

Telehandler



**KRAMER**



Refined, right down  
to the last nut and bolt.  
The compact telehandlers from Kramer.

With their ultra compact dimensions, Kramer telehandlers open up a wide range of applications in the areas of the construction industry, gardening and landscaping architecture, municipalities and rental parks. The efficient machines impress with their dynamic all-wheel drive, high payloads, unbeatable manoeuvrability and low operating weights.





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2506

20

Made to work



When it matters...  
Safe, even at the limit



# Maximum performance that is state of the art.

And features that give you a competitive edge every day.

**Optimised for all work:** A Kramer offers an overview and provides safety. A perfectly designed cab, wide pull down windows and a suspension comfort seat are the basis for an effective work performance. And instead of X levers, there is only one joystick for enhanced work satisfaction.

**Perfect for close quarters:**

With 1.90 metres of clearance height and 1.41 metres of width, confined working conditions are the true home of the 804. When it matters... Full performance in the smallest space.

**Nimble and incredibly agile:** A strong hydrostatic all-wheel drive, an inner turning radius of only 595 mm and a travel speed of up to 17 km/h: Convincing values and a high level of mobility from Kramer.



804



1245



2205



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**Efficiency and safety in a new dimension:**

The Smart Handling driver assistance system does more than comply with safety standard EN 15000 (protection against tipping of the machine in a longitudinal direction). The automatic design of the hydraulic functions also actively supports the operator.

**Designed with vision:** Low operating weight, ergonomic joystick controls and a comfort cab with 360° panoramic views.

**Includes plenty of power reserves:** The hydraulic system more than satisfies all requirements thanks to the high lifting and shearing forces.

**Outfitted for new tasks in seconds:**

Saves time, provides safety and sustainably improves the workflow – the hydraulically activated quick-hitch system from Kramer.



**Future from tradition:** Everything is compactly sized, intelligently controlled and conveniently equipped, as you would expect from a Kramer. The future is built-in.

# Small machines with maximum power output.

The compact and manoeuvrable telehandlers from Kramer.

Compact, manoeuvrable and strong. These are the characteristics of the Kramer telehandler that you will not want to miss out on in the future. With small inner radii and a travel speed of up to 20 km/h, the 804 and the 1245 provide for a new mobility in all areas of work.







**INNER RADII mm**

804	595
1245	821
2205	1,193
2506	1,700

**804 and 1245:**

- Ideal combination of lifting height, width and machine capacity.
- Extremely small turning radii.
- Easy to transport.
- Good working ergonomics and clearly-arranged instruments.



# Power and performance in perfect form.

You will love every detail.

**When things get tight, it shows what it can really do:** With its overall height of less than 1.95 metres and at 1.80 metres wide, the 2205 is the ideal machine for tight spaces.

**Work in your personal comfort zone:** The adjustable steering column and the comfort seat, the large legroom and the convenient control via the joystick make work all around more comfortable.

**Maintenance easier than ever:** Inspection glasses are present for all important operating liquids.



804



1245



2205



2506

**Lift 2.5 tons of payload nearly 6 metres high.**

With this power rating, the 2506 is recommended for your loading and transport work. Combined with the final position dampening in the telescopic cylinder, it makes materials handling even more convenient.

**Keeping the future in sight:** Low operating weight, ergonomic joystick controls and a comfort cab with 360° panoramic views.

**Drive for maximum performance:** The hydrostatic all-wheel drive with an inching brake pedal provides maximum power and, with its large ground clearance and off-road mobility, it can be used wherever it is needed.

**Low centre of gravity for maximum stability.**

Whether working on the streets or transporting across uneven terrain – the 2506 remains firmly on the ground. Whatever the situation.

**Three types of steering (optional) and a high level of manoeuvrability.** Best in class manoeuvrability – and always working from the ideal position ensures maximum productivity.



# New perspectives in safety and comfort.

This also makes Kramer telehandlers particularly efficient.

