



# **OUR DISTRIBUTION WORLD WIDE**



OVER
40
YEARS
OF EXPERIENCE

OVER

530

DEALERS

WORLDWIDE

129.000 MACHINES

SOLD WORLDWIDE

# **CERTIFICATIONS**









# CERTIFICATO

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ISO 9001:2015

ORSI GROUP S.r.t.

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Sedi Oggento o Genéralizacional







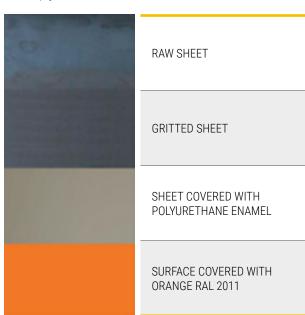




# ANTICORROSIVE TREATMENT

# ANTICORROSIVE POWDER TREATMENT

- Shot Blasting SA Ø 2,5
- Primer application in zinc phosphate epoxy powder thickness 60-80 µm
- EXTRA polyurethane finishing powder (UV-resistant) thickness 60-80 µm polymerization at 180° for 20'
- Final dry thickness 120-160
- Orange colour RAL 2011
- Corrosivity class c5-i following DIN55633 and DIN EN ISO 12944-6 norms
- · Salt spry resistance 2000h



### ANTICORROSIVE LIQUID TREATMENT FOR MECHANICAL AND HYDRAULIC COMPONENTS

### HIGH STRENGHT CYCLE

- Shot Blasting sa Ø 2,5
- Epoxy bi-component primer application in zinc CT90
- Expoprimer application CT113 grey 7035
- EXTRA bi-component polyurethane enamel application (UV-resistant)
- Final dry thickness 350-400 µm

### STANDARD CYCLE

- Shot Blasting sa Ø 2,5
- Expoprimer application CT113 grey 7035
- $\bullet$  EXTRA bi-component polyurethane enamel application (UV-resistant)
- Final dry thickness 180-200 μm

"WHY AN EXCELLENT PAINTING IS IMPORTANT"

BECAUSE IT KEEPS THE PRICE OF THE MACHINE ON THE SECOND-HAND MARKET.











### WHY WE USE HARDOX?

Hardox® 450

The most popular abrasion-resistant steel with excellent structural properties.

Hardox® 450 is an abrasion-resistant steel with a nominal hardness of 450 HBW. Hardox® 450 combines good bendability and weldability with an option for guaranteed impact toughness (Hardox® 450 Tuf).

The products can be used in many different components and structures that are subject to wear. Hardox® 450, with an extra 50 Brinell hardness over our 400 grade, provides better dent and abrasion resistance as well as longer wear life, so you can achieve even greater savings.



Superior properties

Strenx® steel has extremely consistent properties, ensuring precision and efficiency in the workshop.

If you think all steel is basically the same, Strenx® performance steel will change your thinking. Strong and reliable from surface to core, Strenx® steel features exceptional surface quality as well as impressive thickness and flatness tolerances verified by the Strenx® guarantees. The steel's properties - yield and tensile strength, bending performance, impact toughness - are carefully tested to ensure reliability and consistency in every delivery.



# TECHNICAL INFORMATION









### **ORSI V3.1**

Compact valve group proportioned to the oil flows necessary to the machineries. Just projected by ORSI's technical dept. to satisfy the needs of machineries attached to excavators. Anticavitation valve, max valve and flow divider; exhaust drainage collector and only 2 hoses for connection to the excavator (ingoing oil and direct return to the tank).

### **HYDRAULIC GEAR MOTOR**

Hydraulic gear motor in cast iron. Designed to have excellent mechanical characteristics with a rigid and compact structure that guarantees excellent reliability and high volumetric performance even at high working pressures. Max 250 BAR.

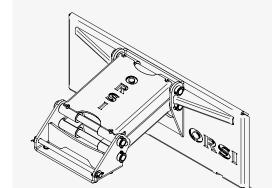
# REXROTH HYDRAULIC PISTON ENGINE

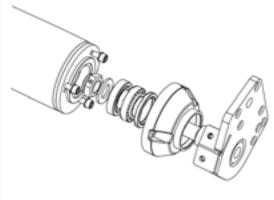
Constant displacement hydraulic motors with rotating assembly with axial conical pistons and inclined cylinder block. Very high quality, very high performance. Variable displacement hydraulic motors with rotating assembly with axial conical pistons and inclined cylinder block. By adjusting the inclined cylinder block, it is possible to modify the torque and the displacement continuously.

# ASPORTABLE OSCILLATING PLATE

Autolevelling system specially bolted to the chassis with the same saddle attack drill. Possibility to remove it quickly for a greater accuracy and better operation in the profiling of the hedges. Also equipped with a locking pin in case of occasional use in the vertical profiles.













# OSCILLATING HITCH WITH HYDRAULIC SIDE SHIFTA

Universal hitch plate for miniskids with integrated floating system, for a better adherence of the shredder to the working plane. Fixed to the shredder by means of a bolted stirrup for maximum flexibility over time.

### **PROFESSIONAL ROLLER**

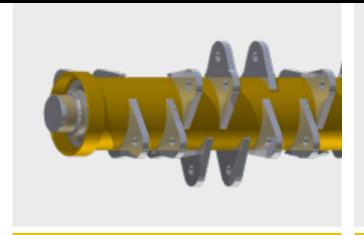
Professional support roller Ø 140 mm with 4 opposed tapered roller bearings. Interchangeable central body.

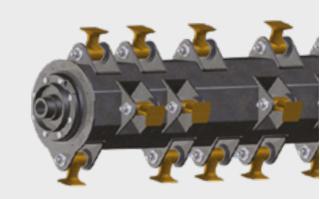
### **MOUNTING BRACKETS**

Attachment bracket for excavator supplied on request (without pins).

### **ADAPTERS**

# **ROTOR**







### **HELICOCUT**

Rotor with helical cutting system design with 6 rows of tools, designed to reduce the efforts and give more homogeneousity to the cut and therefore better performance. Possibility to change 4 or 5 types of tools on the same rotor to always have the more suited tool for the type of work to deal with. More efficiently with less effort.

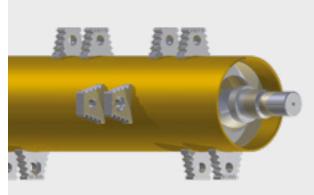
# SEMIFOREST WITH ROTARY HAMMERS

Rotor with retractable rotating hammers specially designed to make more efficient the normal flail heads in the hard work of deforest. Designed by ORSI to allow small excavators, spiders and all those machines able to climb the huge slopes of the high mountains, to clean small spaces. Mountable as standard or as a spare part at a later time, it becomes the ideal friend when the going gets tough and the spaces are narrow and cramped.

# FOREST ROTOR WITH ROTATING HAMMERS

Professional forest rotor for deforestation. Suitable for aggressive work of plants abatement up to 12 cm in diameter. It is also ideal for cleaning the floor. Using the tool in both working directions will be created a clean surface and free from dangerous protrusion.







# FOREST ROTOR WITH FIXED TEETH

Professional FOREST rotor for big deforestation. Born with helicoidal system and two spirals, it uses interchangeable tools in tungsten. Maximum aggression and excellent performance make this rotor the most powerful tool for heavier works.

### "VENTILATOR" ROTOR

Electronically balanced. Forest type tool holders moulded in boron steel

# ROTOR WITH "FLANGES TOOL LIMITER" (FTL) TECHNOLOGY

Excellent performance and speed with less power requested.

The working depth of the tools is limited by steel flanges, reducing the requested power and still guaranteeing high performances.







1,2 ÷ 2,5 ton. max Ø 2,5 cm

A mulcher for mini excavators, equipped with a hammers or knives rotor.

The smallest mulcher in our construction range, designed for cleaning bushes and shrubs.

The mulcher can be equipped with either a standard 8 cc motor or with an 11 cc or 16 cc one, and it is intended to be used on 1.2 to 2.5 t excavators.

$\mathbb{C}$	RPM	$\Diamond$	$\odot$
8 c.c.	2.500 - 3.000	20÷25 lt/min	220 max BAR
11 c.c.	2.500 - 3.000	28÷33 lt/min	220 max BAR
16 c.c.	2.500 - 3.000	40÷48 lt/min	220 max BAR





# BASIC 80 PROFESSIONAL SERIES

BASIC 80			А	В
IE	CHNICAL	SPECIFICATIONS		
Wo	orking wid	dth	80 cm	80 cm
Ov	Overall width		95 cm	95 cm
Ма	achine w	eight*	75÷100 kg	75÷100 kg
Dir	ect trans	smission	✓	<b>✓</b>
8	ļ	Knifes A max Ø 1,5cm	*variable weight based on the layout N° 40	-
tools	1	Hammers B max Ø 2,5 cm	-	N° 20

BASIC 80	A	В
MACHINE		
Rear roller Ø 100 cm adjustable in height	<b>✓</b>	<b>✓</b>
Replaceable skids	✓	<b>✓</b>
Removable oscillating plate	✓	<b>✓</b>
Standard mounting brackets (no pins)	•	•
Adapters	•	•
TRANSMISSION		
VARISEAL engine with external drainage	✓	✓
Rotor with possibility of use 2 types of tools	✓	✓
Double-row self-aligning ball bearings	✓	✓
Unidirectional rotor rotation	✓	✓
HYDRAULIC SYSTEM		
One way valve on return	<b>✓</b>	<b>✓</b>
ORSI V3.1-1/2: valve of max. pressure + anticavitation valve + flux regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = 12 BAR	✓	<b>✓</b>















A mulcher that can be equipped with either a 16 cc motor or with a 22 cc or 27 cc one, and it is intended to be used on excavators from 2.5 to 7 t. This mulcher is designed for cleaning bushes and shrubs up to 5 cm in size, and it has a wide range of tools.

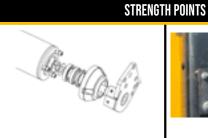
The "BELT" version comes with a pulley transmission instead of a direct motor.

