

**FERRI**<sup>®</sup>

REMOTE CONTROL  
TOOL CARRIER



**iCUT** | 3

**iCUT** | 4.50 

# FERRI®

SIMPLY. THE MOWER



## iCUT 3 extra

### REMOTE CONTROL TOOL CARRIER

*The iCUT 3 model is the leading remote controlled tool carrier machine that provides maximum safety in critical and difficult situations achieving superb performances. Especially recommended for maintenance of retention ponds and embankments, or no-easy-to-access areas within airports, recreational facilities or military bases.*

### 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°.

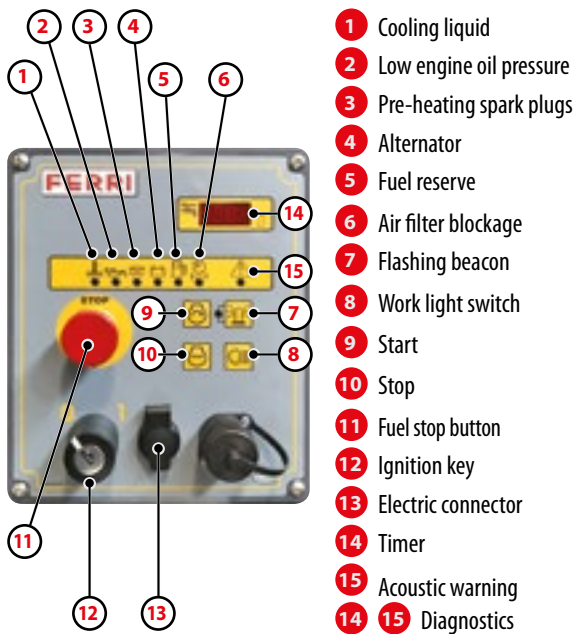
This model is equipped with a 40HP diesel engine which can power both flail heads with 1,30 m and 1,70 m working width respectively. It is also possible to attach other equipment, which make the Ferrri iCut 3 Extra a multi-functional tool carrier.

## 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



## Adjustable undercarriage

An expandable undercarriage has been designed by Ferri 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 132 cm to 167 cm.

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.

## 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 |

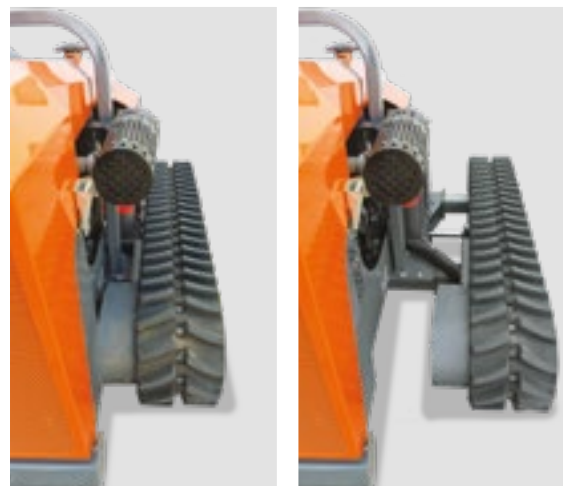
The hydrostatic closed circuit systems are very efficient because they let circulate only the oil flow required by the machine.