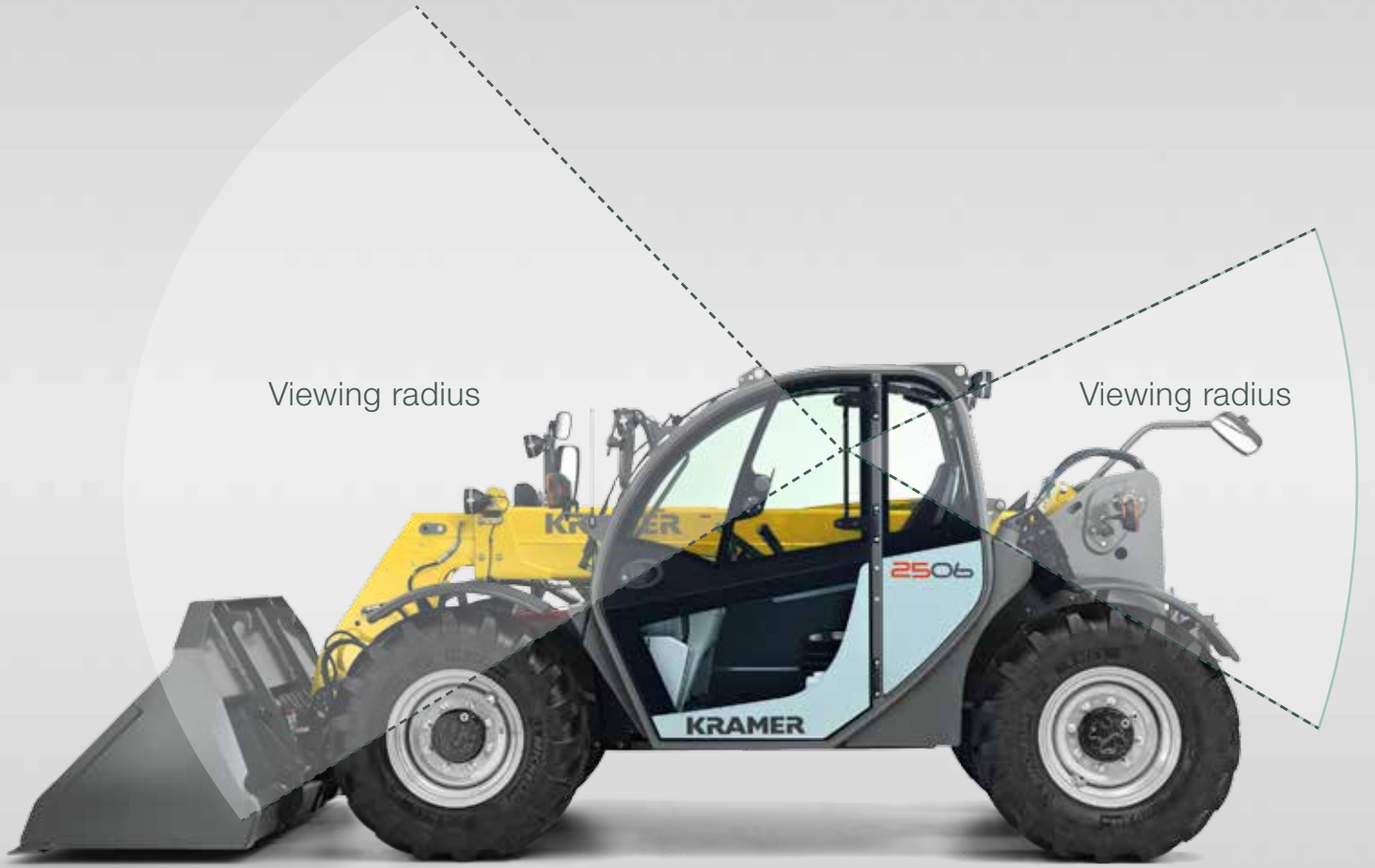
**The love of the technical solution makes the machine.  
And the excitement of working with the machine creates the result.**

Kramer's compact telehandlers are strong and quick. They have been built with the human being in mind so that we can use them efficiently and control them safely in all circumstances. The perfect all-round visibility and the practice-oriented arrangement of the operator's controls make the difference.



**Complete visibility  
as standard.**

An unobstructed view of the attachment and working area makes it easier to concentrate on the essentials and hence enhances safety.



# Built to cope with tough jobs.

The sturdy and stable telehandlers from Kramer.

Regardless of what you are doing. Regardless of what you have planned. With Kramer telehandlers, you are perfectly equipped for any job. On the one hand, this is thanks to the sturdy design and undivided chassis and, on the other to the strong hydraulic system and the perfect sizing of the boom. This makes all difficult on-site construction work easier than ever. But also in open terrain, the telehandlers flawlessly show their strengths with the latest Kramer all-wheel technology and generous ground clearance.



**A time-tested and proven principle and backbone of the long-term success of Kramer:** The undivided chassis for perfect stability, consistently high payload without if's and but's and the optimal power to weight ratio of the machine.



**Power and quality at all times.** The hydraulically activated lifting arm is a small masterpiece of its own: from the high-grade steel through the tried-and-tested, well-protected hose guide to the perfect kinematics.



