FERRI®

SIMPLY. THE MOWER

FRONT MOUNT REACH MOWERS

FRONT MOUNT STRADDLE MOWER

TST
TSF
SKI

FERRI

SIMPLY. THE MOWER

TST 50

FRONT MOUNT REACH MOWER

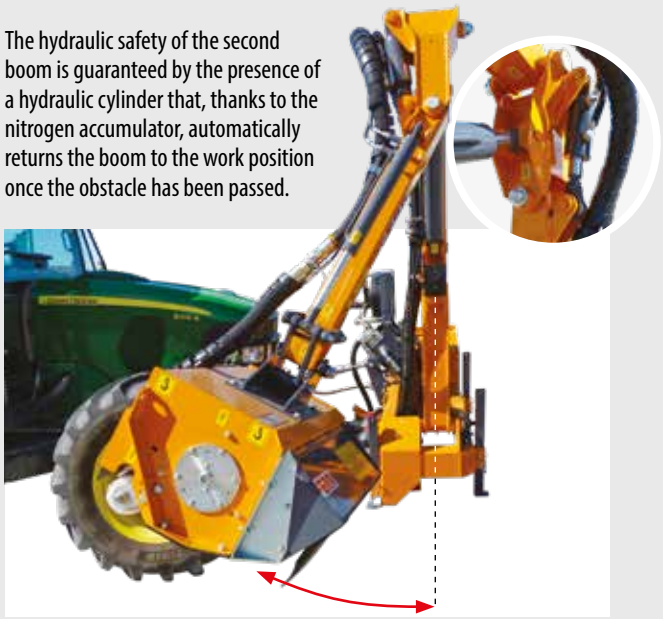
*The Ferri front reach mower boom **TST50** was created specifically to be used on tractors with a front power take-off and lifter. Construction in high-quality steel ensures that the boom is extra sturdy while limiting its weight.*

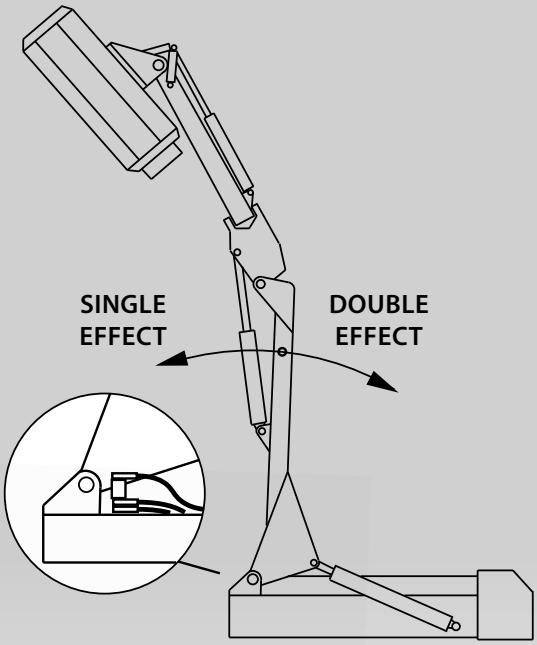
Thanks to its special design, the mowing boom ensures the operator has perfect visibility, both in the transport position and in the various working positions. Two pumps with cast iron gear motors powered by the front PTO of the tractor ensure the proper speed of the rotor on the flail head and the movement of the hydraulic cylinders.
All tool functions are controlled by a mono-lever joystick.
The mower boom is also equipped with a safety system, found on the 2nd boom, with a hydraulic breakaway controlled by a nitrogen accumulator and an automatic return function. To ensure the hydraulic oil does not overheat, including when completing heavy, prolonged jobs, the heat exchanger comes complete with a thermostat.

35 HP ROTOR POWER
45 HP HYDRAULIC MOTOR POWER MAX

Hydraulic safety of the second boom

The hydraulic safety of the second boom is guaranteed by the presence of a hydraulic cylinder that, thanks to the nitrogen accumulator, automatically returns the boom to the work position once the obstacle has been passed.





Double effect device

The movement of the equipment's first boom takes place through a simple-effect cylinder in order to ensure the head is not crushed on the ground.

For vertical jobs (cutting hedges or branches, etc., not resting on the ground), the automatic hydraulic system changes the functionality from simple to double-effect, thereby ensuring maximum stability and operative precision of the boom.