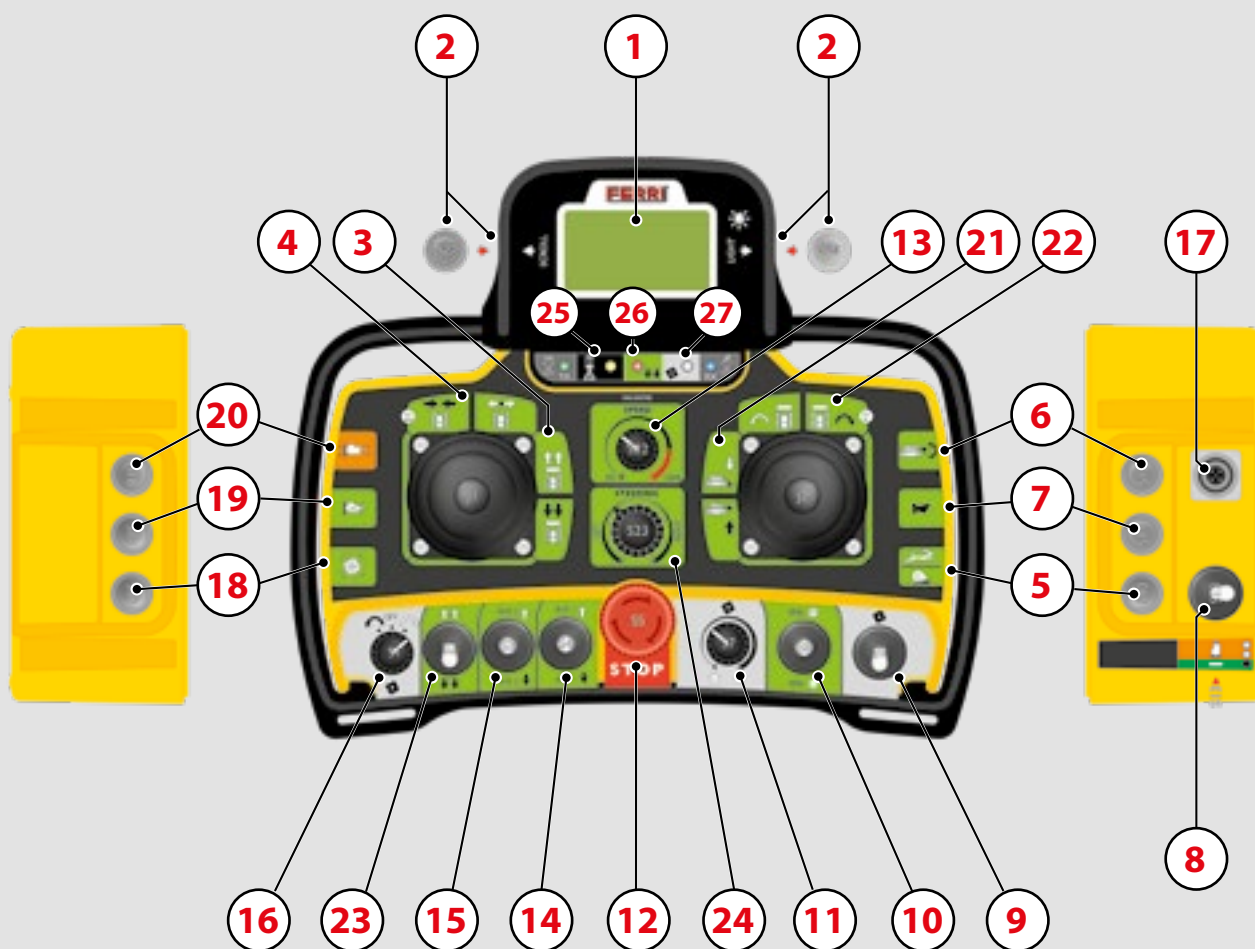
The manifold block that controls the hydraulic services is equipped with a venting valve which allows to reduce waste of energy when the services are not employed.



## Diagnostics

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).





## Remote control

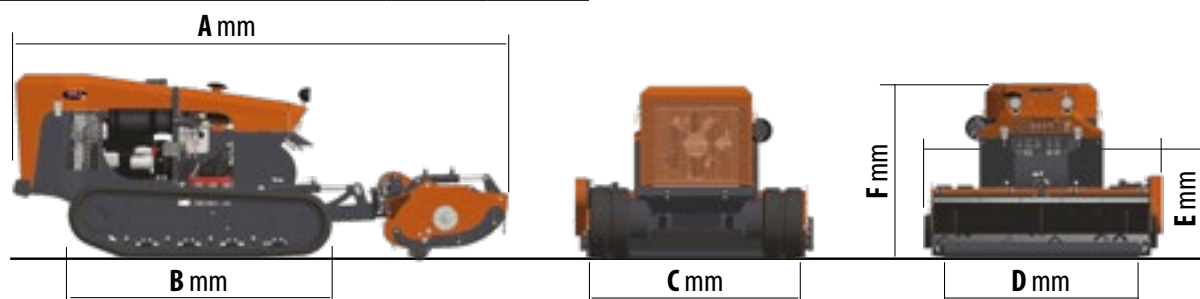
Two large joysticks provide precise control of both motion, steering and flail head height control. Simple control layout allowing start in the best working situation immediately, there is the option to customize speed and steering sensitivity matching personal preferences allowing working productively 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, the clogging 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	15	Auxiliary 2
2	Parameter modification commands	16	Rotor sense of rotation
3	Forward/reverse drive	17	Cable connection
4	Undercarriage opening/closing	18	Reversible self-cleaning fan
5	1 <sup>st</sup> e 2 <sup>nd</sup> speeds	19	Engine arrest
6	Floating device	20	Engine ignition
7	Acoustic warning	21	Arm lift - arm drop
8	Start	22	Left - right drive
9	Rotor start	23	Forward/reverse steering change
10	Accelerator	24	Drift compensation
11	Oil flow adjustment	25	Remote control battery indicator
12	Immediate arrest button	26	Reverse activation indicator
13	Cruise control	27	Working rotor indicator
14	Auxiliary 1		

