYDRAULICS			
Mode of function	Hydrostatic 4 wheel steering with electronic steering synchronisation		
Max. steering angles	2 x 45 °	2 x 45 °	2 x 40 °
Work pump	Gear pump Axial-piston variable displacement pump (option)	Gear pump Axial-piston variable displacement pump (option)	Axial-piston variable displacement pump
Flow rate	110l/min 150l/min (option)	110l/min 150l/min (option)	150l/min –
Pressures	210 bar	250 bar	250 bar
KINEMATICS			
Max. payload	3300 kg	4400 kg	4000 kg
Max. lift height	7100 mm	7100 mm	8950 mm
Crowd/dump angles	45° / 45°	45° / 45°	45° / 45°
Payload @ max. lift height	2400 kg	3800 kg	500 kg / 3000 kg 3
Payload @ max. reach	1000 kg	1500 kg	1000 kg
Lift height @ max. load	5100 mm	4400 mm	4338 mm / 8000 mm 3
Reach @ max. load	1380 mm	1250 mm	1730 mm / 1745 mm 3
Max. reach (pallet forks)	3750 mm	3750 mm	5080 mm
Scraping depth	143 mm	143 mm	143 mm
Lift ram raise	9,6 sec / 7,4 sec 2	9,6 sec / 7,4 sec 2	8,5 sec
Lift ram lower	6,0 sec / 5,6 sec 2	6,0 sec / 5,6 sec 2	6,5 sec
Push-out ram extension	7,3 sec / 6,2 sec 2	7,3 sec / 6,2 sec 2	8,2 sec
Push-out ram retraction	5,7 sec / 5,5 sec 2	5,7 sec / 5,5 sec 2	7,6 sec
Crowd	3,6 sec / 2,5 sec 2	3,6 sec / 2,5 sec 2	2,5 sec
Dump	3,0 sec / 2,2 sec 2	3,0 sec / 2,2 sec 2	2,2 sec
Work cycles: raise and extend	17,4 sec / 12,4 sec 2	17,4 sec / 12,4 sec 2	16,0 sec
Work cycles: lower and retract	10,3 sec / 7,9 sec 2	10,3 sec / 7,9 sec 2	9,8 sec
CAPACITIES			
Fuel tank	190 l		
Hydraulic oil tank	100 l		
Hydraulic system	170 l		
NOISE EMISSIONS			
As per 2000/14/EG			
ELECTRIC SYSTEM			
Operating voltage	12 V		
Battery	135 Ah		
Alternator	95 A		
Starter	3 kW		

1 Only with 30/40 kph version

2 Only with load sensing variable piston pump

3 With frame levelling and oscillating axle interlock

STANDARD EQUIPMENT

CAB

Soundproofed, vibration-insulated, 4-point suspension comfort cab with large, tinted windows for excellent all around visibility. A comfortable work environment for more safety and efficiency! Optimised visibility at maximum dump height. The boom is lowered into the U-section chassis for 360° all around visibility in the transport position. Extremely roomy cab with many storage possibilities.

Instrument panel

Neatly laid out display with telltales and ergonomically placed switches. Safe load indicator integrated in A column at eye level.

Joystick console

Ergonomic position of pilot control console with:

- Hydraulically pilot-controlled joystick for raising/lowering and dumping in/out the boom with a scroll wheel for selecting the driving direction.
- Proportional controls for extending/retracting the telescopic boom
- Proportional control for 3rd control circuit for operation of hydraulically actuated implements, including a function for continuous operation

Adjustable console with integrated armrest

Heating, ventilation

Easy-to-operate, 3-speed powerful heating and ventilation system with recirculated-air mode, dust filter and defroster vents.

Seat

Comfort seat with mechanical suspension and automatic seat belt, weight, backrest and horizontal adjustment, fabric-lined.

Roller sun-visor

Wipers

Front and rear wipers. Extremely long wiper blade covers 85 % of front window glass. Large washer fluid tank allows for long refill intervals.

Rearview mirror

Large outside mirrors, foldable to notched positions on either side

12 V socket with cigarette lighter

Battery master switch

LIGHTS

Front and rear working lights
Headlights with high beam
Rear lights
Reversing light
Brake lights
Turn indicators
Cab light with door contact switch

ENGINE COVER

Opens wide with gas struts for optimal access for maintenance

QUICKHITCH FACILITY

Mechanical

ENGINE AIR INTAKE

Via cyclone prefilter and cyclone air filter with integrated safety cartridge in the cyclone prefilter

OPTIONS

CAB

Comfort air-suspension seat
Seat with multiple adjustment and integrated joystick console
Radio
Additional front and rear working lights
Air conditioning
Right-hand side and rear window heating
Right-hand side mirror heating incl. electric adjustment
Split door
Adjustable steering column
Tool box

POWER OPTIONS

High-capacity hydraulic system
Hydraulically reversible fan motor
Turbo III pre-separator
Industrial cooler
Crab steer
Hydraulic quickhitch facility
Load stabiliser
Sockets for front and rear attachments
Unpressurised reflux
Low-speed control and manual throttle
Automatic bucket reset
Frame levelling
Hydraulic oscillating axle interlock
Dirt scraper on telescopic boom
Range of trailer coupling systems
Central lubrication system
Carbon particle filter
Rearview mirror for trailer coupling
Front and/or rear hydraulic control circuits
Hydraulic trailer brake
Compressed-air brake system

PREHEATING

Engine
Fuel
Hydraulic oil

TYRES

Industrial tyres 15.5-25
Traction tyres 17.5 R24
Traction tyres 19.5 R24
Range of mining tyres
Construction machine tyres 405/70-24
Wide-base tyres (non-directional) 500/70 R24
Foam-filled tyres
Tyre puncture protection kit

SAFETY

Rear cardan shaft guard
Underbody guard plate
Covering element for drive underneath boom
Protective measures for work in aggressive environment
Fire extinguisher
Warning strips as per DIN 30710
Drive interlock
Backup warning system
Rotating beacon
Working light on telescoping arm
Automatic cutout of hydraulic functions in the event of overload

POWER TRAIN

Progressive ecospeed high speed gearbox 0-30/0-40 kph

PAINT OTHER THAN STANDARD

BIODEGRADABLE OIL
PANOLIN HLP Synth46

WARRANTY EXTENSION

ATTACHEMENTS

Pallet forks, standard bucket, lightweight material bucket, superlightweight material bucket, heavy duty bucket with clamp, load hook, work platform with remote control, pallet forks with hydr. lateral shift, bale clamp, rotary broom, snow plough, pallet forks with adjustable fork arm height, multi-purpose bucket, root baller, concrete mixing bucket
Other attachments on request.

Taking your business to the top.

PROVEN AND INNOVATIVE TECHNOLOGY TO EFFORTLESSLY
REACH HEIGHTS AND YOUR GOALS.



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