$\overline{\mathbb{C}}$	RPM	$\Diamond$	$\odot$
16 c.c.	2.500 - 3.000	40÷48 lt/min	220 max BAR
22 c.c.	2.500 - 3.000	55÷65 lt/min	220 max BAR
27 c.c.	2.500 - 3.000	68÷81 lt/min	220 max BAR





REMOVABLE OSCILLATING PLATE



**REAR ROLLER PROF Ø 140 mm** with 4 bearings with tapered rollers, mud scraper and interchaneable central part.



**ORSI V3.1** 



DOUBLE-ROW SELF-ALIGNING BALL BEARINGS



IN	DUSTRIAL		80	105	125	105 BELT	125 BELT
ΤE	CHNICAL SPE	CIFICATIONS					
Wo	orking width		80 cm	105 cm	125 cm	105 cm	125 cm
Ov	erall width to	tal	105 cm	130 cm	150 cm	125 cm	145 cm
Machine weight*		*	250÷300 kg	270÷320 kg	300÷350 kg	270÷320 kg	300÷350 kg
Dir	ect transmis	sion	✓	✓	✓	-	-
Ве	lts transmiss	ion	-	-	-	2 cinghie	2 cinghie
	¥	D max Ø 3 cm	N° 32	N° 40	N° 48	N° 40	N° 48
	Ţ	O max Ø 3 cm	N° 32	N° 40	N° 48	N° 40	N° 48
tools	Î	E max Ø 4 cm	N° 16	N° 20	N° 24	N° 20	N° 24
	Y	F max Ø 4 cm	N° 16	N° 20	N° 24	N° 20	N° 24
	1	N max Ø 5 cm	N° 16	N° 20	N° 24	N° 20	N° 24

INDUSTRIAL	80	105	125	105 BELT	125 BELT
MACHINE					
Rear roller Ø 140 mm with 4 tapered roller bearings and interchangeable central body thickneass 6 mm, adjustable in height	•	<b>✓</b>	<b>✓</b>	•	✓
Replaceable skids	<b>✓</b>	✓	✓	<b>✓</b>	<b>✓</b>
Blade cutting system	✓	✓	✓	✓	✓
Front and rear protection rubber	✓	✓	✓	✓	✓
Removable oscillating plate	✓	✓	✓	✓	✓
Mechanical rotation 180° (A.)	•	•	•	•	•
Hydraulic rotation 180° (n°2 hydraulic hoses) (B.)	•	•	•	•	•
Standard mounting brackets (no pins)	•	•	•	•	•
Adapters	•	•	•	•	•
Selflevelling "universal" skid coupler	•	•	•	•	•
Coupler for loaders/ telescopic lifters/ backhoes	•	•	•	•	•
TRANSMISSION					
VARISEAL engine with external drainage	<b>✓</b>	✓	✓	<b>✓</b>	✓
"Helicocut" rotor	✓	✓	<b>✓</b>	✓	✓
Double-row self-aligning ball bearings	✓	✓	✓	✓	✓
Unidirectional rotor rotation	✓	✓	✓	✓	✓
HYDRAULIC SYSTEM					
One way valve on return	<b>✓</b>	✓	✓	✓	✓
ORSI V3.1-1/2: valve of max. pressure + anticavitation valve + flux regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = $12$ BAR with engine $16-22$ cc.	•	•	<b>~</b>	•	<b>✓</b>
ORSI V3.1-3/4: valve of max. pressure + anticavitation valve + flux regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = 12 BAR with engine 27 cc.	<b>~</b>	<b>✓</b>	<b>~</b>	<b>~</b>	<b>~</b>

# INDUSTRIAL PROFESSIONAL SERIES









\*variable weight based on the layou







5 ÷ 12 ton.

max Ø 8/10 cm

A HARDOX machine that can be equipped with a 22 cc, 27 cc or 38 cc motor, and it is intended to be used on excavators from 5 to 12 t.

Designed for cleaning bushes, shrubs and wood up to 10 cm in size, with a wide range of tools and also the possibility to equip a semi-forestry rotor.

$\overline{\mathbb{C}}$	RPM	$\Diamond$	<b>③</b>	
22 c.c.	2.500 - 3.000	55÷65 lt/min	250 max BAR	
27 c.c.	2.500 - 3.000	68÷81 lt/min	250 max BAR	
38 c.c.	2.500 - 3.000	95÷115 lt/min	250 max BAR	

# **PROFESSIONAL**

HYDRAULIC CUTTING HEAD

### STRENGTH POINTS



REMOVABLE OSCILLATING PLATE



INTERNAL DOUBLE FRAME + STATIC KNIVES IN HARDOX



HELICOIDAL ROTOR "HELICOCUT"



REAR ROLLER PROF Ø 140 mm with 4 bearings with tapered rollers, mud scraper and interchaneable central part.



ORSI V3.1



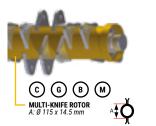
DOUBLE-ROW SELF-ALIGNING BALL BEARINGS

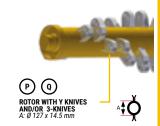
PRO	FESSIONAL	105	125	150	105	125	125	125	180
			SHAL	1	ı	l	Ī	5	2
			C G B M		P	Q	v		T
TECH	NICAL SPECIFICATIONS							'	
Work	ing width	105 cm	125 cm	150 cm	105 cm	125 cm	125 cm	125 cm	180 cm
Over	all width total	135 cm	155 cm	180 cm	135 cm	155 cm	155 cm	155 cm	210 cm
Macl	nine weight*	380÷430 kg	420÷490 kg	480÷530 kg	380÷430 kg	420÷490 kg	420÷490 kg	420÷490 kg	540÷590 kg
Direc	t transmission	✓	✓	✓	<b>4</b>	✓	<b>4</b>	✓	✓
	С тах Ø 3 ст	N° 32	N° 48	N° 72	-	-	-	-	-
	G max Ø 4 cm	N° 16	N° 24	N° 36	-	-	-	-	-
	B max Ø 4 cm	N° 16	N° 24	N° 36	-	-	-	-	-
(0	M max Ø 6 cm	N° 16	N° 24	N° 36	-	-	-	-	-
tools	P max Ø 5 cm	-	-	-	N° 32	N° 40	-	-	-
	Q max Ø 5 cm	-	-	-	N° 32+16	N° 40+20	-	-	-
	V max Ø 8 cm	-	-	-	-	-	N° 24	-	-
	T max Ø 8/10 cm	_	-	-	-	-	-	N° 20	N° 32

PROFESSIONAL	105	125	150	180
MACHINE	1	1		
Steel frame with internal counter-frame (double frame)	<b>✓</b>	<b>✓</b>	<b>4</b>	<b>✓</b>
Static knife in Hardox and blade cutting system	✓	<b>✓</b>	<b>✓</b>	✓
Rear roller $\emptyset$ 140 mm with 4 tapered roller bearings and interchangeable central body thickness 6 mm, adjustable in height	•	<b>~</b>	<b>~</b>	<b>~</b>
Replaceable skids	✓	✓	✓	✓
Front and rear protection rubber	✓	✓	<b>✓</b>	✓
Removable oscillating plate	✓	✓	<b>✓</b>	✓
Mechanical rotation 180° (A.)	•	•	•	•
Hydraulic rotation 180° (n°2 hydraulic hoses) (8.)	•	•	•	•
Standard mounting brackets (no pins)	•	•	•	•
Adapters	•	•	•	•
Selflevelling "universal" skid coupler	•	•	•	•
CCoupler for loaders/ telescopic lifters/ backhoes	•	•	•	•
Hydraulic openable bonnet with machine already set up	•	•	•	•
TRANSMISSION				
VARISEAL engine with external drainage	<b>✓</b>	<b>4</b>	<b>4</b>	<b>✓</b>
"Helicocut" rotor	✓	✓	✓	✓
Double-row self-aligning ball bearings	✓	✓	<b>✓</b>	✓
Unidirectional rotor rotation	✓	✓	✓	✓
HYDRAULIC SYSTEM				
One way valve on return	✓	✓	✓	✓
ORSI V3.1-3/4: valve of max. pressure + anticavitation valve + flux regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = 12 BAR	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>

# **PROFESSIONAL**

**PROFESSIONAL SERIES** 





















max Ø 8/10 cm

A HARDOX machine that can be equipped with either a 22 cc or with a 27 cc or 38 cc motor, and it is intended to be used on excavators from 5 to 12 t.

Designed for cleaning bushes, shrubs and wood up to 10 cm in size, with a wide range of tools and also the possibility to equip a semi-forestry rotor. This version comes with a pulley transmission for a greater strength of the rotor during the work.

$\mathbb{C}$	RPM	$\Diamond$	$\odot$
22 c.c.	2.500 - 3.000	55÷65 lt/min	250 max BAR
27 c.c.	2.500 - 3.000	68÷81 lt/min	250 max BAR
38 c.c.	2.500 - 3.000	95÷115 lt/min	250 max BAR

### STRENGTH POINTS



REMOVABLE OSCILLATING PLATE



INTERNAL DOUBLE FRAME + STATIC KNIVES IN HARDOX



HELICOIDAL ROTOR "HELICOCUT"



REAR ROLLER PROF Ø 140 mm with 4 bearings with tapered rollers, mud scraper and interchaneable central part.



ORSI V3.1



DOUBLE-ROW SELF-ALIGNING BALL BEARINGS

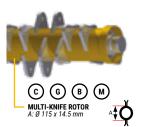
# PROFESSIONAL BELT 105 125 150 105 125 125 125 180 C G B M P Q V T

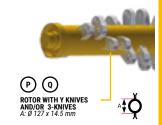
		_							
TECH	INICAL SPECIFICATIONS								
Worl	king width	105 cm	125 cm	150 cm	105 cm	125 cm	125 cm	125 cm	180 cm
Over	all width total	135 cm	145 cm	170 cm	135 cm	145 cm	135 cm	145 cm	200 cm
Mac	hine weight*	390÷440 kg	430÷500 kg	490÷540 kg	390÷440 kg	430÷500 kg	490÷540 kg	430÷500 kg	550÷600 kg
Belts	transmission	3 belts							
	С тах Ø 3 ст	N° 32	N° 48	N° 72	-	-	-	-	-
	G max Ø 4 cm	N° 16	N° 24	N° 36	-	-	-	-	-
	B max Ø 4 cm	N° 16	N° 24	N° 36	-	-	-	-	-
tools	M max Ø 6 cm	N° 16	N° 24	N° 36	-	-	-	-	-
too	Р тах Ø 5 ст	-	-	-	N° 32	N° 40	-	-	-
	Q max Ø 5 cm	-	-	-	N° 32+16	N° 40+20	-	-	-
	V max Ø 8 cm	-	-	-	-	-	N° 24	-	-
	T max Ø 8/10 cm	-	-	-	-	-	-	N° 20	N° 32

PROFESSIONAL BELT	105	125	150	180
MACHINE				
Steel frame with internal counter-frame (double frame)	✓	✓	<b>✓</b>	<b>✓</b>
Static knife in Hardox and blade cutting system	✓	<b>✓</b>	✓	✓
Rear roller Ø 140 mm with 4 tapered roller bearings and interchangeable central body thickness 6 mm, adjustable in height	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>
Replaceable skids	✓	✓	✓	✓
Front and rear protection rubber	✓	✓	✓	✓
Removable oscillating plate	✓	✓	✓	✓
Mechanical rotation 180° (A.)	•	•	•	•
Hydraulic rotation 180° (n°2 hydraulic hoses) (B.)	•	•	•	•
Standard mounting brackets (no pins)	•	•	•	•
Adapters	•	•	•	•
Selflevelling "universal" skid coupler	•	•	•	•
CCoupler for loaders/ telescopic lifters/ backhoes	•	•	•	•
Hydraulic openable bonnet with machine already set up	•	•	•	•
TRANSMISSION				
VARISEAL engine with external drainage	✓	<b>✓</b>	<b>✓</b>	<b>*</b>
"Helicocut" rotor	✓	✓	✓	✓
Trasmissione a cinghie	✓	✓	✓	4
Double-row self-aligning ball bearings	✓	✓	<b>✓</b>	<b>4</b>
Unidirectional rotor rotation	✓	<b>✓</b>	<b>✓</b>	<b>4</b>
HYDRAULIC SYSTEM				
One way valve on return	✓	✓	✓	<b>✓</b>
ORSI V3.1-3/4: valve of max. pressure + anticavitation valve + flux regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = 12 BAR	<b>✓</b>	<b>✓</b>	<b>✓</b>	~

## PROFESSIONAL BELT

**PROFESSIONAL SERIES** 





















8 ÷ 15 ton.

