

UnimogPartner by Mercedes-Benz

FERRI[®]

SIMPLY. THE MOWER

**FRONT MOUNT
REACH MOWERS**



TSF | 600U
TST | 50U

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SIMPLY. THE MOWER



TSF 600U

TSF 600U FRONT MOUNT REACH MOWER Left and Right

*The **Ferri TSF 600U** front mount reach mower was designed to be specifically applied to the **Unimog** tool carrier attached to the front plate. It is made of high quality steel tubing thereby providing high strength and low weight.*

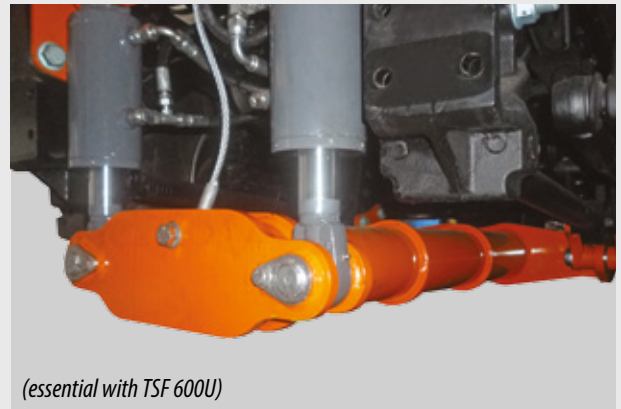
The particular geometry of the reach mower enables a transport position with a perfect view for the operator. Similarly there is also optimum vision in the various working positions, right and/or left, always ensuring maximum operator comfort.

The correct flail head rotor speed is ensured by the cast iron gear pump powered by the front PTO. The Unimog hydraulic system provides the oilflow to the reach mower cylinders. The complete unit is controlled via the single lever joystick.

The reach mower has got an hydraulic break back with accumulator controlled autoreset device. The heat exchanger with thermostat was created to prevent hydraulic oil overheating even when operating in extreme and prolonged situations.

EFS electronic floating system

The exclusive EFS system allows the cutting head to perfectly and actively follow the ground contours. The weight is transferred to the Unimog tool carrier reducing friction during advancement thereby greatly increasing the working speed of work in complete safety. The EFS system is especially recommended in case of prolonged and repetitive work sessions. The EFS system can be easily disengaged in the event of variations in the working conditions.



Front axle locking mechanism

For application to the Unimog tool carrier the installation of the appropriate locking mechanism of the front axle is required. With the aim of increasing operator safety and vehicle stability, the device reduces the truck oscillations when the reach mower is fully extended. The engagement of the locking mechanism, easy and straight, is expected during the work phase. Deactivation is just as simple and should be used for road travel.

Sliding frame

The revolving arm holder column and slides, freely slides from right to left, in a structural steel frame, designed specifically to facilitate sliding. The total translation, equal to 1745mm, is distributed half on the right side and half on the left side to ensure maximum operational freedom. Translation of the column is facilitated by the presence of 8 bronze anti-friction pads and is managed by press buttons that are on the joystick controlling the orbital motor.





Transfer visibility

The particular geometry allows the arm to fold in an extremely compact way that does not hinder visibility during the transfer phases. This solution allows completely safe road travel and, for this reason, the use of road escort is not necessary.

Electronic proportional controls

The innovative control system is divided into two parts in order to occupy less space in the cab and consists of a proportional joystick and a control panel. The Joystick provides four proportional functions that control the two arms movements, as well as the head rotation and the arm rotation. On the Joystick are also available press buttons to control the side shift (left to right and viceversa) of the arm holder column. The detached control panel provides press buttons to manage the rotor engagement and its quick stop (the breaking time allowed by safety criteria is 6 secondo approximately). From the control panel it is also possible to switch the break back device from accumulator controlled autoreset device to the hydraulic break back with maximum relief valve. The EFS is also a function that can be engaged by the control panel. The control provides the ability to select different working modes according to the type of working conditions that apply. The device also has a self-diagnostic system.



Combination with the Unimog tool carrier

The TSF600U reach mower can be combined with the Unimog tool carrier starting from the U318 model. It is necessary to provide adequate rear ballast (further details are available from our sales network).



