KT356

Telehandler

The intelligent all-rounder

The intelligent Kramer telehandler KT356 impresses with a high degree of safety and flexibility. The machine has a payload of 3.5 t and a stacking height of 6 m. Both its engine and load-sensing hydraulics with maximum 140 liters per minutes ensure for a high handling capacity with the most diverse applications. The maneuverability of the telehandler, as well as the Kramer quickhitch plate, provide maximum flexibility in daily application.

Loader unit: With load stabiliser and final position dampening in all cylinders

All-round visibility: Perfect overview of all sides thanks to the spacious cabin and flatly-designed engine bonnet

EquipCare: The machine's figures and data at a glance with the telematic solution installed as standard

Easy cab access: Comfortable entry and exit due to the recess in the cab floor and step-like organised access

Kramer quickhitch plate: Easy changeover of attachments and optimal positioning of the attachment with the help of four connection points

Technical Data

Standard engine data

Engine manufacturer	Deutz
Drive output	100 kW
Drive output	136 PS
at max. rpm	2,300 U/min
Cylinder capacity	3,621 cm³
Exhaust standard level	V
Exhaust aftertreatment	DOC / DPF / SCR

Weights

Payload (max.)	3,500 kg
Payload at max. reach	1,350 kg
Payload at max. stacking height	3,000 kg
Stacking height (max.)	6,150 mm
Payload max. (LSP 500 mm)	3,500 kg
Operating weight	6,020 - 7,050 kg
Thrust force (max.)	45 kN
Lift capacity (max.)	40 kN

Filling levels

Tank capacity for fuel	100 l
Tank capacity for hydraulic oil	100 l
Tank capacity for urea solution	9.5 l

Drive system

Travel speed Standard	0-30 km/h
Travel speed Option 1	0-20 km/h
Travel speed Option 2	0-40 km/h
Differential lock	100% connectible in the front axle (Option)

Hydraulic system

Work hydraulics discharge volume (max.)	140 l/min

Steering

Steering angle max.	38 degree

Noise characteristic values

Guaranteed sound power level LwA (cabin)	101 dB(A)
Measured sound power level LwA	99.2 dB(A)
Sound pressure level at the operator's ear	72 dB(A)

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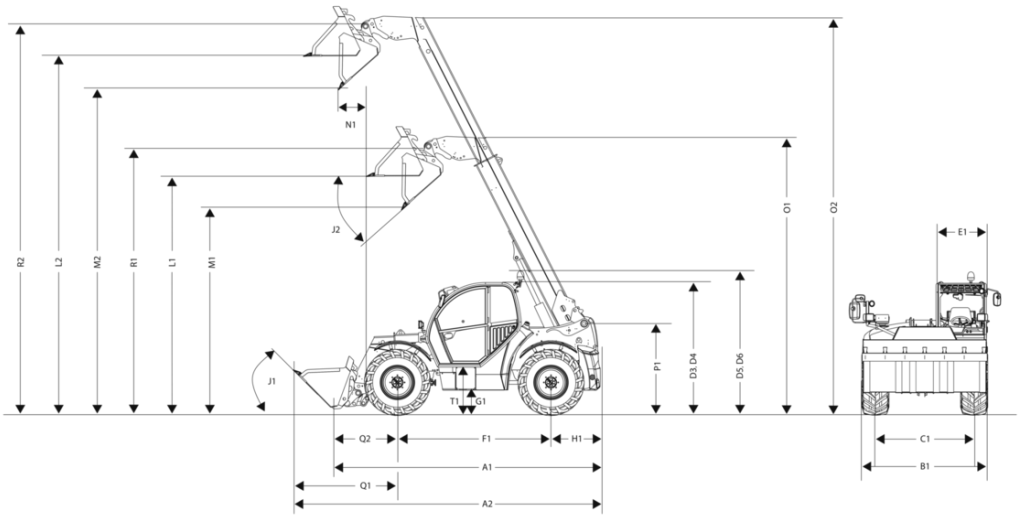
Dimensions



A1	Total length	4,580 mm
A2	Total length with bucket	5,300 mm
B1	Total width without bucket	2,285 mm
C1	rear	1,880 mm
D3	Total height of low cab	2,310 mm
D4	Total height of high cab	2,490 mm
D5	Total height of low cab with rotating beacon	2,540 mm
D6	Total height of high cab with rotating beacon	2,720 mm
E1	Cab width	990 mm
F1	Wheel base center	2,850 mm
G1	Ground clearance under axle and transmission, wading depth	415 mm
H1	Distance center rear wheel to rear	545 mm
I1	Rear approach angle (slope angle)	60 °
J1	Dumping angle	49 °
J2	Dumping angle	41 °
K1	Load-over height retracted	4,070 mm
K2	Load-over height extended	5,970 mm
L1	Dumping height retracted	3,580 mm
L2	Dumping height extended	5,480 mm
M1	Dumping width extended	270 mm
N1	Tele extension length retracted	4,670 mm
N2	Tele extension length extended	6,570 mm
O1	Total height telescopic arm mounting in frame	1,600 mm
P1	Distance center front wheel to bucket leading edge	1,820 mm
P2	Distance center front wheel bearing quick change frame	1,100 mm
Q1	Bucket pivot point retracted	4,585 mm
Q2	Bucket pivot point extended	6,485 mm
R1	Turning radius outer edge wheels	3,840 mm
R2	Turning radius outer edge bucket	4,900 mm
S1	Entry height cab floor	720 mm

