

FERRI[®]

SIMPLY. THE MOWER

VOTEX[®]

**REMOTE CONTROL
TOOL CARRIER**



iCUT | 3
iCUT | 4



iCUT 3 EXTRA

REMOTE CONTROL TOOL CARRIER

*The **iCUT 3** model is the leading remote controlled tool carrier machine that provides maximum operator safety in difficult situations. Especially recommended for the maintenance of reservoir embankments, restricted access areas within airports, recreational facilities, military bases, roadside verges and trunk road bankings.*

Power and control in your hands

The remote controlled iCut 3 model equipped with flail head is designed to mow grass, weeds, shrubs, branches and always ensuring operator's absolute safety. The iCut 3 specific design includes a low center of gravity, an expandable undercarriage, and the contoured track profile allows the machine to operate in highly uneven areas having maximum grip and allowing extended utilization on slopes in any direction, up to 55°.

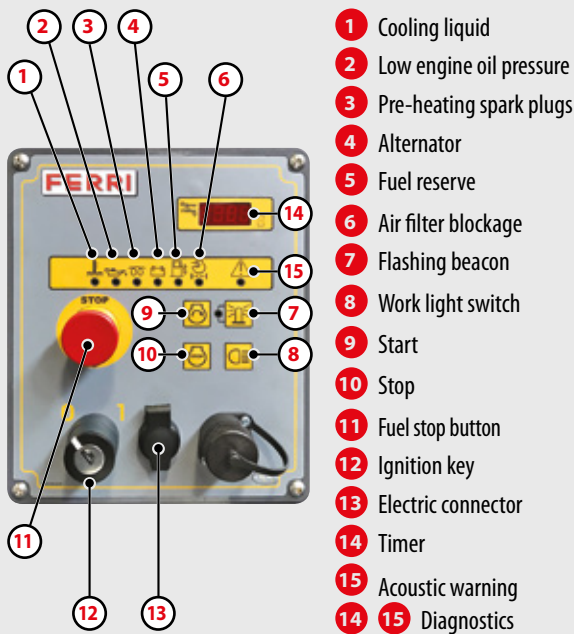
This model is equipped with a 40HP diesel engine which can power both flail heads with 1.30m and 1.70m working width respectively. It is also possible to attach other equipment, which make the iCut 3 Extra a multi-functional tool carrier.

Engine

The iCut 3 is equipped with a 3-cylinder ISUZU diesel engine. The 1642cc engine developing 29KW/40HP and 103Nm @1800 Rpm, is water cooled through a reversible fan which can be remotely activated from the control panel (it is possible to enable the automatic self-cleaning function). The diesel tank has got a 26.5 L. capacity.



Ignition display



Hydraulic system

The iCut 3 hydraulic system consists of 4 pumps with independent circuits:

- 2 variable displacement piston pumps in closed circuit power the hydrostatic drive for each track.
- 1 piston pump is dedicated to the piston motor controlling the rotor shaft on the flail head.
- 1 gear pump in open circuit which feeds the manifold block for the hydraulic services:

- | | |
|---------------|--------|
| • Lift | • Aux1 |
| • Track width | • Aux2 |

The hydrostatic closed circuit systems are very efficient because they let circulate only the oil flow required by the machine.

The manifold block that controls the hydraulic services is equipped with a venting valve which allows to reduce waste of energy when the services are not employed.