Perfect visibility when moving

The special shape of the booms makes it possible to position the equipment in a way that is extremely compact, so as not to block visibility when moving. This solution makes it possible to drive on roads in complete safety.

Nitrogen accumulators

This model includes two nitrogen accumulators. The first ensures the suspension of the head, making it possible to follow the curvature of the ground. The second ensures maximum protection of the boom in case of obstacles and, once they have been passed, it returns the boom to the work position.

Heat exchanger

The TST50 is equipped with a standard air-oil heat exchanger with a thermostat which makes it possible for the operator to use the boom optimally, as it is activated and deactivated.
This feature reduces the energy used and maintains the proper temperature of the hydraulic oil.

Dual-speed electric control

The DS-Tronic Dual control: allows easy portability of the control in the cab thanks to a lightweight joystick and the absence of hydraulic hoses.
The joystick is connected by an electric cable to a control unit mounted on the distribution valves.
The buttons on the display allow the START/STOP functions of the machine and the start/stop of the rotor. On each button there is an LED indicator showing whether the function is on or deactivated.
The joystick then controls head functions such as floating the rotation of the rotor and to keep the working hours under control of the machine itself.

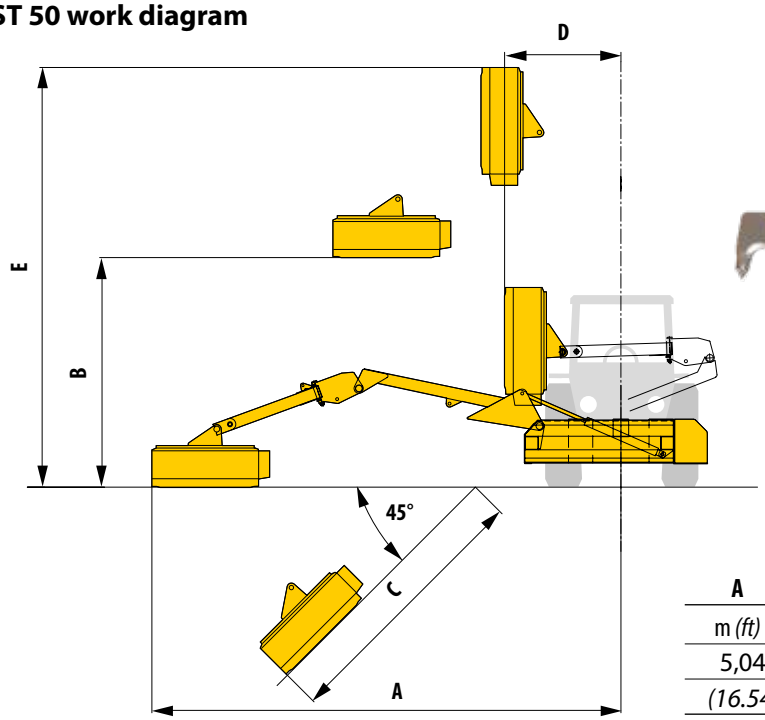
TI 120

SHREDDING FLAIL HEAD WITH A CAST IRON MOTOR		
Model	Kg	*lbs*
TI 120	210	*463*

CUTTING FLAILS				
Description	**Type**	**No. of flails**	**Ø cm**	***Ø in***
With dedicated rotor				
"Y" flails for: grass, shrubs, bushes, reeds, wood		44	3	*1.18*
Articulated "Y" flails for: grass, bushes		60	2	*0.79*

Model	m	*ft*	m	*ft*	HP	*kW*	m	*ft*	kg	*lb*
TST50	5,04	*16,54*	1,20	*3.94*	90 - 110	*67-75*	2.10	*6.89*	3,200	*7,055*

TST 50 work diagram



TR13 Hedge Cutter

Working width 1.3 meters
Max cutting diameter 8 cm

A	B	C	D	E
m *(ft)*	m *(ft)*	m *(ft)*	m *(ft)*	m *(ft)*
5,04	2,37	2,95	2,21	4,93
(16.54)	*(7.78)*	*(9.68)*	*(7.25)*	*(16.17)*

