



# TS INDUSTRIE

**TS** INDUSTRIE®

Since 1985, TS INDUSTRIE has specialized in manufacturing and distribution of wood chippers and multi-greenery shredders for landscaping professionals. With ours 3 ranges of machines, TS INDUSTRIE covers all needs.



**ELECTRIC/SERIES**







**WOOD**/SERIES



**GREEN**/SERIES



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# ADVANTAGES



## 1. ULTIMATE VERSATILITY – THE RIGHT MACHINE FOR ALL YOUR CHIPPING NEEDS

From dense branches to hedge trimmings and green materials, each model is designed to efficiently handle diverse green waste, providing the perfect solution for landscapers, arborists, and green professionals. Our range features models with various chassis configurations, from compact, towable frames for easy transport to heavy-duty tracked chassis for tackling difficult terrain. Whether you choose diesel, petrol, PTO, or electric, the option is yours.



## 2. HIGH EFFICIENCY – ENGINEERED FOR TOP PRODUCTIVITY

Each TS Industrie machine is designed by our in-house engineering team to deliver maximum productivity. Optimized cutting systems and robust designs ensure smooth, high-output performance, keeping operations efficient and minimizing downtime.



## 3. ECO-FRIENDLY PERFORMANCE – LOW EMISSIONS

With CO<sub>2</sub> sensors, optimized engine management, electric-powered machines, and the use of bio-lubricants, our teams are committed to eco-friendly operations that align with green industry standards for a sustainable future.



## 4. RELIABLE SUPPORT NETWORK – EXTENSIVE PARTNERS & SERVICE TEAM

TS Industrie supports its clients with a robust network of knowledgeable partners and a dedicated support team, ensuring local expertise and quick service when it's needed most.



## 5. RELIABILITY YOU CAN COUNT ON – EUROPEAN QUALITY

Conceived and produced in Europe, TS Industrie machines prioritize high safety standards while delivering reliable performance under heavy workloads and challenging conditions.



## 6. DRIVEN BY INNOVATION – CONTINUOUS IMPROVEMENT

TS Industrie is dedicated to innovation, consistently enhancing our products with advanced technologies and sustainable solutions that set the standard for high-performance machinery.





TS INDUSTRIE®

GS ePANTHER

ELECTRIC SERIES

TS INDUSTRIE®

ts-industrie.eu





# CHIPPING

with TS INDUSTRIE

# A UNIQUE CONCEPT



Our R&D team develop high-performant technologies to create a chipper that meets your needs.



The company has been designing machines in Europe for 140 years.



To offer users a premium product, we control the entire production chain. Our German and French teams work hand in hand to manufacture our machines, which are designed and developed in Europe.





Our customer service after sales and spare parts teams are by your side to accompany you in your daily needs. TS Industrie is a team of experts with a common objective : to provide users high quality service and expertise.



A sales team dedicated entirely to field operations.



Our logistics platform ensures rapid delivery of machines and parts to maintain continuous activity.



A website is developed to make your day-to-day life easier.



# EXCELLENT SERVICE

# OUR CHIPPING TECHNOLOGIES

Our chippers range includes 2 different product lines:

**Green series** is developed to shred the mixed greenery. The fibers of shredded material is softened which makes it excellent for composting and mulching. This method is especially efficient with the leafy branches.

**The Wood series** is perfectly suitable to produce uniform wood chips for the plant protection or to serve as combustion material.

All models are perfectly suited for the clean chipping of any tree pruning and mixed greenery.

## CUTTING DISC



The **CUTTING DISC**, installed on all wood chippers, works with two adjustable blades and counter blade to produce clean cuts and uniform chips.



## POWER MIXED ROTOR



The new generation of **POWER MIXED ROTOR** is even more productive thanks to a bigger number of hammers and knives. The ventilation chambers help to provide an extra air flow for efficient material evacuation.



## MIXED ROTOR



The **MIXED ROTOR** is a patented system that combines both hammers and knives for chipping all types of greens and branches simultaneously and efficiently.





# OUR TECHNICAL ADVANTAGES

## TS.COCKPIT

### TS.COCKPIT

The last generation of our control unit for reliable operations and easy maintenance.



### PILOT SYSTEM AND PILOT SYSTEM SWING

Control unit for reliable operation of chippers with three power levels.



### NO STRESS

Regulating system for the speed of the feed rollers. Clogging or stalling of the motor is prevented.



### VARIOSTRESS

Setting of NO STRESS according to the chipped material.



### CO<sup>2</sup>-REDUCTION

Automatic presence sensor that helps to reduce CO<sub>2</sub> emissions and to save energy.



### CONTROLS UNITS

Activation of the feeding rollers and convoyer forward and backward.



### TURNABLE BLOW-OUT CHUTE

Adapting to all conditions of use.



### FOLDABLE HOPPER

Essential for transport.



### PIVOTABLE TURRET

Guarantees ergonomic and safe operations.



### TRACK CRAWLERS

Help to access to any type of working site.

# HOW TO RECYCLE CHIPPED MATERIAL

Chipped material created by rotor shredder from different plants is rich in nutrients and decomposes quickly. Therefore, it is perfectly suited for composting and as an organic fertilizer for your plants.

Uniform wood chips are created by the cutting disc technology. They are used for both ornament and protection of your plant beds (i.e. storage of water in the soil, regulation of temperature, etc.) or may also serve as fuel.



## MIXED GREENERY MATERIAL

Soil regeneration - Efficient nutrient supply - Water saving - Improved soil profile.



## COMPOST

Improves the composition of the soil - Increases its water retention capacity - Stabilises the pH value - Reduces surface erosion - Promotes root formation



## MULCHING

Allows waste to be left on site - Aesthetics - Reduced irrigation - Nutrient supply - Temperature regulation - Reduced use of fertilisers



## ENERGY

Important source of renewable primary energy - Fuels economy - Promotes local supply - Low economic and environmental impact of transport

## THE RIGHT CHOICE OF A CHIPPER

In order to get a machine that fits your chipping needs, you should keep in mind the following parameters: the quantity and the type of material that you usually chip, the diameter of branches, what is your typical working context: forests with difficult access or cities and green area maintenance...



You will find this symbol on each of our pages to indicate **productivity** or quantity of substance.



# GREEN SERIES


**PREMIUM P**

**MIXED  
ROTOR**

**BRANCH  
DIAMETER  
13 CM**

**AVERAGE INPUT  
13M<sup>3</sup>/H**

**< 750  
KG**

	<b>PREMIUM P</b>
<b>ENGINE CAPACITY (cm<sup>3</sup>) - NUMBER of CYLINDERS</b>	725 - 2 CYL.
<b>ENGINE POWER</b>	23,5 HP
<b>BRANCH DIAMETER (cm)</b>	13
<b>WEIGHT (kg)</b>	745
<b>ROTOR</b>	MIXED ROTOR 10 HAMMERS / 2 BLADES
<b>ROTOR WEIGHT (kg)</b>	85
<b>L x W x H (mm)</b>	3770 x 1600 x 2140
<b>WIDTH OF FEED ROLLER (mm)</b>	250
<b>LOADING HEIGHT HOPPER (mm)</b>	715
<b>REFERENCE</b>	GSPREMIUMP
<b>MAINTENANCE KIT</b>	KITPREMIUMP

TECHNICAL DATA P. 28 - 29

## TRAILERS AND TOWING VEHICLES


 $\leq 750\text{Kg}$   
 Zul. Gesamtmasse

 $\leq 3.500\text{Kg}$   
 Zul. Gesamtmasse  
 Anhänger leichter als Zugfahrzeug

In any case, please check the registration certificate of your vehicle for the permitted towing weight.