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Standard components

Cab

- Indicator for interior cab lighting, door divided, upper door section adjustable to two positions by 180°
- Rear window can be opened
- Telescoping and adjustable tilting steering column
- Hanging pedals and removable floor mats
- Mechanically-sprung comfort operator’s seat Grammer MSG85/721
- Electronically pilot-operated multifunction joystick with integrated travel direction selector and telescopic function
- 7” LCD color display to display all vehicle functions & jog dial
- Color-coded switches for hydraulic, electric, driving, and safety features
- Heater with a 3-speed fan, 6 air outlet nozzles, 2 defrosting nozzles
- 12 V outlet, bottle holder, sun shade
- Work light 1x LED on front (1000 lm), work light 1x LED on rear (1000 lm)
- Lighting according to road traffic regulations
- Manual battery isolator switch

Steering and work hydraulics

- 4 steering modes in series
- 3. control circuit and telescoping function with proportional control
- Continuous function 3rd control circuit switchable via toggle switch
- Oil volume for 3rd Control circuit and all optional control circuits adjustable
- Second-generation "Smart Handling" overload and driver assistance system (bucket, stacking, and manual modes)
- Test connections for working hydraulics and drive system

Engine

- Coarse meshed combination radiator for engine water, hydraulic oil and charge air
- Wide-opening engine hood, sight glass for hydraulic oil and cooling water
- Maintenance hatch for easy cleaning of the engine compartment

Drive system and axles

- Infinitely variable, hydrostatic transmission with load-dependent, electronic transmission control

Vehicle design and kinematics

- Torsion-resistant steel frame in box profile design
- Telescopic arm guided by 13 sliding elements adjustable from outside
- End position damping in telescopic, lifting and tipping cylinders

Documentation

- Operator's manual, service manual

Options

Operator's cab - Cabine

- Air-sprung operator’s seat (MSG95AL/722)
- Air-sprung operator’s seat (MSG95AL/722), heated
- Left armrest
- Air-conditioning system
- Ventilated storage compartment (cooled with air-conditioning system)
- High cabin with heater for optimized all-round visibility (+180mm)
- Interior mirror incl. bracket for cell phone and USB outlet 2-way
- Compact exterior mirror on left
  - Not with:
    - External mirror electrically adjustable incl. mirror heating with automatic shut-off
- Radio-ready (antenna, speaker)
- Radio system (radio, antenna, speakers)
- Front view camera on right (incl. auxiliary monitor)
- Rear-view camera (integrated in main screen)
- Cab window right and rear, heated
- High cabin with heated cabin windows to right and rear
- External mirror electrically adjustable incl. mirror heating with automatic shut-off
- Mirror for trailer coupling
- Carbon filter for cabin air

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Lighting

- LED rotating beacon (yellow)
- Work light LED (1000 Lumen), 1 additional unit on front, 1 additional unit on rear
- 2 work lights LED (1000 Lumen) on side of telescopic arm (outer pipe)
- LED lighting package (1000 Lumen) - (7 additional work lights - 1x front, 1x rear, 1x left, 2x right, 2x outer arm)
- LED lighting package (2000 Lumen) - (8 LED work lights) - omission of series work lights
- Rear additional lighting Basic (1000 Lumen)
- License plate lighting, incl. front license plate bracket - (standard)

Equipment for road traffic

- Data confirmation (ABE) for self-propelled work machine - (standard)
- EC tractor CoC (EC Certificate of Conformity tractor, (167/2013/EC - Class T1)
  - only in association with
    - Outlet for rear attachments, 7-pole
    - An attachment coupling (not railway coupling) must also be selected!
- EC tractor CoC (EC Certificate of Conformity tractor, 167/2013/EC - Class T1) + data confirmation - only for Germany!
  - only in association with
    - Outlet for rear attachments, 7-pole
    - An attachment coupling (not railway coupling) must also be selected!

