KRAMER'S NEW SIZE MOVING THE WORLD

Wheel loaders 8155 / 8155L

KRAMER
on the safe side

Full efficiency in materials handling

Discover the all wheel steer loaders in the 1.5 m^3 class

With the Kramer 8155 / 8155L, Kramer is expanding its wide-ranging range product portfolio in the wheel loader sector further upwards. The power ratings of the wheel loader are supplemented by the typical Kramer all-wheel steering, which ensures stability, maneuverability and compactness. In addition to the impressive performance characteristics, the wheel loader also impresses with a completely new cabin and operating concept. Both models meet the current exhaust emissions level IV and are in keeping with the latest technological developments in every respect.

On the safe side with Kramer

The traditional Kramer brand has been established on the market for many years and stands for one value in particular: **safety.** The high quality of the innovative machines is only one aspect: as a company, Kramer is also a safe choice for customers and dealers, since the experience and innovative power of the company provide for investment and future security. In short, you are always on the safe side with Kramer: **"Kramer—on the safe side!"**

ON THE SAFE SIDE

Table of contents

Operating and performance data	8155
Engine output (optional) [kW]	100 (115)
Bucket capacity [m^3]	1.55
Bucket capacity [kg]	6,100
Stacking payload S=1.25 [kg]	4,200
Operating weight (depends on options) [kg]	9,850

Operating and performance data	8155L
Engine output (optional) [kW]	100 (115)
Bucket capacity [m^3]	1.35
Bucket capacity [kg]	5,600
Stacking payload S=1.25 [kg]	3,900
Operating weight (depends on options) [kg]	10,500

Why separate what belongs together?
Kramer - A unique system

The Kramer brand stands for all wheel steer loaders, telescopic wheel loaders and telescopic loaders with extreme maneuverability, off-road capability and high efficiency. Thanks to the time-tested and proven undivided chassis, the wheel loaders are ultra stable in all conditions.

Due to this special vehicle construction, there is no shift in the center of gravity due to steering movements. On the basis of the Ackermann steering, only the wheels move during steering. Thus, maximum payload and high stability is maintained even on full lock and on uneven ground.

Advantages of the undivided chassis

High stability

The wheel loaders are designed with an undivided chassis that prevents shifts in the center of gravity, even on full steering lock. The vehicles are therefore extremely stable and safe in operation, even when the going gets tough.

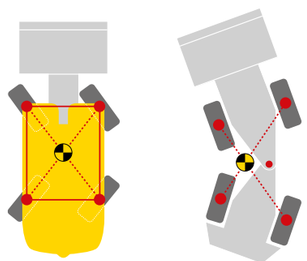
Enormous maneuverability

The all-wheel steering and a steering lock of 40 degrees front and rear allow a high degree of maneuverability. Thus, many steering movements can be eliminated and travel and movements shortened.

Constant payload

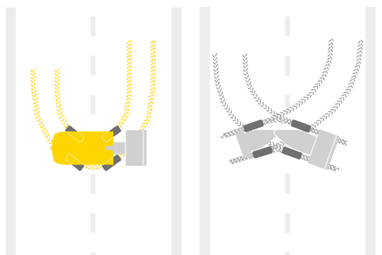
The undivided chassis prevents the distance between the counterweight and the loader unit from changing. And the result: constant lever ratios that make working in all load situations safe. The payload remains the same regardless of the steering angle.

Undivided chassis for high stability ...



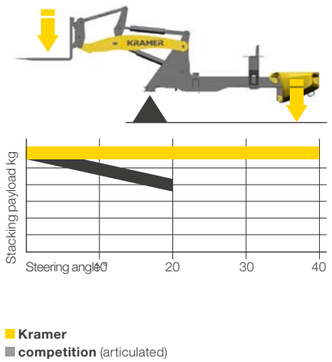
...without shifting the center of gravity.

Turning in one go with all-wheel steering ...



...instead of time-wasting
Maneuvering with articulated joint.

Constant lever ratios for constant payload



Kramer
competition (articulated)

Flexibility in use
The right type of steering for every application

The undivided vehicle frame forms the basis for three different types of steering. The usefulness and application possibilities of a wheel loader are governed by its construction principle. The steering system plays a decisive role.

