KRAMER‘S NEW SIZE MOVING THE WORLD

Wheel loaders 8155 / 8155L

KRAMER on the safe side

Operating and performance data*	Unit	8155	8155L
Engine output (optional)	kW	100 (115)	100 (115)
Bucket capacity	m^3	1,55	1,35
Tipping load (bucket)	kg	5,600	5,000
Payload S=1.25 (forks)	kg	3,900	3,650
Operating weight (depending on options)	kg	9,150	9,800

* provisional

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 manoeuvrability, off-road capability and high efficiency. Thanks to the proven undivided chassis, Kramer 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

Our wheel loaders are constructed with an undivided frame which prevents changes in center of gravity, even when on full steering lock. The vehicles are therefore extremely stable and safe in operation, even when the going gets tough. A high degree of stability - even in rough ground conditions.

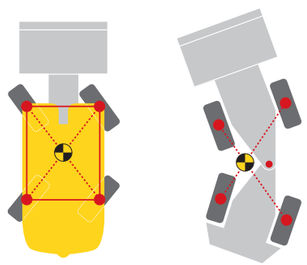
Enormous manoeuvrability

The all-wheel steering and a steering lock of 40 degrees front and back allow a high degree of manoeuvrability. Thus, many steering manoeuvres can be eliminated and travel and cycle times shortened.

Constant payload

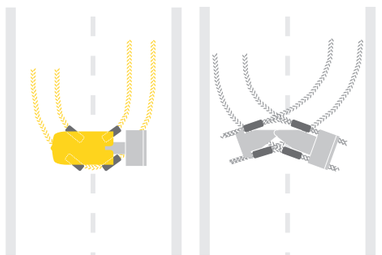
The undivided chassis prevents the distance between the counterweight and the loader unit from changing. And the result: Constant lever ratios that make working in all load situations safe. The payload remains the same regardless of the steering angle.

Ungeteilter Rahmen für hohe Standsicherheit …



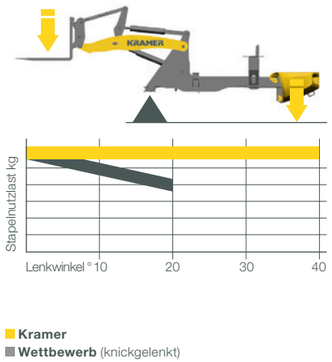
… ohne Schwerpunktverschiebung.

Wenden in einem Zug mit Allradlenkung …



… statt zeitraubendem Manövrieren mit Knickgelenk.

Konstante Hebelverhältnisse für konstante Nutzlast



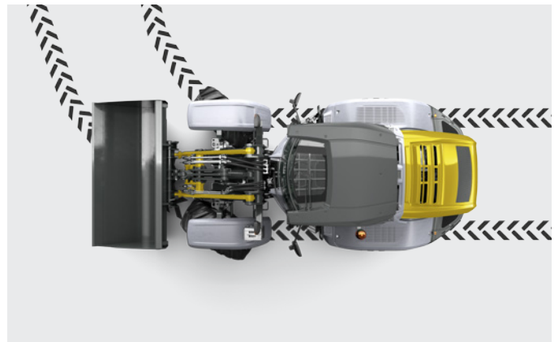
Kramer
Wettbewerb (knickgelenkt)

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.

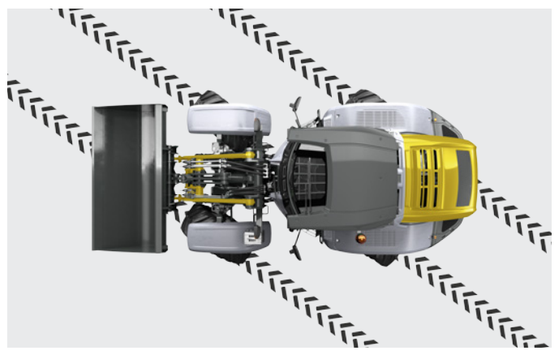
All-wheel steering

- 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

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

This is why Kramer is the right machine!
See for yourself

Kramer will expands its wide product portfolio upwards with the 8155 / 8155L. The wheel loader convinces with outstanding performance data despite its low weight - plus a new design, technical innovation and high quality build and components make it something unique. Your problem solver for a wide range of tasks and challenges in construction. See for yourself!