		TST 50
Boom weight (with flail head)	kg *(lb)*	910 *(2006)*
Power available to the rotor	HP	35
Max power of the hydraulic motor	HP	45
Maximum horizontal extension*	m *(ft)*	4,84 *(15.88)*
Transport width	m *(ft)*	2,20 *(7.22)*
Right side work		YES
Front PTO	Rpm	1000
ISO 2nd cat 3-prong universal hook-up		STD
Heat exchanger		STD
* From the tractor axle to the end of the shredding flail head		
SHREDDING FLAIL HEAD		**TI 120**
Working width	m *(ft)*	1,20 *(3.94)*
Rotation speed	Rpm	2800
Peripheral speed	m/sec *(ft/sec)*	60 *(197)*
Flail head rotation angle		190 °

FERRI®

SIMPLY. THE MOWER

TSF 600/600

TSF 600/600D

FRONT MOUNT REACH MOWER (Right and Left)

*The range of **Ferri TSF** front reach mower booms was designed to safely clean the edges of roads and escarpments with a reach up to 5.93 m high and 5.75 m from the tractor horizontally, in total comfort for the operator.*
*The applied working head measuring 1.25 m wide allows for elevated productivity with maximum efficiency and cut quality. For better weight distribution, in the **TSF 600 D** model, the tank and heat exchanger are attached to the rear of the tractor thanks to a three-point hitch.*

The special shape of the mower boom allows for a transport position that ensures the operator has perfect visibility.
Similarly, there is optimum visibility in the various work positions, right or left, always ensuring the maximum comfort of the operator.
The correct speed of the flail head rotor is ensured by the cast iron gear pump fed by PTO.
The mower boom comes with a safety system with a hydraulic shock-absorber controlled by the nitrogen accumulator that brings the boom automatically back to the work position.
The heat exchanger with a thermostat ensures the hydraulic oil does not overheat, even when in use during heavy or prolonged jobs.

52 HP ROTOR POWER
90 HP HYDRAULIC MOTOR POWER MAX

TSF 600

The TSF 600 model is characterised by the special shape of the boom, which ensures the operator can see perfectly during transport and in the various work positions, right or left, ensuring maximum comfort when working. The cast iron gear pump powered by front PTO makes it possible for the head's rotor to maintain proper rotation speeds at all times. The hydraulic cylinders on the boom are controlled by an independent hydraulic system. The equipment group is operated with a mono-lever joystick.

TSF 600 D

The TSF600D model is equipped with a rear frame to house the tank and the hydraulic component, the heat exchanger, the gearbox and pump unit, and a ballast kit to stabilise the vehicle.
This model is especially designed for lighter tractors as the distribution of the weight is more balanced across the front and back compared to the front-only version.

Electronic floating system (EFS)

Thanks to the exclusive EFS system, the shredding flail head can perfectly follow the curvature of the ground when active: the weight is transferred to the tractor, reducing friction during movement, making it possible to notably increase working speed in total safety.
The EFS system is particularly useful for prolonged, repetitive work sessions, with the possibility of disengagement should the working conditions change.

Locking the front axle

To mount the unit to the tractor, we recommend the installation on both sides of the two cylinders, connected to the proper plates with the front axle. After the extension of the mower boom, the device reduces the oscillation of the tractor, thereby increasing the operator's safety and the vehicle's stability. When in work mode, the blocking mechanism should be activated, then deactivated for driving on roads. Both operations can be carried out easily by using simple control commands.

180° rotation commands (right and left)

The TSF series can be operated both on the right and left sides; this is because of the 180° rotation of the boom column through the cylinder under the traverse slide. To be able to carry out the rotation, the turret must be positioned centrally above the slide. Completely extend the first boom, completely close the head rotation cylinder, and completely extend the second boom. Using the "roller" commands located on the control panel, start by completely opening the slewing cylinder. Using the inertia of the structure's movement, quickly use the rollers to close the slewing cylinder.

Sliding frame

The rotating boom-carrying turret is housed in a structural steel frame, designed specifically to encourage the free movement from right to left. The overall lateral movement, totalling 1745mm, is distributed evenly between the right and left sides ensuring maximum operative freedom. The lateral movement of the turret is facilitated by 8 bronze anti-friction sliding blocks, controlled through the buttons on the joystick that operate the orbital motor.