All-wheel steering

- 2 x 40 degree steering lock at front and rear axles ensure fast working cycles
- Optimized travel paths
- Little need for space

Front wheel steering

- Safe and familiar road driving at high speed
- Simple guidance of special attachment devices
- Familiar steering system
- Ideal for trailer operation

Crab steering

- Maneuvering in a confined space
- Precise positioning even in the most confined conditions
- Moving of special attachment devices
- Easily drive away from walls and ditches

Diverse tasks
Always the right attachments

No matter what challenge your application holds: with the different attachments, you always have a handle on the situation. Thanks to the hydraulic quick hitch system, you can adapt your 8155/8155L to any situation in an instant. Standard attachments can even be changed in less than 10 seconds.

You decide which attachment you need, entirely according to your needs. You can learn more about our attachments here: **www.kramer.de/attachments**

Noteworthy power
Easily work with big loads

Depending on the requirements, two different loader units are available with the wheel loader. The standard loader unit of the 8155 has load-over height of 3.52 m. An extended loader, a so-called industrial loader unit, with 3.95 m load-over height can optionally be ordered, which makes the 8155 into a 8155L. Of course, an extremely sturdy hydraulic quickhitch facility is offered here for the harshest of applications with a 61.5 mm wide centering pin as well as a 50 mm thick lock pin. The standard and industrial loader unit have a quickhitch headstock to ISO 23727, which is used most frequently worldwide in this performance category.

Standard loader unit (PZ kinematics)
with Kramer quickhitch plate

The PZ mast combines the best of parallel and Z kinematics in one system, thereby guaranteeing a high tearout force and an exact parallel guidance across the entire lifting range. The mast guarantees a flawless view of the attachment as well as of the load, allowing the operator to work without restrictions.

- Additional overview clearances due to the lower tipping cylinder
- High tearout force and parallel guidance across the entire lifting range
- Uniform application of force
- Combines the advantages of P and Z kinematics

Industrial loader unit (P kinematics)
with Kramer quickhitch plate

The P kinematics are convincing in practical application with a high breakout force, high retention forces in the upper range of the mast and an exemplary precision when working with heavy loads. The open designed loader unit creates a unique view of the attachment. This advantage is primarily noticeable during loading and unloading work as well as during stacking work with high lift heights.

- Precise and safe work
- Loads are automatically kept level when raising and lowering
- High lifting and tearout forces.
- Exact parallel guidance across the entire lift height

Machine highlights at a glance

That is why the 8155 / 8155L is the right machine

The 8155 / 8155L convinces with outstanding power ratings despite its low operating weight – a new design, technical innovation and high quality make it something unique. Your problem solver for a wide range of tasks and challenges. See for yourself!

The completely re-designed cab concept
with ergonomically arranged operator's controls, thanks to its excellent all-round visibility, offers fatigue-free and efficient working. The large LCD display with integrated reverse driving camera, air conditioning and automatic bucket mechanism are only a few features which are part of the standard equipment for the range.

Powerful and efficient Deutz engines of the exhaust emissions stage IV
The loader is driven by a 100 kW Deutz TCD 3.6 L4 engine. The even more powerful Deutz TCD 4.1 L4 with 115 kW is available as an option.

The intelligent air guidance,
including reversible fan motor, ensures a high cooling performance with little need for maintenance, since no dust is whirled up through the air duct.

The optional extended loader unit
offers lift heights of up to 4.20 m at the same time as a perfect view of the attachment.

The standard loader unit with PZ kinematics
combines high lifting and tearout forces with exact parallel guidance over the entire lifting range.

EU-wide tractor approval and ball hitch with 1 t strut mount
make the loader into an optimal tractor unit. All common trailer coupling systems are available.

The powerful load-sensing hydraulics
with 150 l/min (optional 180 l/min) allow for faster work cycles.

Versatile options at the rear
make the loader into a perfect all-rounder: inter-alia various hydraulic control circuits, electrical outlet, DIN driving signal socket as well as a compressed air and hydraulic brake.

Driving force newly defined
Increased performance thanks to the newly developed continuously variable hydrostatic transmission, which combines tremendous pushing power with sensitivity.

ecospeedPRO (optional)
Continuously variable hydrostatic transmission for the speed range up to 40 km/h incl. Smart Driving.

