

INTO THE FUTURE WITH ELECTRIC DRIVE

The 5055e eLoader



KRAMER
on the safe side



Full freedom from emissions with full power

Discover the first fully electric wheel loader of its size with all-wheel steering

With the electric wheel loader 5055e, CO2 restrictions, soot particle limit values or noise emissions values to be met will in the future no longer play a role in your daily work. The fully electrically operated wheel loader works completely free of emissions, protects the environment and end users – it also knows how to score in terms of efficiency and profitability. And so that the performance is also right, the 5055e combines electric mobility with the constant high payload, off-road capability and comfort of the classic Kramer wheel loader.

On the safe side with Kramer

Rich in tradition, the Kramer brand has been established on the market for many years and in particular stands for one value: **safety**. The high quality of the innovative machines is only one aspect of this. As a company, Kramer is a safe choice for customers and dealers, as the experience and power of innovation of the company ensure investment security and future viability. In short – you are always on the safe side with Kramer: **“Kramer – on the safe side!”**

➔ ON THE SAFE SIDE

Table of contents

The technology

The battery technology
All benefits at a glance

04

The machine

Engines
Loading unit
Tyres

06

Our features and services

Kramer quality
Attachments

08

Dimensions and options Technical data

10

Information about zero emissions at Kramer can be found here:
kramer.de/zeroemissions



The bauma Innovation Award is awarded to companies that offer practice-oriented technology for the construction, building materials, and mining industries while keeping an eye on the environment, resources, and people. In 2016, Kramer received the award in the “Machine” category for the 5055e.



It's all about the technology

Rediscover the future

A total package that can be seen: The advantages of the 5055e speak for themselves. For the fully electric wheel loader not only scores with its freedom from emissions, but also with the high performance and efficiency of the classic wheel loader. This provides a maximum degree of effectiveness at low cost.

Kramer emphasises the co-ordination of elements and components to allow precise operation. To achieve this, two electric motors are used: one for the work hydraulics and one for the drive system. Depending on the application, power is automatically provided by the respective motor. This helps to minimise energy consumption. The electric motor is operated via time-tested and proven lead-acid-AGM rechargeable batteries. The battery charger is already integrated here. The standard package includes two charging cables, including plugs from the CEE system (3 and 5-pole) so that you benefit from a significantly more powerful plug connection between the outlet and the coupling on the charging cable, which leads to an optimisation of the charging. With a charging voltage of 230 V (1st phase) and a max. charging current of 16 amps, the charging process is about 5 - 8 hours.* Depending on the application and utilisation of the wheel loader, a single charge will provide up to 4 hours of operation.**

zero emission

	5055e
Bucket capacity (m ³)	0.65
Operating weight (kg)	4,130
Engine output (kW)	15
Hydraulic motor engine output (kW)	22



Powerful lead-acid battery for increased performance.

Your advantages at a glance

We distinguish products that are first-rate in terms of economic efficiency and environmental friendliness, but also in terms of sustainability with our ECO seal.



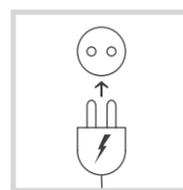
Environmental advantages

- Lower CO₂ footprint
- No particulate pollution for the end user and the environment
- Gentle treatment of resources



Low noise emissions

- Ideal for noise-sensitive areas such as city centres, cemeteries, hotel facilities, parks and recreation areas
- Suitable for winter service (e.g. hotel and municipal application)
- Less noise for (new) residential areas



No exhaust emissions

- Ideal for indoor work
- Possible to work in tunnels without expensive exhaust systems
- No impairment of air quality in urban applications because of complete zero emissions
- No emission burden on zoos or parks



Economic advantages

- Future-oriented technology
- Low maintenance costs
- Full-size wheel loaders with new drive technology
- Cost savings because electricity is used instead of diesel
- Pay-back of additional costs after approx. 2,500 operating hours
- Up to 4 hours of run time from a fully loaded battery**



Emission-free work indoors – protects end users and the environment.

* depending on the state of discharge of the battery. ** determined via Kramer test cycle.

Certainly innovative, Future-proof and well-thought-out down to the last detail

As the first fully electric wheel loader in its size class, the 5055e combines the benefits of electric mobility with the performance parameters of a traditional Kramer wheel loader. A cooperation that convinces across the board.



Flexible use
thanks to the 3rd control circuit, unpressurised return flow with drain line and front outlet.

The hydraulic quickhitch facility
makes the 5055e an all-rounder in seconds without leaving the operator's seat.