$= 3.500\text{kg}$

Zul. Gesamtmasse      Zul. Gesamtmasse

$= 3.501\text{kg}$

Zul. Gesamtmasse      Zul. Gesamtmasse

$= 3.300\text{kg}$

Zul. Gesamtmasse      Zul. Gesamtmasse

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Our PREMIUM P is the user-friendly and real reference product from TS INDUSTRIE. Equipped with a reliable KOHLER 23,5HP engine and an efficient **MIXED ROTOR** with 10 hammers and 2 blades, it shreds your green waste up to 13 cm. Weighing less than 750 kg, this rotor shredder can be safely transported with a German 'Class B' driving licence. Landscaping professionals appreciate its wide hopper for convenient operations. The TS.COCK'PIT centralize the operation settings of the shredder and thus make this model easy to use.



## TIGER D / TIGER P



**MIXED ROTOR**



**BRANCH DIAMETER**  
14 CM



**AVERAGE INPUT**  
17M<sup>3</sup>/H



**MOTORIZATION**  
KUBOTA D902 V 25HP



The TIGER, available with **diesel** or **petrol engine**, is adaptable to all type of application. To transport this shredder weighing less than 750 kg only a German 'class B' driving licence is required.

The TIGER is equipped with a **feed conveyor** and a **wide hopper** for optimum working comfort. Its **MIXED ROTOR** with 8 hammers and 2 blades as well as a **TS.Cockpit** as standard features create the perfect urban machine configuration.



## TIGER D



**MOTORIZATION**  
KUBOTA D902 V 25 hp

## TIGER P



**MOTORIZATION**  
KOHLER CH730 V 25 hp

	TIGER D	TIGER P
ENGINE CAPACITY (cm <sup>3</sup> ) - NUMBER of CYLINDERS	898 - 3 CYL.	725 - 2 CYL.
ENGINE POWER	25 hp	
BRANCH DIAMETER (cm)	14	
WEIGHT (kg)	745	695
ROTOR	POWER MIXED ROTOR 8 HAMMERS / 2 BLADES	
ROTOR WEIGHT (kg)	45	
L x W x H (mm)	3560 x 1515 x 2060	
WIDTH FEED ROLLER (mm)	250	
LOADING HEIGHT HOPPER (mm)	750	
REFERENCE	GSTIGERD	GSTIGERP
MAINTENANCE KIT	KITTIGERD	KITTIGERP

TECHNICAL DATA P. 28 - 29

## NO STRESS

The No Stress function automatically adjusts the speed settings at feeding, depending on the thickness and type of material, to prevent the machine from clogging with overload at the material. The system relaunches automatically once the rotor has finished getting back to its average rotation speed. There are 3 shredding ranges, from the smallest/tightest to the widest/thickest wood. All our shredders are equipped with an adjustment knob controlling the speed of the conveyor and in feed roller, to reduce or increase the speed at the feeding and thus the size of chips of the shredded material.



Perfect balance between power and capacity.

Our rotor shredder, PYTHON P equipped with 25 HP KOHLER petrol engine to shred your green waste up to 15 cm in diameter. Its weight of 950 kilos and an adjustable drawbar that equipped with brakes allows the shredder to be transported with a German 'Class B' driving licence as long as the total weight is less than 3,500 kg, see overview.

The PYTHON P has the patented **POWER MIXED ROTOR** with 8 hammers and 4 blades.

The **TS.Cockpit** controls the entire machine with **three different power setting levels**. Important maintenance functions can be checked up in one glance.

## THE TS.COCKPIT

The **TS.Cockpit** is a control system which withstands outdoor operating conditions: bad weather, vibrations and other daily challenges.

The control of the machine and the selection of the three power levels are done through an intuitive colour display. The three power levels are clearly identified for easy switching from one mode to another:



Among other things, the **TS.Cockpit** measures the voltage of the battery and manages the retreatment of exhaust gas. By displaying error codes, it performs intelligent diagnosis of the machine. Requirements for further services and oil changes can easily be detected as well as the settings of the CO2 reduction.

**It is a perfect smart assistant for controlling your shredder and for optimising your workflows.**







**POWER MIXED ROTOR**



**BRANCH DIAMETER**  
15 CM



**AVERAGE INPUT**  
22M³/H

**POWER MIXED ROTOR**

Equipped with 8 hammers and 4 blades to maximise the reduction of material

**FEED CONVEYOR**

An interlocked feed conveyor of 40 cm reliably carry the material over the entire width

**TS.COCKPIT**

Centralises the control and operation of the machine

**CENTRAL LUBRIFICATION CONNECTION**

For easy maintenance



**MOTORIZATION**  
KOHLER CH730 V 25 HP

	PYTHON P
ENGINE CAPACITY (cm³) - NUMBER of CYLINDERS	725 2-CYL.
ENGINE POWER	25 hp
BRANCH DIAMETER (cm)	15
WEIGHT (kg)	950
ROTOR	POWER MIXED ROTOR 8 HAMMERS / 4 BLADES
ROTOR WEIGHT (kg)	100
L X W X H ( mm )	4000 x 1550 x 2115
FEED ROLLER WIDTH (mm)	250
LOADING HOPPER HEIGHT (mm)	700
REFERENCE	GSPYTHONP
MAINTENANCE KIT	KITPYTHONP

TECHNICAL DATA P. 28 - 29

## PUMA P


**POWER MIXED  
ROTOR**

**BRANCH  
DIAMETER**  
 16 cm

**AVERAGE  
INPUT**  
 27m<sup>3</sup>/h

**MOTORIZATION**  
**KOHLER ECH980 EFI**  
 V 38 hp

**POWER MIXED  
ROTOR**

 12 hammers und 6 blades  
 guarantee an optimal  
 shredding

**TS.COCKPIT**

 Centralises the  
 control and operation  
 of the machine

**MOTOR**

 KOHLER ECH980 EFI V  
 38HP

**FEED CONVEYOR**

 40 cm wide reliable  
 carries the material  
 over the entire width  
 to the infeed roller

**MAX. DIAMETER**

Up to 16 cm



	PUMA P	PUMA D
ENGINE CAPACITY (cm <sup>3</sup> ) - NUMBER of CYLINDERS	999 2-CYL.	1498 2-CYL.
ENGINE POWER	38 hp	25 hp
BRANCH DIAMETER (cm)	16	
WEIGHT (kg)	1230	1330
ROTOR	POWER MIXED ROTOR 12 HAMMERS / 6 BLADES	
ROTOR WEIGHT (kg)	150	
L x W x H (mm)	4370 X 1690 X 2360	
WIDTH OF FEED ROLLER (mm)	400	
LOADING HOPPER HEIGHT (mm)	750	
REFERENCE	GSPUMAP	GSPUMAD
MAINTENANCE KIT	KITPUMAP	KITPUMAD

TECHNICAL DATA P. 28 - 29



## PUMA D

The PUMA is our bestseller in all its diversity!