## 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 <sup>st</sup> aux double acting	standard
2 <sup>nd</sup> 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 <sup>st</sup> gear 0 - 10,0 km/h 2 <sup>nd</sup> 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 roller	n° 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 4.50 extra

# 4.50

### REMOTE CONTROL TOOL CARRIER

*The iCUT 4.50 Extra is the new radio-controlled tool carrier that allows you to work at a distance, allowing the user to always work in full compliance with operational safety standards and health and safety regulations and at the same time to clear areas that are difficult to reach or for which it is advisable not to get too close to.*

### Power and control in your hands

The iCUT 4.50 EXTRA radio-controlled tool carrier with flail head has been designed to cut grass, weeds, shrubs and even large diameter branches (forestry version) while always ensuring complete operator safety. .

The special design of the iCUT, its low centre of gravity, modified oil sump to ensure that the engine is correctly lubricated even on very steep gradients, an adjustable undercarriage and a large clearance between the oil sump and the ground means that the iCUT is the only machine that is able to work on extremely uneven terrain and in extremely harsh working conditions, even in areas that are difficult to reach with traditional vehicles.

## Motor

The 4-cylinder 2179 cc 50 HP (35.9 kW) engine can deliver maximum torque at 1800 Rpm. It uses the NEW innovative hydraulically controlled FLEXXAIRE liquid cooling system with reversible fans. This cooling system keeps the radiator clean, maximises engine performance and reduces fuel consumption..



## Diagnostics

The latest generation diagnostics allows you to automatically and immediately identify the type of malfunction and take corrective action. When the warning light comes on and a warning signal is heard at the same time, an error code appears on the start-up panel display. The user can use the user manual to identify the type of malfunction and take steps to correct it.



## Bio oil

Using a very high biodegradability oil as standard highlights the respect and commitment that Ferri has towards the environment. The use of biodegradable oil is increasingly recommended for use in agricultural and forestry machinery where, unlike the hydraulic oil that is normally used, an accidental oil leak would not damage the environment.



## Hydraulic system



The iCUT 4.50 EXTRA has a closed-circuit hydraulic system that prevents excessive heating of the oil and maximises performance by constantly adjusting the flow rate/pressure ratio to the actual power required. This system means that the power supplied is exactly the same as the power required, thereby reducing fuel consumption as much as possible. The VENTING valve on the distributor allows a separate open circuit system for the hydraulic services to be used that significantly reduces energy loss when no services are being used (for example during transfer). The closed-circuit hydraulic system reduces fuel consumption and increases the performance of the machine, providing an exceptional productivity-consumption ratio.



## iCUT4.50 EXTRA adjustable undercarriage

The EXTRA undercarriage has been designed by Ferri to address the needs expressed by its customers throughout the world and is made of special high-strength steel. The new profile, with a raised rear drive wheel, ensures greater grip to easily overcome any type of obstacle or allows it to be used on steep slopes. The undercarriage is composed of 5 lower rollers and one upper roller. Together with 5 pairs of mechanical guides, they prevent the tracks from slipping from their working position.

When the width of the undercarriage has to be altered, to ensure increased adherence to the ground, it is carried out directly from the radio control. Its width can be modified from 134 to 167 centimetres in just a few seconds.





## Radio control

The intuitive controls are arranged ergonomically to allow the machine to be used with ease right from the start. Two large ergonomic joysticks provide full control of the machine and the mounted tool. The radio control is set up to operate in multi-frequency mode, constantly searching for the best frequency. However, a specific frequency that is considered the most suitable can also be selected manually. The speed controls and the flow rate of oil to the cutting tool can be safely customised according to the preference of the operator and for the work to be carried out. In addition to the emergency stop button, the console is fitted with indicators for coolant and oil temperature, radio control battery charge, radio signal strength and channel, engine oil pressure, fuel reserve warning, engine RPM, rotor engaged, engine preheating, direction controls swap, air filter clogging, travel speed, FLEXXAIRE device control, and the floating system on/off control for the mounted equipment