Ditch cleaner FF60 and FF45



Cutting width: 0,45 m (1'4") and 0,60 m (1'9")

Cutter bar for trees and branches TR13



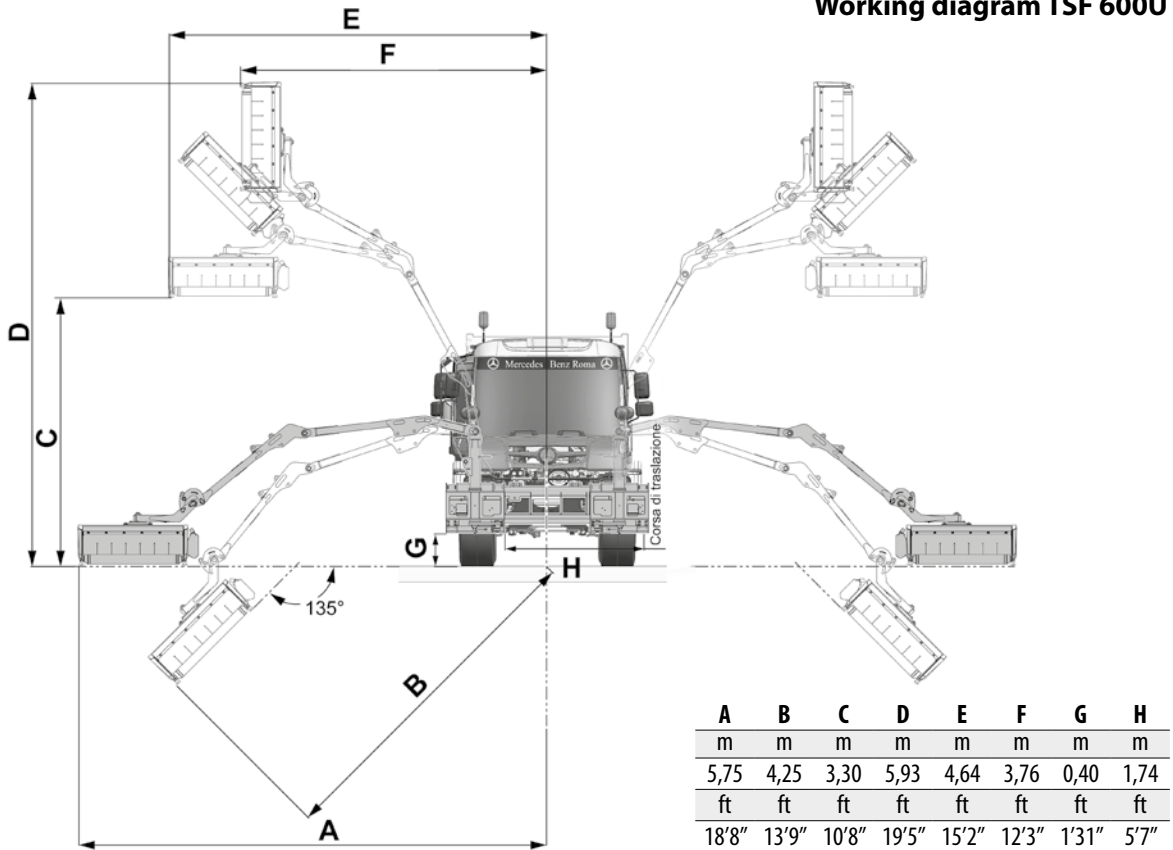
Cutting width 1,3m (4'26")
Cutting diameter 8 cm (3,2")

Blower SE 31



Air flow 90 mc/min
300 mm (0,9") suction
Suction body with 7 blades

Working diagram TSF 600U



		TSF
Unimog tool carrier model from		U 318
Tool weight (complete with head)	kg (lb)	1500 (3307)
Rotor power	HP	54
Maximum hydraulic motor power	HP	60
Maximum horizontal extension*	m (ft)	5,75 (18'8")
Side shift	m (ft)	1,74 (5'7")
Transport width	m (ft)	2,5 (8'2")
RH side and LH side work		YES
Arm rotation angle	°	170
Front PTO	Rpm	950
Attachment plate group 3		STD
Attachment plate group 5		OPT
Heat exchanger		STD

* From the axis of the tool holder to the end of the cutting head

		TNH 125
FLAIL HEAD		
Working width	m (ft)	1,25 (4'1")
Rotor speed	Rpm	3000
Blade tip speed	m/sec	60
Head rotation angle	°	190°
Weight	Kg (lb)	315 (694)

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TST 50U

FRONT BRUSHCUTTER ARM

*The **Ferri TST 50U** front reach mower was designed to be specifically applied to the **Unimog** tool holder attached to the front plate. It is made of high quality steel tubing thereby providing high strength and low weight.*

