HOLDER

HOLDER S SERIES / M 480

BENEFITS, FEATURES AND TECHNICAL DATA

HOLDER
S SERIES / M 480

COMFORTABLE CAB

Benefit from a perfect view on the attachments and maximum working comfort.

- Comfort cab with air conditioning and 360° circumferential visibility
- Windows can be opened on the side
- Very spacious even for tall and big drivers
- Air-suspended driver's seat incl. seat heating, height-adjustable and longitudinally adjustable, with longitudinal-horizontal suspension
- S series available with 1-person or 2-person cab
- 2-person cab including adjustable multifunctional arm rest and with full-specification passenger seat – licensed for work application

3 ATTACHMENT AREAS

For the flexible use of powerful attachments.

- 2 standardised attachment areas (front and rear lift) as well as 3rd attachment area for hitching devices
- 1-person device mounting without tools
- Heavy duty front power lift is movable 3-dimensionally and double-acting, with vibration damping, arrester hooks adjustable from CAT I to CAT II
- Double-acting rear power lift with vibration damping, arrester hooks are adjustable from CAT I to CAT II
- Mechanical PTO shaft front and rear

Holder S 990

EASY SERVICE ACCESS

Daily service work is possible without disassembling the attachments.

- Hydraulically tiltable engine compartment cover with integrated tipping frame work (incl. attached device)
- Removable side parts at the left and right
- Battery is accessible from the outside for e.g. jump starting during winter

Illustrations may include customised fittings and options

Holder M 480

DUAL DRIVE*

- Combination of the benefits of hydrostatic and mechanical traction drive
- Hydrostatic traction drive in working mode as well as the direct drive ensure fuel saving also when driving at high speed
- Automatic change from hydrostatic to mechanical drive starting from approximately 26 km/h during the drive for fuel consumption optimisation and driving noise reduction
- Less abrasion and less heat development since the vehicle is not driven permanently by the hydrostatic pumps and engines

* only on S series

ERGONOMIC OPERATING CONSOLE

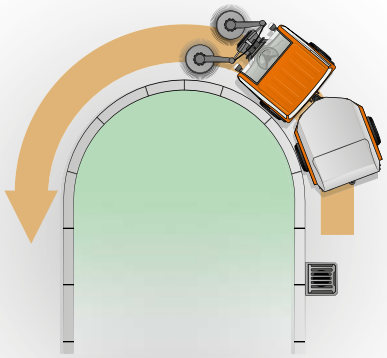
Intuitive operation enables minimum fatigue and easy operation.

- 1-hand operation
- Clear membrane keyboard
- Programmable joystick
- Drive programme control for four driving and working steps
- Including limit load control: adjusts the driving speed to the performance on the front attachment automatically

INSPIRING TECHNOLOGY

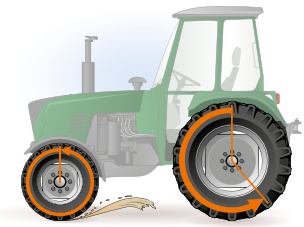
ARTICULATED STEERING

- Front and rear wagon as well as front and rear attachments follow the vehicle tracks
- Ensures manoeuvrability, precision, directional stability, smallest turning circles and optimum power transmission
- Your benefits: less shunting efforts, less manual re-working, precise working close to the edge, protection of the soil and minimum tyre abrasion



FOUR EQUAL-SIZED WHEELS

- Ensure maximum traction, even in steep slopes (no four-wheel creeping)
- Your benefits: high climbing capability, optimum ground protection, minimum tyre abrasion



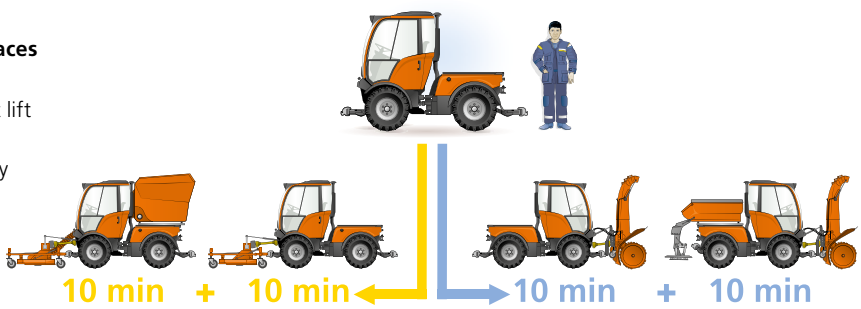
PERMANENT FOUR-WHEEL DRIVE

- Ensures optimum power distribution on all four wheels
- Your benefits: maximum pulling force even on difficult soil, best traction, high climbing capability, optimum protection of the soil

QUICK CHANGE DEVICE

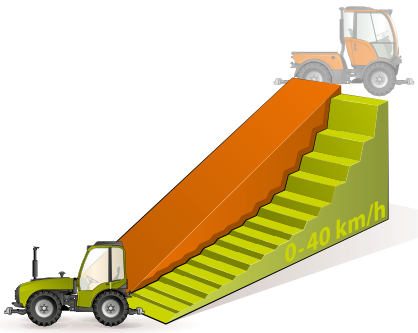
Thanks to the sophisticated design with standardised interfaces implements can be changed quickly and easily.