Diagnosics

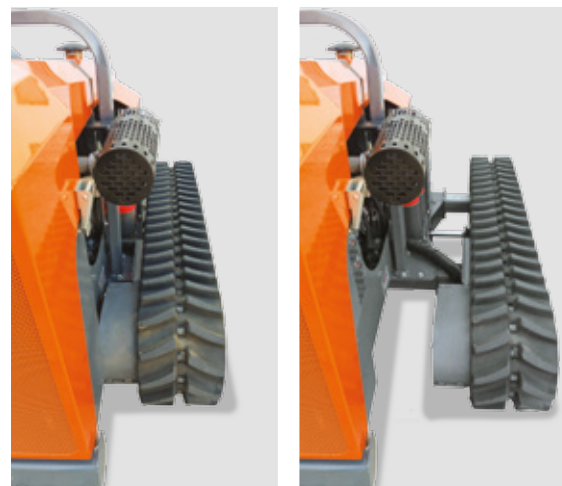
The diagnostic is integrated in the control box which in normal mode would display the hour meter, whereas in case of errors or problem it would display codes in combination to the lightening of warning lights (the user's manual would tell the operator the nature of the failure occurred and what actions are needed).

Adjustable undercarriage

An expandable undercarriage has been designed to meet the most demanding customer needs. In extreme working conditions when it is necessary to increase the machine safety, it is possible to increase the undercarriage width by means of a hydraulic drive, bringing the total track width from 132cm to 167cm.

The tracks enlargement is made directly from the control panel. The track chains are firmly kept aligned thanks to a triple flange rollers near the sprocket along with track chain guides.

The iCut 3 undercarriage is composed of **4 rollers** distributed in a way which optimizes the load and allow the best grip on the ground.





Remote control

Two large joysticks provide precise control of both motion, steering and flail head height control. Simple control layout allowing start in the best working situation immediately, there is the option to customize speed and steering sensitivity matching personal preferences allowing working productively and safely in all working conditions.

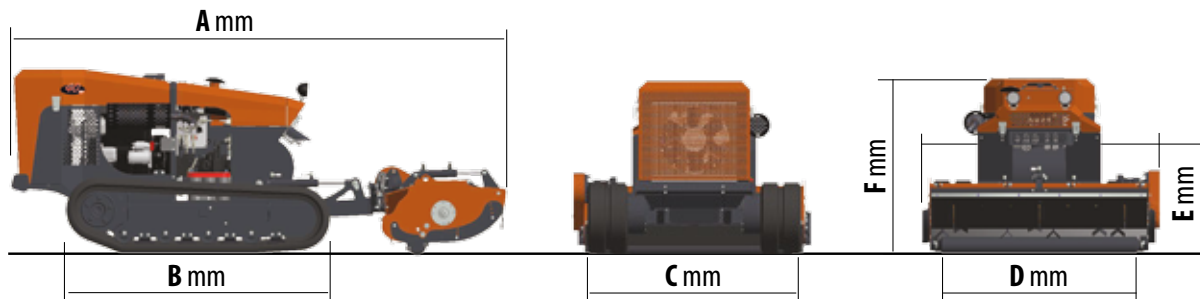
In addition, at the immediate-stop-button, the console has many other features including , the temperature indicators of the coolant and the oil; the radio control battery functions, the engine oil pressure, the fuel reserve, blocking of the air filter, the on / off floating system, the travel speed (slow / fast), the activation of the reversible fan (manual / automatic).

- | | | |
|---|--|--|
| 1 LED multi-color display | 11 Oil flow adjustment | 21 Arm lift - arm drop |
| 2 Parameter modification commands | 12 Emergency stop button | 22 Left - right drive |
| 3 Forward/reverse drive | 13 Cruise control | 23 Forward/reverse steering change |
| 4 Undercarriage opening/closing | 14 Auxiliary 1 | 24 Drift compensation |
| 5 1 st & 2 nd speeds | 15 Auxiliary 2 | 25 Remote control battery indicator |
| 6 Floating device | 16 Rotor direction | 26 Reverse activation indicator |
| 7 Acoustic warning | 17 Cable connection | 27 Working rotor indicator |
| 8 Start | 18 Reversible self-cleaning fan | |
| 9 Rotor start | 19 Engine stop | |
| 10 Accelerator | 20 Engine ignition | |