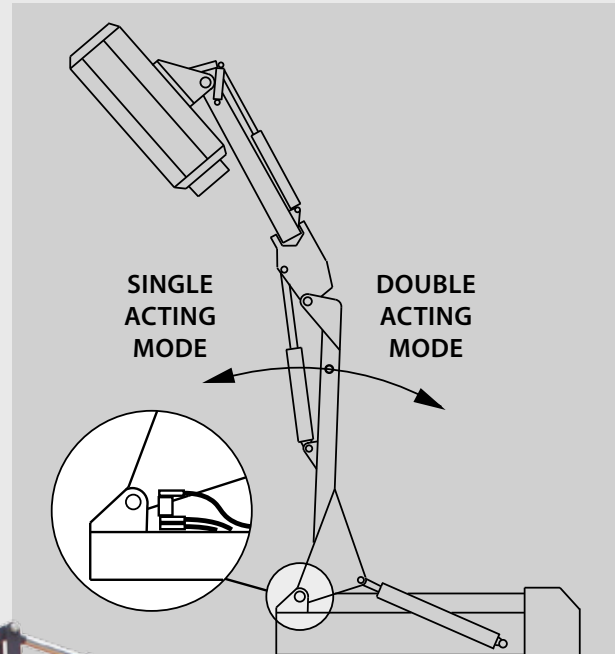
The particular geometry of the reach mower enables a transport position with a perfect view for the operator. Similarly there is also optimum vision in the various work positions.

The correct flail head rotor speed is ensured by the cast iron gear pump powered by the front PTO. The Unimog hydraulic system provides the oilflow to the reach mower cylinders. The complete unit is controlled via the single lever joystick.

The reach mower has got an hydraulic break back with accumulator controlled autoreset device. The heat exchanger with thermostat was created to prevent hydraulic oil overheating even when operating in extreme and prolonged situations.

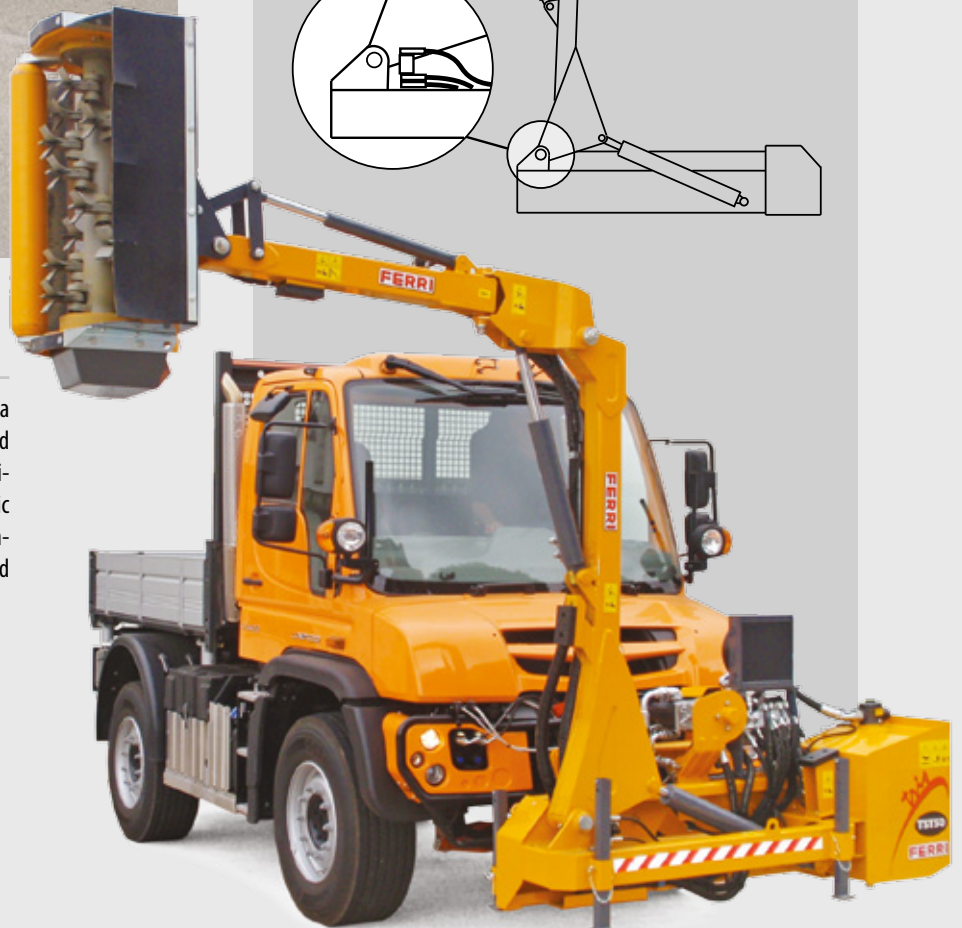
Floating system

Automatic and constant self-levelling on the ground of the cutting head. First arm float takes place via a nitrogen accumulator facilitate the sliding of the head on the ground.