Extremely sturdy hydraulic quickhitch facility for the harshest of applications
with 61.5 mm centering and lock pins with 50 mm diameter compliant to ISO 23727.

Drive system with Smart Driving -
engine speed reduction at maximum speed.

Wide range of tire options
for a wide range of application areas.

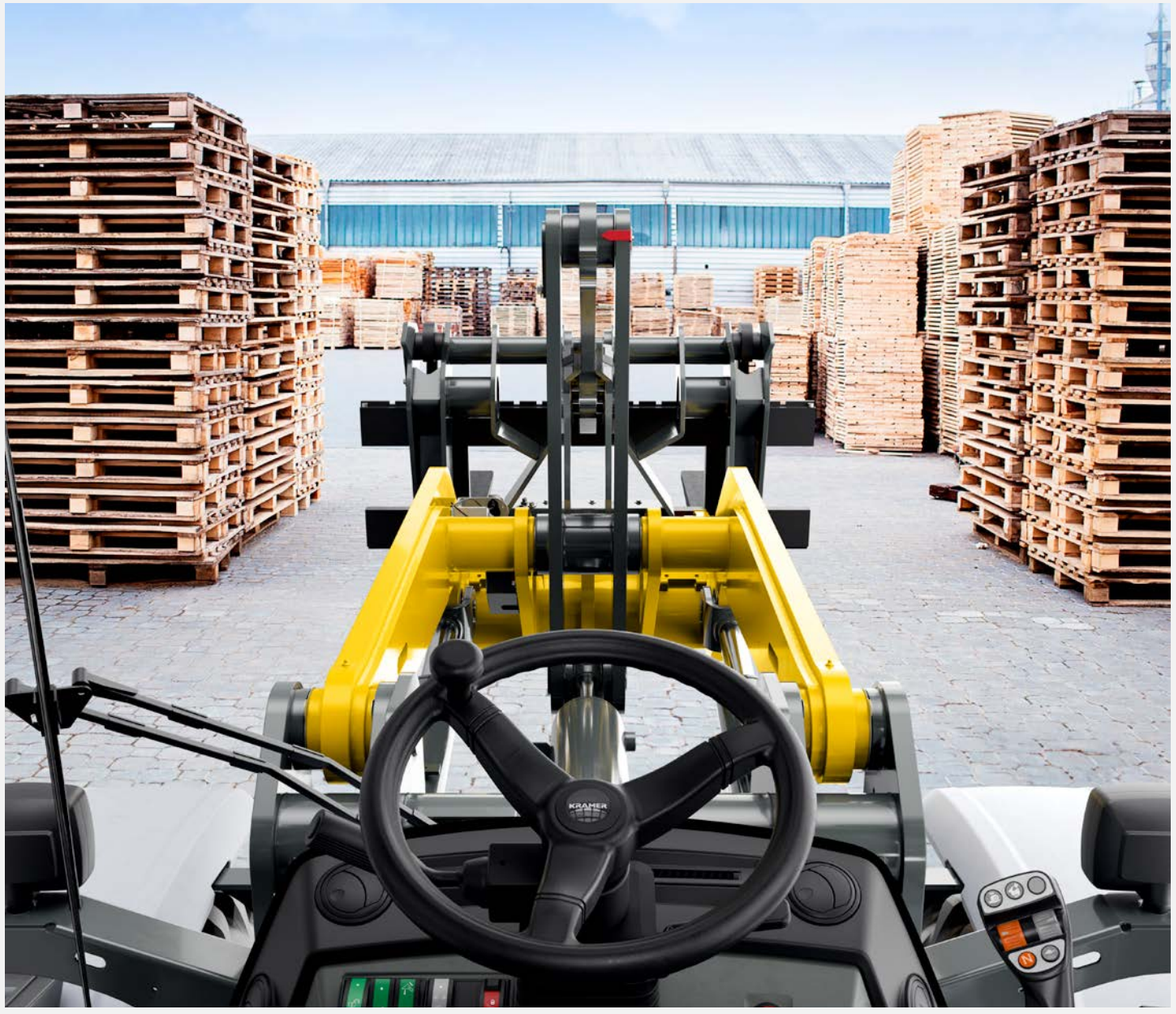
Unique steering system with three steering modes
all-wheel, crab and front wheel steering. This makes the machine extremely maneuverable and flexibly equipped for all applications.