Dimensions

A mm (ft)	B mm (ft)	C mm (ft)	D mm (ft)	E mm (ft)	F mm (ft)
2.900 (9' 51")	1.740 (5' 70")	1.320 (4' 33")	1.350 (4' 43")	1.480 (4' 85")	1.155 (3' 79")
		1.670 (5' 49")			



ENGINE	
Diesel engine	3 cyl. Tier 4 stage 3°
Engine power	29 KW / 40 HP
Fuel	Diesel
Engine lubrication	da 0° a 55°
Fuel tank	26,5 liters
Max torque	103 Nm a 1.800 rpm
Engine displacement	1.642 cc
Suction	Natural
Speed (rpm)	Adjustable
Cooling	Liquid
Hydraulic oil cooler	Air
Heat exchanger and hydraulic oil	flex air hydraulic engagement
Alternator A	12V 35°
Batteries A/h	1x 12V 50°

HYDRAULIC SYSTEM	
Displacement pistons pumps	closed circuit variable displacement
Rotor piston pump	fixed displacement
Services gear pump	open circuit
Oil tank	35 liters
Variable displacement piston pump (load sensing) for speed and services	12cc+12cc speed + 1 gear pump. 4,5cc services
Fixed displacement piston pump for the rotor	20 cc adjustable with potentiometer
Oil flow	60l/min
Services distributor	on-off 4 sect. with venting
Oil flow adjustment	Yes
1 st aux double acting	standard
2 nd aux double acting	standard
Max flail head motor pressure	280 Bar
Motor oil	6,6 liters

CONTROLS	
Remote controls range	100 - 150 m
Movements via joystick	proportional movements
Machine movements	forward-backward left-right
Display on the console	standard
Immediate arrest button	standard

TRANSMISSION	
Max. working slope gradient	55°
Hydraulic transmission	2 speed
Brake	automatic negative
Forward - backward speed	0-5 km/h 1 st gear 0 - 10,0 km/h 2 nd gear
Drive motors	pistons

FRAME	
Weight of Icut 3 Extra with standard tracks and without attachment (flail head)	1.070 kg
Adjustable undercarriage	iCUT 3 Extra (from 1.32m to 1.67m)
Track rollers	4
Chassis	additional heavy duty roll bar as opt.
Adjustable undercarriage	using two rams
Track chains type	Rubber
Track chains sizes	250 x 47 x 72
Hydraulic lift arms	with hydraulic and mechanical floating

FLAIL MOWER	
RPM rotor	3.000
Rotor	double rotation drive
Peripheral speed	51 m/sec.
Hydraulic motor	Pistons
Adjustable rear roller	3 positions (R series)
Adjustable abrasion resistant guards	(R and RF Series)
Transmission	toothed-belt

FERRI

SIMPLY. THE MOWER



iCUT



REMOTE CONTROL TOOL CARRIER

The iCUT 4 model is the leading remote controlled tool carrier machine that provides maximum operator safety in difficult situations. Especially recommended for the maintenance of reservoir embankments, restricted access areas within airports, recreational facilities, military bases, roadside verges and trunk road bankings.

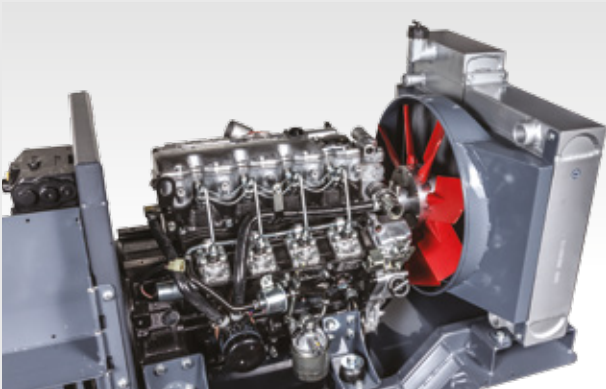
Power and control in your hands

The remote controlled iCut 4 model equipped with flail head is designed to mow grass, weeds, shrubs, branches and always ensuring operator's absolute safety. The iCut 4 specific design includes a low center of gravity, expandable undercarriage, and the contoured track profile allows the machine to operate in highly uneven areas having maximum grip and allowing extended utilization on slope in any direction, up to 55°.