A HARDOX machine equipped with either a 35 cc or a 44 cc axial piston motor, and it is intended to be used on excavators from 8 to 15 t.

Designed for cleaning bushes, shrubs and wood up to 10 cm in size, with a wide range of tools and also the possibility to equip a semi-forestry rotor.

$\overline{\mathbb{C}}$	RPM	$\Diamond$	$\odot$
35 c.c.	2.500 - 3.000	85÷100 lt/min	350 max BAR
44 c.c.	2.500 - 3.000	110÷120 lt/min	350 max BAR

# PROFESSIONAL PISTON

### STRENGTH POINTS



REMOVABLE OSCILLATING PLATE



INTERNAL DOUBLE FRAME + STATIC KNIVES IN HARDOX



HELICOIDAL ROTOR "HELICOCUT"



REAR ROLLER PROF Ø 140 mm with 4 bearings with tapered rollers, mud scraper and interchaneable central part.



**ORSI V3.1** 



DOUBLE-ROW SELF-ALIGNING BALL BEARINGS

### PROFESSIONAL *PISTON* 125 125 V TECHNICAL SPECIFICATIONS Working width 105 cm 125 cm 150 cm 105 cm 125 cm 125 cm 125 cm 180 cm 125 cm 145 cm 170 cm 125 cm 145 cm 145 cm 145 cm 200 cm Overall width total 490÷540 kg 430÷500 kg 430÷500 kg 430÷500 kg Machine weight\* 390÷440 kg 430÷500 kg 390÷440 kg 550÷600 kg Belts transmission 1 belt C max Ø 3 cm N° 32 N° 48 N° 72 G max Ø 4 cm N° 16 N° 24 N° 36 B max Ø 4 cm N° 16 N° 24 N° 36

N° 36

N° 32

N° 32+16

N° 40

N° 40+20

N° 24

N° 20

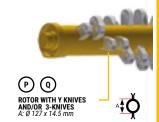
N° 32

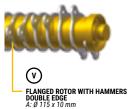
PROFESSIONAL PISTON	105	125	150	180
MACHINE	1			ì
Steel frame with internal counter-frame (double frame)	<b>✓</b>	<b>✓</b>	<b>4</b>	<b>•</b>
Static knife in Hardox and blade cutting system	<b>✓</b>	✓	✓	<b>✓</b>
Rear roller Ø 140 mm with 4 tapered roller bearings and interchangeable central body thickness 6 mm, adjustable in height	<b>✓</b>	✓	✓	<b>~</b>
Replaceable skids	✓	✓	✓	✓
Front and rear protection rubber	✓	✓	✓	✓
Removable oscillating plate	✓	✓	✓	✓
Mechanical rotation 180° (A.)	•	•	•	•
Hydraulic rotation 180° (n°2 hydraulic hoses) (B.)	•	•	•	•
Standard mounting brackets (no pins)	•	•	•	•
Adapters	•	•	•	•
Selflevelling "universal" skid coupler	•	•	•	•
Coupler for loaders/ telescopic lifters/ backhoes	•	•	•	•
Hydraulic openable bonnet with machine already set up	•	•	•	•
TRANSMISSION				
Unidirectional engine at axial pistons with external drainage	✓	✓	✓	✓
"Helicocut" rotor	✓	✓	✓	✓
Transmission with toothed belt in kevlar on toothed pulleys	✓	✓	✓	✓
Double-row self-aligning ball bearings	✓	✓	✓	✓
Unidirectional rotor rotation	✓	✓	✓	✓
HYDRAULIC SYSTEM				
One way valve on return	✓	✓	✓	✓
ORSI V3.1-3/4 which includes valve of max. pressure + anticavitation valve + flow regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = 2 BAR	<b>✓</b>	<b>~</b>	<b>~</b>	<b>~</b>

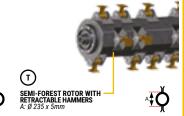
# PROFESSIONAL PISTON

**PROFESSIONAL SERIES** 















N° 16

N° 24

M max Ø 6 cm

P max Ø 5 cm

Q max Ø 5 cm

V max Ø 8 cm

T max Ø 8/10 cm







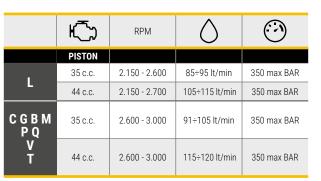
10 ÷ 20 ton.

max Ø 10 c

A HARDOX machine with axial piston motor that can be equipped with either a 35 cc or 44 cc motor, and it is intended to be used on excavators from 10 to 20 t.

Designed for cleaning bushes, shrubs and wood up to 10 cm in size, with a wide range of tools and also the possibility to equip a semi-forestry rotor.







"VENTILATOR" ROTOR Ø 194x10 mm electronically balanced. Forest type tool holders moulded in boron steel

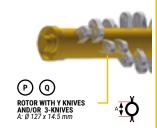
### **V** TP *Hardox Piston* 125 125 FORREST 125 125 125 TECHNICAL SPECIFICATIONS Working width 125 cm 125 cm 125 cm 125 cm 125 cm 155 cm 155 cm 155 cm 155 cm Overall width total 155 cm 490÷550 kg Machine weight\* 470÷540 kg 430÷480 kg 470÷540 kg 470÷540 kg Belts transmission 1 toothed belt C max Ø 3 cm N° 48 G max Ø 4 cm N° 24 B max Ø 4 cm N° 24 M max Ø 6 cm N° 24 P max Ø 5 cm N° 40 Q max Ø 5 cm N° 40+20 V max Ø 8 cm N° 24 L max Ø 8/10 cm N° 12 T max Ø 8/10 cm N° 20

NEW TP HARDOX PISTON	125	125 FORREST
MACHINE		
Reinforced monocoque frame th. 5 mm in Hardox	✓	<b>✓</b>
Reinforced sides th. 6 mm	✓	✓
2 bars of counter - knife for fine shredding	✓	✓
Replaceable skids with adjustable and replaceable pads	✓	✓
Professional rear roller Ø 195 mm with 4 taper roller bearings and central body interchangeable	<b>✓</b>	✓
Removable oscillating plate	✓	✓
Mechanical rotation 180° (A.)	•	•
Hydraulic rotation 180° (n°2 hydraulic hoses) (B.)	•	•
Standard mounting brackets (no pins)	•	•
Adapters	•	•
Selflevelling "universal" skid coupler	•	•
Coupler for loaders/ telescopic lifters/ backhoes	•	•
Hydraulic openable bonnet with machine already set up	•	•
TRANSMISSION		
Unidirectional engine at axial pistons with external drainage	✓	✓
Double-row self-aligning ball bearings	✓	<b>4</b>
"Helicocut" rotor	✓	-
Semi-forest rotor with rotating hammers with tool "T"	-	✓
HYDRAULIC SYSTEM		
One way valve on return	✓	✓
ORSI V3.1-3/4 which includes valve of max. pressure + anticavitation valve + flow regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = 2 BAR	<b>√</b>	<b>✓</b>

## TP HARDOX PISTON

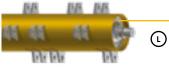
**PROFESSIONAL SERIES** 

























10 ÷ 20 ton.

. max Ø 5

A HARDOX machine with pulley transmission that can be equipped with either 27 cc, 38 cc, 51 cc or 61 cc motor, which is intended to be used on excavators from 10 to 20 t. Designed for cleaning bushes, shrubs and wood up to 6 cm in size, equipped with a hammers or knives rotor.

$\overline{\mathbb{C}}$	RPM	$\Diamond$	<b>③</b>	
27 c.c.	2.300 - 2.500	43÷50 lt/min	250 max BAR	
38 c.c.	2.300 - 2.500	60÷70 lt/min	250 max BAR	
51 c.c.	2.300 - 2.500	80÷90 lt/min	250 max BAR	
61 c.c.	2.100 - 2.350	90÷100 lt/min	250 max BAR	

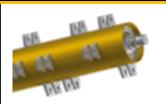
### STRENGTH POINTS



REMOVABLE OSCILLATING PLATE



INTERNAL DOUBLE FRAME + STATIC KNIVES IN HARDOX



**"VENTILATOR" ROTOR**electronically balanced. Forest type tool holders
moulded in boron steel



REAR ROLLER PROF Ø 140 mm with 4 bearings with tapered rollers, mud scraper and interchaneable central part.



ORSI V3.1



DOUBLE-ROW SELF-ALIGNING ROLLER BEARINGS

# WT **BELTS**PROFESSIONAL SERIES

V	T <i>BELTS</i>		135	165	180	200	220
I	ECHNICAL	SPECIFICATIONS					
W	orking wi	idth	135 cm	162 cm	181 cm	201 cm	221 cm
0	verall wid	th	155 cm	180 cm	200 cm	220 cm	240 cm
Machine weight*		eight*	560÷660 kg	600÷700 kg	640÷740 kg	680÷780 kg	750÷850 kg
В	elts trans	mission	4 belts				
<u></u>	R	Knifes A max Ø 3 cm	N° 36	N° 36	N° 48	N° 48	N° 48
tools	Z	Hammers B max Ø 5/6 cm	N° 12	N° 12	N° 16	N° 16	N° 16

					1
WT BELTS	135	165	180	200	220
MACHINE					
Steel frame with internal Hardox frame (double frame)	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	<b>~</b>
Static knife in Hardox and blade cutting system	✓	<b>✓</b>	✓	✓	<b>✓</b>
Rear roller Ø 140 mm with 4 tapered roller bearings and interchangeable central body thickness 6 mm, adjustable in height	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Front protection flaps	✓	<b>✓</b>	<b>✓</b>	✓	<b>4</b>
Removable oscillating plate	✓	<b>✓</b>	✓	✓	<b>✓</b>
Protection chains	•	•	•	•	•
Replaceable skids	•	•	•	•	•
Hydraulic rotation 180° (n°2 hydraulic hoses)	•	•	•	•	•
Standard mounting brackets (no pins)	•	•	•	•	•
Adapters	•	•	•	•	•
TRANSMISSION					
VARISEAL engine with external drainage	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	<b>•</b>
Ventilator rotor	✓	✓	✓	✓	✓
Transmission with toothed belt	✓	✓	✓	✓	✓
Double-row self-aligning roller bearings	✓	✓	✓	✓	✓
Automatic belt tensioner	✓	✓	✓	✓	✓
Unidirectional rotor rotation	✓	✓	✓	✓	✓
HYDRAULIC SYSTEM					
One way valve on return	✓	✓	<b>✓</b>	✓	•
ORSI V3.1-3/4 which includes valve of max. pressure + anticavitation valve + flow regulator. 3 connecting hoses to the machine. Max backpressure on oil outgoing = 12 BAR	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>~</b>	<b>✓</b>



Position of the self-cleaning rear roller for discharging the mulched product behind the roller for higher output





\*variable weight based on the layou







10 ÷ 20 ton.

max Ø 5 cn

A HARDOX machine equipped with a 35 cc or a 44 cc axial piston motor, intended to be used on excavators from 10 to 20 t.