1	LED multi-color display
2	Parameter modification commands
3	Forward/reverse drive
4	Undercarriage opening/closing
5	1 <sup>st</sup> e 2 <sup>nd</sup> speeds
6	Floating device
7	Acoustic warning
8	Start
9	Rotor start
10	Accelerator
11	Oil flow adjustment
12	Immediate arrest button
13	Cruise control
14	Auxiliary 1

15	Auxiliary 2
16	Rotor sense of rotation
17	Cable connection
18	Reversible self-cleaning fan
19	Engine arrest
20	Engine ignition
21	Arm lift - arm drop
22	Left - right drive
23	Forward/reverse steering change
24	Drift compensation
25	Remote control battery indicator
26	Reverse activation indicator
27	Working rotor indicator

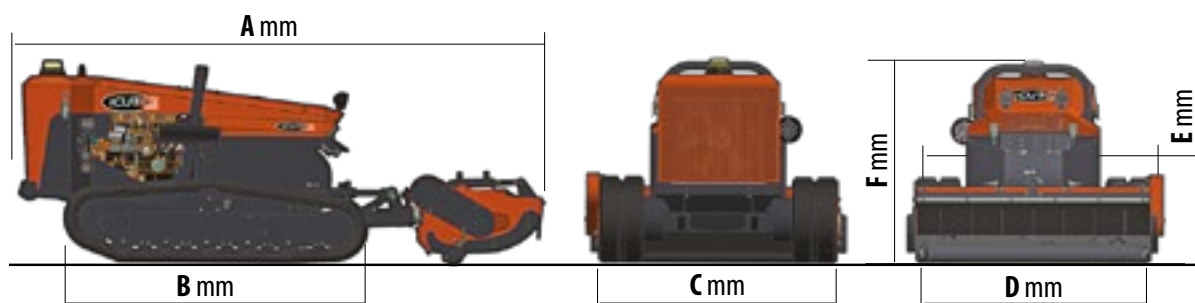


## Dimensions



A* mm	B mm	C mm	D mm	E* mm	F* mm
3.020	1.740	1.340	1.350	1.480	1.155
		1.670			

\* R 1300



### ENGINE

Diesel engine	4 cyl. Tier 4 stage 3A
Engine power	37,3 kW / 50 HP
Fuel	diesel
Max torque	139,5Nm a 1800rpm
Displacement	2179 (cc)
Aspiration	natural
Speed (rpm)	adjustable
Cooling	liquid
Reversible fan radiator for engine water / hydraulic oil	hydraulically actuated flexaire

### ELECTRICAL SYSTEM

Alternator A	12V 35A
Batteries A/h	1 X 12V 50Ah

### CONTROLS

Radio control range	100 - 150 m
Joystick operation	proportional movements
Console display	standard
Emergency stop button	standard
Machine movements	forward-backward left-right

### TRANSMISSION

Max. working gradient	55°
Drive motors	pistons
Brake	automatic negative
Forward - reverse speed	0-5 slow 0 - 10,0 kmh fast

### CAPACITIES

Engine oil	9 liters
Hydraulic oil tank	30 liters
Fuel tank	33,5 liters

### FRAME

Chassis	integrated rollbar (standard), Heavy duty rollbar (optional)
Adjustable undercarriage	using two cylinders
Lowers rollers	n° 5
Upper rollers	n° 1
Track type	rubber
Rubber tracks	250x52x72
Lift arm	with hydraulic and mechanical float system

### HYDRAULIC SYSTEM

Variable displacement piston pump for drive and services	14cc + 14cc Trasl. + 1 INGR. 4,5cc service
Fixed displacement piston pump for rotor	23cc adjustable with potentiometer
Oil flow	60l/m
Services distributor	on-off 4 section with venting
Oil flow adjustment	Yes
1 <sup>st</sup> aux double acting	standard
2 <sup>nd</sup> aux double acting	standard
Max flail head motor pressure	300 Bar

### DIMENSIONS/WEIGHTS

Max. width with undercarriage closed without head	1340 mm
Max. width with undercarriage open without head	1670 mm
Max. width with undercarriage open and R1300 mm head	1670 mm
Height max	1155 mm
Length without header	2240 mm
Length with R1300 head	3020 mm
Weight with R1300 head	1410 kg
Arm lifting capacity	381 kg