The design principle of the undivided vehicle frame
forms the basis for extreme stability, tremendous maneuverability and constant payload of the machine. Furthermore, the operator is offered a wider and safer entry.

Convenient working area
The outside is always in view

The cabin concept of the 8155 / 8155L was completely redesigned. From the operator's seat to the steering wheel, all of the details were consistently aligned with your needs. Ergonomics, driving comfort and functionality were all focused on.

The fully glazed cab is characterized by spaciousness and a considerable amount of headroom and freedom of movement. The dashboard also allows for an optimal unrestricted view of the quickhitch plate. In summary, the cab offers a convenient environment with an excellent all-round visibility for fatigue-free and efficient working, even during long workdays.



Excellent all-round visibility: narrow cabin struts and panoramic glazing offer an optimal view on all sides.

Technical highlights
Simple operation – Innovative cabin design

Display

The wheel loader is equipped with a completely new operating concept with a large 7-inch LCD display. The design of the 7-inch display is simple and intuitive. The main menu shows all important vehicle data and functions. The brightness can be regulated and adjusted to your needs.

Jog dial

The cabin is equipped with a jog dial. This can be used to conveniently set all important machine settings, such as the oil volume of individual control circuits. The most important operating data can be shown with the rotary and push wheel entirely in line with the operator's requirements.

Armrest

The armrest, including the joystick console and jog dial, is attached to the operator's seat and is equipped with the most important operator's controls. For example the left hand can thus remain on the steering wheel while the right hand is in the area of the armrest. The armrest can be folded up, allowing for exit on the right as well.

Excellent all-round visibility

Large glass areas combined with an openly designed glass roof and the integrated reversing camera offer an excellent all-round visibility in the new cabin: an excellent view of the attachment, the immediate working area and the entire machine surroundings.

Cabin entry

The cabin can be accessed on both sides via the generously designed entry areas via the three-step stairs. Four grab handles (one on the left of the A-column, two at the step ascent and one on the door) allow for a safe entry and exit on both sides. Interior lighting with a door contact switch is also available.

Other cabin features

The cabin design protects the operator from noise emissions (70 dB(A)). In addition, the automatic air conditioning system, work lights and rear window wiper can be controlled on the side above the 7-inch display. Other cabin features include: Bluetooth radio with hands-free equipment, 12 V-outlet with protection cap, two USB connections, and much more.

Variably economical
The Kramer high-speed gearbox

The variable hydrostatic high-speed gearbox ecospeedPRO with 45° turning angle of the hydraulic motor was developed together with Kramer. It impresses with maximum economic efficiency combined with the best possible environmental friendliness and excellent driving properties.

Thanks to the ecospeedPRO transmission, the speed and pushing power are continuously perfectly coordinated with each other. The new powerful transmission makes a continuous acceleration ability from 0 to 40 km/h possible without shifting. This results in a comfortable uniform driving style, since no tractive force interruptions occur nor can shifting jerks be felt.

The ecospeedPRO transmission offers greater tractive force for this machine class than the previous ecospeed. Thus even higher pushing power and tractive forces of up to an additional 10% are achieved.
The machine is equipped with a powerful hydrostat transmission as a standard. The rpm limiter Smart Driving is included as a standard both with the hydrostat version as well as with the ecospeedPRO version.

Smart Driving

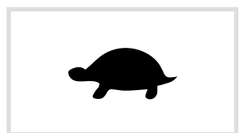
The intelligent engine speed reduction "Smart Driving" optimally adjusts the engine speed at a constant travel speed. At maximum speed, this ensures a reduced noise development and load of the individual elements as well as a lower fuel consumption. Combined with the ecospeedPRO, a reduction of up to 1,550 rpm is possible.