**Diesel, petrol** and **100 % electric** (pp. 38-39), it is robust and powerful and able to shred diverse greenery with a max. diameter of 16 cm.

The PUMA is equipped with a **POWER MIXED ROTOR** equipped with 12 hammers and 6 blades. The control of the machine is operated via **TS.COCKPIT**. The machine is also equipped with an **adjustable drawbar** containing the **parking brake**.

It also includes a wide geared **feed conveyor** and an **infeed roller**.



**MOTORIZATION**  
**KUBOTA 1505 V 25 hp**



## JAGUAR D SR-TK


**POWER MIXED  
ROTOR**

**BRANCH  
DIAMETER  
18 CM**

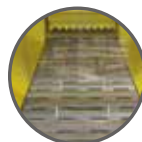
**AVERAGE INPUT  
32M<sup>3</sup>/H**

**POWER  
MIXED ROTOR**

12 hammers and 6 blades as well as a total weight of 150 kg offer a clean and powerful cut

**TS.COCKPIT**

Centralises the control and operation of the machine


**FEED CONVEYOR**

An interlocked feed belt of 40 cm reliably carry the material over the entire width to the infeed roller


**MOTORIZATION  
KUBOTA 1505 CRT V 45 hp**
**MOTOR**

KUBOTA 1505 CRT V 45 hp


**REMOTE CONTROL**

The remote control allows a safe transportation to any working site



The versions of our JAGUAR offer a variety of configurations: 45hp diesel version on chassis, PTO drive, tracks drive or 100 % electric (pp. 40-41).

All models are suitable for perfect shredding of green waste up to 18 cm in branch diameter. They are equipped with a powerful 150 kg **POWER MIXED ROTOR**, with of 12 hammers and 6 blades which shred the material with ease and eject it efficiently.

In addition to optimising fuel consumption and engine power, the JAGUAR is equipped with a **TS.Cockpit**. Its **parallelogram drawbar** is adjustable, and the **180° pivoting discharge chute** may be easily oriented. Thanks to the **crawlers with slope compensation** and the **standard remote control**, safe working and manoeuvring is possible at all times, even on difficult grounds.



## JAGUAR D

## JAGUAR PTO



**POWER MIXED  
ROTOR**



**BRANCH  
DIAMETER  
UP TO 18 CM**



**AVERAGE INPUT  
32 M<sup>3</sup>/H**



**MOTORIZATION  
KUBOTA 1505 CRT V 45 HP**



**MOTORIZATION  
POWER TAKE-OFF (PTO)**

	JAGUAR D	JAGUAR PTO	JAGUAR D SR-TK
ENGINE CAPACITY (cm <sup>3</sup> ) - NUMBER of CYLINDERS	1498 4-CYL.	-	1903 4-CYL.
ENGINE POWER	45 hp	-	45 hp
PERMITTED DIAMETER (cm)	18		
WEIGHT (kg)	1450	900	2100
ROTOR	POWER MIXED ROTOR 12 HAMMERS / 6 BLADES		
ROTOR WEIGHT (kg)	150		
L x W x H (mm)	4430 X 1780 X 2380	3000 X 1500 X 2350	4430 X 1780 X 2350
WIDTH FEED ROLLER (mm)	400		
LOADING HOPPER HEIGHT (mm)	760	800	830
REFERENCE	GSJAGUARD	GSJAGUARPTO	GSJAGUARDSRTK
MAINTENANCE KIT	KITJAGUARD	KITJAGUARPTO	KITJAGUARD

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## WHY TO CHOOSE TRACKS ?

TS Industrie crawlers machines are developed for 18cm of branch diameter are often referred to as 'Tracks', as in the case of the Jaguar or WS18. The radio remote control allows operators of Tracks machines to position themselves safely on working sites: in the forest, on slopes or on uneven terrain. Our optional working LEDlights help to create an all-terrain shredder capable of working in all circumstances!

The PANTHER D is a powerful addition to the product range of rotor shredders.

This machine is propelled by KOHLER 56HP diesel engine that drives a POWER MIXED ROTOR, equipped with 6 hammers and 12 blades to shred green waste up to 19 cm in diameter.

With a wide hopper and a 50 cm interlocked feed conveyor, work can be coordinated with several operators at the same high time which means less time spent working on locations. The adjustable **parallelogram drawbar** facilitates transport with different towing vehicles. The **PILOT SYSTEM** offers a choice of three different power levels depending on the infeed material.



## THE CO<sub>2</sub> REDUCTION

Being future-oriented we continuously develop innovative features and options for our machines. Usually for 8 hours working day the effective shredding time is roughly 3 hours. Thus, to preserve the environment we designed the CO<sub>2</sub> reduction sensor. This detection system, placed above the hopper, reliably lowers the engine speed when the operator is no longer present behind the machine.

### HOW DOES THE CO<sub>2</sub> SENSOR WORK ?

**Level 1:** If there is no user behind the machine, the sensor detects it and automatically switches the motor to slow speed.

**Level 2:** The operator reappears behind the machine. The sensor registers his appearance and puts the engine up to the load speed programmed in advance. The feeding system starts. Within two seconds, the shredder is ready for use.

### WHY INSTALL THE CO<sub>2</sub> SENSOR ON THE MACHINE ?

The reduction system of CO<sub>2</sub> offers lots of advantages : noticeable reduction of CO<sub>2</sub> emissions and fuel consumption of the machine, lowering the noise level while working, improvement of operator comfort and an extension of the service life by reducing the need for maintenance. The CO<sub>2</sub> reduction system is available from GS/JAGUAR (18 cm) to GS/COBRA (21 cm) rotor shredders.





**MOTORIZATION**  
KOHLER KDI V 56 HP



**POWER MIXED ROTOR**



**BRANCH DIAMETER**  
19 cm



**AVERAGE INPUT**  
38m<sup>3</sup>/h

	PANTHER D
ENGINE CAPACITY (cm <sup>3</sup> ) - NUMBER of CYLINDERS	1903 3-CYL.
ENGINE POWER	56 hp
BRANCH DIAMETER (cm)	19
WEIGHT (kg)	2050
ROTOR	POWER MIXED ROTOR 12 HAMMERS / 6 BLADES
ROTOR WEIGHT (kg)	150
L x W x H (mm)	4510 x 2020 x 2360
FEED ROLLER WIDHT (mm)	400
LOADING HOPPER HIGHT(mm)	760
REFERENCE	GSPANTHERD
MAINTENANCE KIT	KITPANTHERD

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The proven standard among rotor shredders is our COBRA D. The power and reliability of its **two available engines** (KOHLER diesel 75 hp or KUBOTA petrol/gas in 88/94 hp) ensure the performance. Its **POWER MIXED ROTOR** with 16 hammers and 8 blades cuts branches up to 21 cm in diameter.

This model is equipped with an adjustable **parallelogram drawbar**. The **extra wide hopper** of over 1600 mm and the 50 cm wide **feed conveyor** allow multiple users to work simultaneously and without disturbance.



