



Telehandler

804, 1245, 2205, 2706



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Refined, right down to the last nut and bolt.

The compact telehandlers from Kramer.











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. The joystick replaces lots of levers. The joystick replaces lots of levers.

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.







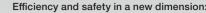




Includes plenty of power reserves: The hydraulic system more than satisfies all requirements thanks to the high lifting and shearing forces.

Designed with vision: Low operating weight, ergonomic joystick controls and a comfort cab with

360° panoramic views.



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.

> Outfitted for new tasks in seconds: Saves time, provides safety and sustainably improves the workflow – the hydraulically activated quick-hitch system from Kramer.

# 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.







INTELL HADII IIIII	
804	5
1245	8
2205	1.1
2706	1.7



#### 804 and 1245:

- Idea 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.



#### Lift 2.7 tons of payload nearly 6 metres high.

With this power rating, the 2706 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.



Low centre of gravity for maximum stability.

Whether working on the streets or transporting across uneven terrain – the 2706 remains firmly on the ground. Whatever the situation.

manoeuvrability - and always working

productivity.

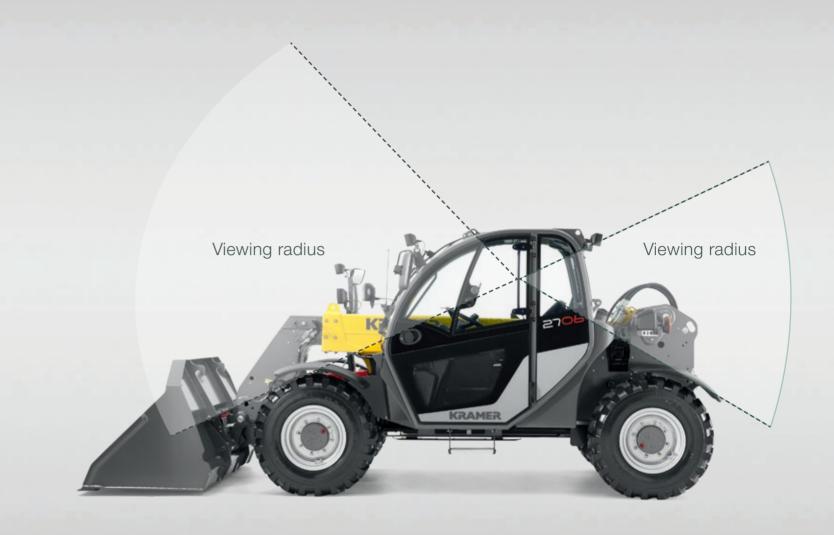
from the ideal position ensures maximum

# 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.

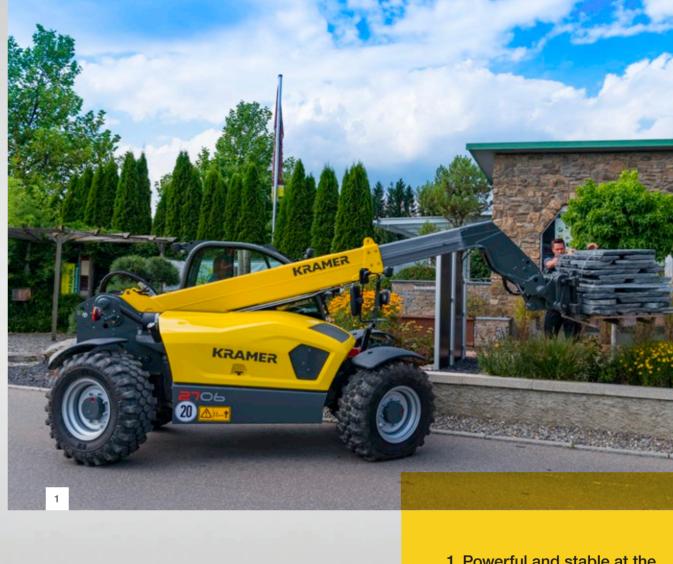
The sturdy and stable telehandlers from Kramer.

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.



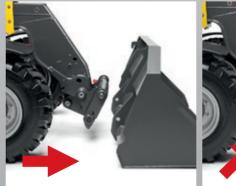


## 1 Powerful and stable at the same time

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.