Freely selectable driving speeds

The driving speeds can easily be changed while driving. The change is done conveniently via two touch controls on the joystick and is immediately shown on the 7-inch display with the corresponding symbol (see below). In addition to the three freely selectable driving speeds, different driving modes can optionally be implemented: **driving with a manual throttle, low-speed control and driving by the accelerator pedal.**

Snail: 0 - 7 km/h

available with
- Hydrostat (maximum speed 20 km/h)
- ecospeedPRO (maximum speed 20, 30 or 40 km/h)



Tortoise: 0 - 15 km/h*

Available with
- Hydrostat (maximum speed 20 km/h)
- ecospeedPRO (maximum speed 20, 30 or 40 km/h)

Hare: 0 - 20 (0 - 30 / 0 - 40 km/h)**

Available with
- ecospeedPRO (maximum speed 20, 30 or 40 km/h)

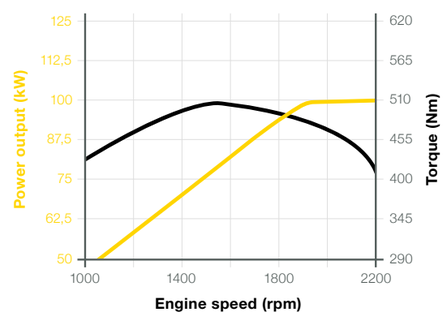
* 0 - 20 km/h with high-speed engine ** High-speed engine

Powerful engines
For any application with reduced consumption

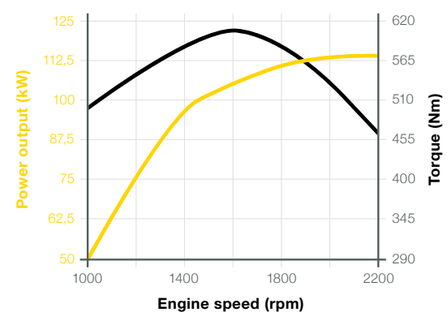
The new Kramer flagship is driven by a 100 kW Deutz TCD 3.6 L4 engine of the exhaust emissions level IV. The exhaust aftertreatment occurs through DOC and SCR (a DPF is optionally available). The even more powerful Deutz TCD 4.1 L4 with 115 kW is available to you as an option and makes the 8155 / 8155L into the most powerful wheel loader in this size class. The exhaust aftertreatment occurs here by means of DOC, DPF and SCR.

Water-cooled 4-cylinder in-line engine with cooled external exhaust gas return, turbocharging and intercooling.

Deutz TCD 3.6 L4 (series) performance curve



Deutz TCD 4.1 L4 (option) performance curve



Technical data

Engine	Unit	8155	8155L
Make	–	Deutz	
Model/design system (optional)	–	TCD 3.6 L4 (TCD 4.1 L4)	
Performance (optional)	kW	100 (115)	
Torque max. (option motor)	Nm at rpm	500 Nm at 1,600 rpm (609 Nm at 1,600 rpm)	
Displacement (optional)	cm^3	3,621 (4,038)	
Exhaust emission level (LRC - less regulated countries)	–	EU stage IV / US EPA Tier 4 (EU stage IIIA / US EPA Tier 3)	
Exhaust gas after-treatment (option motor)	–	DOC + SCR (DOC + DPF + SCR)	
Power transmission	**Unit**		
Drive system	–	Automotive infinitely variable, hydrostatic axial piston transmission	
Speed (optional)	km/h	0 - 20 (0 - 30/0 - 40)	
Axles	–	Planetary steering axles	
Total oscillation angle	°	24	
Differential lock	%	100 % FA + 100 % RA	
Service brake	–	20 km/h: Hydraulic, 1-circuit power brake (FA, lamellas), also acting on the RA via the universal joint shaft. 30 + 40 km/h: Hydraulic 2-circuit power brake (FA + RA, lamellas).	
Parking brake	–	20, 30, 40 km/h: Electro-hydraulic disc brakes with spring suspension in the front axle, also acting on the rear axle via the articulated universal joint shaft.	
Standard tires	–	500/70R24 Michelin BIBLOAD	
Steering and work hydraulics	**Unit**		
Functionality	–	Hydrostatic all-wheel steering, front wheel steering, crab steering with emergency steering properties	
Steering pump	–	Gear pump via priority valve	
Steering cylinder	–	1 steering cylinder per axle / electronically synchronizing	
Steering lock max.	°	2 x 40	
Work pump	–	Variable displacement pump (load-sensing)	
Max. pumping capacity (pump)	l/min	150 l/min	
Max. pumping capacity (pump option)	l/min	180 l/min	
Max. pressure	bar	250 bar	
Quickhitch system	–	Receptacle as per ISO 23727 / hydraulic locking	