The completely re-designed cab concept
with ergonomically arranged operating elements, 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 bucket repositioning are only a few features which are part of the standard equipment for the range.

Strongly performing and efficient Deutz engines of emission stage IV
Standard: TCD 3.6 with 100 kW, Optional: TCD 4.1 with 115 kW.

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

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

Standard loader unit with PZ kinematics
combines high lifting and tearing forces with exact parallel guidance over the entire lifting reach.

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

Strongly performing load-sensing hydraulics
with 150 l/min (optional 180 l/min) for faster working cycles.

Versatile options at the rear
make the loader into a perfect all-rounder: inter-alia various hydraulic control circuits, electrical outlet, DIN 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 propulsive force with sensitivity.

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

Extremely robust hydraulic quickhitch facility
for hardest applications with 61.5 mm mounting - and 50 mm locking bolts in diameter according to ISO 23727.

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

Wide range of tyre 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 manoeuvrable and flexibly equipped for all applications.

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

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. (optional engine)	Nm at rpm	500 Nm at 1600 rpm (609 Nm at 1600 rpm)	
Displacement (optional)	cm^3	3621 (4038)	
Exhaust emissions stage	–	EU Stage IV / US EPA Tier 4	
Exhaust gas after-treatment (optional engine)	–	DOC + SCR (DOC/DPF + SCR)	
Power transmission	Unit		
Drive system	–	continuously 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 tyres	–	500/70R24 Michelin BIBLOAD	
Steering and work hydraulics	Unit		
Functionality	–	Hydrostatic all-wheel steering with emergency steering characteristics, front wheel steering, crab steering	
Steering pump	–	Gear pump above priority valve	
Steering cylinder	–	1 steering cylinder per axle / electrical synchronization	
Steering lock max.	°	2 x 40	
Work pump	–	Variable displacement pump (Load sensing)	
Max. capacity pump	l/min	150 l/min	
Max. capacity of the option pump	l/min	180 l/min	
Max. pressure	bar	250 bar	
Quickhitch system	–	Hydraulic quickhitch facility according to ISO 23727	

* provisional

Technical data*

Kinematics	Unit	8155	8155L
Design system	–	PZ-kinematics	P-kinematics
Lift capacity	kN	83	83
Tearout force	kN	54,7	58,6
Lifting cylinder/lowering lift ram	s	6.5 / 4.6	6.0 / 4.1
Fill bucket (upper/lower position loader unit) // emty bucket (upper/lower position loader unit) tipping cylinder	s	2,4 / 2,8 // 1,78 / 2,18	2,1 / 3,7 // 2,6 / 4,3
Tilt-in and tilt-out angle	°	45 / 45	46 / 45
Filling levels	Unit		
Fuel/hydraulic/DEF tank	l	140 / 125 / 12	
Electrical system	Unit		
Operating voltage	V	12	
Battery/alternator Series TCD 3.6 L4	Ah/A	185 / 120	
Battery/alternator with optional engine TCD 4.1 L4	Ah/A	185 / 150	
Starter Series TCD 3.6 L4	kW	3.2	
Starter with optional engine TCD 4.1 L4	kW	4.0	
Noise emissions **	Unit		
Measured value	dB(A)	103	
Guaranteed value	dB(A)	104	
Noise level in the driver's cab	dB(A)	77	
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 $feet/s^2$)*****	

* provisional

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

*** Uncertainty of measurement as specified in ISO/TR 25398:2006. Please instruct or inform the operator of possible hazards from vibrations