TSF 600 D

Kinematic booms

The first boom, entirely in a tubular frame, has one folded part. This special design improves the operator's visibility during the machine's transfer phase and makes it possible to reach and increase the working angle on escarpments. The unique shape of the second boom makes it possible to directly insert the hydraulic tubes within tubular frame. This solution offers protection from impact and ensures that the second boom does not require additional carters. The second boom, also in a tubular frame, is thus completely linear without points where the vegetation can get stuck. In all system configurations, the oil tubes which control the motor of the head on the upper part of the boom are made of steel.

That ensures:

- Simplified maintenance, when necessary.
- Greater heat dispersion to improve the overall efficiency of the system.

TSF600 characteristics

The mower boom is completely independent of the tractor thanks to the use of a dual pump.

The hydraulic system of the TSF 600 boom features high-power gears, equipped with:

- 'category 3' cast iron double pumps used, respectively for the circuit that moves the rotor and the services (a completely independent machine).
- HP (high performance), high-torque transmission gearbox in cast iron with helical gear teeth running at 1,000 rpm.

TSF600D characteristics

The tank and related parts (gearbox, pump, ballasts, etc.) of the TSF 600D mower boom are connected to the upper part of the tractor with a special frame.

Completely independent configuration with rear hydraulics.

The hydraulic system of the TSF 600 boom features high-power gears, equipped with:

- 'category 3' cast iron double pumps used, respectively for the circuit that moves the rotor and the services (completely independent machine).
- HP (high performance), high torque transmission gearbox in cast iron with helical gear teeth running at 540 rpm.

Proportional electrical control Two-section load sensing with CAN-bus technology: "Dual" SC TRONIC

The Dual SC (Speed Criteria) command makes it possible to select different functional criteria for the boom, based on the type of job to be completed.
The joystick is used to control the proportional functions of the first and second booms. Boom rotation and head angle are proportional functions controlled from the "roller" buttons on the joystick. The joystick also has buttons that control the floating function of the head.
In the section separated from the control console, buttons are used to operate the rotor, boom suspension, deactivation of the nitrogen accumulator for automatic return, and the EFS (Electronic Floating System) which suspends the head.

SC-Tronic Dual

CAN BUS

Visibility when moving

The special shape of the booms makes it possible to position the equipment in a way that is extremely compact, so as not to block visibility when moving. This solution makes it possible to drive on roads in complete safety.

TNH 125 NG

SHREDDING FLAIL HEAD WITH A CAST IRON MOTOR		
Model	Kg	*lbs*
TNH 125	315	*694*

CUTTING FLAILS				
Description	**Type**	**No. of flails**	**Ø cm**	***Ø in***
Interchangeable on the same rotor				
"Y" flails for: grass, shrubs, bushes, reeds, wood		44	4	*1.57*
With dedicated rotor				
Articulated flails for: grass: reeds, shrubs		60	2.5	*0.98*
With dedicated rotor				
Rotating two-way hammer blades for: wood		18	8	*3.15*

