



IXION

CATEGORY: Landscape/Forestry WORKING WIDTH (m): 1.00 - 2.00

MORE DETAILS www.lagarde-sas.fr

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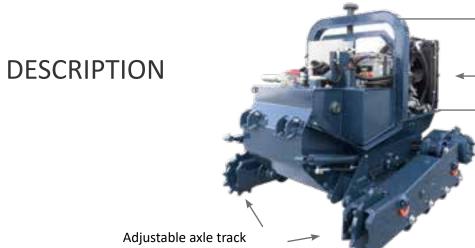
Which robot **FOR WHICH USE?**

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Application	IXION 25	IXION 35	IXION 40	IXION 50	IXION 50 ^{PLUS}	IXION 60	IXION 75
Grass: maintenance and scrub clearance	•	•	•	•	•	•	•
Semi-forestry: thick branches, scrub clearance and heavy-duty jobs	_	•	•	•	•	•	•
Forestry: deforestation, forestry roads, tree stumps and very high vegetation	_	-	•	•	•	•	•

Carrier	IXION 25	IXION 35	IXION 40	IXION 50	IXION 50 ^{PLUS}	IXION 60	IXION 75
Power (HP/kW)	25 / 18,6	35 /26	44 /32	49 /36	49 /36	60 /45	75 /55
Manually adjustable expandable tracks	-	2x15	2x25	2x25	-	-	-
Hydraulically adjustable expandable tracks	-	-	-	-	2x25	2x25	2x40
Carrier weight (kg)	520	930	1100	1110	1400	1450	2200

Shredding unit		IXION 25	IXION 35	IXION 40	IXION 50	IXION 50 ^{PLUS}	IXION 60	IXION 75
Grass	Working width (m)	1,00	1.30 – 1.50	1.30 – 1.50	1.30 – 1.50	1.30 – 1.50	1.50	2.00
Grass	Weight (kg)	160	240/280	240/280	240/280	240/280	280	420
Semi-	Working width (m)	_	_	1.20	1.20	1.20	1.20 - 1.40	1.65
forestry	Weight (kg)	_	_	340	340	340	340/400	450
Favortu.	Working width (m)	_	_	1.25	1.25	1.25	1.25	1.50
Forestry V	Working width (m)	_	_	480	480	480	480	580





Chassis-integrated safety roll bar maintains balance when lifting the machine

Radiators with unclogging feature

Diesel engine

Closed circuit radial piston engine for forward travel

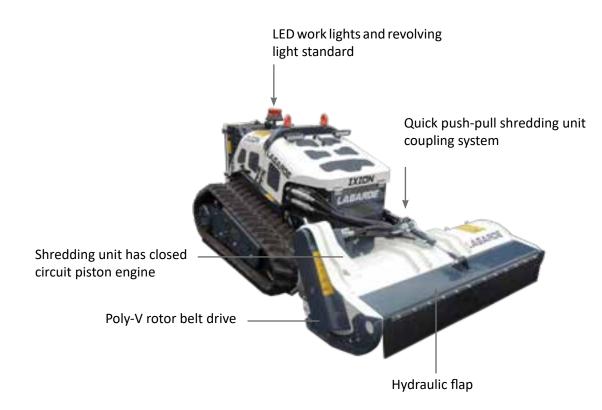
(hydraulic on IXION 50^{PLUS}, 60 and 75)

Reinforced steel shredding unit

Ground following roller + skids and float system

> Tracks with hydraulic crawler tensioning and system to prevent detracking

Debris prevented from entering by the engine housing and cowlings Track locking system





HYDRAULIC FLOAT

The IXION's shredding unit is equipped with a FLOAT system to follow all unevenness of the ground perfectly and gently. Once the unit's ideal position has been set, horizontal following of the work area will continue thanks to a nitrogen ball that maintains the pressure on the soil at the required level.

FLOAT for better ground following

TRACKS

Rubber HIGH GRIP spikes for working on mixed terrain

Rubber EXTREME GRIP tread with steel inserts



Even higher!

EXTREME GRIP fitted with steel spikes





COMPACT AND MANOEUVRABLE

The IXION 25 is packed with power in a compact format that is simple to transport and service. It is particularly suitable for landscaped urban sites, the upkeep of private and public properties and forest roads. The petrol-driven engine drives two orbital forward-drive motors and the shredder head closed circuit's piston pump. The IXION 25 develops a maximum torque of 54.5 Nm at 2500 rpm and is fuel efficient.