**** on level and secure ground driving appropriately

***** use in extraction under harsh environmental conditions

Technical data*

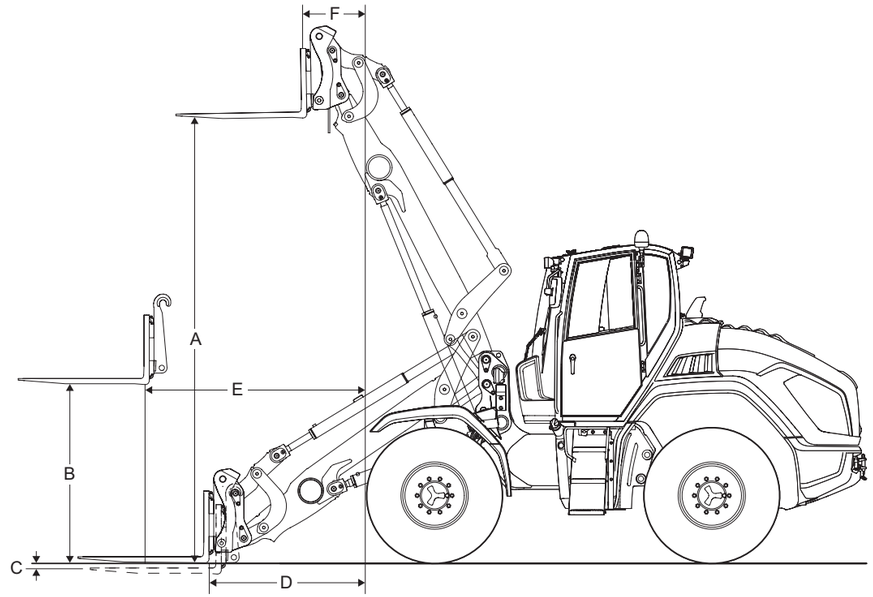
Standard loader unit	Unit	Standard		Light goods	
					
Bucket capacity	m^3	1.55	1.55	2.35	2.90
Material density	t/m^3	1.8	1.8	1.3	0.9
Overall length	mm	6,699	6,557	6,920	7,210
Bucket width	mm	2,500	2,500	2,500	2,500
Bucket pivot point	mm	3,765	3,765	3,765	3,765
Load-over height	mm	3,525	3,495	3,516	3,516
Dumping height	mm	2,685	2,785	2,530	2,320
Dump reach	mm	1,068	968	1,225	1,430
Dig depth	mm	151	181	160	160

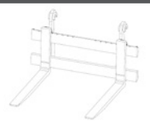
Extended loader unit	Unit	Standard		Light goods
				
Bucket capacity	m^3	1.35	1.35	2.45
Material density	t/m^3	1.8	1.8	0.9
Overall length	mm	7,310	7,170	7,670
Bucket width	mm	2,500	2,500	2,500
Bucket pivot point	mm	4,200	4,200	4,200
Load-over height	mm	3,955	3,925	3,945
Dumping height	mm	3,170	3,270	2,915
Dump reach	mm	1,270	1,170	1,524
Dig depth	mm	140	170	150

* provisional

Technical data*

Extended loader unit 8155L

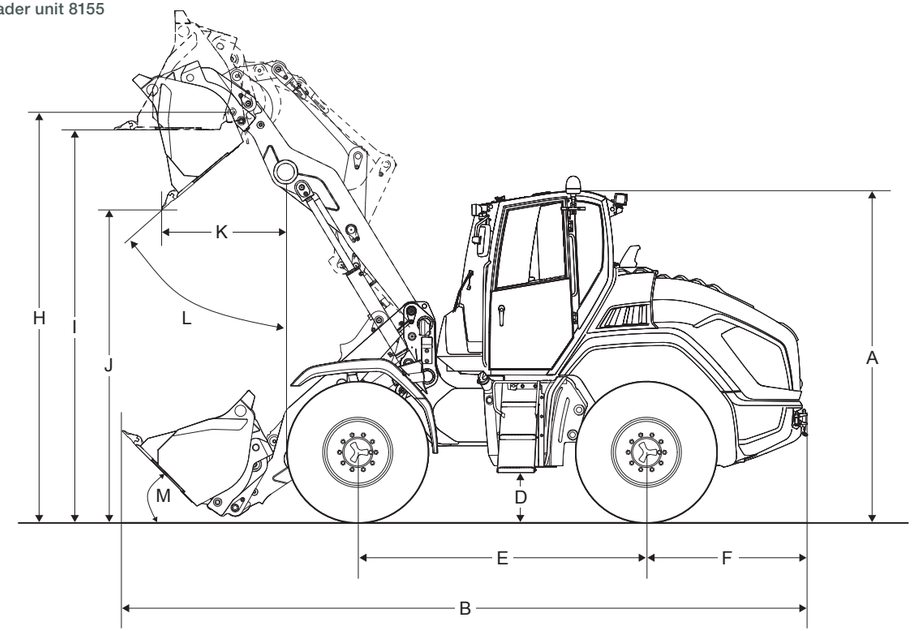


Pallet forks (Load center 500 mm)		Unit	Standard loader unit	Extended loader unit
				