## 1 Powerful and stable at the same time

loading and lifting work can be taken care of precisely.

## 2 Simply drive up to the attachment

hitch it up hydraulically from your seat and safely unlock or lock it with a clear line of sight.



# Two machines in one is pretty smart.

And with a high level of stability.



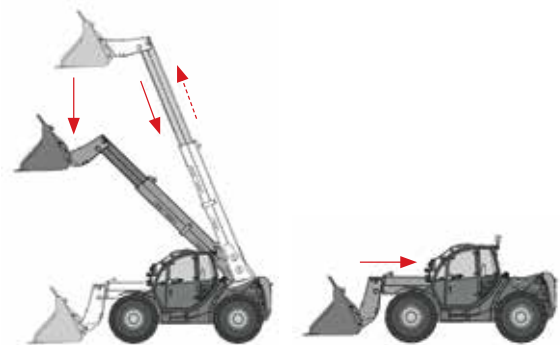
Stricter requirements for the steadiness of telehandlers are an important topic for the manufacturer. That is why the standard EN 15000 requires an overload protection system for telehandlers in order to avoid the vehicle tipping over in the longitudinal direction during static operation. This is used for the maximum protection of the operator and machine. Practice, however, has shown: Safety is often at the expense of productivity. For example, because hydraulic functions simply shut down in the event of an overload.

We at Kramer have given a great deal of thought to how we can make a virtue out of necessity and also offer our customers an added value.

## 1. Bucket mode\*

When lowering the loading system, it is automatically retracted. The ratio of the retraction to lowering movement is designed so that the machine does not go into the overload range, even with maximum payload. The automatic retraction can be overridden with the joystick until reaching the overload limit.

\* For details, see the operator's manual of the vehicle



### Advantages:

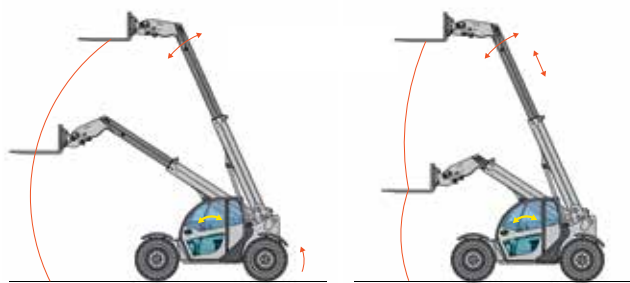
- Smart handling automatically carries out two work steps that increase the efficiency of the loading cycle and makes life easier for the operator.
- The workflow is never interrupted by a shutdown of the hydraulic functions.
- Maximal protection for the operator and machine, as the telescopic arm is always completely retracted when pushing material.





## 2. Stacking mode

When lifting and lowering the telescopic arm, the load moves on an approximately vertical line with the models 804 - 2205. With the 2506, the automatic function is restricted to the "lowering" function. The operator enjoys stress-free working thanks to these vertical lifting-lowering functions, as the material is transported to the desired position faster and more safely.



— Operating parameter    — Response of the loading system

### Advantages:

- it is possible to position pallets exactly.
- The workflow is never interrupted by a shutdown of the hydraulic functions.
- Maximum protection for the operator and telescopic handler, even with high lifting heights

# Our attitude about the topic of maintenance?

Open for a quick and easy service.

Kramer telehandlers also offer excellent access to all components for quick and easy service and maintenance work. Simply open the bonnet and perform the maintenance – and you are back to full application in no time. But there's more. Thanks to the latest fault diagnosis tool, errors in the electronic system or in the hydraulic system can also be found quickly and easily. All of this saves time, money and nerves.





## All important maintenance points at a glance:

- 1 Filling neck for hydraulic oil
- 2 Inspection glass for the hydraulic oil fill level
- 3 Air cleaner
- 4 Engine oil filler neck
- 5 Engine cooling expansion tank, including fill level indicator
- 6 Dipstick for motor oil fill level
- 7 Cover can be removed with a few screws, for example to replace the battery
- 8 The floor plates and cover for the lower part of the crankcase can be removed with a few simple steps for optimal service access, for example to change the engine oil



# Your Kramer telehandler:

Adapted to your personal needs.

With Kramer, you are also on the safe side - we offer you our telehandlers already with good, comprehensive and sturdy standard equipment. In addition, with our different options, you can assemble your machine in terms of drive system, tyres, hydraulics and the driver's cab so that it is one-hundred per cent tailored to you and your work tasks.