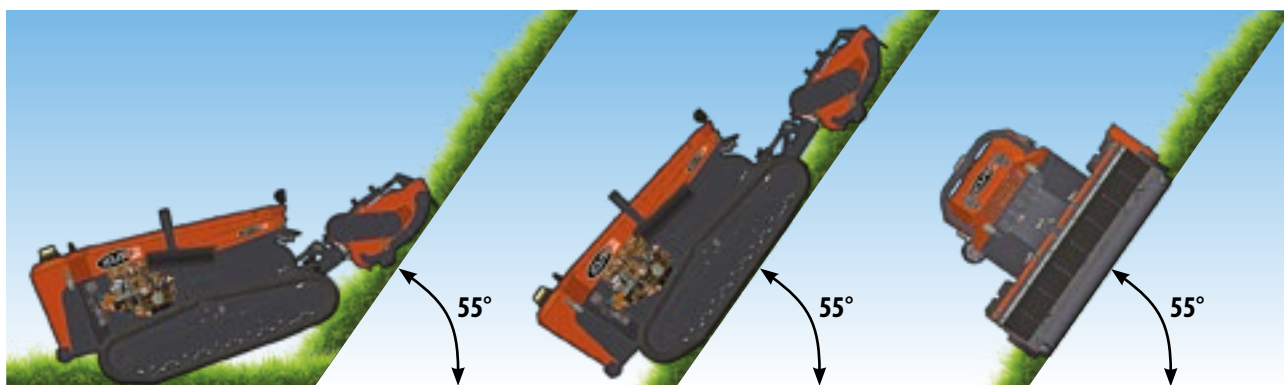
**Floating device.  
Greater versatility means greater safety.**

Ferri's experience has resulted in the development of this mixed mechanical/hydraulic system and it allows the equipment mounted on the iCUT 4.50 EXTRA to follow the contours of the ground perfectly. For even greater safety, a spring-loaded mechanism triggers at the same time as the floating system and transfers the weight of the equipment to the machine to reduced friction during forward movement.



**Inclination 55°**

Optimal weight distribution and a low centre of gravity means that the iCUT 4.50 EXTRA is able to operate up to gradients of 55° in all directions while ensuring optimal grip and traction under all working conditions. This means it can be operated remotely and in complete safety even in difficult to reach areas.



## Tracks

Four different kinds of tracks are available to enable operation in all working conditions while at the same time ensuring the best possible adherence to the ground and therefore machine performance and operator safety..

### Rubber tracks STANDARD

STANDARD medium tread rubber tracks. Ideal both for transfers and when operating in areas with moderate slopes, so as not to damage turf and for long distance transfers.



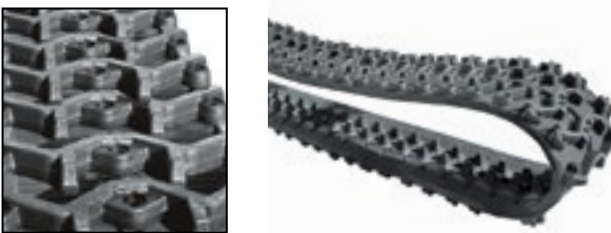
### Super Plus rubber tracks STANDARD PLUS

STANDARD PLUS deep tread rubber tracks. Ideal for working on medium and medium steep-slopes, this track minimises damage to turf.



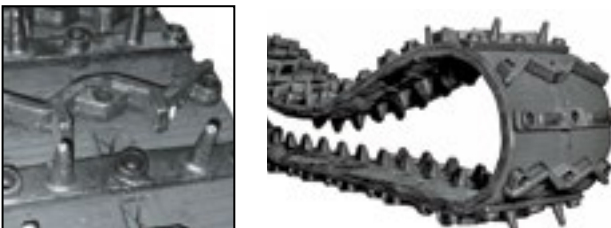
### Track with steel treads GRIP

GRIP rubber tracks with steel cleats, ensure maximum adherence and grip on stony terrain or on uneven ground that could damage rubber treads.



### Super tracks with steel treads and steel GRIP PLUS

GRIP PLUS tracks with steel cleats and studs. Recommended for use in extreme conditions both as regards gradient and type of terrain, a high cutting resistance of the tread is required together with a high capability for working on slopes.



## Hydraulic flail mower R1300 - R1700

Recommended for cutting grass, weeds and shrubs, they have two working widths 130 and 170 cm. They offer all the options of versatility, two different tools available (for the R1300 version and a single type of tool for the R1700) to allow you to increase productivity to the maximum, wherever possible. The DSR (Reversible rotor rotation) device allows you to choose or change the direction of rotation of the rotor according to the type of work to be carried out. The hydraulic cylinder for opening the front hood is available as an optional for countries in which its use is permitted.