FF60 Ditch Cleaner

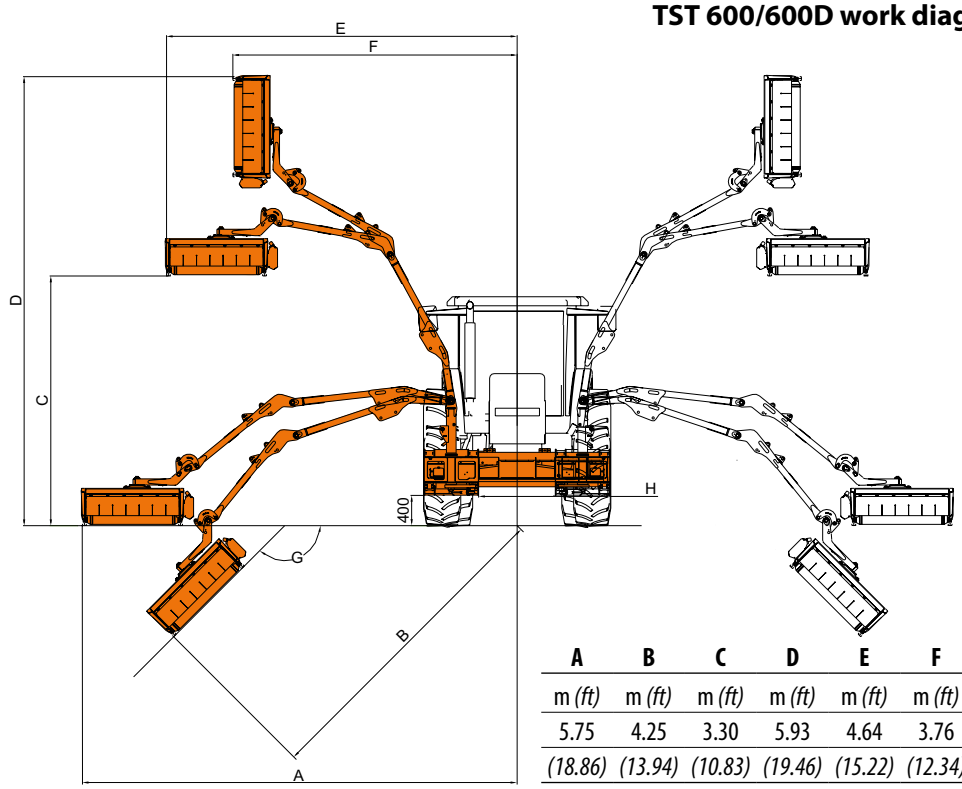
Working width 0.60m

TR13 Hedge Cutter

Working width 1.3 meters - Max cutting diameter 8 cm

Model	m	ft	m	ft	min HP	max kW	m MIN	ft	kg MIN	lb
TSF600	5.75	*18.86*	1.25	*4.10*	130 - 160	*97 - 119*	2.50	*8.20*	4,800	*10,582*
TSF600D	5.75	*18.86*	1.25	*4.10*	110 - 140	*82 - 140*	2.50	*8.20*	4,400	*9,700*

TST 600/600D work diagram



A	B	C	D	E	F	G	H
m *(ft)*	m *(ft)*	m *(ft)*	m *(ft)*	m *(ft)*	m *(ft)*	°	m *(ft)*
5.75	4.25	3.30	5.93	4.64	3.76	135°	1.75
(18.86)	*(13.94)*	*(10.83)*	*(19.46)*	*(15.22)*	*(12.34)*	*135°*	*(5.74)*

		TSF 600	TSF 600D
Boom weight (with head)	kg *(lb)*	1500 *(3307)*	2400 *(5291)*
Power available to the rotor	HP	52	54
Max power of the hydraulic motor	HP	90	75
Maximum horizontal extension*	m *(ft)*	5.75 *(18.86)*	5.75 *(18.86)*
Transport width	m *(ft)*	2.50 *(8.21)*	2.50 *(8.21)*
Side movement	mm *(In.)*	1745 *(68.70)*	1745 *(68.70)*
Working on the right and left		YES	YES
Front PTO	Rpm	1000	
Rear PTO	Rpm		540
ISO 2nd cat 3-prong universal hook-up			STD
Group 3 coupling plate		STD	
Group 5 coupling plate		OPT	
Heat exchanger		STD	STD

* From the tractor axle to the end of the shredding flail head

SHREDDING FLAIL HEAD		TNH 125
Working width	m *(ft)*	1.25 *(4.11)*
Rotation speed	Rpm	3000
Peripheral speed	m/sec *(ft/sec)*	60 *(197)*
Flail head rotation angle		190 °

FERRI

SIMPLY. THE MOWER

SKI DX/DX-SX

FRONT MOUNT STRADDLE MOWER

The front straddle mowers of the SKI series have been designed and built to cut grass on the shoulders of streets and highways, especially where there are guard rails, plastic bollards, and plants. The external column can be completely raised to easily avoid obstacles, without stopping the movement of the tractor.

A safety system immediately stops the outer cutting disc once the column is raised, without interrupting the cutting action of the inner disc.
With a three front mounting points, the SKI range can be used on tractors with front PTOs and lifters. The frame is composed of a trapezoid shaped tubular structure with a laterally-placed rotation pin for the flail apparatus. The hydraulic circuit is independent with a pump and geared motors. The position of the cutting discs can be adjusted according to the needs of the job, depending on the shape and placement of the guard rail.

26 HP ROTOR POWER
40 HP HYDRAULIC MOTOR POWER MAX

SKI - DX Version

The SKI DX model makes it possible to always work on the right side of the tractor, precisely mowing the grass along roadsides, junctions and intersections.