This model is equipped with a 50HP diesel engine which can power both flail heads with 1.30m and 1.70m working width respectively. It is also possible to apply other equipment, which make the iCut 4 Extra a multi-functional tool carrier.

Engine

The iCut 4 Extra is equipped with a 4-cylinder ISUZU diesel engine. The 2179cc engine develops 35,9KW/49HP and provides a max torque of 103Nm @1800 Rpm. The icut 4 extra can face the most challenging slopes and terrain with lesser force.



Hydraulic system

Load sensing technology significantly reduces energy loss, coordinating the flow rate supplied by the pump to that required by the work. The Flow Sharing device ensures that if the oil required is greater than the flow rate provided by the pump the valve will automatically redistribute the flow rate proportionally over every single spool, always guaranteeing the best operation.



Adjustable undercarriage

An expandable undercarriage has been designed by to meet the most demanding customer needs. In extreme working conditions when it is necessary to increase the machine safety, it is possible to increase the undercarriage width by means of a hydraulic drive, bringing the total track width from 132cm to 167cm.

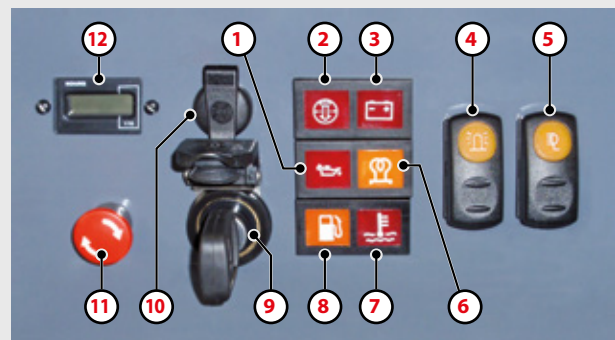
The tracks enlargement is made directly from the control panel. The track chains are firmly kept aligned thanks to a triple flange rollers near the sprocket along with track chain guides.

The iCut 4 undercarriage is composed of **5 rollers** distributed in a way which optimizes the load and allow the best grip on the ground.

Ignition display

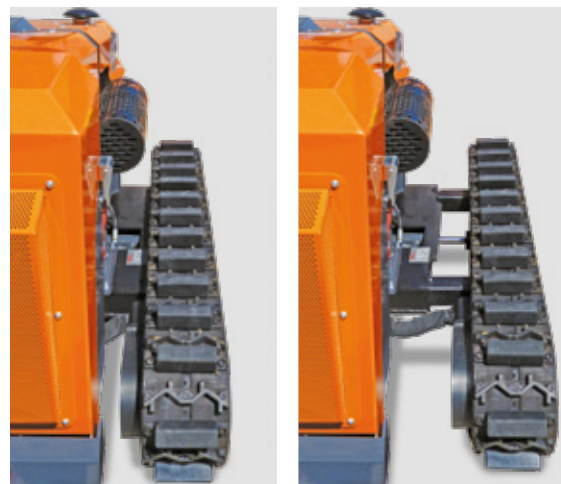
The information listed under points 1,2,3,7 and 8 of the ignition display is also reported on the console display guaranteeing the operator maximum control of machine functioning and complete operative safety.