**POWER MIXED  
ROTOR**



**AVERAGE INPUT**  
45m³/h



**BRANCH  
DIAMETER**  
21 cm

## AVAILABLE OPTIONS FOR YOUR CHIPPERS

Both our wood chippers and rotor shredders offer a variety of options to choose.

- **System of CO<sub>2</sub> reduction:** lower emissions and fuel savings
- **Discharge chute options:** extended or foldable - a suitable solution for complexe working sites
- **Spare wheel:** available for the majority of our wood chippers and rotor shredders; perfect for the working sites hard to acces to.
- **Individual choice of colour:** our indoor paint shop allows you to choose the colour that fits your brand image
- **Maintenance kit :** guaranteed availability of original spare parts
- **LED lights:** to continue the work even in early mornings or late evenings
- **Chassis options:** depending on models

For more information on our options and shredders, please contact the sales team.





**POWER MIXED ROTOR**

The largest of our rotors, equipped with 16 hammers and 8 blades

**PILOT SYSTEM SWING**

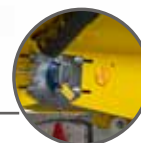
Reliable control of the GS/COBRA D

**LARGE FEED CONVEYOR**

The widest hopper of its class combined with a wide feed conveyor of 50 cm and feed roller








**MOTORIZATION**  
KOHLER KDI 2504TCR V 75 hp

**CENTRALISED GREASING**

	COBRA D	COBRA PG
ENGINE CAPACITY (cm³) - NUMBER of CYLINDERS	2504 4-CYL.	3800 4-CYL.
ENGINE POWER	75 hp	88 hp (PETROL) / 94 hp (GAS)
BRANCH DIAMETER (cm)	21	
WEIGHT (kg)	2105	
ROTOR	POWER MIXED ROTOR 16 HAMMERS / 8 BLADES	
ROTOR WEIGHT (kg)	270	
L x W x H (mm)	4710 X 1690 X 2500	
FEED ROLLER WIDTH (mm)	500	
LOADING HOPPER HEIGHT (mm)	700	
REFERENCE	GSCOBRAD	GSCOBRAPG
MAINTENANCE KIT	KITCOBRAD	KITCOBRAPG

TECHNICAL DATA, p. 28 - 29

# TECHNICAL DATA







	ROTOR SHREDDERS WITH CHASSIS					
	GS/PREMIUM P	GS/TIGER P	GS/TIGER D	GS/PHYTON P	GS/PUMA P	
						
Referece	GSPREMIUMP	GSTIGERP	GSTIGERD	GSPYTHONP	GSPUMAP	
Branch Diameter (cm)	13	14	14	15	16	
Average input (m³/h)	13	17	17	22	27	
Engine	KOHLER CH730 V 25 hp / 18,5 kW	KOHLER CH730 V 25 hp / 18,5 kW	KUBOTA D902 V 25 hp / 18,5 kW	KOHLER CH-730 V 25 hp / 18,5 kW	KOHLER ECH-980 EFI V 38 hp / 28 kW	
Engine Capacity cm³/Number of cylinders	725 2-Cyl.	725 2-Cyl.	898 3-Cyl.	725 2-Cyl.	999 2-Cyl.	
Fuel	petrol	petrol	diesel	petrol	petrol	
Clutch	hydraulic	centrifugal force	centrifugal force	centrifugal force	centrifugal force	
Covering	ABS-hoods	FRP-hoods	FRP-hoods	FRP-hoods	FRP-hoods	
Diameter of the rotor (mm)	560	400	400	560	560	
Weight of the rotor (kg)	85	45	45	100	150	
Number of hammers	10	8	8	8	12	
Number of blades	2	2	2	4	6	
Width of the infeed roller (mm)	250	250	250	250	400	
Feed convoyer	No	400	400	400	400	
Diameter of the feed convoyer (mm)	340	340	340	340	340	
Number of axles	1	1	1	1	1	
Dimensions of tyres	155/70R13	155/70R13	155/70R13	165R13C	165R13C	
Fuel tank capacity (l)	30	17	17	32	32	
Consumption (l/h)	4	4	3	4	3.9	
Discharge chute	270°	180°	180°	180°	180°	
Height discharge of chute (mm)	2060	1850	1850	2115	2300	
Weight of machine (kg)	745	695	745	950	1230	
Total weight of road homologation (kg)	750	750	750	1000	1340	
Dimension of the hopper T x W (mm)	1500 x 1390	1600 x 1350	1600 x 1350	1600 x 1350	1600 x 1350	
Loading hopper height (mm)	715	750	750	700	750	
L x W x H Dimension of working-transport (mm)	3770 x 1600 x 2140	3560 x 1515 x 2060	3560 x 1515 x 2060	4000 x 1550 x 2115	4370 x 1690 x 2360	
Wheel Chock / upright unit	Standard / Standard	Standard / Standard	Standard / -	Standard / Standard	Standard / Standard	



# ROTOR SHREDDERS WITH CHASSIS

## ROTOR SHREDDERS PTO

## ROTOR SHREDDERS WITH TRACKS

	GS/PUMA D	GS/JAGUAR D	GS/PANTHER D	GS/COBRA D	GS/JAGUAR PTO	GS/JAGUAR D SR-TK
						
	GSPUMAD	GSJAGUARD	GSPANTHERD	GSCOBRAD	GSJAGUARPTO	GS JAGUAR D SR-TK
	16	18	19	21	18	18
	27	32	38	45	32	32
	KUBOTA V1505 V 25 hp / 18,5 kW	KUBOTA V1505CRT V 45 hp / 33,57 kW	KOHLER KDI 1903TCR IN 56 hp / 42 kW	KOHLER KDI IN 75 hp / 55,4 kW 2504TCR	PROPULSION min. 55 hp (From 80 hp, a reinforced gearbox is necessary)	KUBOTA V1505 CRT V 45 hp / 33,57 kW
	1498 4-Cyl.	1498 4-Cyl.	1861 3-Cyl.	2482 4-Cyl.	-	1498 4-Cyl.
	diesel	diesel	diesel	diesel	power take-off	diesel
	hydraulic	hydraulic	hydraulic	hydraulic	-	hydraulic
	FRP-hoods	FRP-hoods	FRP-hoods	FRP-hoods	-	FRP-hoods
	560	560	560	560	560	560
	150	150	150	270	150	150
	12	12	12	16	12	12
	6	6	6	8	6	6
	400	400	400	500	400	400
	400	400	500	500	400	400
	340	340	340	395	340	340
	1	1	1	1	-	-
	165R13C	175R14C	215R14C	215R14C	-	-
	32	32	50	50	-	32
	3.9	4		5	-	4
	180°	180°	180°	180°	180°	180°
	2300	2330	2330	2250	2330	2330
	1380	1450	2050	2105	900	2100
	1400	1500	2200	2200	-	-
	1600 x 1350	1600 x 1350	1600 x 1620	1600 x 1630	1600 x 1350	1600 x 1350
	750	760	760	700	800	830
	4370 x 1690 x 2360	4430 x 1780 x 2380	4510 x 2020 x 2360	4710 x 1960 x 2500	3000 x 1500 x 2350	3000 x 1800 x 2400
	Standard / Standard	Standard / Standard	Standard / Standard	Standard / Standard	-	-



## PROVEN TS INDUSTRIE TECHNOLOGIES FOR ELECTRIC SHREDDERS

Our battery operated machines offer new way of working while keeping the best practices of combustible:

### CHOICE OF THE ROTOR SPEED / MOTOR POWER



Low rotor speed and motor power



Average rotor speed and motor power



High rotor speed and motor power

A fourth option is fully customisable.