–	**Fork carriage width**	mm	1,500	
–	**Length of tines**	mm	1,200	1,200
–	**Tipping load (forks)**	kg	4,900	4,580
–	**Payload S=1.25**	kg	3,900	3,650
–	**Payload S=1.67**	kg	2,930	2,730
A	**Stacking height**	mm	3,605	4,055
B	**Lift height, horizontal position**	mm	1,745	1,745
C	**Scraping depth**	mm	56	56
D	**Reach at ground level**	mm	772	1,465
E	**Reach at arms horizontal**	mm	1,580	2,090
F	**Reach at max. height**	mm	707	955

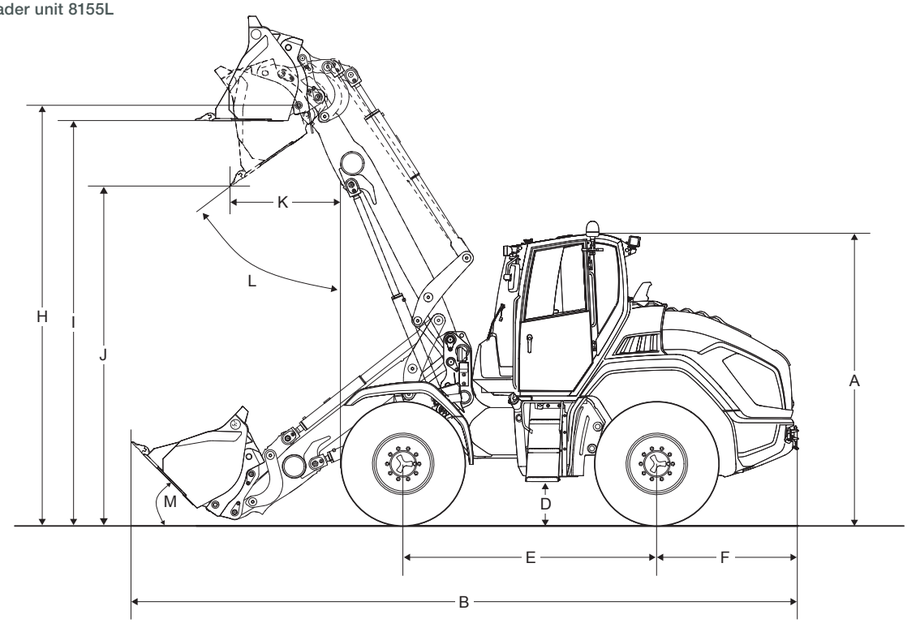
* provisional

Dimensions*

Standard loader unit 8155

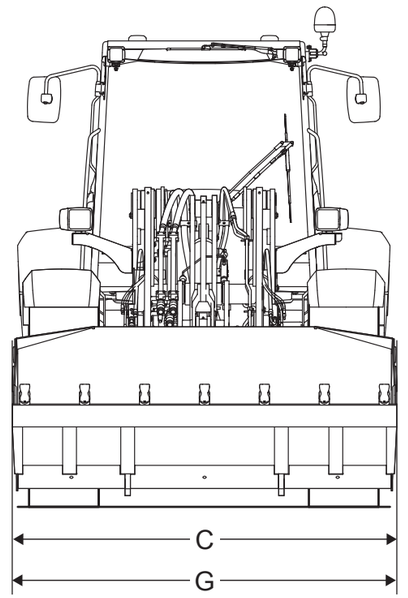


Extended loader unit 8155L



Dimensions*

Front view 8155



		Unit	8155	8155L
A	Height	mm	3,060	
B	Length	mm	6,699	7,310
C	Width	mm	2,500	
D	Ground clearance	mm	420	
E	Wheel base	mm	2,620	
F	Center of rear axle to end of vehicle	mm	1,575	
G	Bucket width	mm	2,500	
H	Bucket pivot point	mm	3,765	4,200
I	Load-over height	mm	3,525	3,955
J	Dumping height	mm	2,685	3,170
K	Dump reach	mm	1,068	1,270
L	Tip-out angle	°	45	45
M	Tipping angle	°	45	46

* provisional / Information: Dimensions refer to standard equipment with standard bucket.

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KRAMER
on the safe side

Wheel loaders
Tipping load: 1,000 - 5,600 kg

Tele-Wheel loaders
Tipping load: 2,500 - 3,500 kg

Telehandlers
Payload: 2,700 - 5,500 kg

Service that you can see

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

Repair & maintenance | Academy | Telematics | Insurance | Spare parts | Finance

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