Technical data

Kinematics	Unit	8155	8155L
Design system	–	PZ-kinematics	P-kinematics
Lift capacity	kN	65	68
Tearout force	kN	61.9	69.7
Raising/lowering lift cylinder	s	6.3 / 5.7	6.6 / 4.1
Tilting tipping cylinder (upper/lower position loader unit) // dump (upper/lower position of the loader unit)	s	2.4 / 1.9 // 4.0 / 0.8	2.7 / 1.2 // 2.7 / 1.4
Return and dump angles	°	45 / 45	48 / 45
Filling levels	**Unit**		
Fuel/hydraulic/DEF tank	l	140 / 125 / 12	
Electrical enclosure	**Unit**		
Operating voltage	V	12	
Battery/alternator Series TCD 3.6 L4	Ah/A	185 / 120	
Battery/alternator with option motor TCD 4.1 L4	Ah/A	185 / 150	
Starter Series TCD 3.6 L4	kW	3.2	
Starter with option motor TCD 4.1 L4	kW	4.0	
Noise emissions *	**Unit**		
Measured value	dB(A)	101	
Guaranteed value	dB(A)	103	
Noise level in the driver's cab	dB(A)	70	
Vibrations **	**Unit**		
Total vibration value of the upper body armature	m/s^2	< 2.5 m/s^2 (< 8.2 $feet/s^2$)	
Maximum effective value of the weighted acceleration for the body	m/s^2	< 0.5 m/s^2 (< 1.64 $feet/s^2$)*** 1.28 m/s^2 (4.19 $feet/s^2$)****	

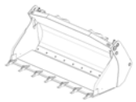
* Information: the measurement occurs according to the requirements of the standard EN 474 and the directive 2000/14 EC. Measuring place: asphalted surface.

** Uncertainty of measurement as specified in ISO/TR 25398:2006. Please train or inform the operator about possible dangers caused by vibrations.

*** On flat and solid ground with corresponding driving.

**** Application in extraction under harsh environmental conditions

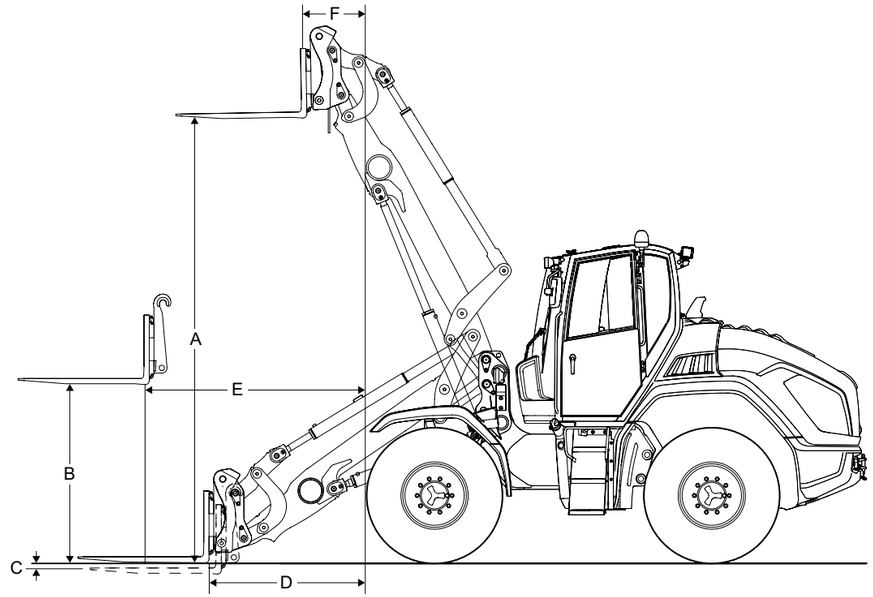
Technical data

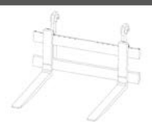
Standard loader unit	Unit	Standard with teeth	Standard without teeth	Light goods	Super light goods	Power grab bucket
						