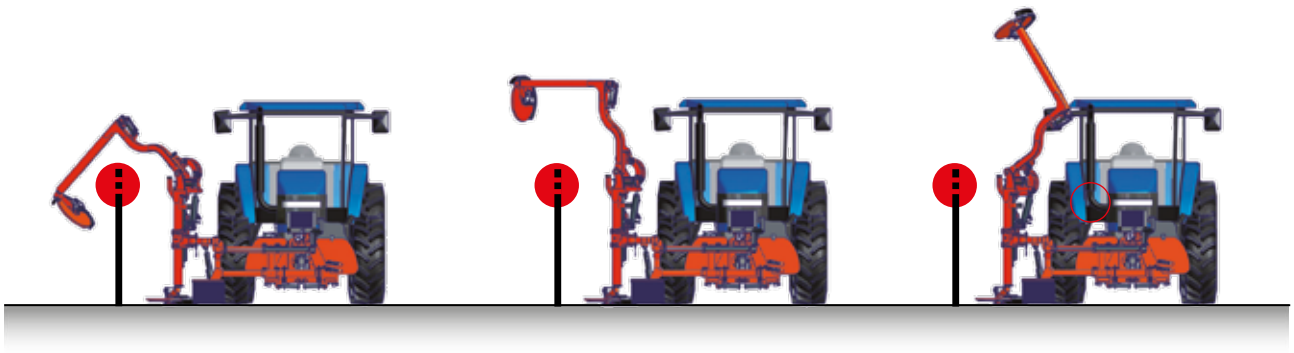
SKI - DX/SX Version

Designed for tractors with a lifter and front PTO, characterised by a structure with a central pin around which the cutting device rotates.
This movement makes it possible to cut under guard rails on both the right and left side of the tractor.

Obstacle avoidance system

The external column can be completely lifted in order to pass or avoid obstacles such as traffic signs along the side of the road, trees, branches, etc. without having to stop the tractor or manoeuvre it around the obstacle.

A safety system immediately stops the outer cutting disc once the column is raised, without interrupting the cutting action of the inner disc.



Self-levelling system for the cutting discs

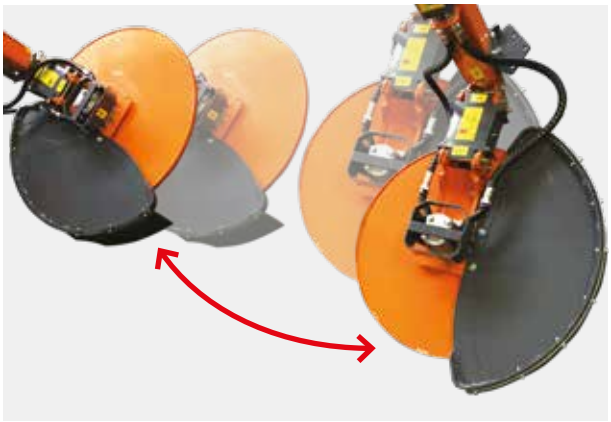
The cutting disc is connected to the columns through a mechanical parallel system with a 15cm range, which makes it possible to follow the curvature of the ground.

Vertical shifting of the cutting apparatus.

In order to adjust the position of the cutting device with respect to the ground, the internal column can be shifted by 35cm.

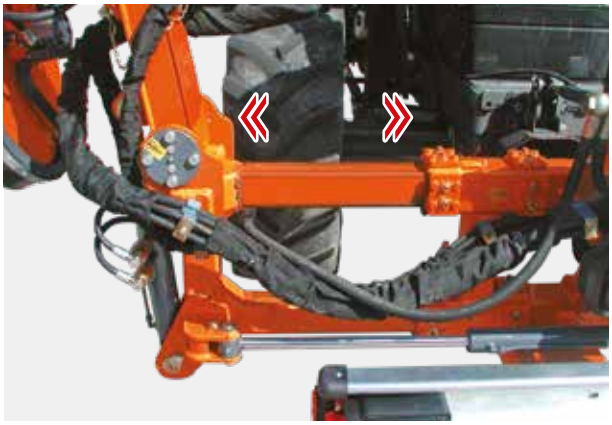
Opening and closing the cutting disc apparatus

Opens upon contact with an obstacle through a mechanical servo system and closes after the obstacle has been passed with an automatic electro-hydraulic command. It is possible to open the two discs to the max position through a hydraulic command in order to pass an obstacle when in operation and to facilitate the entry of the guard rail when starting the job.