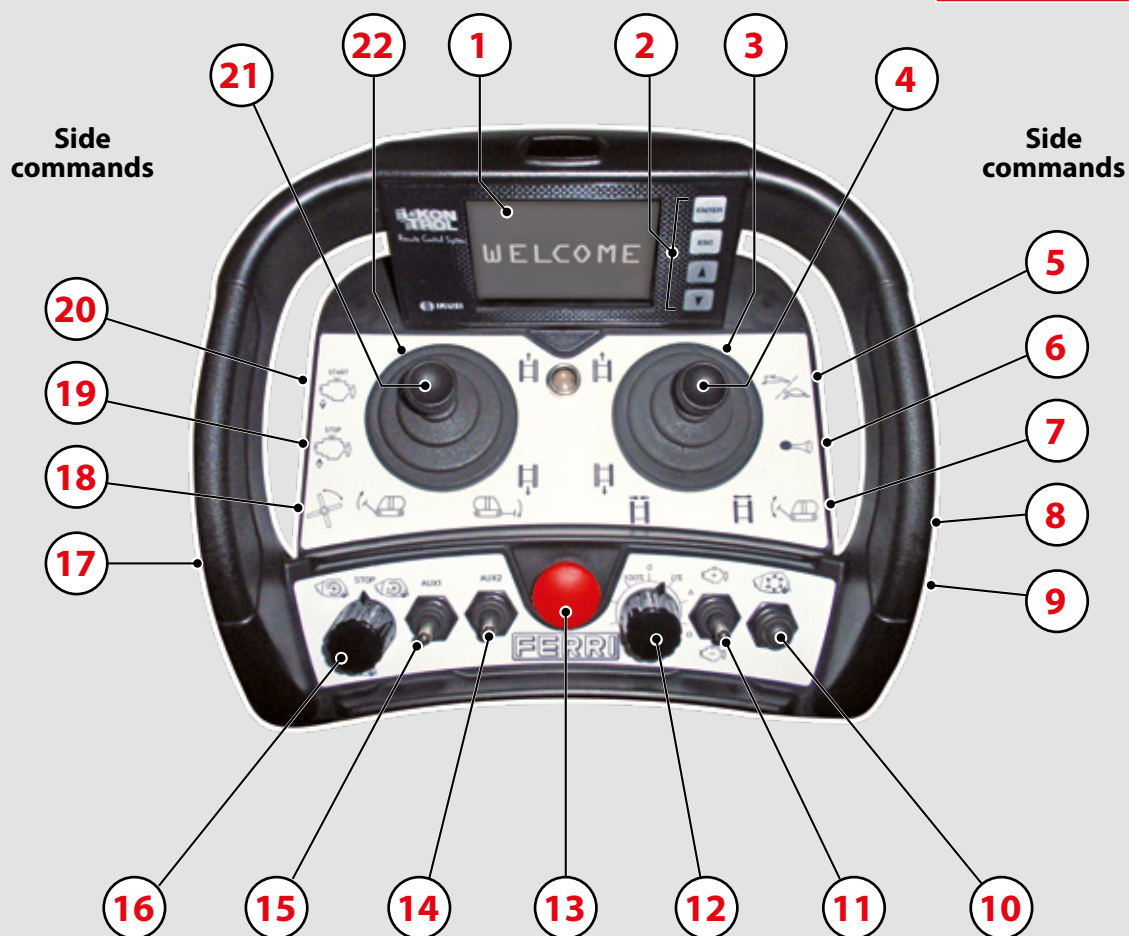
- 1 Low engine oil pressure
- 2 Air filter blockage
- 3 Alternator
- 4 Rotating light switch
- 5 Work light switch
- 6 Pre-heating spark plugs
- 7 Cooling liquid
- 8 Fuel reserve
- 9 Ignition key
- 10 Electric connector
- 11 Fuel stop button
- 12 Timer



Diagnostics

A display positioned on the receiving control unit highlights operative problems.