### START AND STOP BUTTON

Energy recovery, energy saving, battery regeneration (only below a charge of 97 %), noise reduction by stopping the rotor, additional energy saving in combination with the option of the presence sensor



### BATTERY'S CHARGE

100 % motor power regardless of the battery's state of charge. The mobility platform enables the efficient planning of your daily work



### hibernation mode

Activation of the hibernation button when not in use of more than 15 days is required automatically maintaining the battery state of charge of 70 %. It preserves the batteries' state of health in a long-term according to warranty conditions.



### 1 CHARGING CYCLE = 100% CHARGED

when talking about the charging cycle, it is a 100% charging, for example, a full cycle corresponds to a 60 % charge, then a 35 % charge and a final 5 % charge.



### EASY MAINTENANCE

the electric shredder saves you time on maintenance. Less greasing, no engine maintenance.



### 0 CO2 EMISSIONS AND QUIET OPERATION

an energy-efficient shredder for all your urban works.



**FIND OUT MORE ABOUT OUR  
ELECTRIC SHREDDERS ON OUR  
WEBSITE**





# ELECTRIC SERIES



Our PUMA goes electric! Its lithium iron phosphate batteries supply a 19 kW motor (equivalent to 31 HP) that shreds your green waste up to 16cm of diameter. It is equipped with a POWER MIXED ROTOR consisting of 12 hammers and 6 blades, a feed conveyor, a feed roller and an adjustable parallelogram drawbar.

The ePUMA is controlled by the TS.Cockpit, which provides all information about the shredder. With the option of the presence sensor, you can optimise further the energy savings. The perfect combination of TS INDUSTRIE'S know-how and electric technologies!

## THE TS.COCKPIT AND THE MOBILITY PLATFORM

The standard TS.Cockpit enables users to control the machine on locations. You choose from three power levels and activate the activity sensor. Maintenance intervals and machine parameters are visible at all times. Possible error codes can easily be read out by operators.

- **The shredding settings**
- **Remote control of the machine**
- **Settings and errors code for easy maintenance.**
- **Access to web plateforme to control and schedule your operations.**
- **Information and maintenance alerts for long life of the machine.**

These and other pieces of information can also be transferred to an IoT platform.

This enables you to monitor the machine parameters of your shredder anytime and anywhere (subscription included for the first three years of use subject towarranty registration. Available as an option after three years).







POWER MIXED  
ROTOR



BRANCH  
DIAMETER  
Up to 16 cm



AVERAGE  
INPUT  
27 m³/h



MOTORIZATION  
ELECTRIC 19 kW/31 HP

	ePUMA
MOTOR	LiPo 96V 180Ah ASYNCHRONOUS 19 kW (31 hp)
AUTONOMY	(up to) 1 WORKING DAY
BRANCH DIAMETER (cm)	16
WEIGHT (kg)	1470
ROTOR	POWER MIXED ROTOR 12 HAMMERS / 6 BLADES
ROTOR WEIGHT (kg)	150
L x W x H (mm)	4430 x 1780 x 2380
FEED ROLLER WIDTH (mm)	400
LOADING HOPPER HEIGHT (mm)	760
REFERENCE	GSEPUMA
MAINTENANCE KIT	KITGSEPUMA

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# gs/eJAGUAR

## ELECTRIC ROTOR SHREDDER

The eJAGUAR makes the POWER MIXED ROTOR electric! With 12 hammers, 6 blades and an electric motor (equivalent to 46HP), it is equipped with a **lithium iron phosphate battery**. After a full charge of nine hours, you have enough energy for up to one working day.

The shredder is equipped with the proven **feed conveyor** and the innovative **TS.Cockpit**, which provides all information about the machine. This service is accessible on site and online.



**MOTORIZATION  
ELECTRIC**  
28,5 kW/ 46 hp



**BRANCH  
DIAMETER**  
Up to 18 cm



**POWER  
MIXED ROTOR**



**AVERAGE  
INPUT**  
32 m<sup>3</sup>/h

## TECHNOLOGY OF LITHIUM-IRON- PHOSPHATE-BATTERIES

The batteries of our electric shredders employ the latest lithium iron phosphate technology. The safe concept ensures fire- and explosion-free use even in the event of damage of the cover protection.

During the period of ongoing inactivity the 'hibernation mode' should be activated to extend the lifetime of the battery.

As for the recyclability of the battery, it is almost 100% recyclable after a lifetime of our shredder.





### BATTERIES OF LITHIUM-IRON-PHOSPHATE

96 volt batteries for a 28.5 kW asynchronous motor

### ACTIVITY SENSOR

Option to promote battery regeneration and energy saving

### START & STOP-BUTTON

For an easy starting and stopping of the system

### TS.COCKPIT

Centralisation of the steering, control of the machine and transfer of information to the mobility platform

	eJAGUAR
<b>MOTOR</b>	LIP 96V 300Ah ASYNCHRONOUS 28,5 kW (46 hp)
<b>AUTONOMY</b>	(up to) 1 WORKING DAY
<b>BRANCH DIAMETER (cm)</b>	19
<b>WEIGHT (kg)</b>	1590
<b>ROTOR</b>	POWER MIXED ROTOR 12 HAMMERS / 6 BLADES
<b>ROTOR WEIGHT (kg)</b>	150
<b>L x W x H (mm)</b>	4430 X 1780 X 2380
<b>FEED ROLLER WIDHT (mm)</b>	400
<b>LOADING HOPPER HEIGHT (mm)</b>	760
<b>REFERENCE</b>	GSEJAGUAR
<b>MAINTENANCE KIT</b>	KITGSEJAGUAR
TECHNICAL DATA, p. 38	

# gs/ePANTHER

## ELECTRIC ROTOR SHREDDER

The ePANTHER is TS INDUSTRIE'S largest e-model.

It offers autonomy for up to two working days to shred your green waste up to 19 cm in diameter.

Thanks to its **lithium iron phosphate batteries**, its **35 kW asynchronous engine** (equivalent of 56 hp) and with a **feed conveyor of 50 cm**, the ePANTHER is your ideal partner.

The **adjustable parallelogram drawbar** facilitates transport and the **TS.Cockpit** allows you to control work both on site and remotely.