#### Smart handling: three\* modes for all requirements

#### Bucket mode

- When lowering the loading system, it is always automatically retracted.
- During this lowering motion, the machine never enters into the overload range, even at maximum payload.

#### Stacking mode

- When lifting and lowering, the loading system automatically moves the telescopic arm in a vertical line and telescopes out automatically.
- The centre of gravity of the load does not shift and the machine remains in the safe range.
- This makes stacking faster at greater heights.

#### Manual mode\*

- When lowering the boom, the telescopic arm is not automatically retracted.
- If the overload limit is reached, the lowering motion stops—only lifting, retracting or dumping the material is now possible.
- The lowering speed increases with a decreasing angle.



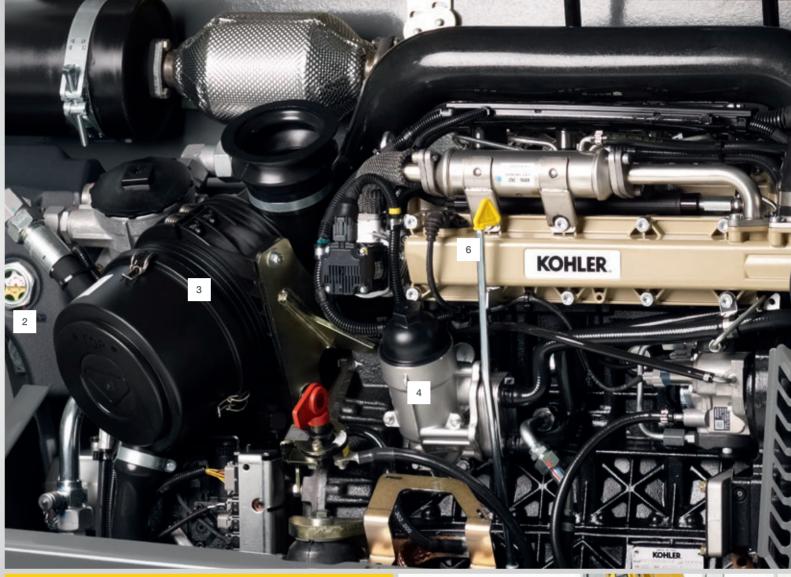
Simply select Smart handling: A mode selection is made on the keypad.

# 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 filter
- 5 Engine cooling expansion tank
- 6 Dipstick for motor oil fill level
- 7 Batterie Cover can be removed with a few screws, for example to replace the battery
- 8 The floor plates and covers 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.



### Standard equipment and options.

	804	1245	2205	270
DRIVE SYSTEM				
Hydrostatic all-wheel drive	•	•	•	•
100% differential lock		0	0	0
Travel speed 0 – 17 km/h		_	_	
Travel speed 0 – 20 km/h		•	•	•
Speed increase to 28 km/h		0		
Speed increase to 30 km/h		_	0	0
TYRES				
Tyres 27 x 10.0 - 15 AS ET20		_	_	-
Tyres 10.0 / 75 - 15.3 AS ET40		•	-	-
Tyres 10.5 / 80 - 18 AS ET0	-	-	•	-
Tyres 12.5 – 18 MPT01	-	-	-	•
HYDRAULICS				
3. control circuit, front	•	•	_	_
3. control circuit, front proportionally via joystick		_	•	•
3. control circuit comfort, via touch button on joystick		0	•	•
4. control circuit, electrically double-acting		_	0	0
High Flow single-acting		0	0	_
Unpressurised reverse travel		0	0	0
Engine pre-heating + hydraulic oil 230 V		0	0	0
Three-point rear tool holder		0	0	0
PTO at 540 rpm		0	0	0
	_			
DRIVER'S CABIN				
Operator's canopy roll-over protective structure and FOPS-tested (right window)	_ •	•	-	_
Front window with washer		0	•	•
Rear window		0	•	•
Cab with heater, fan and windscreen wiper roll-over protective structure and FOPS-tested (fully glazed)		0	•	•
Work light on the driver's cabin		0	•	•
LED work light		0	0	0
Comfort seat with safety belt	•		•	•
Comfort seat with air cushioning and safety belt	0	0	0	0
Heated seat	_	-	0	-
Lighting equipment according to Road Traffic Regulations	•	•	•	•
Data confirmation	•	•	•	•
OTHERS				
Smart Handling overload assistance system	•	•	•	•
Load stabiliser		_	0	0
Fully automatic central lubrication unit		0	0	
Mechanical quick-hitch system for attachments	_ <u> </u>	•	•	•
moonamou quien inten system for attachments		_	_	_