Bucket capacity	**in** m^3	1.55	1.60	2.05	2.90	1.46
Material density	t/m^3	1.80	1.70	1.30	0.75	1.80
Overall length	mm	6,450	6,370	6,530	6,700	6,470
Bucket width	mm	2,500	2,500	2,500	2,500	2,525
Bucket pivot point	mm	3,760	3,760	3,760	3,760	3,760
Load-over height	mm	3,520	3,495	3,510	3,515	3,515
Dumping height	mm	2,725	2,805	2,645	2,470	2,700
Dump reach	mm	1,085	970	1,150	1,320	1,134
Scraping depth	mm	150	175	160	155	155
Operating weight	kg	9,850	9,930	9,880	9,950	10,090

Extended loader unit	Unit	Standard with teeth	Standard without teeth	Light goods	Super light goods	Power grab bucket
						
Bucket capacity	**in** m^3	1.35	1.40	1.75	2.45	1.25
Material density	t/m^3	1.80	1.80	1.30	0.90	1.80
Overall length	mm	7,040	6,960	7,110	7,240	7,075
Bucket width	mm	2,500	2,500	2,500	2,500	2,525
Bucket pivot point	mm	4,200	4,200	4,200	4,200	4,200
Load-over height	mm	3,950	3,925	3,935	3,945	3,930
Dumping height	mm	3,165	3,245	3,095	2,960	3,100
Dump reach	mm	1,275	1,160	1,320	1,460	3,310
Scraping depth	mm	160	180	165	165	170
Operating weight	kg	10,500	10,580	10,530	10,600	10,740