**POWER**  
**MIXED ROTOR**



**BRANCH**  
**DIAMETER**  
Up to 19 cm



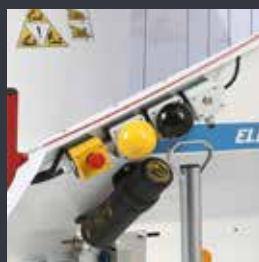
**AVERAGE**  
**INPUT**  
38 m³/h



**MOTORIZATION**  
**ELECTRIC 35 kW/ 56 hp**

## PRESENCE SENSOR

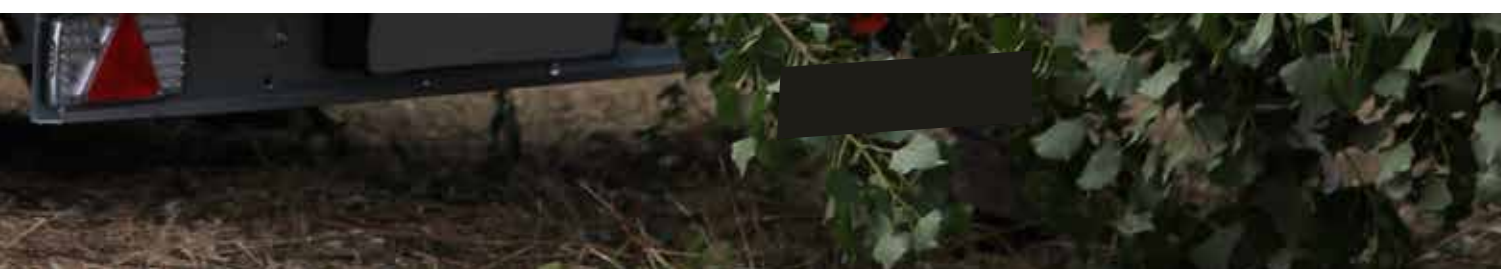
All our electric shredders are free from CO<sub>2</sub> emissions and are fitted with a Start & Stop button. You can also add a presence sensor. This option optimises the use of your batteries and limits the noise impact of your worksites (by 60 to 70% on average). Located above the hopper, it faces the rear of the machine to detect the presence of operators. If no one is spotted for 10, 20 or 30 seconds (programmable), the rotor stops and regenerates the battery at the same time. The conveyor and feed roller are also stopped. To restart the system, simply press the Start & Stop button to restart it in a few seconds.










	ePANTHER
<b>MOTOR</b>	LIP 96V 360Ah ASYNCHRONOUS 35 kW (56 hp)
<b>AUTONOMY</b>	(up to) 2 WORKING DAYS
<b>BRANCH DIAMETER (cm)</b>	19
<b>WEIGHT (kg)</b>	2150
<b>ROTOR</b>	POWER MIXED ROTOR 12 HAMMERS / 6 BLADES
<b>ROTOR WEIGHT (kg)</b>	150
<b>L x W x H (mm)</b>	4510 x 2020 x 2380
<b>FEED ROLLER WIDTH (mm)</b>	400
<b>LOADING HOPPER HEIGHT (mm)</b>	760
<b>REFERENCE</b>	GSEPANTHER
<b>MAINTENANCE KIT</b>	KITGSEPANTHER
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	e PUMA	e JAGUAR	e PANTHER
			
Permitted diameter (cm)	16	18	19
Average input (m <sup>3</sup> /h)	27	32	38
Batteries	lithium iron phosphate 96 voltage - 180 ah	lithium iron phosphate 96 voltage - 300 ah	lithium iron phosphate 96 voltage - 360 ah
Mono phase charger	included	included	included
Engine	asynchronous	asynchronous	asynchronous
Engine power (kW)	19	28.5	35
Power compared to combustion engine (hp)	31	45	56
Power saving mode	yes	yes	yes
Clutch	no	no	no
Start & Stop	yes, manually	yes, manually	yes, manually
Warranty of battery	3 years resp. 1.000 hours at 85% soh	3 years resp. 1.000 hours at 85% soh	3 years resp. 1.000 hours at 85% soh
Charging time (h)	6	9	12
Autonomy	(up to) 1 working day	(up to) 1 working day	(up to) 2 working days
Average consumption (kW/h)	7	9	10
Weight of the machine (kg)	1470	1590	2150
Central lubrication system	yes	yes	yes
Drawbar	centrally height adjustable	centrally height adjustable	centrally height adjustable
Wheel Chock / upright unit	Standard / Standard	Standard / Standard	Standard/ Standard
L x W x H (mm)	4430 x 1780 x 2380	4430 x 1780 x 2380	4510 x 2020 x 2380
Diameter of the rotor (mm)	560	560	560
Weight of rotor (kg)	150	150	150
Number of blades	6	6	6
Number of hammers	12	12	12
Feed conveyor (mm)	400	400	500
Width of feed roller (mm)	400	400	400
Diameter of feed roller (mm)	360	360	360
Loading height hopper (mm)	760	760	760
Dimesions of hopper T x W (mm)	1600 x 1350	1600 x 1350	1600 x 1620
Discharge chute	180°	180°	180°
Height discharge chute (mm)	2330	2330	2330
Platform of mobility	Included	Included	Included
Available option	Presence sensor	Presence sensor	Presence sensor



# WOOD SERIES





## ws/160P

WOOD CHIPPER

The wood chipper WS/160P is a real companion for all users with a driving licence equivalent of the German 'category B', as its weight is less than 750 kilograms. Its **folding hopper** makes the machine compact for transportation.

The cutting disc with two blades, in combination with the counter blades, provides a **clean cut** and produces even wood chips.

The **discharge chute**, which can be pivoted by 270°, offers you the necessary flexibility in all your working sites.



**MOTORIZATION**  
KOHLER ECH 380  
EFI PETROL V 38 HP



**WEIGHT**  
< 750 KG



**CUTTING DISC**



**BRANCH DIAMETER**  
up to 16 cm

## LES AVANTAGES DES BROYEURS DE BRANCHES







	WS/160P
ENGINE CAPACITY (cm³) - NUMBER of CYLINDERS	999 2-CYL.
ENGINE POWER	38 hp
BRANCH DIAMETER (cm)	16
WEIGHT (kg)	704
CUTTING SYSTEM	CUTTING DISC
CUTTING DISC DIAMETER (mm)	510
CUTTING DISC WEIGHT (kg)	50
L x W x H (mm)	3950 x 1400 x 2470
HOPPER DIMENSIONS T x W (mm)	1530 x 1075
LOADING HOPPER HEIGHT (mm)	700
REFERENCE	WS160P
MAINTENANCE KIT	KITWS16P

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**WS/18 D R-TK**

The WS/18 is a true all-rounder in term of configurations: in a fixed or turnable version or as a tracked chipper with remote control. Its **two feed rollers** catch the branches up to 18cm of diameter and carry them to the cutting disc. The **hopper** is **foldable** for easy transport. **Track mounted** and **radio-controlled**, the WS/18D R-TK provide access to any complicated working site.





## WS/18D



**MOTORIZATION**  
KUBOTA 1505 V diesel 25 hp

The classic version of the WS/18D shreds branches up to 18cm in diameter.

## WS/18DT



**MOTORIZATION**  
KUBOTA 1505V 25 HP

The turnable configuration can be rotated at 270° to allow safe and ergonomic working environment away from traffic.