**804**



**1245**



**2205**



**2506**



# Standard equipment and options.

	804	1245	2205	2506
<b>DRIVE SYSTEM</b>				
Hydrostatic all-wheel drive	●	●	●	●
100% differential lock, electrically-hydraulically connectable	○	○	○	○
Travel speed 0–17 km/h	●	–	–	–
Travel speed 0–20 km/h	–	●	●	●
Speed increase to 30 km/h	–	–	○	○
<b>TYRES (for more, see p. 25)</b>				
Tyres 27 x 10.0 - 15 AS ET20	●	–	–	–
Tyres 10.0/75 - 15.3 AS ET -40	–	●	–	–
Tyres 10.5/80 - 18 AS ET0	–	–	●	–
Tyres 12.5 - 18 MPT-04	–	–	–	●
<b>HYDRAULICS</b>				
3. control circuit, front	●	●	–	–
3. control circuit front, proportionally via joystick	–	–	●	●
3. control circuit comfort, via touch button on joystick	○	○	–	–
4. control circuit, electrically double-acting	–	–	●	●
High Flow single-acting	–	○	○	–
Unpressurised reverse travel	○	○	○	○
Engine pre-heating + hydraulic oil 230 V	○	○	○	○
Three-point rear tool holder	–	○	○	–
PTO at 540 rpm	–	○	○	–
<b>DRIVER'S CABIN</b>				
Operator's canopy roll-over protective structure and FOPS-tested (right window)	●	●	–	–
Front window with washer	○	○	●	●
Rear window	○	○	●	●
Cab with heater, fan and windscreen wiper roll-over protective structure and FOPS-tested (fully glazed)	○	○	●	●
Work light on the driver's cabin	○	○	●	●
LED work light	○	○	○	–
Comfort seat with safety belt	●	●	●	●
Comfort seat with safety belt and air cushioning	○	○	○	○
Heated seat	–	–	○	–
Fuel display	●	●	●	●
Operating hour meter	●	●	●	●
Lighting equipment according to Road Traffic Regulations	○	○	○	○
TÜ [Technical Control Board] certificate for driving on public roads	○	○	○	–
Data confirmation	–	–	–	●
<b>OTHER</b>				
Smart Handling overload assistance system	●	●	●	●
Load stabiliser	–	–	○	○
Battery isolator switch	●	●	●	○
Fully automatic central lubrication unit	○	○	○	○
Mechanical quick-hitch system for attachments	●	●	●	●
Hydraulic quick-hitch system for attachments	○	○	○	○

- Series
- Option
- Not possible

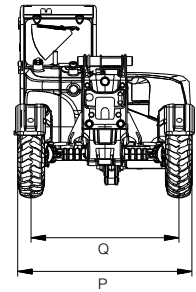
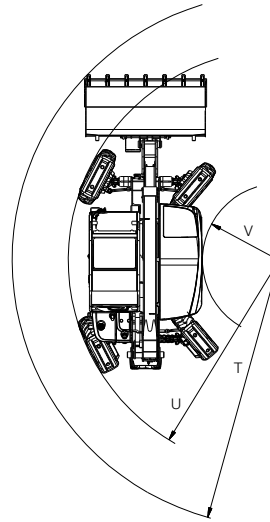
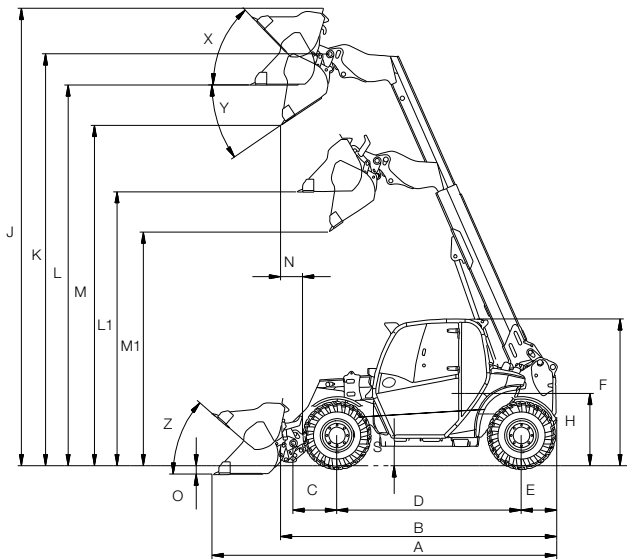
# Technical data.