Designed for cleaning bushes, shrubs and wood up to 6 cm in size.

r 🖳	RPM	$\Diamond$	$\odot$
35 c.c.	2.300 - 2.500	56÷65 lt/min	350 max BAR
44 c.c.	2.300 - 2.500	70÷80 lt/min	350 max BAR

### WT *Piston*

HYDRAULIC CUTTING HEAD

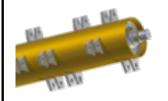
### STRENGTH POINTS



REMOVABLE OSCILLATING PLATE



INTERNAL DOUBLE FRAME + STATIC KNIVES IN HARDOX



**"VENTILATOR" ROTOR**electronically balanced. Forest type tool holders
moulded in boron steel



REAR ROLLER PROF Ø 140 mm with 4 bearings with tapered rollers, mud scraper and interchaneable central part.



ORSI V3.1



DOUBLE-ROW SELF-ALIGNING ROLLER BEARINGS

# WT *PISTON*PROFESSIONAL SERIES

W	T <i>Pisto</i> i	N	135	165	180	200	220	NEW 255
Ī	CHNICAL	SPECIFICATIONS						
Working width		idth	135 cm	162 cm	181 cm	201 cm	221 cm	253 cm
0	verall wid	th	155 cm	180 cm	200 cm	220 cm	240 cm	268 cm
М	achine w	eight*	560÷660 kg	600÷700 kg	640÷740 kg	680÷780 kg	750÷850 kg	790÷890 kg
В	elts trans	mission	4 belts					
ilis	R	Knifes A max Ø 3 cm	N° 36	N° 36	N° 48	N° 48	N° 48	N° 60
utensili	2	Hammers B max Ø 5/6 cm	N° 12	N° 12	N° 16	N° 16	N° 16	N° 20

WT PISTON	135	165	180	200	220	NEW 255
MACHINE						
Steel frame with internal Hardox frame (double frame)	<b>✓</b>	<b>✓</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>✓</b>
Static knife in Hardox and blade cutting system	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Rear roller Ø 140 mm with 4 tapered roller bearings and interchangeable central body thickness 6 mm, adjustable in height	✓	~	<b>✓</b>	<b>✓</b>	<b>~</b>	<b>✓</b>
Front protection flaps	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓	<b>✓</b>
Removable oscillating plate	✓	<b>✓</b>	<b>✓</b>	✓	✓	<b>✓</b>
Protection chains	•	•	•	•	•	•
Replaceable skids	•	•	•	•	•	•
Hydraulic rotation 180° (n°2 hydraulic hoses)	•	•	•	•	•	•
Standard mounting brackets (no pins)	•	•	•	•	•	•
Adapters	•	•	•	•	•	•
TRANSMISSION						
Unidirectional engine at axial pistons with external drainage	✓	<b>✓</b>	✓	<b>✓</b>	✓	<b>✓</b>
Ventilator rotor	✓	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓
Belt transmission	✓	✓	<b>✓</b>	<b>✓</b>	✓	<b>✓</b>
Double-row self-aligning roller bearings	✓	✓	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>
Automatic belt tensioner	✓	✓	✓	✓	✓	✓
Unidirectional rotor rotation	✓	✓	✓	<b>✓</b>	<b>✓</b>	✓
HYDRAULIC SYSTEM						
One way valve on return	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>~</b>
ORSI V3.1-34 which includes valve of max. pressure + anticavitation valve + flow regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = 2 BAR	✓	•	<b>✓</b>	<b>✓</b>	~	<b>✓</b>



Position of the self-cleaning rear roller for discharging the mulched product behind the roller for higher output









3,5 ÷ 7 ton.

max Ø 8 cm

New SEMI FORREST IND line, a mulcher for excavators, also available with our "Flanges Tool Limiter" technology, with special steel profiles that limit the tools' depth of action, reducing the power demand and ensuring working speed and exceptional performance. A machine designed for cleaning bushes, shrubs and wood up to 8 cm in size, with a wide range of tools.

Available with a motor of 16 cc, 22 cc or 27 cc, for medium-sized excavators from 3.5 to 7 t.

$\mathbb{C}$	RPM	$\Diamond$	$\odot$
16 c.c.	2.500 - 3.000	40÷48 lt/min	250 max BAR
22 c.c.	2.500 - 3.000	55÷65 lt/min	250 max BAR
27 c.c.	2.500 - 3.000	68÷81 lt/min	250 max BAR

### STRENGTH POINTS



INTERNAL DOUBLE FRAME + STATIC KNIVES IN HARDOX



HELICOIDAL ROTOR "HELICOCUT"



ROTOR WITH "FLANGES TOOL LIMITER" (FTL) TECHNOLOGY



ORSI V3.1



DOUBLE-ROW SELF-ALIGNING BALL BEARINGS

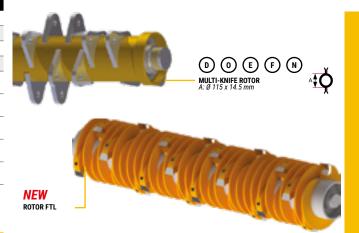




TECH	NICAL SPECIFICATIONS				
Work	ing width	80 cm	105 cm	80 cm	105 cm
Overa	all width total	133 cm	133 cm	133 cm	133 cm
Mach	nine weight*	250÷300 kg	320÷380 kg	280÷330 kg	350÷410 kg
Direc	t transmission	✓	✓	✓	✓
	D max Ø 3 cm	N° 32	N° 40	-	-
	0 max Ø 3 cm	N° 32	N° 40	-	-
	E max Ø 4 cm	N° 16	N° 20	-	-
tools	F max Ø 4 cm	N° 16	N° 20	-	-
-	N max Ø 6 cm	N° 16	N° 20	-	-
	max Ø 8 cm	-	-	N° 22	N° 26

SEMI FORREST IND	80 / NEW 80 FTL	105 / <i>NEW</i> 105 FTL
MACHINE		
Steel frame with internal Hardox frame (double frame)	<b>✓</b>	✓
Static knife in Hardox and blade cutting system	✓	✓
Replaceable skids with adjustable and replaceable pads	✓	✓
Front and rear protection chains	✓	✓
Mechanical rotation 180° (A.)	•	•
Hydraulic rotation 180° (n°2 hydraulic hoses) (B.)	•	•
Standard mounting brackets (no pins)	•	•
Adapters	•	•
TRANSMISSION		
VARISEAL engine with external drainage	✓	✓
"Helicocut" rotor	✓	✓
Double-row self-aligning ball bearings	✓	✓
Unidirectional rotor rotation	✓	✓
HYDRAULIC SYSTEM		
One way valve on return	✓	✓
ORSI V3.1-1/2: valve of max. pressure + anticavitation valve + flux regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = 12 BAR with engine 16-22 cc	•	<b>~</b>
ORSI V3.1-3/4: engine 27 cc valve of max. pressure + anticavitation valve + flux regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = 12 BAR with engine 27 cc	<b>→</b>	<b>~</b>

# SEMI FORREST IND PROFESSIONAL SERIES















max Ø 8/10 cm

New SEMI FORREST PROF line, a mulcher for excavators, also available with "Flanges Tool Limiter" technology, with special steel profiles that limit the tools' depth of action, reducing the power demand and ensuring working speed and exceptional performance. A machine designed for cleaning bushes, shrubs and wood up to 8 cm in size, with a wide range of tools.

This machine comes with a pulley transmission, for higher performances.

Available with motors of 22 cc, 27 cc or 38 cc, ideal for excavators from 5 to 12 t.

$\mathbb{C}_{\mathfrak{I}}$	RPM	$\Diamond$	$\odot$
22 c.c.	2.500 - 3.000	55÷65 lt/min	250 max BAR
27 c.c.	2.500 - 3.000	68÷81 lt/min	250 max BAR
38 c.c.	2.500 - 3.000	95÷115 lt/min	250 max BAR

### STRENGTH POINTS



INTERNAL DOUBLE FRAME + STATIC KNIVES IN HARDOX



HELICOIDAL ROTOR "HELICOCUT"



ROTOR WITH "FLANGES TOOL LIMITER" (FTL) TECHNOLOGY



ORSI V3.1



**DOUBLE-ROW SELF-ALIGNING BALL BEARINGS** 

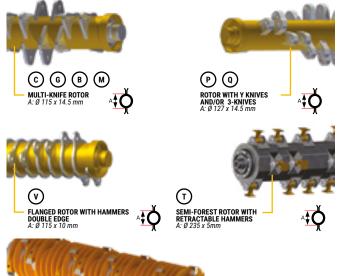
### SEMI FORREST *Prof* NEW 125 FTL 125 TECHNICAL SPECIFICA Working width Overall width total Machine weight\* Belts transmission C max Ø 3 cm G max Ø 4 cm B max Ø 4 cm M max Ø 6 cm P max Ø 5 cm N° 40 Q max Ø 5 cm N° 40+20 V max Ø 8 cm N° 24 T max Ø 8/10 cm N° 20 max Ø 8/10 cm N° 26

	C G B M	<b>LL</b> P 0	I	1	
CATIONS					
	125 cm	125 cm	125 cm	125 cm	125 cm
	145 cm	145 cm	145 cm	145 cm	145 cm
	495÷515 kg	495÷515 kg	495÷515 kg	525÷545 kg	530÷550 kg
	3 belts	3 belts	3 belts	3 belts	3 belts
1	N° 48	-	-	-	-
1	N° 24	-	-	-	-
1	N° 24	-	-	-	-
1	N° 24	-	-	-	-

# SEMI FORREST *PROF*

**PROFESSIONAL SERIES** 

NEW ROTOR FTL





125 / NEW 125 FTL

✓

✓

✓



ORSI V3.1-3/4 which includes valve of max. pressure + anticavitation valve + flow regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = 12 BAR

SEMI FORREST *Prof* 

Front and rear protection chains Mechanical rotation 180°

Steel frame with internal Hardox frame (double frame) Static knife in Hardox and blade cutting system

Replaceable skids with adjustable and replaceable pads

Hydraulic rotation 180° (n°2 hydraulic hoses) Standard mounting brackets (no pins)

VARISEAL engine with external drainage

Double-row self-aligning ball bearings Unidirectional rotor rotation HYDRAULIC SYSTEM One way valve on return

MACHINE

Adapters TRANSMISSION

Belt transmission "Helicocut" rotor







FORREST PROF, a mulcher for excavators, also available with "Flanges Tool Limiter" technology, with special steel profiles that limit the tools' depth of action, reducing the power demand and ensuring working speed and exceptional performance. A machine designed for cleaning bushes, shrubs and wood up to 12 cm in size, with a wide range of tools.

Equipped with an axial piston motor, for high working performance.

Available with a 35 cc or 44 cc motor, ideal for excavators from 8 to 14 t.