Engine - Axles - Steering - Drive system

- DEUTZ TCD 3.6 S5 100 kW
- Hydrostat 30 km/h
- Hydrostat 20 km/h
- Ecospeed 40 km/h
- Ecospeed 40 km/h incl. Smart Driving

Tires

- Alliance 405/70-24 A-323 – traction profile
- Alliance 460/70R24 A-580 – traction profile
- Alliance 500/60-22.5 A-331 – traction profile

Quick change plates & Loading system

- Load stabilizer (vibration damper)
- Hydraulic quickhitch facility, Kramer system (telehandler "large")
- Mechanical quickhitch facility, System Manitou
- Hydraulic quickhitch facility, System Manitou
- Hydraulic quickhitch facility, System JCB (Q-fit)
- Hydraulic quickhitch facility, System Volvo TPV
- Hydraulic quickhitch facility, System Matbro

Hydraulics

- Auto Hitch attachment coupling (incl. hydr. control) and tipper connection
- Load Sensing work hydraulics 140 l/min (standard)
- Pressure release of 3rd control circuit
- Diverter valve in front on 3rd control circuit
- Tipper connection
- Automatic bucket return (ABR), including vibration function of the tipping cylinder
- Control circuit, rear attachment, double-acting
  - only in combination with:
    - Tipper connection
- Unpressurized return line, on the outer arm, incl. leak oil line
- Filling of the hydraulic system with environmentally friendly and biodegradable hydraulic oil
- 2-way multi-coupler
  - only in combination with:
    - Pressure release of 3rd control circuit
    - Hydraulic quick coupler system, Kramer System (“large” telehandler)
- 4-way multi-coupler
  - only in combination with:
    - Pressure release of 3rd control circuit
    - Diverter valve in front on 3rd control circuit
    - Hydraulic quick coupler system, Kramer System (“large” telehandler)

Electrical system

- Plug receptacle for front attachments, 4-pole
- Outlet for rear attachments, 7-pole

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Safety options

- Immobilizer system, integrated in the ignition switch key
- Underbody protection
  - only in association with
    - Cover for the drive train
- Cover for the drive train
- Fire extinguisher (2 kg)
- Dirt wipers, telescopic arm
- Red/white warning stripes (in accordance with DIN 30710)
- Oil level monitoring (hydraulic oil)
- Tipping cylinder lock
- Tire blow-out protection
- Dry lubrication (smooth paint) of telescopic arm
- Protective grating for windshield, removable (not approved for machine travel on public roads)
- CESAR DataTag-ID - only for countries that use this system within their legal instances, such as Great Britain

Paint

- Custom-made paint finish, one color according to RAL (gray parts are not included) *
- Protective measures for use in aggressive materials (salt and fertilizer use)
  - only in association with
    - Dry lubrication (smooth paint) of telescopic arm
    - Dirt wipers, telescopic arm
    - Cover for the drive train
- Overseas transport protection

* We reserve the right to reject paints that are similar to protected colors or color combinations by other manufacturers.

Other

- Low-speed device and hand throttle
- 100 % differential lock
- Towing hitch
- Automatic ball hitch 38 mm - fixed on frame
- Mechanical ball hitch 32 mm - fixed on frame
- Pillow block for ball hitches, height adjustable (application for ball hitch, height adjustable required)
- Application of ball hitch automatic 38 mm for trailer mount, height adjustable
- Application of ball hitch coupling (K80) for trailer mount, height adjustable
- Application of ball hitch coupling (K50) for trailer mount, height adjustable, extended
- Application of Piton-Fix for trailer mount, height adjustable
- Application of ball hitch mechanical for trailer mount, height adjustable - 32 mm
- Application of ball hitch automatic for trailer mount, height adjustable - 32 mm
- Ball hitch CUNA D3 incl. trailer mount, height adjustable
- Hydraulic trailer brake valve (2-line system)
- Vacuum pre-filter
- Cyclone pre-filter
- Cyclone pre-filter Turbo III
- Reverse fan
- Pneumatic brake system (2-line system)
- Engine pre-heating, fuel, hydraulic oil (230 V)
- Central lubrication system (aggressive media)
  - only in association with
    - Protective measures for use in aggressive materials (salt and fertilizer use)
    - Dry lubrication (smooth paint) of telescopic arm
    - Dirt wipers, telescopic arm
- Central lubrication system preparation (lubrication line laid in the arm)
- (Fully automatic) central lubrication unit
- EquipCare Dual ID

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Extended warranties

- Security 24 months (2000 h)
- Security 36 months (3000 h)
- Security 48 months (3000 h)
- Security 48 months (4000 h)
- Security 48 months (5000 h)
- Security 60 months (4000 h)
- Security 60 months (5000 h)
- Power-Line (24 months or 2000 h)
- Power-Line (36 months or 3000 h)
- Power-Line (48 months or 3000 h)
- Power-Line (48 months or 4000 h)
- Power-Line (48 months or 5000 h)
- Power-Line (60 months or 4000 h)
- Power-Line (60 months or 5000 h)
- EquipCare 36 months (incl. App & Manager) - (series)

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