	804	1245	2205	2506
<b>ENGINE DATA</b>				
<b>Manufacturer</b>	Yanmar	Yanmar	Perkins	Deutz
<b>Type of engine (optional)</b>	3TNV76	3TNV82A (3TNV84T)	404D-22 (404F-22T)*	TD 2009 L04
<b>Cylinders</b>	3	3	4	4
<b>Prime output kW/hp (optional)</b>	19.2/26	22.6/31 (29.6/40)	36.3 / 49 (44.7 / 61)	50 / 68
<b>at rpm1/min</b>	3,000	2,800	2,800	2,800
<b>Displacement cm<sup>3</sup></b>	1,116	1,496	2216	2,290
<b>Cooling</b>	Water	Water	Water	Water
<b>DRIVING HYDRAULICS</b>				
<b>Working pressure bar</b>	330	360	450	450
<b>Work hydraulics</b>				
<b>Discharge volume (optional) l/min</b>	33	42 (75)	70 (106)	89
<b>Working pressure bar</b>	220	220	240	240
<b>DRIVE SYSTEM</b>				
<b>Type of drive</b>	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic
<b>Drive system</b>	Permanent all-wheel	Permanent all-wheel	Permanent all-wheel	Permanent all-wheel
<b>VEHICLE DATA</b>				
<b>Driver's cab (optional)</b>	FSD (cab)	FSD (cab)	Cabin	Cabin
<b>Axle</b>	PAL 1155	PAL 1155	PAL 1530	Planetary steering axle
<b>Travel speed (optional) km/h</b>	0–17	0–20	0–20 (30)	0–20 (30)
<b>Travel speed increases/reductions</b>	2	2	2	2
<b>Fuel tank capacity l</b>	39	25	70	100
<b>Hydraulic oil tank capacity l</b>	40	40	55	75.5
<b>Total swing angle of the tool tray °</b>	148	148	144	150
<b>Total oscillating angle °</b>	14	14	16	20
<b>Max. steering lock °</b>	2x38	2x38	2x40	2x38
<b>Lift cylinder lifting/lowering sec</b>	5.0/3.6	6.1/4.8	6.2/4.2	6/4.1
<b>Extension cylinder extension / retraction sec</b>	3.5/1.9	4.9/3.9	5.1/2.5	5.6/4.9
<b>Tipping cylinder fill shovel / empty shovel sec</b>	2.3/1.7	2.6/2.3	3.1/2.2	2.9/2.5
<b>WEIGHTS</b>				
<b>Operating weight (standard) kg</b>	2,270	2,700	4,200	4,730
<b>Max. payload kg</b>	800	1,200	2,200	2,500
<b>ELECTRIC SYSTEM</b>				
<b>Operating voltage V</b>	12	12	12	12
<b>Battery Ah</b>	77	77	77	74
<b>Alternator A</b>	55	55	85	80
<b>NOISE CHARACTERISTIC VALUES</b>				
<b>Guaranteed sound power level LwA dB(A)</b>	103	101	103	104
<b>Specified sound pressure level LpA dB(A)</b>	84	84	82	80

\*With engine technology according to exhaust emission stage IIIB.