"Y" flails

Articulated "Y" flails

Hammer flails



## Hydraulic forestry flail heads RF1300

The special structure of the head and its rotor, complete with rotating hammer blades, make this flail head ideal for working in harsh conditions. The DSR (Reversible rotor rotation) device allows you to choose or change the direction of rotation of the rotor according to the type of work to be carried out. An optional push frame is available, while the hydraulic cylinder for opening and closing the front hood is fitted as standard.



Rotating hammers



## Hydraulic forestry flail mower RF-R 1300

The forestry mulcher model RF-R, with its improved design, has increased the robustness of its structure and consequently both the durability and the impact resistance.

The adoption of DOMEX700 for the internal subframe allows to have a light structure but very strong and resistant.

The innovative rotor with reinforced rotating hammers, thanks to the Quick Change solution, allows an easy and fast tool replacement operation.



Reinforced Rotating hammers



FLAIL HEADS					
Model		R1300	R1700	RF 1300	RF-R 1300
Working width	m	1,35	1,65	1,32	1,30
Weight	kg	190	240	326	337
"Y" flails	n°	44	-	-	-
Hammer flails	n°	22	-	-	-
Articulated "Y" flails	n°	-	56	-	-
Rotating hammers	n°	-	-	18	-
Heavy Duty rotating hammers	n°	-	-	-	18
Rotor rpm	g/min	3000 (R1300/R1700)			
Rotor		double direction of rotation			
Peripheral speed	m/s	51 (R 133 /R 1700)			
Hydraulic motor		piston			
Support roller		adjustable in height in three positions (R1300/R1700)			
Anti-wear runners		height adjustable (R1300/R1700/RF1300/ RF-R1300)			

EQUIPMENT	ICUT3 EXTRA	ICUT4.50 EXTRA
Rubber tracks STANDARD	●	●
Rubber tracks STANDARD PLUS	opt.	opt.
Tracks with steel treads GRIP	opt.	opt.
Tracks with steel treads and steel GRIP PLUS	opt.	opt.
Remote control unit cable	opt.	opt.
Flashing beacon	opt.	opt.
Triangle danger tri-flash	opt.	opt.
Lifting points	●	●
Bio oil	opt.	●
2 batterie radiocomando	●	●
Custom paint upon request	opt.	opt.
Custom paint request for flail head	opt.	opt.
Snow blade	opt.	opt.
Snow blower	opt.	opt.
Sweeper	opt.	opt.
Stumps grinder	opt.	opt.
Winch	opt.	opt.
Hydraulic sliding linkage kit	opt.	opt.
Push over bar for flail head	opt.	opt.
Heavy-duty roll bar	opt.	opt.
Work headlights kit	opt.	opt.

● Standard    opt. Opzional

### Side shift kit

The optional head side shift kit is available only for the R1300 head. Its 20+20 centimetres displacement allows you to reach work areas that would otherwise not be possible, such as riverbanks, canals, or road infrastructure regardless of the width of the undercarriage.



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## INTERCHANGEABLE EQUIPMENT AND ACCESSORIES



### Versatility

The iCUT further increases the concept of a multi-functional machine, increasing the availability of equipment and allowing the use of this model throughout the year.

The different equipment designed specifically for the iCUT makes this machine suitable for operating in the forestry sector, maintenance of public and private gardens, gardening, winter roads and handling of inert materials.

### HIGH BUCKET TIPPING





**SNOW BLADE**



**SWEEPER**



**TRIANGLE DANGER  
TRI-FLASH**



**HEAVY DUTY ROLL BAR**



**HEADLIGHTS KIT**



**FLASHING BEACON**



**SNOW BLOWER**



**RF1300-R WITH  
REINFORCED  
ROTATING HAMMER**



**STUMPS GRINDER**





[www.ferrisrl.it](http://www.ferrisrl.it)



I dati tecnici riportati ed i modelli descritti si intendono non impegnativi.  
Per fini migliorativi il Costruttore si riserva il diritto di modifiche, senza preavviso.  
Disegni e fotografie possono riferirsi a equipaggiamenti opzionali o ad allestimenti destinati ad altri Paesi.  
Per ogni altra informazione, rivolgersi alla nostra rete di vendita.

**FERRI**<sup>®</sup>  
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