$\Box$	RPM	$\Diamond$	$\odot$
PISTON			
35 c.c.	2.500 - 3.000	85÷100 lt/min	350 max BAR
44 c.c.	2.500 - 3.000	110÷120 lt/min	350 max BAR



INTERNAL DOUBLE FRAME + STATIC KNIVES IN HARDOX



SEMIFORESTAL ROTOR WITH **ROTATING HAMMERS** 



STRENGTH POINTS

ROTOR WITH "FLANGES TOOL LIMITER" (FTL) TECHNOLOGY



ORSI V3.1

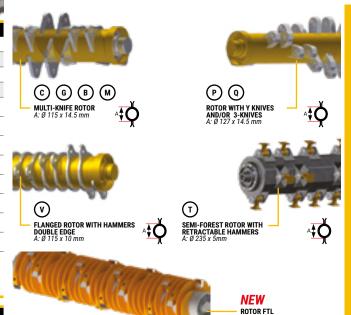


**DOUBLE-ROW SELF-ALIGNING BALL BEARINGS** 

### FORREST *Prof* 125 **NEW 125 FTL** IJ 1 TECHNICAL SPECIFICATIONS Working width 125 cm 125 cm 125 cm 125 cm 125 cm Overall width total 145 cm 145 cm 145 cm 145 cm 145 cm Machine weight\* 515÷535 kg 515÷535 kg 515÷535 kg 545÷565 kg 550÷570 kg Belts transmission 1 toothed belt C max Ø 3 cm N° 48 G max Ø 4 cm N° 24 B max Ø 4 cm N° 24 M max Ø 6 cm N° 24 P max Ø 5 cm N° 40 Q max Ø 5 cm N° 40+20 V max Ø 8 cm N° 24 T max Ø 10/12 cm N° 20 N° 26 max Ø 10/12 cm

FORREST <i>PROF</i>	125 / <i>NEW</i> 125 FTL		
MACHINE			
Steel frame with internal Hardox frame (double frame)	✓		
Static knife in Hardox and blade cutting system	✓		
Replaceable skids with adjustable and replaceable pads	✓		
Front and rear protection chains	✓		
Mechanical rotation 180°	•		
Hydraulic rotation 180° (n°2 hydraulic hoses)	•		
Standard mounting brackets (no pins)	•		
Adapters	•		
TRANSMISSION			
Unidirectional engine at axial pistons with external drainage	✓		
Semiforestal rotor with rotating hammers with tool "T"	✓		
Double-row self-aligning ball bearings	✓		
Unidirectional rotor rotation	✓		
Transmission with toothed belt	✓		
HYDRAULIC SYSTEM			
One way valve on return	✓		
ORSI V3.1-3/4 which includes valve of max. pressure + anticavitation valve + flow regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = $2\text{BAR}$	<b>✓</b>		

# FORREST PROF PROFESSIONAL SERIES











10 ÷ 18 ton.

max Ø 20 cm

EMR Piston, designed for excavators from 10 to 18 tons, able to shred logs up to 20 cm in diameter, available in two working widths: 110 and 140 cm. It mounts a rotor with retractable hammers, and an axial piston motor, making it a professional and high-performance machine.

ŀζ̈̈́	RPM	$\Diamond$	$\odot$	
PISTON CIL. FI	SSA			
45 c.c.	1.800 - 2.200	80÷100 lt/min	350 max BAR	
56 c.c.	1.800 - 2.200	100÷125 lt/min	350 max BAR	
63 c.c.	1.800 - 2.200	110÷140 lt/min	350 max BAR	
PISTON CIL. VARIABILE (optional)				
56/80 c.c.	1.800 - 2.200	110÷130 lt/min	350 max BAR	

### STRENGTH POINTS



FRAME COMPLETELY IN HARDOX STEEL



REXROTH AXIAL PISTONS ENGINE INCLINED AXIS



FORESTRY OCTAGONAL ROTOR WITH RETRACTABLE ROTATING HAMMERS



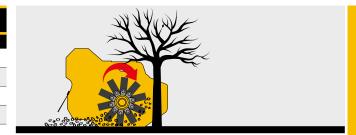
ORSI V3.1 INTEGRATED

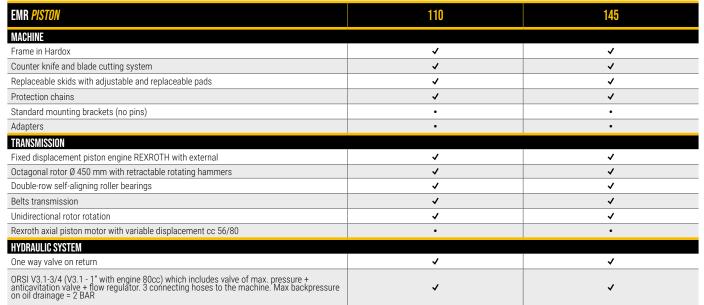


DOUBLE-ROW SELF-ALIGNING ROLLER BEARINGS

# EMR *PISTON*PROFESSIONAL SERIES

EMR <i>Piston</i>	110	145			
TECHNICAL SPECIFICATIONS	TECHNICAL SPECIFICATIONS				
Working width	110 cm	140 cm			
Overall width total	136 cm	166 cm			
Machine weight*	650÷750 kg	730÷830 kg			
Belts transmission	5 belts	6 belts			
tools	N° 16	N° 24			















10 ÷ 18 ton.

max Ø 25 cr

EMF Piston, designed for excavators from 10 to 18 tons, able to shred logs up to 25 cm in diameter, available in two working widths: 110 and 140 cm. It mounts a rotor with fixed hammers with tungsten inserts, and an axial piston motor, making it a professional and high-performance machine.

ŀζ̈̈́	RPM	$\Diamond$	$\odot$	
PISTON CIL. FISSA				
45 c.c.	1.800 - 2.200	80÷100 lt/min	350 max BAR	
56 c.c.	1.800 - 2.200	100÷125 lt/min	350 max BAR	
63 c.c.	1.800 - 2.200	110÷140 lt/min	350 max BAR	
PISTON CIL. VARIABILE (optional)				
56/80 c.c.	1.800 - 2.200	110÷130 lt/min	350 max BAR	

### STRENGTH POINTS



FRAME COMPLETELY IN HARDOX STEEL



REXROTH AXIAL PISTONS ENGINE INCLINED AXIS



HELICOIDAL ROTOR "HELICOCUT" Ø 450 mm



ORSI V3.1 INTEGRATED



DOUBLE-ROW SELF-ALIGNING ROLLER BEARINGS

## EMF **PISTON**PROFESSIONAL SERIES

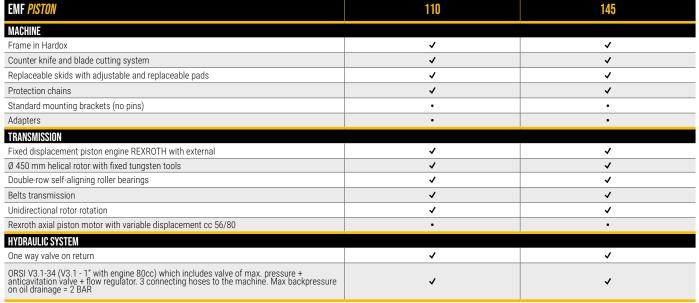
EMF <i>PISTON</i>	110	145
TECHNICAL SPECIFICATIONS		
Working width	110 cm	140 cm
Overall width total	136 cm	166 cm
Machine weight*	650÷750 kg	730÷830 kg
Belts transmission	5 belts	6 belts
tools	N° 28	N° 32



















14 ÷ 30 ton.

TMF Piston, designed for large excavators from 14 to 30 tons, able to shred logs up to 30 cm in diameter, available in two working widths: 140 and 170 cm.

It mounts a rotor with retractable hammers, and an axial piston motor, making it a professional and high-performance machine.

$\mathbb{C}_{\mathfrak{I}}$	RPM	$\Diamond$	$\odot$	
PISTON CIL. FI	SSA			
56 c.c.	1.800 - 2.200	100÷125 lt/min	350 max BAR	
63 c.c.	1.800 - 2.200	110÷140 lt/min	350 max BAR	
80 c.c.	1.800 - 2.200	144÷175 lt/min	350 max BAR	
107 c.c.	1.800 - 2.200	190÷235 lt/min	350 max BAR	
PISTON CIL. V	PISTON CIL. VARIABILE (optional)			
56/80 c c	1 800 - 2 200	110÷130 lt/min	350 may RAR	

#### STRENGTH POINTS



FRAME BUILT COMPLETELY IN STRENX



INTERNAL DOUBLE FRAME IN HARDOX



REXROTH AXIAL PISTONS ENGINE INCLINED AXIS



FORESTRY OCTAGONAL ROTOR Ø 450 mm



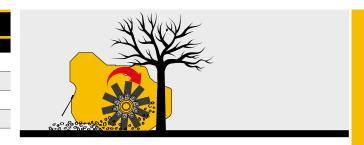
**ORSI V3.1 INTEGRATED** 

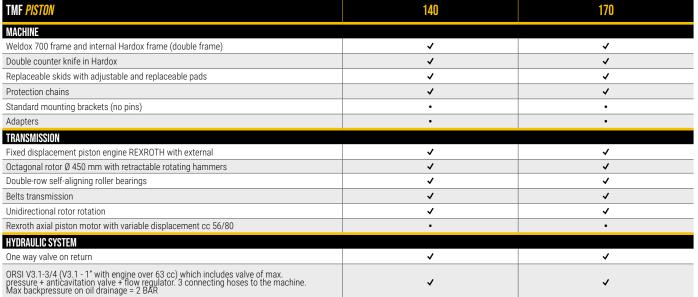


DOUBLE-ROW SELF-ALIGNING ROLLER BEARINGS

## TMF *PISTON*PROFESSIONAL SERIES

TMF <i>PISTON</i>	140	170
TECHNICAL SPECIFICATIONS		
Working width	140 cm	170 cm
Overall width total	177 cm	207 cm
Machine weight*	1070÷1270 kg	1150÷1350 kg
Belts transmission	6 belts	6 belts
sloot S	N° 24	N° 28















14 ÷ 30 ton.

max Ø 30 cr

TPF Piston designed for large excavators from 14 to 30 tons, able to shred logs up to 30 cm in diameter, available in two working widths: 140 and 170 cm.

It mounts a rotor with fixed hammers and tungsten inserts, and also an axial piston motor, making it a professional and high-performance machine.

$\mathbb{C}_{\mathfrak{I}}$	RPM	$\Diamond$	<b>②</b>
PISTON CIL. FI	SSA		
56 c.c.	1.800 - 2.200	100÷125 lt/min	350 max BAR
63 c.c.	1.800 - 2.200	110÷140 lt/min	350 max BAR
80 c.c.	1.800 - 2.200	144÷175 lt/min	350 max BAR
107 c.c.	1.800 - 2.200	190÷235 lt/min	350 max BAR
PISTON CIL. V	ARIABILE (optional)		
56/80 c c	1 800 - 2 200	110±130 lt/min	350 may BAD

#### STRENGTH POINTS



FRAME BUILT COMPLETELY IN STRENX



INTERNAL DOUBLE FRAME IN HARDOX



REXROTH AXIAL PISTONS ENGINE INCLINED AXIS



HELICOIDAL ROTOR "HELICOCUT" Ø 450 mm with static tungsten tools



ORSI V3.1 INTEGRATED



DOUBLE-ROW SELF-ALIGNING ROLLER BEARINGS

### TPF **PISTON PROFESSIONAL SERIES**

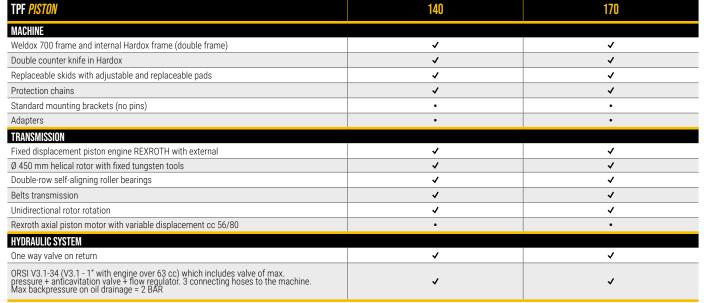
TPF <i>PISTON</i>	140	170
TECHNICAL SPECIFICATIONS		
Working width	140 cm	170 cm
Overall width total	177 cm	207 cm
Machine weight*	1100÷1300 kg	1210÷1410 kg
Belts transmission	6 belts	6 belts
tools	N° 32	N° 36

















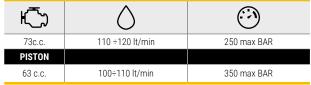


8 ÷ 15 ton.

max Ø 15 cn

PFC 1350 Professional Hardox mowing plate, ideal for excavators from 8 to 15 t, cutting width up to 15 cm, ideal for shrubs and woody material.