Long loader unit
for more flexibility.

Safer and faster transport of materials
thanks to the automatic vibration dampening.

Fatigue-free work
thanks to the spacious and ergonomic comfort cab.

Reduced operating costs
thanks to efficient engines and the use of electricity.

Two electric motors
ensure high efficiency and performance.

The charge time
is between 5 - 8 hours –
and interim charge is always possible too.*

Electric motors do not require an air filter,
which makes the machine less susceptible to
damage when in dusty applications.

Nothing gets our wheel loader off track

"When designing and developing the 5055e, our top priority was to offer the end user the usual efficiency output of the traditional wheel loader in addition to the fully electric drive. Whether lift capacity, traction or operating comfort – we successfully ensured that the user does not have to make any compromises."

Martin Eppinger | Technical managing director | Kramer-Werke GmbH

Front-wheel and all-wheel steering –
continuous drive system with two steering modes.

The right tyres for every application
and excellent traction thanks to the
100% connectible differential lock.

* depending on the state of discharge of the battery.

The future needs a past

New technology, time-tested and proven quality

With the fully electric drive of the 5055e, you will be able to work completely free of emissions. At the same time, you will benefit from the proven efficiency output, stability, and constant payload of a Kramer wheel loader. You can always rely on the high quality of our machines.

High level of stability

Our wheel loaders are designed with an undivided chassis that prevents shifts in the centre of gravity – even when on a full steering lock. This ensures Kramer machines have a high degree of stability – even when operating in poor ground conditions.

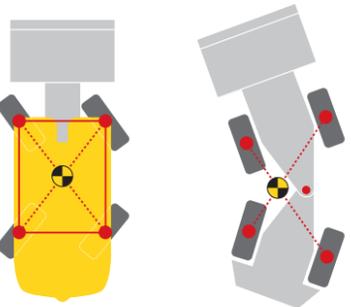
Enormous manoeuvrability

The all-wheel steering and the steering lock of 38 degrees on each axle allow a high degree of manoeuvrability. Some steering manoeuvres therefore become unnecessary, resulting in shorter cycle times.

Constant payload

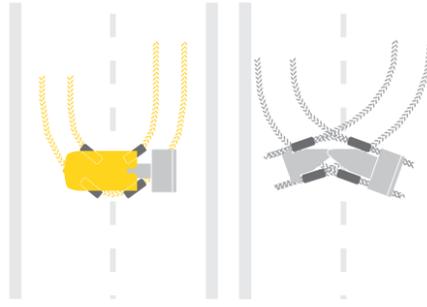
The undivided chassis prevents the clearance between the counterweight and loading system from changing. The result: Constant leverage that makes working safe in all load situations. In the process, the payload always stays the same, whatever the steering angle.

Undivided chassis for a high level of stability...



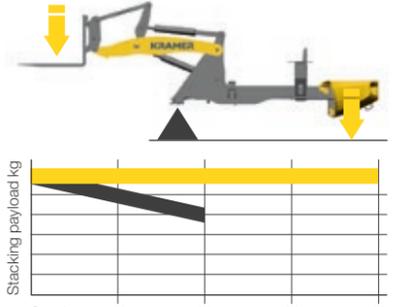
...without a shift in the centre of gravity.

Turning made easy with all-wheel steering...



...instead of time-consuming manoeuvring with an articulated joint.

Constant leverage for constant payload



Stacking payload kg

Steering angle °

■ Kramer
■ competition

Flexible applications

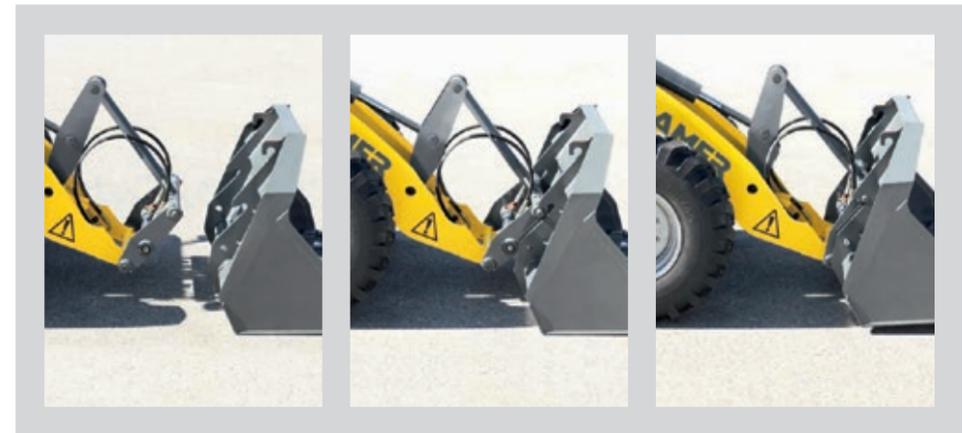
Ready in seconds

Regardless of what challenges your application holds: With our attachments, you will always have a handle on the situation. Thanks to the hydraulic quickhitch system, you can adapt your 5055e to any situation in no time. The attachment is based on your needs.