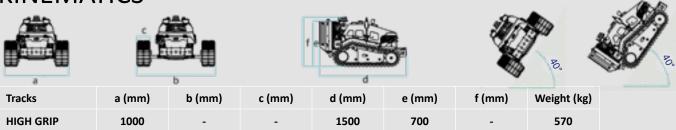
THE STANDARD ESSENTIALS

- Petrol-driven engine
- Reversible electric fan
- · Robot fully housed to limit ingress of debris
- Quick push-pull shredding unit coupling system for versatility
- · Grease track tensioning
- Hydraulic float adjusts to the type of cutting head mounted
- Sturdy chassis-integrated safety roll bar for lifting the IXION
- Shredding unit with hydraulic flap
- IMET radio remote control with screen, with 100-metre range



ENGINE

Make	No. of cylinders	Power	Displacement	Intake	Fuel capacity	Maximum slope
Honda	2	25 HP	779 cm3	Atmospheric	17 L	40°





STURDY AND NIMBLE

The IXION 35 is a highly-manoeuvrable, compact, sturdy tool carrier that stands out from its rivals because of its high versatility. Its compact contours make it suitable for work in formal parkland as well as mountain logging contexts. The 35-HP Yanmar diesel engine drives the two piston pumps of the closed circuit forward drive, the shredding unit, and the servo gear pump. It develops maximum power of 44 Nm at 1800 rpm. The two types of tracks available are maintained by a system comprising eight runner bearings and a hydraulic tensioning system to prevent detracking.



THE STANDARD ESSENTIALS

- Diesel-driven thermal engine
- FLEXXAIRE reversible fan
- Mechanically adjustable axle track (+30 cm)
- Robot fully housed to limit ingress of debris
- LED work lights and revolving light standard
- Automatic hydraulic track tensioning
- Hydraulic float adjusts to the type of cutting head mounted
- Sturdy chassis-integrated safety roll bar for lifting the IXION
- Shredding unit with hydraulic flap
- SCANRECO radio remote control with screen for easy use

ENGINE

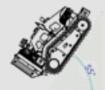
Make	No. of cylinders	Power	Displacement	Intake	Fuel capacity	Maximum slope
Yanmar	3	35 HP	1331 cm ³	Atmospheric	21 L	55°











Tracks	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	f (mm)	Weight (kg)
HIGH GRIP	1370	1670	280	1865	975	1065	950



AGILE AND FAST

The IXION 40 is a tool carrier with a 44-HP Perkins turbocharged diesel engine. Its new Stage V, low CO2 emission Yanmar engine enables it to work in a fuel-efficient manner on difficult sites. It drives the two piston pumps of the closed circuit forward drive, the shredding unit, and the servo gear pump. It develops maximum power of 124 Nm at 1900 rpm. The THE STANDARD ESSENTIALS



THE STANDARD ESSENTIALS

- Stage V diesel-driven thermal engine
- FLEXXAIRE reversible fan
- Mechanically adjustable axle track (+30 cm)
- · Robot fully housed to limit ingress of debris
- LED work lights and revolving light standard
- Shredding unit with quick coupling and hooking system
- Hydraulic float adjusts to the type of cutting head mounted
- Sturdy chassis-integrated safety roll bar for lifting the IXION
- Shredding unit with hydraulic flap
- SCANRECO radio remote control with screen for easy use

ENGINE

Make	No. of cylinders	Power	Displacement	Intake	Fuel capacity	Maximum slope
Yanmar	3	44 HP	1568 cm ³	Turbocharged	24 L	55°











Tracks	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	f (mm)	Weight (kg)
HIGH GRIP	1370	1670	280	1940	1050	1065	1110
EXTREME GRIP	1320	1620	230	1940	1050	1065	1115



RUGGED AND RESPONSIVE

The IXION 50 develops more power without additional bulk to take on the most difficult tasks in its stride. It can be fitted with a fixed hammer forestry shredding head with reel arms for forestry maintenance. It develops maximum power of 166 Nm at 1400 rpm. The two types of tracks available are maintained by a system comprising eight runner bearings and a hydraulic tensioning system to prevent detracking.



THE STANDARD ESSENTIALS

- Stage V diesel-driven thermal engine
- FLEXXAIRE reversible fan
- Full housing with armoured shell
- LED work lights and revolving light standard
- Shredding unit with quick coupling and hooking system
- Hydraulic float adjusts to the type of cutting head mounted
- Sturdy chassis-integrated safety roll bar for lifting the IXION
- Shredding unit with hydraulic flap
- SCANRECO radio remote control with 150-m range

ENGINE

Make	No. of cylinders	Power	Displacement	Intake	Fuel capacity	Maximum slope
Perkins	3	49 HP	1662 cm ³	Turbocharged	24 L	55°











Tracks	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	f (mm)	Weight (kg)
HIGH GRIP	1360	-	280	1940	1050	1181	1110
EXTREME GRIP	1310	-	230	1940	1050	1181	1115



EFFICIENT AND PRODUCTIVE

The IXION 50^{PLUS} is the most versatile cutting head carrier in the range. It can access in unforgiving sites and work efficiently thanks to its hydraulically adjustable axle tracks, with independent radio control of each track.

It develops maximum power of 166 Nm at 1400 rpm and is fuel-efficient. Performance is ensured whatever the terrain by fitting either HIGH GRIP or EXTREME GRIP track types with steel inserts and the possibility of adding spikes.