Available with blades or with chains, if you have to work in stony areas, motor with axial pistons for high working performance.





THE SIGN OF QUALITY

FRAME COMPLETELY IN HARDOX STEEL



REXROTH AXIAL PISTONS ENGINE INCLINED AXIS



ORSI V3.1

# PFC 1350 PROFESSIONAL SERIES

PFC 1350	CHAINS	PISTON CHAINS	BLADES	PISTON BLADES
TECHNICAL SPECIFICATIONS				
Working width	135 cm	135 cm	135 cm	135 cm
Overall width total	150 cm	150 cm	150 cm	150 cm
Machine weight*	515÷585 kg	525÷595 kg	515÷585 kg	525÷595 kg
Maximum cutting thickness	3 cm	5 cm	8 cm	15 cm
Rpm Pto	1500-1640	1575-1740	1500-1640	1575-1740

PFC	1350
MACHINE	
Frame in Hardox 500	✓
Adjustable support slides	<b>√</b>
Bonnet adjustable in two positions	✓
Front and rear rubber and chain protections	<b>✓</b>
Chain cut tool (CT) or Hardox blades (LM)	<b>✓</b>
Standard mounting brackets (no pins)	•
Adapters	•
TRANSMISSION	
Vertical axis engine with gears or axial pistons	✓
HYDRAULIC SYSTEM	
Flow regulator and one way valve on return	✓
ORSI V3.1-3/4 which includes valve of max. pressure + anticavitation valve + flow regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = 2 BAR	<b>✓</b>











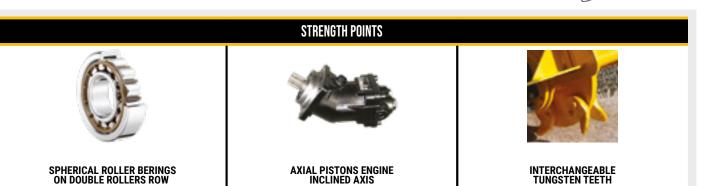


1,5 ÷ 13 ton.

10 ton.

FC, a compact stump cutter, for the shredding of single stumps in woods, parks, on the sides of roads or rivers. Its small size makes it particularly handy and suitable for excavators from 1.5 to 13 t. The piston motor makes it a very professional machine with high performance.

Available with different sizes of the cutting disc, from 400 to 540 cm.



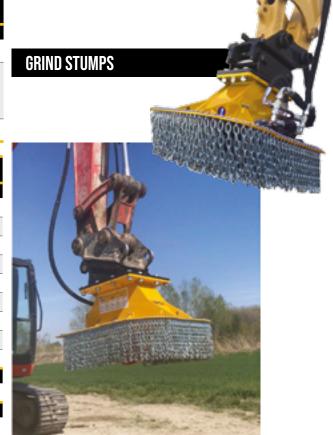
<b>ŀ</b> (¯) RPM		$\Diamond$	$\odot$	
FC 20	12 c.c	1.700 - 2.900	20÷35 lt/min	350 max BAR
FC 40	18 c.c.	1.700 - 2.800	30÷50 lt/min	350 max BAR
FC 90	32 c.c.	1.600 - 2.200	50÷70 lt/min	350 max BAR
FC 130	41 c.c.	1.600 - 2.200	65÷90 lt/min	350 max BAR

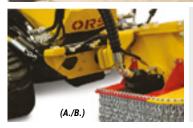
## FC - GRIND STUMPS

PROFESSIONAL SERIES

FC - GRIND STUMPS	20	40	90	130
TECHNICAL SPECIFICATIONS				
Machine weight*	80÷120 kg	80÷130 kg	210÷300 kg	210÷350 kg
Diameter of the cutting disc Ø mm	400 cm	400 cm	540 cm	540 cm
N° tools	12	12	16	16

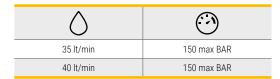
FC - GRIND STUMPS	20	40	90	130
MACHINE				
Steel frame, compact but strong	✓	✓	✓	<b>✓</b>
Front and side chain protection	✓	✓	✓	<b>✓</b>
Cutting disc with interchangeable teeth with tungsten insert	✓	✓	<b>✓</b>	<b>4</b>
Side bearings	✓	✓	✓	<b>4</b>
Upper plate for mounting brackets	✓	✓	✓	<b>4</b>
Standard mounting brackets (no pins)	•	•	•	•
Adapters	•	•	•	•
Connection for hydraulic rotation for skid "universal type" (A.)	•	•	•	•
Connection for hydraulic rotation for blades (not universal)(B.)	•	•	•	•
TRANSMISSION				
Hydraulic piston motor for high performance	✓	✓	✓	✓
HYDRAULIC SYSTEM				
By-pass valve on hydraulic motor	✓	✓	✓	✓
3 connection hoses (delivery, return and drainage MAX back pressure on oil drainage = 2 BAR	<b>~</b>	<b>~</b>	<b>~</b>	•







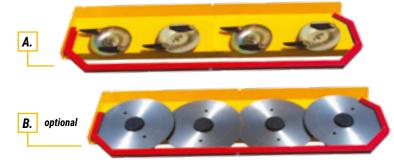
Discs bar with undirectional gear engine with external drainage (3 hoses: ingoing, outgoing and drainage with max backpressure 5 bar)

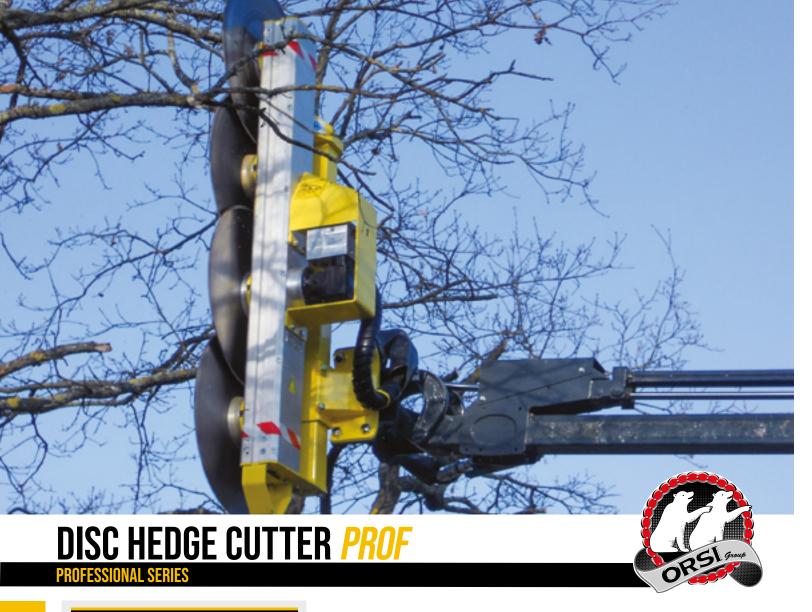


DISC HEDGE CUTTER	165
TECHNICAL SPECIFICATIONS	Α
Thickness of cutting knives	2 cm
N° knifes	8
Disc cutting thickness	4 cm
N° disc for wood Ø 500 cm	4 optional (B.)
Min power request	kW 14,5 - 20 HP
Working temperature	-15° C ÷ +80° C
Adviced working speed	1000 m/h
Width	165 cm
OPTIONAL	165
Standard mounting brackets (no pins)	•
Adapters	•
ORSI V3.1 - 1/2	•
Toothed discs for wood "B" (n.4 pieces)	•



ORSI V3.1





 $\odot$ 150 max BAR 80 lt/min

DISC HEDGE CUTTER <i>Prof</i>	200	
TECHNICAL SPECIFICATIONS		
Cutting thickness dimensions	15 cm	
N° disc for wood Ø 650 mm	4	
Min power request	kW 14,5 - 20 HP	
Working temperature	-15° C ÷ +80° C	
Adviced working speed	1000 m/h	
OPTIONAL	165	

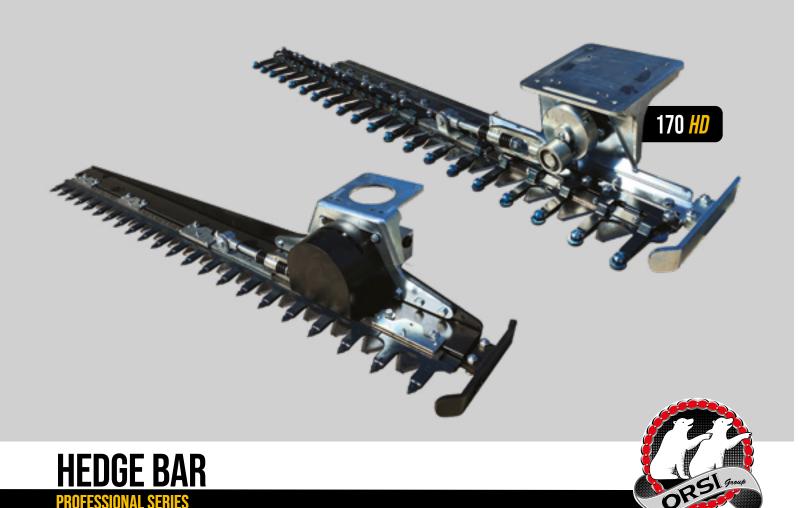
OPTIONAL	165
Standard mounting brackets (no pins)	•
Adapters	•
ORSI V3.1 - 1/2	•

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#### STRENGTH POINTS



ORSI V3.1



Cutter bar designed for profiling of hedges. Ideal to be installed on the arms of the mini excavators, presents a huge versatility of work. Maximum cut, branches of 3 cm.



HEDGE BAR	125	166	200	170 HD
TECHNICAL SPECIFICATIONS				
Min power request	kW 14,5 20 HP	kW 14,5 20 HP	kW 14,5 20 HP	kW 14,5 20 HP
Working temperature	-15° C ÷ +80° C			
Adviced working speed	2000 m/h	2000 m/h	2000 m/h	2000 m/h
Min Max. Frequency	200 - 300 cycles/min	200 - 300 cycles/min	200 - 300 cycles/min	200 - 300 cycles/min
Width	125 cm	166 cm	200 cm	170 cm
Weight	46 kg	58 kg	68 kg	68 kg
Maximum cutting thickness	3 cm	3 cm	3 cm	5 cm
	125	166	200	170 HD
Unidirectional orbital engine with internal drainage ( 2 hoses)	<b>~</b>	<b>~</b>	<b>~</b>	•
Supporto per fissaggio sella di attacco	<b>~</b>	<b>4</b>	<b>~</b>	<b>4</b>
ORSI V3.1 - integrated	<b>4</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Standard mounting brackets (no pins)	•	•	•	•
Adapters	•	•	•	•





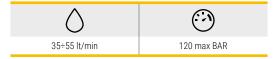
**ORSI V3.1 INTEGRATED** 



**BRANCH CUTTER** 



Branches bar with inverter and automatic pressure relief valve, for branches up to 12 cm in diameter.