FSD = operator's canopy

# Dimensions.



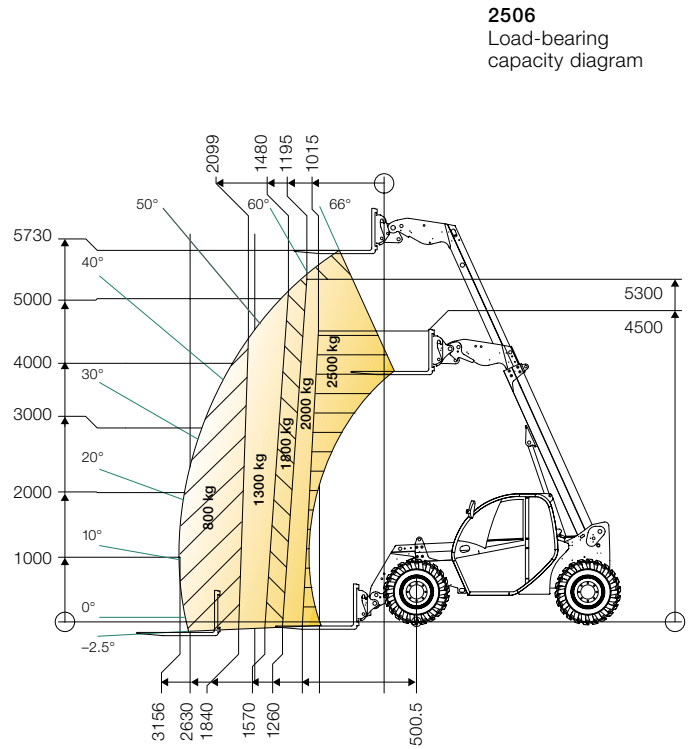
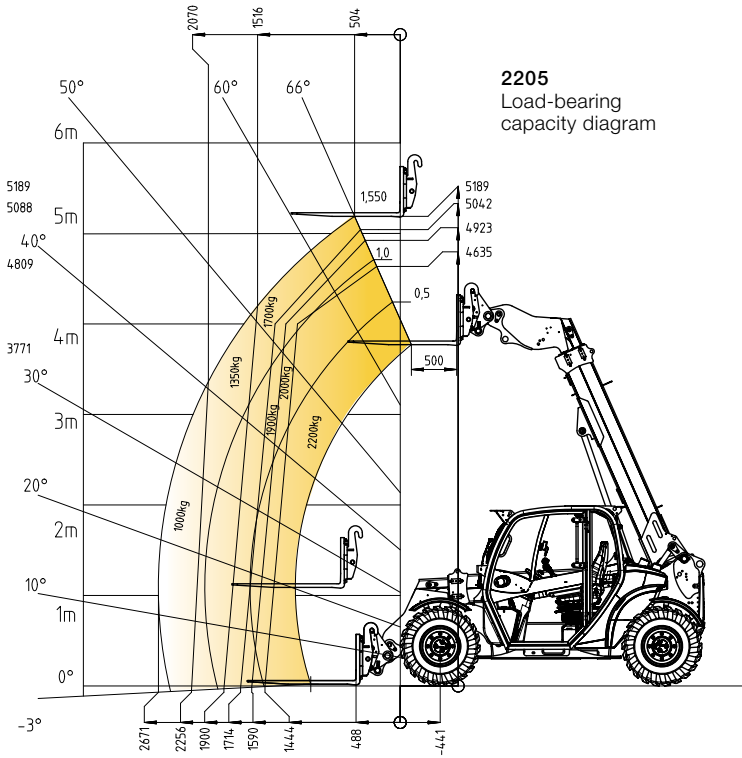
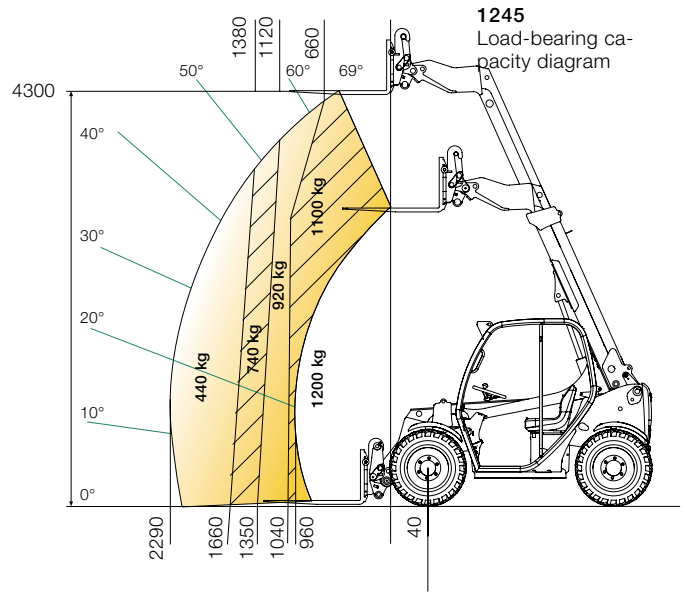
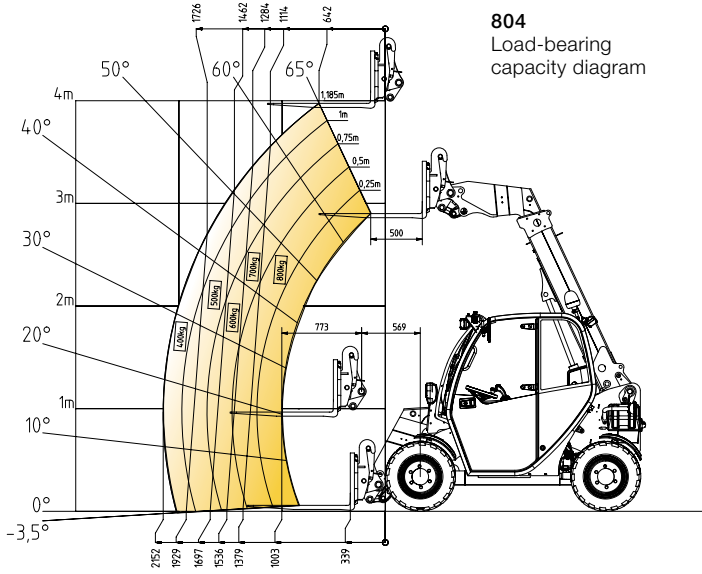
## DIMENSIONS