Technical data

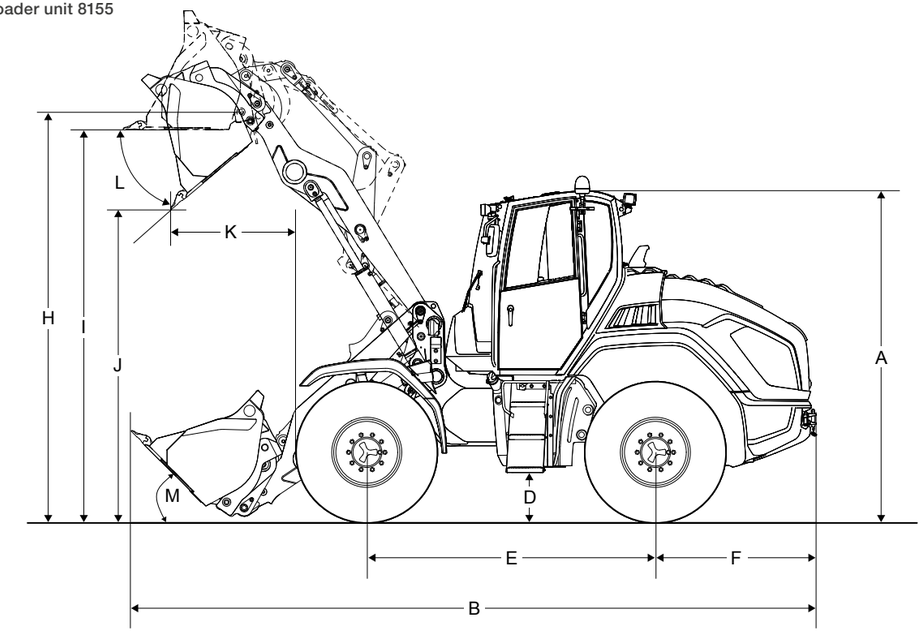
Extended loader unit 8155L



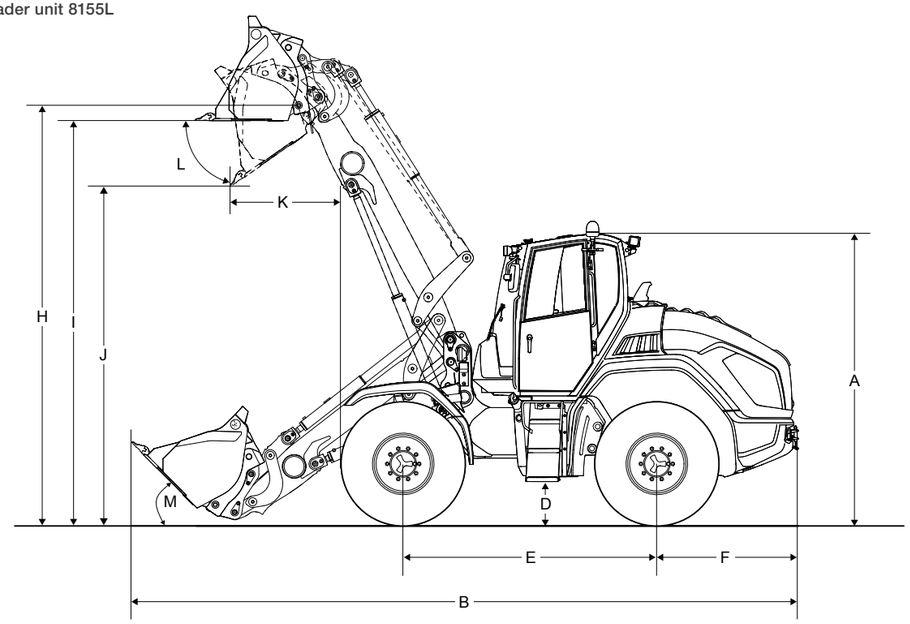
Pallet forks (Load center 500 mm)		Unit	8155	8155L
				
–	**Width forks**	mm	1,500	1,500
–	**Length fork arms**	mm	1,200	1,200
–	**Pallet forks tipping load**	kg	5,250	4,870
–	**Stacking payload S=1.25**	kg	4,200	3,900
–	**Stacking payload S=1.67**	kg	3,140	2,900
A	**Stacking height**	mm	3,605	4,055
B	**Lift height, horizontal mast**	mm	1,745	1,745
C	**Scraping depth**	mm	56	56
D	**Ground reach**	mm	770	1,465
E	**Reach mast horizontal**	mm	1,580	2,090
F	**Reach at max. height**	mm	705	955

Dimensions*

Standard loader unit 8155

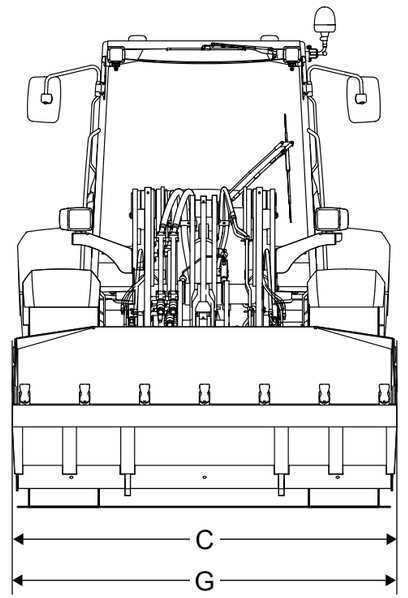


Extended loader unit 8155L



Dimensions*

Front view 8155



		Unit	8155	8155L
A	Height	mm	3,010	3,010
B	Length	mm	6,450	7,040
C	Width	mm	2,500	2,500
D	Ground clearance	mm	445	445
E	Wheel base	mm	2,620	2,620
F	Center of rear axle to end of vehicle	mm	1,520	1,520
G	Bucket width	mm	2,500	2,500
H	Bucket pivot point	mm	3,760	4,200
I	Load-over height	mm	3,520	3,950
J	Dumping height	mm	2,725	3,165
K	Dump reach	mm	1,085	1,275
L	Tip-out angle	°	45	45
M	Tipping angle	°	45	48
-	Turning radius over tires:	mm	3,865	3,865

* Information: dimensions refer to standard equipment with standard bucket.

www.kramer.de

KRAMER
on the safe side

Wheel loaders
Bucket capacity: 0.25 - 1.55 m³

Tele wheeled loader
Bucket capacity: 0.65 - 0.95 m³

Telehandlers
Payload: 800 - 5,500 kg

Service that can be seen

Focus on your daily activities – we take care with our extensive services
of the rest. Because if you need us, we are there for you: competent, fast and, if necessary, directly on site.

Repair & Maintenance | Academy | Telematics | Insurance | Genuine parts | Finance

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