Lateral shifting

The 55cm telescopic lateral movement range, via an electronically-controlled hydraulic cylinder, makes it possible to laterally position the cutting apparatus.



Visibility when moving

The special shape of the booms makes it possible to position the equipment in a way that is extremely compact, so as not to block visibility when moving. This solution makes it possible to drive on roads in complete safety.

Working safety

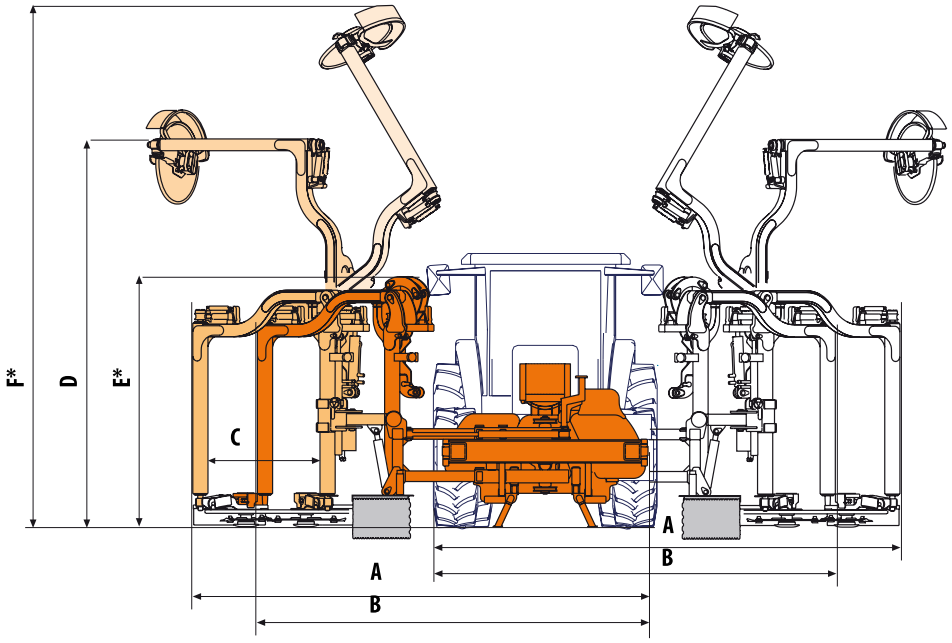
- Blade rotation locking via a lock valve.
- Automatic blade stop should the apparatus exceed a rotation angle of 30°.
- Cutting discs with with debris guards.
- In order to ensure greater protection against hurled debris, SKI models come with additional rubber guards which protect the entire area towards the central carriageway of the road.

Blower SE 31

Air flow
90m² per min
Suction from 300mm
7-blade suction body

Model	m	ft	min HP	max kW	m MIN.	ft	kg MIN.	lb
SKI DX	1.25	*4.10*	80 - 110	*79 - 108*	2.20	*7.22*	3200	*7055*
SKI DX - SX	1.25	*4.10*	90 - 110	*89 - 108*	2.20	*7.22*	3200	*7055*

DX / DX-SX work diagram



SKI DX

A	B	C	D
m *(ft)*	m *(ft)*	m *(ft)*	m *(ft)*
4.10	3.55	0.96	3.29
13.45	*11.65*	*3.15*	*10.79*

E*: Max. 2,61 m *(8.56 ft)*
Min. 1,94 m *(6.37 ft)*
F*: Max. 4,98 m *(16.34 ft)*
Min. 4,31 m *(14.14 ft)*

SKI DX - SX

A	B	C	D
m *(ft)*	m *(ft)*	m *(ft)*	m *(ft)*
3.85	3.30	0.96	3.30
12.63	*10.83*	*3.15*	*10.83*

E*: Max. 2.56 m *(8.40 ft)*
Min. 1.89 m *(6.20 ft)*
F*: Max. 5.00 m *(16.40 ft)*
Min. 4.33 m *(14.21 ft)*

		SKI DX	SKI DX - SX
Max cutting width	mm *(in)*	1200	1200
Portal width	mm *(in)*	940	940
Tank capacity	L	150	150
Hydraulic oil	L	165	165
Blade rotation	Rpm	2850	2850
Front PTO	Rpm	1000	1000
Weight	kg *(lb)*	980	1150

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Stocker-Crew
sales@stockercrew.com.au
www.stockercrew.com.au
(02) 4954 8900