Standard light materials bucket mm

Dimension	Description
A	Total length mm
B	Total length without bucket mm
C	Axle centre to bucket pivotal point mm
D	Distance between wheels mm
E	Rear overhang mm
F	Height with cab mm
H	Seat height mm
J	Total working height mm
K	Max. height of bucket pivotal point mm
L1	Overhead loading height of telescopic arm retracted mm
L	Overhead loading height of telescopic arm extended mm
M1	Dumping height of telescopic arm retracted mm
M	Dumping height of telescopic arm extended mm
N	Coverage with M mm
O	Digging depth mm
P	Total width mm
Q	Track width mm
S	Ground clearance mm
T	Maximum radius outside mm
U	Radius on outer edge mm
V	Inside radius mm
X	Rollback angle at max. lifting height °
Y	Max. dumping angle °
Z	Rollback angle on bottom °

	804	1245	2205	2506
	1,450	1,600	1,900	2,100
	3,554	3,879	4,576	4,958
	2,717	2,916	3,747	4,300
	406	425	581	1,030
	1,796	1,920	2,449	2,650
	343	391	472	620
	1,900	1,940 (1,960)	1,950	1,980
	914	974	962	1,025
	4,737	5,211	6,074	6,580
	4,145	4,503 (4,523)	5,471	6,080
	2,725	2,909 (2,929)	3,638	3,730
	3,799	4,123 (4,143)	5,056	5,600
	2,244	2,375 (2,395)	3,103	3,450
	3,318	3,589 (3,609)	4,520	5,280
	533	543	293	680
	114	92	111	150
	1,413	1,560	1,808	1,960
	1,252	1,296	1,530	1,660
	223	290 (310)	256	302
	3,034	3,398	4,153	4,500
	2,227	2,607	3,281	3,670
	595	821	1,193	1,700
	52	52	46.5	45
	32	31	34.5	40
	44	44	41	45

# Load-bearing capacity diagrams.





# Vibration characteristic values.

Typical operating conditions	Average value			Standard deviation (s)			
	$1.4 \cdot a_{w,eqx}$	$1.4 \cdot a_{w,eqy}$	$a_{w,eqz}$	$1.4 \cdot s_x$	$1.4 \cdot s_y$	$s_z$	
	[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]	[m/s <sup>2</sup> ]	
<b>VIBRATIONS</b>							
<b>LOAD TYPE</b>							
Compact wheel loader (operating weight < 4,500 kg)	Load & carry (load and transport work)	0.94	0.86	0.65	0.27	0.29	0.13
Wheel loader (operating weight > 4,500 kg)	Load & carry (load and transport work)	0.84	0.81	0.52	0.23	0.20	0.14
	Application in extraction (harsh application conditions)	1.27	0.79	0.81	0.47	0.31	0.47
	Transfer drive	0.76	0.91	0.29	0.33	0.35	0.17
	V-operation	0.99	0.84	0.54	0.29	0.32	0.14

## Whole body vibrations:

- Each machine is equipped with an operator's seat that meets the requirements of EN ISO 7096:2000.
- When the loader is properly used, the whole body vibrations vary from below 0.5 m/s<sup>2</sup> up to a short-term maximum value.
- It is recommended to use the values specified in the table when calculating the vibration values according to ISO/TR 25398:2006. In doing so, the actual application conditions are to be taken into consideration.
- Telehandlers, like wheel loaders, are to be classified by operating weight.

## Hand-arm vibrations (HAV):

- The hand-arm vibrations are no more than 2.5 m/s<sup>2</sup>.

# Only a Kramer is a Kramer.

In demand world-wide – produced in Pfullendorf. .