- Front attachments are hung on two catching hooks on the front lift (CAT I, CAT II), the fixing takes place with bolts at the top link
- Rear constructions as flatbeds, containers or spreaders are simply pushed on the attachment frame and fixed with two bolts
- Finally the hydraulic hoses have to be attached to the drip-free quick-release couplings



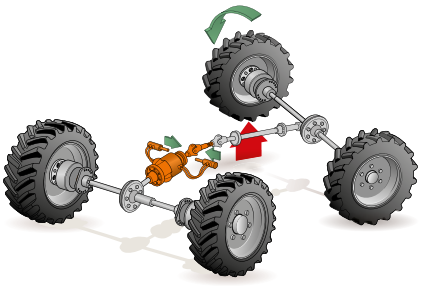
STEPLESS DRIVING UP TO 40 KM/H

- No traction interruptions
- Transport: automatic driving via foot throttle up to 40 km/h
- Working: speed control via rotary potentiometer on the joystick
- Alternatively speed control via foot throttle at constant PTO shaft speed = SDS traction drive



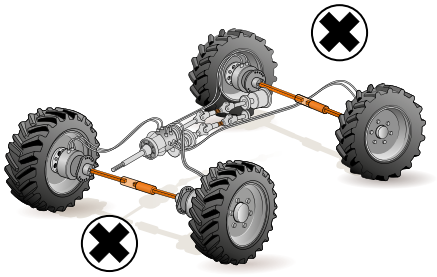
WHEEL-LOAD COMPENSATION

- Ensures that all four wheels are in permanent contact with the ground, even in case of steep or uneven terrain and when driving over obstacles
- Your benefits: safety when turning on a hill, when driving over curb stones and when using large attachments with a high centre of gravity; in addition, rolling movements are dampened when driving on the road



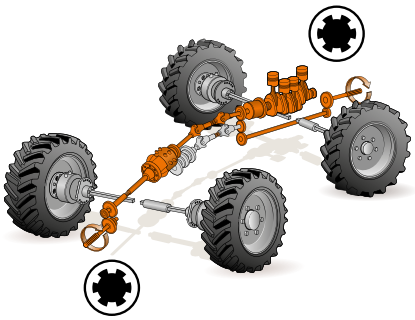
MECHANICAL DIFFERENTIAL LOCK

- Ensures an even power transmission onto both axles under extreme conditions
- Your benefits: optimum traction, reduced accident risk; differential lock can be activated via a toggle switch



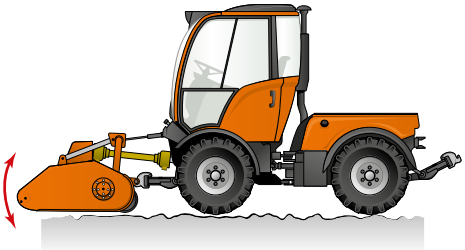
MECHANICAL PTO SHAFT

- Ensures constant power transmission to the attachments and a very high efficiency
- Your benefits: attachment of large and heavy devices, lower heat input into the hydraulics, longer work intervals, lower fuel consumption



ELECTRO-HYDRAULIC ATTACHMENT RELIEF

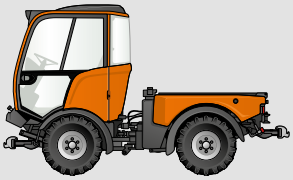
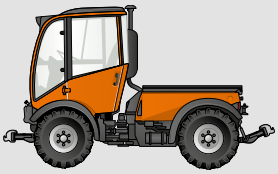
- Weight of the attachment can be transferred to the entire vehicle steplessly
- Due to the electro-hydraulic control, the composition of the soil is perfectly maintained
- More traction in working mode e.g. on slippery ground, protection of the device (e.g. mulching), increased stability when turning around on a hillside