Work accurately with the right attachment.

You can find out more about our attachments here: www.kramer.de



Attachments can be changed in seconds thanks to the quickhitch facility.

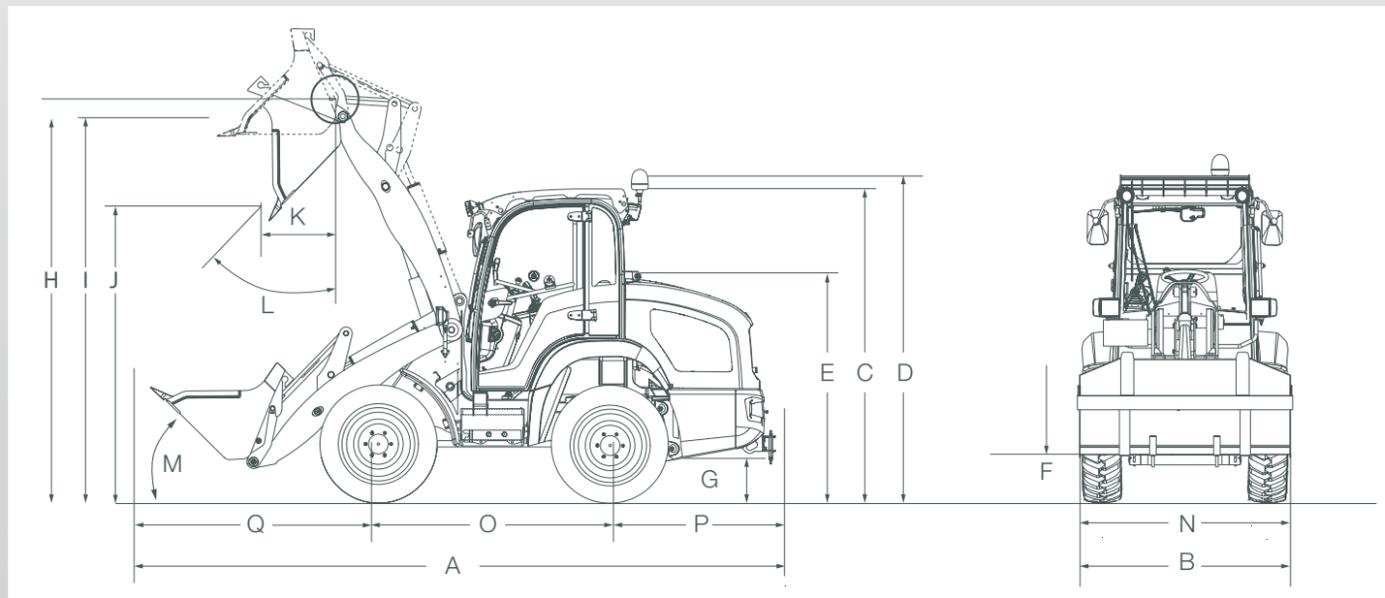
Dimensions and options

Electric wheel loader 5055e			
Dimensions	Unit	S = standard loader unit	L = extended loader unit ⁶
A Total length ^{1,2}	mm	4,950	5,140
B Total width ¹	mm	1,650	1,650
C Overall height with cabin ^{3,4,5}	mm	2,390	2,390
D Overall height with FOPS protective grating ^{3,5}	mm	2,470	2,470
E Overall height of upper edge of engine hood ^{3,5}	mm	1,700	1,700
F Ground clearance in transport position of the loader unit	mm	250	250
G Ground clearance ^{3,5}	mm	280	280
H Bucket pivot point ^{3,5}	mm	3,050	3,300
I Load over height ^{3,5}	mm	2,880	3,280
J Dumping height ^{3,5}	mm	2,350	2,620
K Dumping reach ¹	mm	320	410
L Bucket empty angle ¹	°	42	42
M Bucket fill angle ¹	°	48	51
N Track³ front/rear	mm	1,262	1,262
O Wheel base (Front/rear axle centre)	mm	1,850	1,850
P Distance from centre of rear axle to the rear	mm	1,320	1,320
Q Distance from centre front axle to blade leading edge	mm	1,780	1,970
- Stacking height	mm	2,830	3,050
Turning radius:			
- Outer edge of wheel³	mm	2,700	2,700
- Outer edge of bucket¹	mm	3,550	3,780