	WS/18D	WS/18DT	WS/18D R-TK
ENGINE CAPACITY (cm³) - NUMBER of CYLINDERS	1498 4-CYL.		
ENGINE POWER	25 hp		
BRANCH DIAMETER (mm)	18	18	18
WEIGHT (kg)	1085	1330	1800
CUTTING SYSTEM	CUTTING DISC		
CUTTING DISC DIAMETER (mm)	670	740	670
CUTTING DISC WEIGHT (kg)	92.5	142	92.5
L x W x H (mm)	4000 x 1560 x 2530	4000 x 1630 x 2555	3100 x 1575 x 2500
DIMENSIONS HOPPER T x W (mm)	1530 x 1080		
LOADING HOPPER HEIGHT (mm)	700	700	700
REFERENCE	WS18D	WS18DT	WS18DRTK
MAINTENANCE KIT	KITWS18D	KITWS18DT	KITWS18D

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**WS/20DT**

**CUTTING  
DISC**

**BRANCH  
DIAMETER  
20 CM**

**MOTORIZATION  
KOHLER KDI  
1903 V 56 hp**

**TS.COCKPIT**

Centralisation of the steering, control of the machine and transfer of information to the mobility platform


**FOLDABLE HOPPER**

For easy and safe transport


**TURNABLE TOWER**

The 270° turnable tower enables safe and ergonomic work



The WS/20DT is an updated version of the WS/20DT, equipped with TS.Cockpit and handy centralised lubrication system. Its high-torque diesel engine, supplies a sufficient power for any working conditions. The TS.Cockpit controls work processes and indicates all relevant information on an ergonomic screen with colourful display.

The rotating turret and the 270° swivelling blow-out chute offer maximum working comfort, flexibility and safety. The large feed hopper facilitates the feeding of branches and pruning and can be folded to save space during transport. Maintenance of the machine is simplified by the well thought-out design. The wide service openings are designed to optimise accessibility for maintenance and service. The machine is available with an optional twin axle and in its PTO version.

	WS/20DT
<b>ENGINE CAPACITY (cm³) / NUMBER OF CYLINDERS</b>	1861 - 3 ZYL.
<b>ENGINE POWER</b>	42 kW / 56 PS
<b>BRANCH DIAMETER (mm)</b>	20
<b>WEIGHT (kg)</b>	1990
<b>CUTTING SYSTEM</b>	HACKSCHEIBE
<b>CUTTING DISC DIAMETER (mm)</b>	900
<b>CUTTING DISC WEIGHT (kg)</b>	218
<b>L x W x H (mm)</b>	4800 x 2000 x 2760
<b>DIMENSION OF HOPPER T x W (mm)</b>	1540 x 1330
<b>LOADING HOPPER HEIGHT (mm)</b>	870
<b>REFERENCE</b>	WS20DT
<b>COMFORT-KIT</b>	KITWS20DT

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## WS/23DT



**CUTTING DISC**



**BRANCH DIAMETER**  
23 CM



**MOTORIZATION**  
KOHLER KDI V  
2504TCR 75 hp

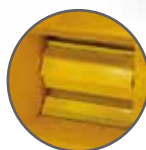


### TURNABLE TOWER

The 270° turnable tower enables safe and ergonomic work

### TWIN AXLE CHASSIS

Uncompromising stability during operation and transport



### FEED ROLLER

Powerful hydraulic feeding



### FOLDABLE HOPPER

For easy and safe transport

The WS/23DT is the most powerful wood chipper of TS INDUSTRIE.

On a two-axle braked chassis with **adjustable drawbar** and **automatic hitch** as well as a **270° rotation discharge chute**, this model meets all requirements for all type of your working sites.

The chipper is equipped with an **extra-large ejection flap** and two sturdy **feed rollers**. The machine operates with a **TS.COCKPIT** which adapts the chipping power to the needs of the operator and the material. It results in operational and energy savings.

	WS/23DT
ENGINE CAPACITY (cm³) / NUMBER OF CYLINDERS	2405 4-CYL.
ENGINE POWER	75 hp
BRANCH DIAMETER (cm)	23
WEIGHT (kg)	2340
CUTTING SYSTEM	CUTTING DISC
CUTTING DISC DIAMETER (mm)	218
CUTTING DISC WEIGHT (kg)	900
L x W x H (mm)	4900 x 1960 x 2680
HOPPER DIMENSIONS T x W (mm)	1540 x 1290
REFERENCE	WS23DT
MAINTENANCE KIT	KITWS23DT

TECHNICAL DATA P. 48 - 49





# PTO

TS INDUSTRIE offers a wide range of proven cutting disc chippers with PTO drive shaft.

These models offer the benefits of all our combustion range.

The PTOT-versions of WS/20 and WS/23 are available with 270° turnable towers.



**CUTTING  
DISC**



**BRANCH  
DIAMETER  
23 CM**

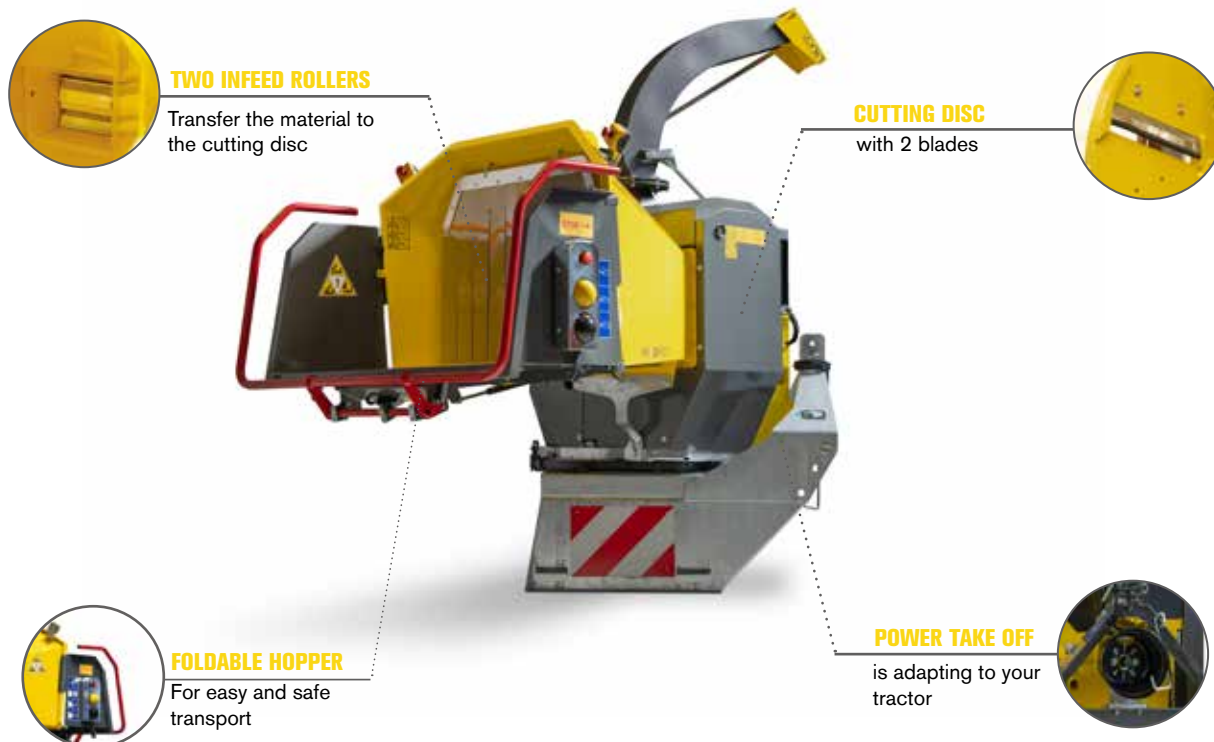
## SET UP YOUR PTO MACHINE

The question of PTO power arises long before you buy your machine, and remains essential throughout its life for efficient operations use of your machine. There are a few important points to keep in mind before and during use:

- The difference between engine power and PTO output power.
- Always check the PTO setting when using the machine for the first time, even if it is set at the factory.
- Make sure that PTO shafts are compatible with the machine.
- If necessary, perform the check ups regularly during coupling and uncoupling.