Commands

Two large joysticks guarantee complete control of the vehicle. The multi-color LED display allows you to monitor all key functions in real time. Such as the indicators for cooling liquid/oil, battery, engine oil pressure, fuel reserve, air filter blockage and the insertion/non-insertion of the floating device. The commands are arranged in a rational and intuitive manner allowing you to use the machine immediately. The console is also equipped with acoustic warnings

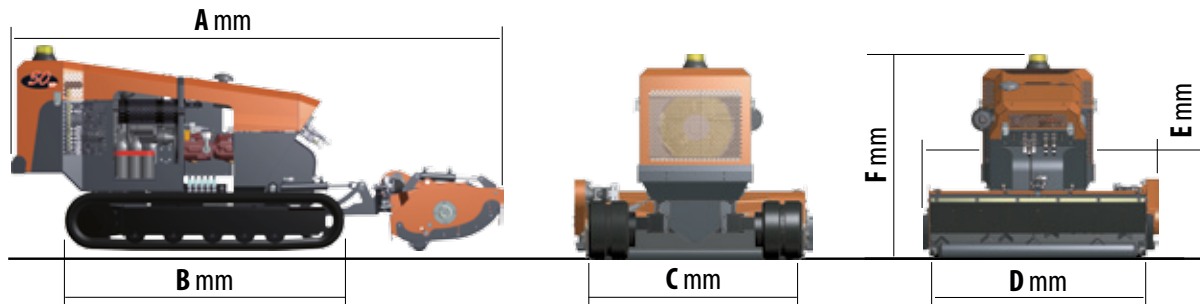
to signal problems and provide maximum operator safety. In addition to the immediate arrest button the console has a safety device that sets off an automatic block signal to the machine if there is repeated and unexplained inclination of the console. The cruise control system can also be activated from the console so that you can automatically regulate forward speed.

- | | | |
|--|--------------------------|---------------------------------|
| 1 LED multi-color display | 8 Key | 16 Rotor rotation direction |
| 2 Parameter modification commands | 9 Start | 17 Cable connection |
| 3 Forward/reverse RIGHT track | 10 Rotor ignition | 18 Reversible self-cleaning fan |
| 4 Opening/closing underbody | 11 Accelerator | 19 Engine stop |
| 5 1 st & 2 nd speeds | 12 Regulation oil flow | 20 Engine ignition |
| 6 Acoustic warning | 13 Emergency stop button | 21 Forward/reverse Left belt |
| 7 Floating device | 14 Auxiliary 1 | 22 Ascent/descent arm raiser |
| | 15 Auxiliary 2 | |



Dimensions

A mm (ft)	B mm (ft)	C mm (ft)	D mm (ft)	E mm (ft)	F mm (ft)
3.070 (10' 07")	1.740 (5' 70")	1.320 (4' 33")	1.350 (4' 43")	1.480 (4' 85")	1.270 (4' 17")
		1.670 (5' 49")			



ENGINE	
Diesel engine	4 cyl. Tier 4 stage 3A
Engine power	35,9 kW / 49 HP
Fuel	diesel
Engine lubrication	da 0° a 55°
Fuel tank	32 liters
Max torque	139,5 Nm @ 1.800 rpm
Engine displacement	2.179 cc
Suction	natural
Speed (rpm)	adjustable
Cooling	liquid
Hydraulic oil cooler	air
Heat exchanger and hydraulic oil	flex air hydraulic engagement
Alternator A	12V 35A
Batteries A/h	1x 12V 50A

HYDRAULIC SYSTEM	
Displacement pistons pumps	Closed circuit variable displacement
Rotor piston pump	Fixed displacement
Services gear pump	open circuit
Oil tank	46 liters
Oil flow	60l/min
Services distributor	flow sharing 5 sections
Oil flow adjustment	Yes
1 st aux double acting	standard
2 nd aux double acting	optional
Max flail head motor pressure	300 bar
Motor oil	9,0 liters

CONTROLS	
Remote controls range	100 - 150 m
Movements via joystick	proportional movements
Machine movements	forward-backward left-right
Display on the console	standard
Possibility to modify the parameters from the console	standard
Immediate arrest button	standard