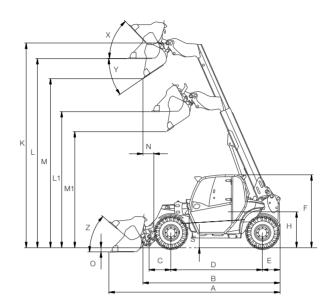
- Series
- Option
- Not possible

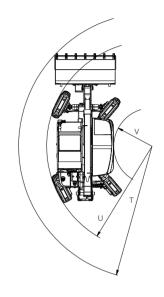
### Technical Data.

	804	1245	2205	2706
ENGINE DATA				
Manufacturer	Yanmar	Yanmar	Perkins	Kohler
Type of engine (optional)	3TNV76	3TNV82A (3TNV84T)	404D-22	KDI 2504 TC
Cylinders	3	3	4	4
Prime output kW / hp (optional)	19,2/26	22,6/31 (29,6/40)	36,3 / 49	55,4/75
at rpm1/min	3.000	2.800	2.800	2.600
Displacement cm <sub>3</sub>	1.116	1.496	2216	2.482
Emission stage	IIIA	IIIA	IIIA	IIIB
Cooling	Water	Water	Water	Water
DRIVING HYDRAULICS				
Work hydraulics				
Discharge volume (optional) I/min	33	42 (75)	70 (100)	90
Working pressure bar	220	220	240	240
DRIVE SYSTEM				
Type of drive	hydrostatic	hydrostatic	hydrostatic	hydrostatic
Drive system	permanent allwheel	permanent allwheel	permanent allwheel	permanent allwheel
VEHICLE DATA				
Driver's cab (optional)	FSD (cabin)	FSD (cabin)	cabin	cabin
Axle	Planetary steering axle	Planetary steering axle	Planetary steering axle	Planetary steering axle
Travel speed (optional) km/h	0-17	0-20	0-20 (30)	0-20 (30)
Travel speed increases/reductions	2	2	2	3
Fuel tank capacity	39	25	70	100
Hydraulic oil tank capacity	40	40	55	75
Total swing angle of the tool tray (optional) $^{\circ}$	148	148	144	132 (150)
Total oscillating angle °	14	14	16	20
Max. steering lock °	2×38	2×38	2×40	2×38
Lift cylinder lifting / lowering sec	5,0/3,6	6,1/4,8	6,2/4,2	6/4,2
Extension cylinder extension / retraction sec	3,5/1,9	4,9/3,9	5,1/2,5	5,6/3,8
Tipping cylinder fill shovel / empty shovel sec	2,3/1,7	2,6/2,3	3,1/2,2	2,9/2,8
WEIGHTS				
Operating weight (standard) kg	2.270	2.700	4.200	4.900
Max. payload kg	800	1.200	2.200	2.700
ELEKTRIC SYSTEM		40		10
Operating Voltage ∨	12	12	12	12
Battery Ah	77	77	77	100
Alternator A	55	55	85	80
NOISE CHARACTERISTIC VALUES				

Specified sound pressure level LpA dB(A)

### Dimensions.





1245

1.600

3.886

2.916

1.920

1.940/1.960 <sup>2)</sup>

4.503/4.523 <sup>2)</sup>

2.909/2.929 <sup>2)</sup>

4.123/4.143 <sup>2)</sup>

2.375/2.395 <sup>2)</sup>

3.589/3.609 <sup>2)</sup>

953/973

425

391

543

94

1.560

1.296

3.489

2.722

951

52

31

286/306 <sup>2)</sup>

1.450

3.554

2.717

406

1.795

343

1.900

914

4.145

2.725

3.799

2.244

3.318

533

114

1.413

1.252

223

3.034

2.227

595

52 32 44 2205

1.900

4.576

3.747

581

2.449

472

1.950

3.638

5.056

3.103

4.520

293

111

1.808

1.530

256

4.153

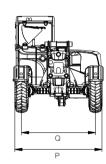
3.281

1.193

46,5

34,5

41



2706

2.000

4.958

4.400

1.030 2.650

1.980

1.025

6.080

3.730

5.600

3.450

5.280

680 <sup>1)</sup>

150

1.960

1.660

302

4.500

3.670

1.700

22/40 3)