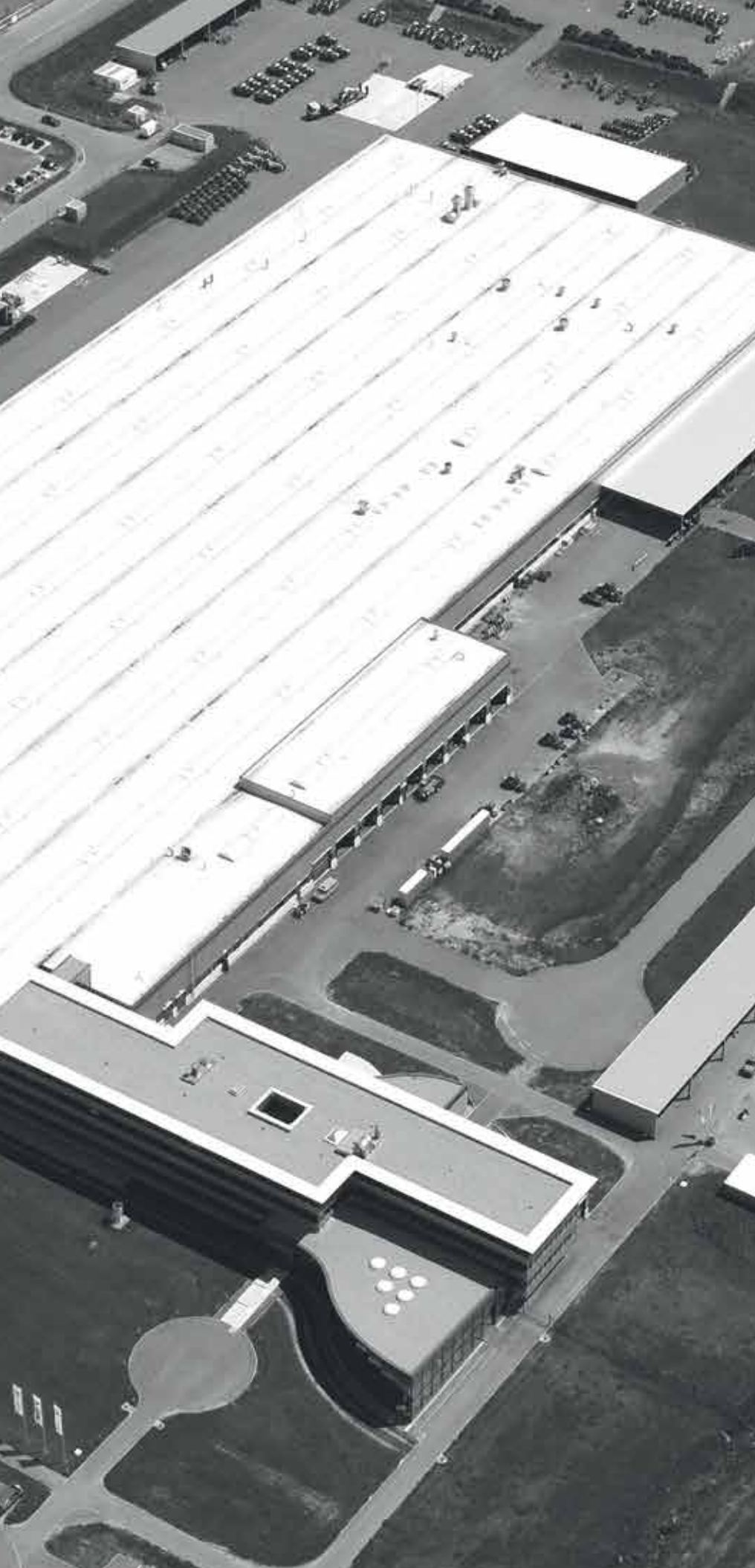
## **The Kramer plant.**

Our company is located in Pfullendorf, Southern Germany. We are one of the world's leading manufacturers of compact loaders for the construction industry and belong to the Wacker Neuson Group.

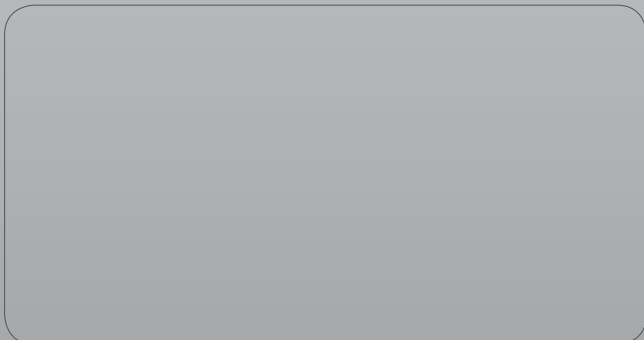
Our values as a medium-sized, family-owned publicly-traded company are convincing. With the strength and expertise of a globally active organisation. With people who fulfil our motto every day with life and ideas.

We believe in: Quality, innovation, performance and character – and the lasting success of our customers. After all, that is what it is all about.





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