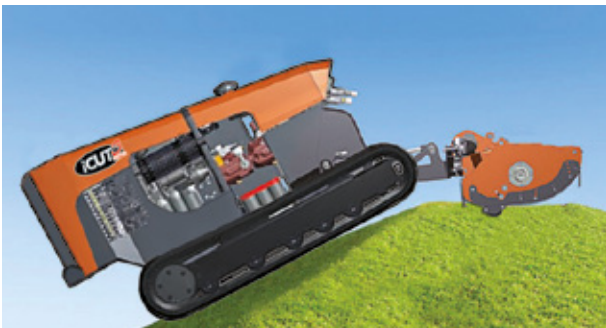
TRASMISSION	
Max. working slope gradient	55°
Hydraulic transmission	2 speed
Brake	automatic negative
Forward - backward speed	0-3,5 km/h 1 st gear / 0-7,0 km/h 2 nd gear
Drive motors	pistons

FRAME	
Weight of Icut 4 Extra with standard tracks and without attachment (flail head)	1.270 kg
Adjustable undercarriage	iCUT 4 Extra (from 1.32m to 1.67m)
Track rollers	5
Chassis	with roll bar
Adjustable undercarriage	Hydr. using two rams
Track chains type	rubber
Track chains sizes	250 x 52 x 72
Hydraulic lift arms	with hydraulic and mechanical floating

FLAIL MOWER	
RPM rotor	3.000
Rotor	double rotation drive
Peripheral speed	51 m/sec.
Hydraulic motor	pistons
Adjustable rear roller	3 positions (R series)
Adjust. abrasion resistant guards	(R and RF Series)
Transmission	toothed-belt

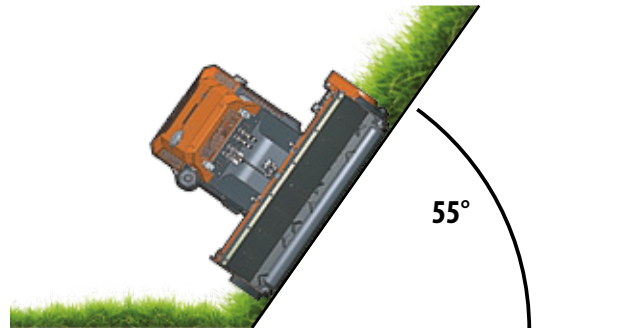
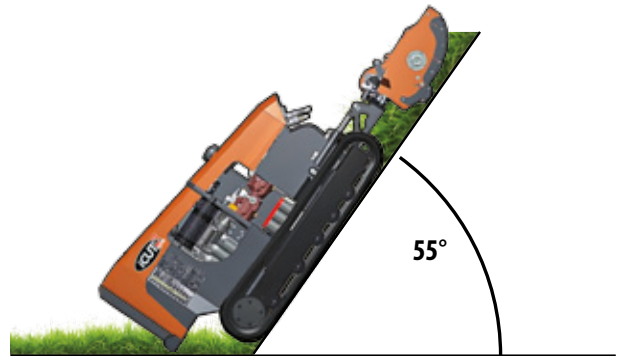
Floating device

The mixed system: mechanical and hydraulic is new on the market and allows the flail mower unit to perfectly follow the land formation. To ensure greater safety the floating system is accompanied by the operation of a spring-loaded element that transfers the weight of the shredding unit to the equipment vehicle reducing friction during forward movement. Greater stability means greater safety.



Inclination

The specific iCut project concepts: low center of gravity, expandable undercarriage and the contoured tracks profile allows operation in highly uneven areas having maximum grip and allowing extended utilization on slopes in any direction, up to 55°.