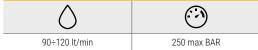


BRANCH CUTTER	155 HARDOX	225 HARDOX
TECHNICAL SPECIFICATIONS		A
Min power request	kW 19 - 25 HP	kW 19 - 25 HP
Working temperature	-5° C ÷ +70° C	-5° C ÷ +70° C
Adviced working speed	0 - 800 m/h	0 - 800 m/h
Min Max. Frequency	50 - 65 cycles/ min	50 - 65 cycles/ min
Width	155 cm	225 cm
Weight	200 kg	230 kg
Maximum cutting thickness	10 cm	10 cm
	155 HARDOX	225 HARDOX
Automatic anti-jam inverter	<b>✓</b>	<b>✓</b>
Maximum pressure valve and flow divider	<b>✓</b>	<b>√</b>
Standard mounting brackets (no pins)	•	•
Adapters	•	•



For ditches cleaning with unidirectional orbital engine with external drainage (3 hoses: ingoing - outgoing and drainage with back pressure max 5 bar)

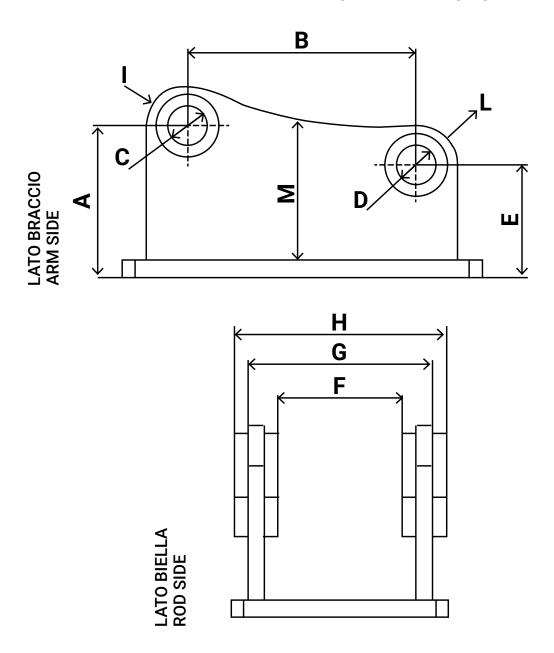




DITCH CLEANER	Ø 50	Ø 65	Ø 80	Ø 100
TECHNICAL SPECIFICATIONS				
Weight	130 kg	190 kg	230 kg	270 kg
Ø cm	50 cm	65 cm	80 cm	100 cm
	Ø 50	Ø 65	Ø 80	Ø 100
Unidirectional orbital engine with external drainage (3 hoses: ingoing-outgoing and drainage with back pressure max 5 BAR)	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>
Standard mounting brackets (no pins)	•	•	•	•
Adapters	•	•	•	•
Flux regulator 150 ÷ 90 lt/min	•	•	•	•

# FIXING PLATE

#### SELLA DI ATTACCO STANDARD STANDARD HITCH SADDLE









1,2 ÷ 15 ton.

max Ø 5 c

Hydraulic shredder for miniskids, loaders and telescopics up to 15 ton.

Designed for machines to cut grass, brambles, bushes and reeds.

$\mathbb{C}_{\mathfrak{I}}$	RPM 💍		$\odot$
27 c.c.	2.300 - 2.500	38÷46 lt/min	250 max BAR
38 c.c.	2.300 - 2.500	55÷65 lt/min	250 max BAR
51 c.c.	2.300 - 2.500	75÷87 lt/min	250 max BAR
61 c.c.	2.200 - 2.400	90÷100 lt/min	250 max BAR

### STRENGTH POINTS

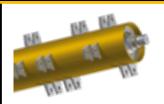


HYDRAULIC SHREDDER

INTERNAL DOUBLE FRAME + STATIC KNIVES IN HARDOX



**AUTOMATIC BELT TENSIONER** 



ROTORE "VENTILATOR" electronically balanced Forest tool supports tools casted in Boron steel



**REAR ROLLER PROF Ø 140 mm**with 4 bearings with tapered rollers, mud scraper and interchaneable central part.



ORSI V3.1



DOUBLE-ROW SELF-ALIGNING ROLLER BEARINGS

## TECNIK HYDRO PROFESSIONAL SERIES

TECNIK <i>Hydro</i>		YDRO	135	165	180	200	220	255
Ī	CHNICAL	SPECIFICATIONS						
W	orking wi	idth	135 cm	162 cm	181 cm	201 cm	221 cm	253 cm
0	verall wid	th	155 cm	180 cm	200 cm	220 cm	240 cm	275 cm
M	Machine weight*		610 kg	650 kg	690 kg	730 kg	800 kg	910 kg
В	Belts transmission		4 belts <b>quad power</b>					
slo	A	Knifes A max Ø 3 cm	N° 36	N° 36	N° 48	N° 48	N° 60	N° 60
tools	Z	Hammers B	N° 12	N° 12	N° 16	N° 16	N° 20	N° 20

TECNIK HYDRO	135	165	180	200	220	255
MACHINE						
Steel frame with internal Hardox frame (double frame)	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>~</b>	<b>~</b>	<b>✓</b>
Static knife in Hardox and blade cutting system	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Rear roller Ø 140 mm with 4 tapered roller bearings and interchangeable central body thickness 6 mm, adjustable in height	~	~	~	<b>~</b>	<b>✓</b>	~
Front protection flaps	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓
Automatic belt tensioner	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓
Swinging coupler for skid steer loader universal type	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓
Protection chains	•	•	•	•	•	•
Hydraulic side shift with machine already set up	•	•	•	•	•	•
Hydraulic side shift with 6 - way solenoid valve 12 Volt	•	•	•	•	•	•
Replaceable skids	•	•	•	•	•	•
Extra cost for non-universal blade attachment	•	•	•	•	•	•
TRANSMISSION						
VARISEAL engine with external drainage	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Belt transmission	<b>✓</b>	✓	<b>4</b>	✓	<b>4</b>	✓
Ventilator rotor	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓
Double-row self-aligning roller bearings	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓
Unidirectional rotor rotation	✓	✓	✓	✓	✓	✓
HYDRAULIC SYSTEM						
One way valve on return	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>~</b>	<b>~</b>	<b>✓</b>
ORSI V3.1-3/4 (V3.1 - 1" with engine 61cc 150÷170lt/min) which includes valve of max. pressure + anticavitation valve + flow regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = 2 BAR	<b>✓</b>	<b>✓</b>	~	<b>✓</b>	~	~











1,2 ÷ 15 ton.

max Ø 5 cm

Hydraulic shredder for miniskids, loaders and telescopics up to 15 ton.

Designed for machines to cut grass, brambles, bushes and reeds.

H RPM		$\Diamond$	$\odot$
35 c.c.	2.300 - 2.500	50÷60 lt/min	350 max BAR
44 c.c.	2.300 - 2.500	65÷75 lt/min	350 max BAR

### TECNIK *Piston*

**HYDRAULIC SHREDDER** 

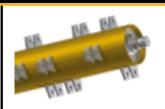
#### **PUNTI DI FORZA**



INTERNAL DOUBLE FRAME + STATIC KNIVES IN HARDOX



DOUBLE-ROW SELF-ALIGNING ROLLER BEARINGS



ROTORE "VENTILATOR" electronically balanced Forest tool supports tools casted in Boron steel



**REAR ROLLER PROF Ø 140 mm**with 4 bearings with tapered rollers, mud scraper and interchaneable central part.



ORSI V3.1



**AUTOMATIC BELT TENSIONER** 

## TECNIK PISTON PROFESSIONAL SERIES

TECNIK <i>Piston</i>		STON	135	165	180	200	220	255
Ī	CHNICAL	SPECIFICATIONS						
W	orking wi	dth	135 cm	162 cm	181 cm	201 cm	221 cm	253 cm
Overall width		th	155 cm	180 cm	200 cm	220 cm	240 cm	275 cm
Machine weight*		eight*	610 kg	650 kg	690 kg	730 kg	800 kg	910 kg
В	Belts transmission		4 correas <b>quad power</b>					
tools	R	Knifes A max Ø 3 cm	N° 36	N° 36	N° 48	N° 48	N° 60	N° 60
	2	Hammers B max Ø 5 cm	N° 12	N° 12	N° 16	N° 16	N° 20	N° 20

TECNIK <i>PISTON</i>	135	165	180	200	220	255
MACHINE			î			î
Steel frame with internal Hardox frame (double frame)	✓	✓	✓	<b>✓</b>	✓	<b>✓</b>
Static knife in Hardox and blade cutting system	✓	✓	✓	✓	✓	✓
Rear roller Ø 140 mm with 4 tapered roller bearings and interchangeable central body thickness 6 mm, adjustable in height	✓	✓	•	✓	<b>✓</b>	•
Front protection flaps	✓	✓	✓	✓	✓	<b>✓</b>
Automatic belt tensioner	✓	✓	✓	✓	✓	✓
Swinging coupler for skid steer loader universal type	✓	✓	✓	✓	✓	✓
Protection chains	•	•	•	•	•	•
Hydraulic side shift with machine already set up	•	•	•	•	•	•
Hydraulic side shift with 6 - way solenoid valve 12 Volt	•	•	•	•	•	•
Replaceable skids	•	•	•	•	•	•
Extra cost for non-universal blade attachment	•	•	•	•	•	•
TRASMISSIONE						
VARISEAL engine with external drainage	<b>✓</b>	✓	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>
Toothed belt transmission	<b>✓</b>	<b>✓</b>	✓	<b>✓</b>	✓	✓
Ventilator rotor	✓	✓	✓	✓	✓	✓
Double-row self-aligning roller bearings	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓
Unidirectional rotor rotation	✓	✓	✓	✓	✓	✓
HYDRAULIC SYSTEM						
One way valve on return	<b>✓</b>	<b>✓</b>	✓	<b>✓</b>	<b>✓</b>	✓
ORSI V3.1-3/4 which includes valve of max. pressure + anticavitation valve + flow regulator. 3 connecting hoses to the machine. Max backpressure on oil drainage = 2 BAR	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>







variable weight based on the layout



### SUPER COMPACT SKID

Mulcher designed for Skid-Steer loaders, with specially reinforced frame to withstand the axial loads caused by the specific movement styles of this group of vehicles hard conditions. Mulchers designed for all shredding operations of bushes, branches, and trees up to a maximum diameter of 18/20 cm depending on the condition of the product to be shredded. Octagonal forest type rotor with retractable forged hammers. A machine equipped with screw adjustable and interchangeable side skids, with two rows of counter-knives that guarantee a fine and homogeneous shredding. The hood is hydraulic adjustable by a protected and integrated cylinder within the double HARDOX® frame, completely closed / dustproof.