VIBRATION DAMPING

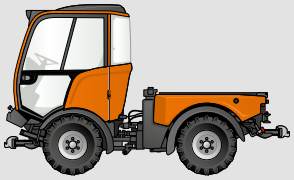
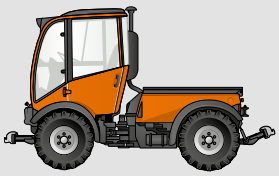
- Ensures that the weight of the front device acts on the accumulator of the hydraulics when driving on the road
- The system dampens vibrations and balances most body movements of the vehicle on uneven roads or at high speeds
- Your benefits: excellent comfort for the driver and protection of the entire device when working and driving with any attachment

TECHNICAL DATA

			
	S 990	**S 1090**	**M 480**
	1-person cab	**2-person cab**	**1-person cab**
ENGINE	Deutz 4-cylinder 4-stroke turbo diesel		
Displacement	3619 cm³		
Power	68 kW (92 HP)		55 kW (75 HP)
Torque	280 Nm		240 Nm
Rated speed	2600 rpm		2400 rpm
Cooling	Water cooling		Integrated oil-air cooling
Fuel tank capacity	82 l		60 l
DRIVE	Hydrostatic traction drive, controlled digital-electrically, stepless road speed control, permanent four-wheel drive, four wheels of the same size, suspended front and rear axle		
	Optionally: DualDrive		–
Maximum speed	40 km/h		
Brakes	Hydraulically actuated wet disc brake, acts on all four wheels as four-wheel brake, optionally: multi power brake, electric stop brake acts on both axles		Hydraulically actuated drum brake on the front axle, optionally acting on all four wheels, service brake: acts on all four wheels as four-wheel brake via the hydrostatic traction drive, electrically actuated stop brake with hydraulic accumulator on the front axle
PTO shafts	Optional: power-switchable, independent mechanical PTO shaft, can be switched together at the front and rear, rear PTO shaft can be switched off at the gear, front: switchable from 1000 rpm to 540 rpm, rear: 1000 rpm		Optional: power-switchable, independent mechanical PTO shaft, can be switched separately at the front and rear, front: 1000 rpm or optionally 540 rpm (540 r/min: rotational direction left and right), rear: 540 rpm
Differential lock	Mechanical at the front and rear, simultaneously switchable electrohydraulically, scts on both axles at 100 %		
HYDRAULICS	Hydraulic pump 42 l/min or tandem pump 35 l/min + 27 l/min both optionally extendable with additional device variable displacement pump 120 l/min (S 990/S 1090) or 100 l/min (M 480)		
Hydraulic oil quantity	45 l		42 l
Lifting force	Front 2700 kg / rear 1570 kg		Front 2000 kg / rear 2000 kg
Three-point lift	Standard three-point, arrester hook steplessly adjustable from CAT I to CAT II		
Additional control valves	High expandability, adapted for the purpose		

YOUR BENEFITS

Cost saving | **Time saving** | **Safety** | **Comfort** | **Working result**

			
	S 990	**S 1090**	**M 480**
	1-person cab	**2-person cab**	**1-person cab**
WEIGHT	Including driver at 75 kg, depending on tyres and equipment		
Empty weight	2638 – 2790 kg	2885 – 3073 kg	2230 – 2390 kg
Permissible total weight	4500 – 5500 kg		4000 – 4500 kg
Permissible axle weight	Front 2700 kg / rear 3000 kg Front 3200 kg / rear 3200 kg		Front 2500 kg / rear 2500 kg Front 2800 kg / rear 2800 kg
Tow bar load on the trailer coupling	Max. 800 kg		Max. 600 kg
Towing capacity	Unbraked 2500 kg / overrun braked 4500 kg		Unbraked 2200 kg / overrun braked 4500 kg
Maximum payload	1862 kg	1615 kg	1770 kg
DIMENSIONS	Depending on tyres		
Wheel base	1827 mm		2005 mm
Total length	3412 – 4111 mm	3702 – 4235 mm	3090 – 4155 mm
Total height	2181 – 2243 mm	2233 – 2295 mm	2190 – 2275 mm
Total outer width	1308 – 1639 mm	1320 – 1639 mm	1206 – 1610 mm
Turning circle inside	From 2130 mm		From 1680 mm
Inner flatbed dimensions	1530 x 1200 x 300 mm		

SEE HOLDER IN ACTION: www.youtube.com/user/maxholdergmbh

YOU ARE IN GOOD HANDS

- 24 months warranty
- 24-hours spare parts delivery
- Reliable spare parts supply
- Tight service network and local partners
- Long operational life span
- High stability of value
- Rental, financing and leasing
- Europe-wide homologation

WINTER MAINTENANCE

MOWING AND GROUND CARE

SWEEPING AND CLEANSING

05/2016 Language: English ID no.: 161842 Subject to technical changes Correct use of the attachments according to the Holder Attachment Evaluation

Optimum guidance, sales and service at your Holder partner:

HOLDER

NO COMPROMISES

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