45

45

DIM	ENSIONS
Stan	ndard light materials bucket mm
A	Total length mm
В	Total length without bucket mm
С	Axle centre to bucket pivotal point mm
D	Distance between wheels mm
E	Rear overhang mm
F	Height with cab mm
Н	Seat 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
М	Dumping height of telescopic arm extended mm
N	Coverage mm
0	Digging depth mm
Р	Total width mm
Q	Track width mm
S	Ground clearance mm
Т	Maximum radius outside mm
U	Radius on outer edge mm
V	Inside radius mm
Х	Rollback angle at max. lifting height °
Υ	Max. dumping angle °
Z	Rollback angle on bottom °

with Standard bucket 0,85 m<sup>3</sup>

FSD = operator's canopy

All values with standard light materials bucket and standard tyres.

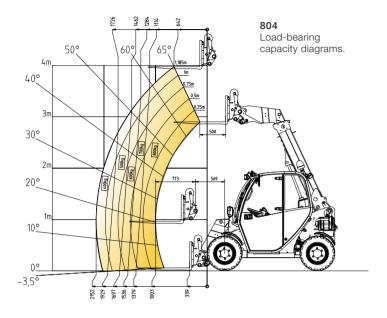
22\_23

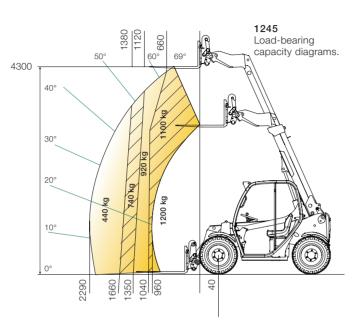
<sup>\*</sup>With engine technology according to exhaust emission stage IIIB.

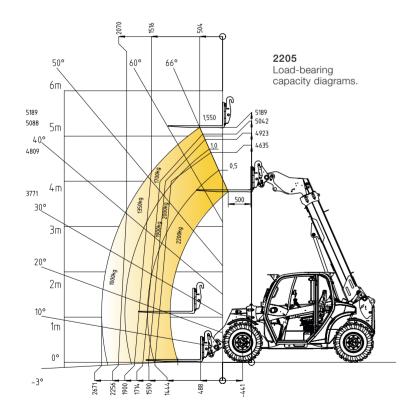
Values chassis with large engine

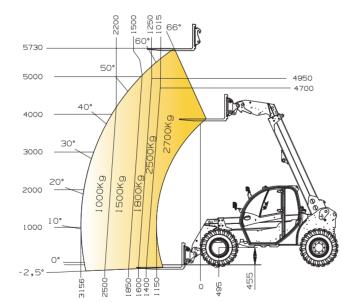
with total rotation angle of 150°

### Load-bearing capacity diagrams.









Load-bearing

capacity diagrams.

### Vibration characteristic values.

VIBRATIONS
LOAD TYPE
Compact wheel loader (operating weight < 4,500 kg)
Wheel loader (operating weight > 4.500 kg)

Typical operating conditions	Average value			Standard deviation (s)		
	1,4*a <sub>w,eqx</sub> [m/s <sup>2</sup> ]	1,4*a <sub>w,eqy</sub> [m/s <sup>2</sup> ]	a <sub>w,eqz</sub> [m/s²]	1,4*s <sub>x</sub> [m/s <sup>2</sup> ]	1,4*s <sub>y</sub> [m/s <sup>2</sup> ]	s <sub>z</sub> [m/s²]
Load & carry (load and transport work)	0,94	0,86	0,65	0,27	0,29	0,13
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/s2 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/s2.

# 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.