Double row of front protection chains, with screwed plates that limit the escape of shredded material, protecting the operator and the tractor/cabin at the same time. Mechanical arch for pushing down branches whilst protecting the tractor, helping convey the material to the rotor for better shredding. Double-edged tools allow them to be reversed when worn and therefore take advantage of the other side extending their life. Very sturdy and compact, BEARS FORREST PISTON stands out for its ergonomic design that guarantees excellent visibility for the operator during the various operations.

It can be used with any brand of Skid Steer Loader on the market thanks to our "SMARTFIT" Universal hitch. Fitted with a REXROTH® AXIAL PISTON hydraulic motor or optionally available with a VARIABLE DISPLACEMENT PISTON HYDRAULIC MOTOR (REXROTH® a Bosch Company®) with automatic variable flow rate, which allows increased productivity and at the same time reduced consumption. Dustproof chassis with reinforced side to withstand the axial load of skid steers, with hydraulic opening and closing of the hood.

Standard with the ORSI developed '3 in 1' hydraulic circuit valve giving this machine the advantage that it can be easily used on all models of different Skid Steer Loader brands.





ŀζ̈̈́	RPM	$\Diamond$					
PISTON CIL. FISSA							
45 c.c.	1.800 - 2.200	65÷80 lt/min	350 max BAR				
56 c.c.	1.800 - 2.200	80÷100 lt/min	350 max BAR				
63 c.c.	1.800 - 2.200	90÷100 lt/min	350 max BAR				
80 c.c.	1.800 - 2.200	110÷140 lt/min	350 max BAR				
PISTON CIL. VARIABILE (optional)							
56/80 c.c.	1.800 - 2.200	85÷110 lt/min	350 max BAR				

## BEARS FORREST **PISTON**

**FORESTRY SERIES** 

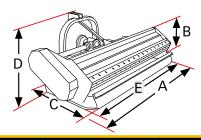




25 ton.

max Ø 18/20 cm

OVERGROWN VEGETATION, BRANCHES, SHRUBS



BEARS FORREST PISTON	A	B	C	D cm	E cm
170	202	53	118	113	170
210	224	53	118	113	192
255	252	53	118	113	223

#### STRENGTH POINTS







REXROTH AXIAL PISTONS ENGINE INCLINED AXIS



FORESTRY OCTAGONAL ROTOR Ø 450 mm



**ORSI V3.1** 



DOUBLE-ROW SELF-ALIGNING ROLLER BEARINGS

BEARS FORREST <i>Piston</i>		170	210	250	
TECHNICAL SPECIFICATIONS					
Working width		170 cm   66,9°	192 cm   75,6"	223 cm   87,8°	
Machine weight*		1180 kg   2601 lbs	1370 kg   <i>3020</i> lbs	1550 kg   3417 lbs	
hammers <b>Kg 1.75</b>		N° 28	N° 32	N° 40	
4 <b>0</b> 0	<b>A</b> 350x8 mm   13,8°x0,32°		350x8 mm   13,8°x0,32°	350x8 mm   13,8°x0,32°	
A TO B	В	450 mm   17,7°	450 mm   17,7"	450 mm   17,7°	
N° belts		6	6	6	

BEARS FORREST <i>PISTON</i>	170	210	250
MACHINE			
Double frame in Hardox	✓	<b>✓</b>	✓
Hardox counter-knives	✓	<b>✓</b>	✓
Hydraulic rear tailgate	✓	✓	✓
Bonnet with a double row of protective chains	✓	<b>✓</b>	✓
Adjustable height skids in Hardox steel	✓	<b>✓</b>	✓
Completely closed and dustproof frame	✓	✓	✓
Double row of protective chains with screwed flaps	✓	<b>✓</b>	✓
Reflectors	✓	✓	✓
Swinging coupler for skid steer loader universal type	✓	✓	✓
Mechanically adjustable arch for pushing down branches	✓	✓	✓
Hydraulically adjustable arch for pushing down branches	•	•	•
A. 6 way solenoid valve 12 Volt for machine not set up forcommand bonnet opening	•	•	•
B. Extra cost for non-universal blade attachment	•	•	•
TRANSMISSION			
Unidirectional motor with external axial piston drainage	<b>✓</b>	<b>✓</b>	✓
Lateral transmission with 6 belts	✓	<b>4</b>	✓
Octagonal rotor Ø 450 mm with retractable forged hammers	✓	<b>✓</b>	✓
Double-row self-aligning roller bearings	✓	<b>✓</b>	✓
Automatic belt tensioner	<b>✓</b>	<b>✓</b>	✓
Rexroth axial piston motor with variable displacement cc 56/80	-	•	•
HYDRAULIC SYSTEM			
One way valve on return	✓	<b>✓</b>	✓
ORSI V3.1-1 which includes valve of max. pressure + anticavitation valve + flow regulator MAX back pressure on oil drainage = 2 BAR	<b>✓</b>	<b>✓</b>	~

<sup>\*</sup>variable weight based on the layout

## **BEARS FORREST PISTON**

**PROFESSIONAL SERIES** 







FORESTRY OCTAGONAL ROTOR
A: Ø 355 x 6 mm













### HULK FORREST **PISTON**

**PROFESSIONAL SERIES** 

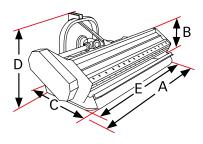




25 ton.

max Ø 25 cm

#### OVERGROWN VEGETATION, BRANCHES, SHRUBS



ŀζ̈̈̈	RPM	$\Diamond$	$\odot$			
PISTON CIL. FISSA						
45 c.c.	1.800 - 2.200	65÷80 lt/min	350 max BAR			
56 c.c.	1.800 - 2.200	80÷100 lt/min	350 max BAR			
63 c.c.	1.800 - 2.200	90÷100 lt/min	350 max BAR			
80 c.c.	1.800 - 2.200	110÷140 lt/min	350 max BAR			
PISTON CIL. VARIABILE (optional)						
E6/90 a a	1 900 2 200	0E:110 lt/min	250 may DAD			

### **NEW UNIVERSE SKID**

Mulcher designed for Skid-Steer loaders, for all shredding operations of bushes, branches and trees up to a maximum diameter of 25 cm, equiped with helical forestry rotor Ø 450 mm with fixed tools. The specially reinforced frame to withstand the axial loads caused by the movement of the skid steers in demanding conditions is equipped with screw adjustable interchangeable support skids and with two rows of HARDOX® counter-knives that guarantee a fine and homogeneous shredding. The hood is hydraulically adjustable with cylinder integrated and protected in the Hardox double frame. Double row of front protection chains, with screwed plates that limit the escape of shredded material whilst protecting the operator and the tractor / cab at the same time.

Mechanical arch for pushing down branches whilst protecting the tractor, helping convey the material to the rotor for better shredding. On request, this can be hydraulically operated for greater ease of use and comfort. Fixed tools in wear resistant tungsten carbide for highly professional and difficult jobs. Double-edged tools allow them to be reversed when worn and therefore take advantage of the other side for longer life. With a sturdy and professional rotor, the HULK FORREST PISTON stands out for its ergonomic design that guarantees excellent visibility for the operator during the various operations. It can be used with any brand of Skid Steer Loader on the market thanks to our "SMARTFIT" Universal hitch. Supplied with a REXROTH® AXIAL PISTON hydraulic motor or optionally available with the VARIABLE DISPLACEMENT PISTON HYDRAULIC MOTOR (REXROTH® a Bosch Company®) with automatic variable flow rate, which allows increased productivity and reduced consumption at the same time. Dustproof chassis and reinforced side to withstand the axial load of the crawlers, hydraulic opening and closing of the hood.

Standard with valve developed by ORSI 3 in 1 which allows to have advantages in the hydraulic circuit to be easily used on all models of different Skid Steer Loader brands.

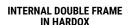
HULK FORREST PISTON	A cm	B	C cm	D cm	E cm
170	202	53	118	113	170
210	224	53	118	113	192
250	252	53	118	113	223





#### STRENGTH POINTS







REXROTH AXIAL PISTONS ENGINE INCLINED AXIS



TUNGSTEN CARBIDE FIXED TOOLS



ORSI V3.1



DOUBLE-ROW SELF-ALIGNING ROLLER BEARINGS

HULK FORREST <i>Piston</i>		170	210	250		
TECHNICAL SPECIFICATIONS						
Working width		170 cm   66,9°	192 cm   75,6"	220 cm   86,6"		
Machine weight*		1480 kg   <i>3263 lbs</i>	1590 kg   <i>3505 l</i> bs	1680 kg   3703 lbs		
hammers <b>Kg</b> 1,6		N° 36	N° 40	N° 48		
A 1	A	219x20 mm   8,6°x0,8°	219x20 mm   8,6°x0,8°	219x25mm   8,6*x1*		
	В	455 mm   17,9°	455 mm   17,9°	455 mm   17,9°		
N° belts Powerband Triplex		2	2	2		

HULK FORREST <i>Piston</i>	170	210	250
MACHINE			
Double frame in Hardox	✓	<b>~</b>	<b>✓</b>
Hardox counter-knives	✓	✓	<b>✓</b>
Hydraulic rear tailgate	✓	<b>✓</b>	<b>✓</b>
Bonnet with a double row of protective chains	✓	✓	<b>✓</b>
Adjustable height skids in Hardox steel	✓	✓	✓
Completely closed and dustproof frame	✓	✓	✓
Double row of protective chains with screwed flaps	✓	✓	<b>4</b>
Reflectors	✓	✓	✓
Swinging coupler for skid steer loader universal type	✓	✓	✓
Mechanically adjustable arch for pushing down branches	✓	✓	✓
Hydraulically adjustable arch for pushing down branches	•	•	•
A. 6 way solenoid valve 12 Volt for machine not set up forcommand bonnet opening	•	•	•
B. Extra cost for non-universal blade attachment	•	•	•
TRANSMISSION			
Unidirectional motor with external axial piston drainage	✓	<b>✓</b>	<b>✓</b>
Lateral transmission with 6 belts	✓	✓	✓
Helical forest rotor Ø 450mm with fix tools in tungsten	✓	✓	✓
Double-row self-aligning roller bearings	✓	✓	✓
Double rotor support	✓	<b>✓</b>	<b>✓</b>
Automatic belt tensioner	✓	✓	<b>✓</b>
Rexroth axial piston motor with variable displacement cc 56/80	-	•	•
HYDRAULIC SYSTEM			
One way valve on return	✓	<b>✓</b>	<b>✓</b>
ORSI V3.1-1 which includes valve of max. pressure + anticavitation valve + flow regulator MAX back pressure on oil drainage = 2 BAR	<b>✓</b>	<b>~</b>	<b>✓</b>

## **HULK FORREST PISTON**

**PROFESSIONAL SERIES** 





TUNGSTEN CARBIDE FIXED TOOLS

FOREST ROTOR WITH FIXED TEETH A: Ø 219 x 20 mm



























« The first Orsi Mulcher was purchased by my family about 25 years ago. The main quality we were looking for was reliability and performance of the machines in very difficult field conditions. The ORSI machines we have had are as reliable as possible, and have always done the work in the fields very well and importantly, we are extremely happy with the service. »

Azienda Agricola Boselli Daniele e Filippo (BOLOGNA) Italia



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