Double acting mode

The movement of the first arm ram, takes place via a simple acting cylinder to avoid crushing of the head on the ground. In case of works with the arm in vertical position, (hedges and branches etc.) the automatic hydraulic system changes the functionality from simple acting to double acting, guaranteeing stability and operational precision of the arm.





Transfer visibility

The particular geometry allows the arm to fold in an extremely compact way that does not hinder visibility during the transfer phases. This solution allows completely safe road travel and, for this reason, the use of road escort is not necessary.

Progressive electrical controls

The joystick, positioned in the cab, enables the execution with one hand only of all operations and movements. The first part of the movement involves activation of the chosen command at 1/3 of the capacity (thus with a slow start of the manoeuvre) then, continuing with movement of the lever, the entire capacity is activated, obtaining maximum speed of movements.



Combination with the Unimog tool carrier

The TST 50U reach mower arm can be combined with the Unimog tool carrier starting from the U218 model. It is necessary to provide adequate rear ballast. Further details from our sales network.



Cutter bar for trees and branches TR13



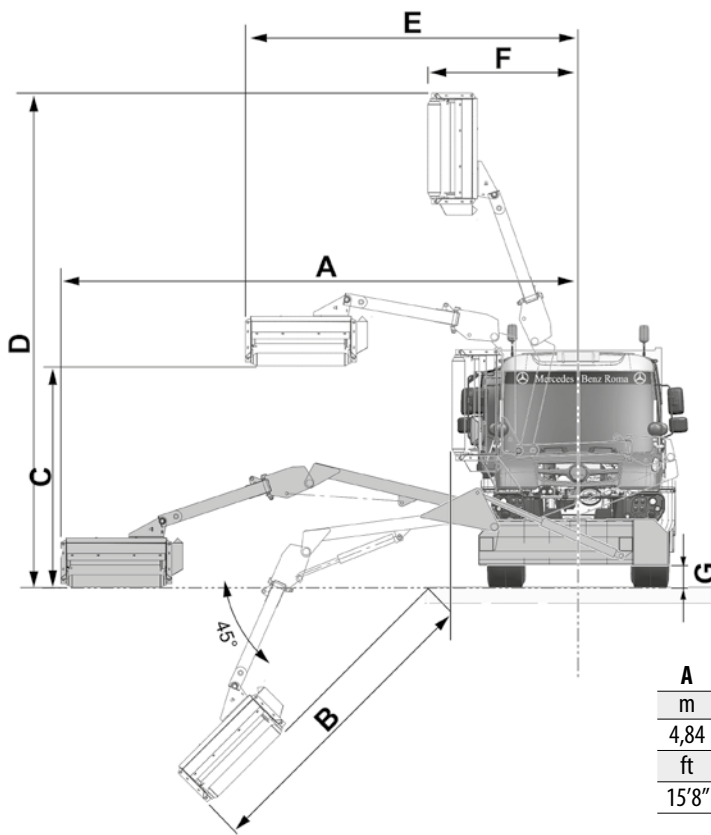
Cutting width 1,3m (4' 26")
Cutting diameter 8 cm (3,2")

Blower SE 31



Air flow 90 mc/min
300 mm (0,9") suction
Suction body with 7 blades

Working diagram TST 50U



A	B	C	D	E	F	G	H
m	m	m	m	m	m	m	m
4,84	3,07	2,24	4,97	3,33	1,50	0,40	-
ft	ft	ft	ft	ft	ft	ft	ft
15'8"	10'1"	7'3"	16'3"	10'9"	4'9"	1'31"	-

	TST
Unimog tool carrier model from	U 218
Tool weight (complete with head)	KG 910
Rotor power	HP 35
Maximum hydraulic motor power	HP 45
Maximum horizontal extension*	m (ft) 4,84 (15'8")
Transport width	m (ft) 2,2 (7'2")
RH side and LH side work	YES
Front PTO	Rpm 950
Attachment plate group 3	STD
Attachment plate group 5	OPT
Heat exchanger	STD

* From the axis of the tool holder to the end of the cutting head

	TN 100
CUTTING HEAD	
Working width	m (ft) 1,00 (3'2")
Rotor speed	Rpm 2800
Blade tip speed	m/sec 56
Weight	kg 265



TST 50U





TSF 600U



The technical data reported and the models described are non-binding. For the purposes of improvements the manufacturer reserves the right to make modifications without notice. Designs and photographs may relate to optional equipment or equipment destined for other countries. For additional information please contact our sales network.

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