**MOTORIZATION**  
**PTO**






	10PTO	15PTO	18PTO	20PTO	20PTOT	23PTO	23PTOT
<b>POWER TAKE-OFF</b>	PTO 540 R/min	PTO 540 R/min	PTO 540 R/min	PTO(T) 1000 R/min		PTO 1000 R/min	
<b>CUTTING DISC DIAMETER (mm)</b>	450	560	670	900		900	
<b>CUTTING DISC WEIGHT (kg)</b>	49	50	92.5	218		218	
<b>FEED ROLLER WIDTH (mm)</b>	200	160	215	310		310	
<b>FEED ROLLER DIAMETER (mm)</b>	140	140	140	240		240	
<b>ROTATING DISCHARGE CHUTE (°)</b>	270	270	270	270		270	
<b>HOPPER DIMENSIONS T x W (mm)</b>	1500 x 700	1500 x 965	1530 x 1080	1500 x 1290		1500 x 1290	
<b>LOADING HOPPER HIGHT (mm)</b>	630	630	700	870		870	
<b>REFERENCE</b>	WS10PTO	WS15PTO	WS18PTO	WS20PTO	WS20PTOT	WS23PTO	WS23PTOT
<b>MAINTENANCE KIT</b>	KITWS10PTO	KITWS15PTO	KITWS18PTO	KITWS20PTO	KITWS20PTOT	KITWS23PTO	KITWS23PTOT

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# TECHNICAL DATA

## WOOD CHIPPERS WITH CHASSIS

	WS/160P	WS/18 D	WS/18 DT	WS/20 DT LINE	WS/23 DT	
						
Reference	WS160P	WS18D	WS18DT	WS20DTLINE	WS23DT	
Branch Diameter (cm)	16	18	18	20	23	
Motor/Engine	KOHLER EFI 38 hp / 28,3 kW	KUBOTA V1505 25 hp / 18,5 kW	KUBOTA V1505 25 hp / 18,5 kW	KOHLER V KDI 1903 56 hp / 42 kW	KOHLER KDI 2504TCR 75 hp / 55,4 kW	
Engine Capacity (cm³) - Number of Cylinders	999 cm³ / 2-Cyl.	1498 cm³ / 4-Cyl.	1498 cm³ / 4-Cyl.	1861 cm³ / 3-Cyl.	2482 cm³ / 4-Cyl.	
Fuel	petrol	diesel	diesel	diesel	diesel	
Clutch	motor base	freewheel	freewheel	freewheel	freewheel	
Covering	metal safety case	polyester resion safety case	polyester resion safety case	polyester resion safety case	polyester resion safety case	
Diameter of the cutting disc (mm)	510	670	740	900	900	
Weight of the cutting disc (kg)	50	92.5	142	218	218	
Blades	2	2	2	2	2	
Feed roller	2	2	2	2	2	
Width of the feed roller (mm)	240	215	245	310	310	
Diameter of the feed roller (mm)	245	140	140	240	240	
Number of axles	1	1	1	1 or 2 (optional)	2	
Dimensions of tyres	155/70 R13	165R13	225/55 R12C	205R14C / 185R14C	185 R14C	
Fuel tank capacity (l)	17 l	30 l	20 l	50 l	50 l	
Consumption	4,3 l/h	3,9 l/h	3,9 l/h	4,1 l/h	5 l/h	
Discharge chute	270°	270°	270°	270°	270°	
Height discharge chute (mm)	2440	2300	2500	2680	2680	
Turnable tower	-	-	270°	270°	270°	
Weight of the machine (kg)	704	1085	1330	1990	2340	
Total weight permitted on the chassis (kg)	75	110	1350	2000 oder 2200	2400	
Dimension of the hopper T x W (mm)	1530 x 1075	1530 x 1080	1530 x 1080	1540 x 1290	1540 x 1290	
Loading Height hopper (mm)	700	700	700	870	870	
L x W x H Working position (mm)	3950 x 1400 x 2470	4000 x 1560 x 2530	4000 x 1630 x 2555	4800 x 2000 x 2760	4900 x 1960 x 2680	
L x W x H Dimension of working-transport (mm)	3550 x 1400 x 2470	3485 x 1560 x 2530	3495 x 1630 x 2555	4295 x 2000 x 2760	4330 x 1960 x 2680	
Shim / upright unit	series / series	series / series	series / series	series / series	series / series	



WOOD CHIPPERS - PTO						WOOD CHIPPER ON TRACKS CHASSIS
	WS/10 PTO	WS/15 PTO	WS/18 PTO	WS/20 PTO WS/20 PTOT	WS/23 PTO WS/20 PTOT	WS/18 D R-TK
						
	WS10PTO	WS15PTO	WS18PTO	WS20PTO WS20PTOT	WS23PTO WS23PTOT	WS18DR-TK
	15	15	18	20	23	18
	PTO power (max. permitted) 60 hp	PTO power (max. permitted) 60 hp	PTO power (max. permitted) 70 hp	PTO power (max. permitted) 80 hp	PTO power (max. permitted) 80 hp	KUBOTA V1505 25 hp / 18,6 kW
	required speed 540 R/min	required speed 540 R/min	required speed 540 R/min	required speed 1000 R/min required speed 540 R/min	required speed 1000 R/min required speed 540 R/min	1498 cm <sup>3</sup> / 4-Cyl.
	-	-	-	-	-	diesel
	-	-	-	-	-	freewheel
	metal safety case	metal safety case	metal safety case	metal safety case	metal safety case	polyester resin safety case
	450	560	670	900	900	670
	49	50	92.5	218	218	92.5
	2	2	2	2	2	2
	2	2	2	2	2	2
	200	160	215	310	310	215
	140	140	140	240	240	140
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	35 l
	-	-	-	-	-	3,9 l/h
	270°	270°	270°	270°	270°	270°
	2000	2000	2000	2550	2550	2520
	-	-	-	270° in model - 20PTOT	270° in model - 23PTOT	-
	390	550	590	1100 - 20PTOT = 1300	1100 - 23PTOT = 1300	1800
	-	-	-	-	-	-
	1500 x 700	1500 x 965	1530 x 1080	1500 x 1290	1500 x 1290	1530 x 1080
	700	630	700	870	870	700
	1800 x 800 x 1930	1600 x 1200 x 2100	1700 x 1400 x 2500	3000 x 1560 x 2600	3000 x 1560 x 2600	3100 x 1575 x 2500
	1800 x 800 x 1930	1600 x 1200 x 2100	1700 x 1400 x 2500	3000 x 1560 x 2600	3000 x 1560 x 2600	3100 x 1575 x 2500
	-	-	-	-	-	-



[ts-industrie.eu](https://ts-industrie.eu)





# CONTACT

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All technical data, dimensions and weights are subject to change.  
Some of the illustrations show additional equipment.

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