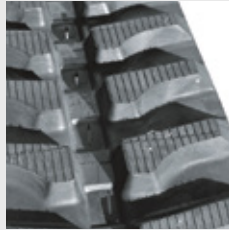
EQUIPMENT	ICUT4 EXTRA	ICUT3 EXTRA
Intuitive console with display	●	●
Cable manual emergency command	●	●
Socket 12V	●	●
STOP emergency button on the console	●	●
STOP emergency button on the ICUT	●	●
Flashing beacon	●	opt.
Raising hook	●	●
Fast hydraulic attachments	●	●
Hydraulic auxiliary	●	●
Second hydraulic auxiliary	opt.	●
Sliding linkage kit	opt.	opt.
Winch	opt.	opt.
Luminous triangular sign (500mn series)	opt.	opt.
Work headlights	opt.	opt.
Custom paint upon request	opt.	opt.
Roll-bar	●	●
Heavy Duty Roll-bar	-	opt.
Bio oil	●	opt.
Towing hook	opt.	opt.
Open hood kit for forestry flail mower (R series - only non-EU countries)	opt.	opt.

● Standard - Not available opt. Optional

Tracks

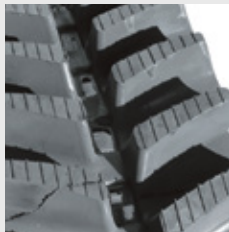
Four different kinds of tracks are available for operation in all types of working conditions with the highest level of safety and adherence.

Rubber tracks STANDARD Perfect for working on slopes this track, minimizes the damage to the turf and it is characterised by an extreme ease of travel on any surface.



Super Plus rubber tracks STANDARD PLUS

Designed for use on surfaces that you cannot damage excessively. It's an excellent compromise to work on steep slopes and where they are required on transfers damaged surfaces.



Track with steel treads GRIP

Suitable for working on slopes high and where are planned limited movements on surfaces asphalt or concrete. Another option to make them extreme, includes the addition of harpoons.



Super tracks with steel treads and steel - GRIP PLUS

Recommended for use on extreme slopes and forestry work where there are the needs maximum grip on the ground.





Hydraulic forestry flail mower RF 1300

Standard equipment:

- Hydraulic system with piston motor in open circuit
- Heavy Duty transmission with toothed belt drive
- Openable front hood with hydraulic jack
- DSR reversible head rotor system
- Rotor with rotation hammers for heavy duty
- rocking motion with adjustable balancing spring and mechanic block
- Rear protection with rubber cloth
- Adjustable skids on 2 different heights for the different use conditions

DSR (Double Sense of Rotation)



The device allows to change the direction of rotation of the flail head rotor, according to the cutting work required. It is equipped with a safety device to prevent accidental reversing of rotor whilst in use.



Rotating hammer

HYDRAULIC FORESTRY FLAIL MOWER

Model		RF 1300
Working width	m (ft)	1,32 (4' 3")
Weight	kg (lb)	326 (718)
Rotating hammer	n°	18



Hydraulic flail mower R1300 - R1700

Standard equipment:

- Floating cutting head
- Toothed belt drive transmission
- Front and rear head protection with double layer of rubber cloth
- Adjustable rear roller
- Reversible rotor (bi-directional-DSR)

Optional:

- Hydraulic open hood kit (for extra CE countries, only)

DSR (Double Sense of Rotation)



The device allows to change the direction of rotation of the flail head rotor, according to the cutting work required. It is equipped with a safety device to prevent accidental reversing of rotor whilst in use.



Multiuse blades



Articulated blades



Forged hammers

HYDRAULIC FLAIL MOWER

Model		R1300	R1700
Working width	m (ft)	1,35 (4' 4")	1,65 (5' 4")
Weight	kg (lb)	190 (419)	240 (529)
Multiuse blades	n°	44	-
Forged hammers	n°	22	-
Articulated blades	n°	44	56



FERRI[®]
SIMPLY. THE MOWER

iCUT³
EXTRA

iCUT⁴
EXTRA

INTERCHANGEABLE EQUIPMENT



SWEeper





SNOW BLOWER



SNOW BLADE



WINCH



HEAVY DUTY ROLL BAR
(Only iCut3)



HYDRAULIC SLIDING LINKAGE KIT



RF1300 WITH ROTATING HAMMER



STUMPS GRINDER





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www.votex.co.uk

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