¹ With standard bucket 1000260472 (S) or 1000275101 (L)²
² With towing device
³ With tyres 12.0-18
⁴ With rotating beacon + 200 mm (+7.9 in)
⁵ With 325/70 R18 tyres (-10 mm) (-0.39 in) with 365/70 R18 tyres (+10 mm) (+0.39 in)
 With 335/80 R18 tyres (+30 mm) (+1.18 in) with 340/80 R 18 tyres (+25 mm) (+0.98 in)
⁶ Payload divergent

BATTERY		
	Unit	Lead acid Fleece***
Mains voltage of the battery charger	V	CEE system (3 and 5-pole)
Battery voltage	V	80
Rated capacitance	Ah	416
Battery weight	kg	1,340
Charging time*	h	5-8
Running time during long-time application**	h	2
Running time during normal activities** (uninterrupted)	h	4

* dependent on the state of discharge of the battery.
 ** determined via Kramer test cycle.
 *** with integrated charger.



Technical data

Operating and performance data	Unit	
Bucket content (standard bucket)	m³	0.65
Operating weight (standard equipment)	kg	4,130
Quick hitch system	-	hydraulic
Engines	Unit	
Make of drive/work hydraulics	-	JULI / Jungheinrich
Type/Model	-	asynchronous
Power of drive/work hydraulics	kW	15 kW / 22 kW
Max. torque (Nm)	rpm	220 Nm (0-1,200 rpm)
Exhaust emission stage	-	Emission-free
Power transmission	Unit	
Drive system	-	Continuously controllable electric drive system
Travel speed	km/h	0-16
Axes	-	Planetary steering axles
Total oscillation angle rear axle	°	16
Differential lock	-	100% VA
Service brake	-	Hydraulic disc brake
Parking brake	-	Electrically triggered spring brake
Standard tyres	-	12.0-18
Steering and work hydraulics	Unit	
Functionality	-	Hydrostatic all-wheel steering with emergency steering properties Front drum steering (option)
Steering pump	-	Gear pump via priority valve
Steering cylinder	-	Double-acting with independent final position synchronisation
Max. steering lock	°	2x38
Work pump	-	Gear pump
Max. flow rate (pump)	l/min	54
Max. pressure	bar	235

Kinematics	Unit	
Design system	-	P-kinematics
Lift capacity/tearout force	kN	30.4/28
Raising/lowering lift cylinder	s	5.0/3.2
Fill bucket/empty shovel tipping cylinder	s	2.8/3.2
Tipping load (standard bucket)	kg	2,500
Tipping load (pallet forks)	kg	2,250
Payload S=1.25 (pallet forks)	kg	1,750
Payload S=1.67 (pallet forks)	kg	1,300
Payload in transport position	kg	2,000
Capacities	Unit	
Hydraulic tank	l	40
Electrical system	Unit	
Operating voltage	V	80 V DC/48 V AC drive system and 43 V AC hydraulic motor
Battery	Ah/A	416 Ah AGM
Noise emissions*	Unit	
Measured value /Guaranteed value	dB(A)	81 / 85
Vibrations**	Unit	
Vibration total value of the upper body extremity	-	< 2.5 m/s ² (< 8.2 feet/s ²)
Highest effective value of weight-ed acceleration for the body	-	< 0.5 m/s ² (< 1.64 feet/s ²)

* Information: The measuring took place according to the requirements of the standard DIN EN 474-1 and the directive 2000/14/EC. Place of measurement: Asphalted surface.

** The uncertainty of measurement of the vibration measurement according to the requirements of the standard DIN EN 474-1 and EN 12096. Please instruct or inform the operator of the possible dangers from vibrations.



Wheel loaders

Bucket capacity: 0,35 - 1,80 m³



Tele-Wheel loaders

Bucket capacity: 0,65 - 1,45 m³



Telehandlers

Payload: 1,200 - 5,500 kg

Service that can be seen

Focus on your daily activities – with our comprehensive services, we take care of the rest. We are there when you need us: capable, fast, and directly on site if necessary.



Repair & maintenance



Academy



Telematics



Insurance



Spare parts



Finance



KC.EMEA.10246.V03.EN