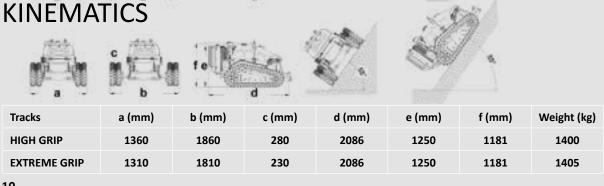


THE STANDARD ESSENTIALS

- Stage V diesel-driven thermal engine
- Hydraulic power with generous oil capacity (50 L)
- FLEXXAIRE reversible fan
- Radio-controlled hydraulically adjustable axle track (+ 50 cm)
- Full housing with armoured shell
- LED work lights and revolving light standard
- Shredding unit with quick coupling and hooking system
- Hydraulic float adjusts to the type of cutting head mounted
- Sturdy chassis-integrated safety roll bar for lifting the IXION
- · Shredding unit with hydraulic flap
- SCANRECO radio remote control with 150-m range

ENGINE

Make	No. of cylinders	Power	Displacement	Intake	Fuel capacity	Maximum slope
Perkins	3	49 HP	1662 cm ³	Turbocharged	29 L	55°





POWERFUL AND HIGH-PERFORMANCE

The IXION 60's high power makes for very high site throughput rates. The 60-HP 4-cylinder turbocharged Perkins diesel engine drives the three piston pumps of the closed circuit forward drive, the shredding unit, and the servo gear pump. It develops maximum power of 222 Nm at 1600 rpm.



THE STANDARD ESSENTIALS

- Stage V PERKINS thermal engine
- Hydraulic power with generous oil capacity (50 L)
- FLEXXAIRE reversible fan
- Radio-controlled hydraulically adjustable axle track (+ 50 cm)
- Full housing with armoured shell
- LED work lights and revolving light standard
- Shredding unit with quick coupling and hooking system
- Automatic hydraulic track tensioning
- Hydraulic float adjusts to the type of cutting head mounted
- Sturdy chassis-integrated safety roll bar for lifting the IXION
- Shredding unit with hydraulic flap
- SCANRECO radio remote control with screen for easy use

ENGINE

Make	No. of cylinders	Power	Displacement	Intake	Fuel capacity	Maximum slope
Perkins	4	60 HP	2200 cm ³	Turbocharged	31 L	55°











Tracks	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	f (mm)	Weight (kg)
HIGH GRIP	1360	1860	280	2280	1290	1290	1450
EXTREME GRIP	1310	1810	230	2280	1290	1290	1455



ULTRA-POWERFUL AND RESILIENT

It is strong in every way and is geared to carrying out the most difficult jobs such as forestry or clearance work. The IXION 75 is the most reliable tool-carrier and is capable of completing the harshest tasks. The 75-HP turbocharged Perkins diesel engine drives the three piston pumps of the closed circuit forward drive, the shredding unit, and the servo gear pump.

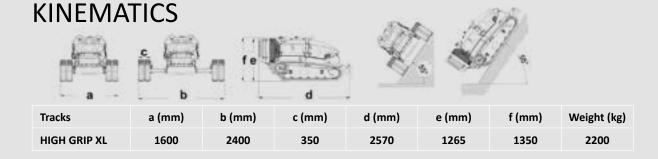


THE STANDARD ESSENTIALS

- Stage V PERKINS diesel-driven thermal engine
- Hydraulic power with generous oil capacity (72 L)
- FLEXXAIRE reversible fan
- Radio-controlled hydraulically adjustable axle track (+ 80 cm)
- Full housing with armoured shell
- LED work lights and revolving light standard
- Shredding unit with quick coupling and hooking system
- Automatic hydraulic track tensioning
- Guaranteed not to detrack thanks to its wide tracks fitted with 14 runner bearings
- Hydraulic float adjusts to the type of cutting head mounted
- Sturdy chassis-integrated safety roll bar for lifting the IXION
- Shredding unit with hydraulic flap
- SCANRECO radio remote control with screen for easy use

ENGINE

Make	No. of cylinders	Power	Displacement	Intake	Fuel capacity	Maximum slope
Perkins	4	75 CV	2200 cm³	Turbocompressé avec intercooler	39 I	55°





SHREDDING UNITS

IXION shredding units are manufactured using the best high yield high tensile steel and are equipped with a hydraulic flap, wide skids and a roller with removable ends, both height adjustable. The semi-forestry and forestry units are fitted with reel arms.



GRASS MOWING UNIT

Maintenance and scrub clearance.





l locit	Width	No. of	Weight				Carrier			
Unit	(mm)	Y-blades	(kg)	IXION 25	IXION 35	IXION 40	IXION 50	IXION 50PLUS	IXION 60	IXION 75
	1000	36	160	•	-	_	-	_	-	-
CDACC	1300	48	240	-	•	•	•	•	-	-
GRASS	1500	56	280	_		•		•	•	_
	2000	56	420	-	-	_	-	_	-	•



SEMI-FORESTRY UNIT

Thick branches, scrub clearance and heavy-duty jobs. The rotor and cages are manufactured using Hardox.



l l mit	Width (mm)		Weight				Porteur			
Unit	(mm)	hammers	(kg)	IXION 25	IXION 35	IXION 40	IXION 50	IXION 50 ^{PLUS}	IXION 60	IXION 75
	1200	22	370	-	-	•	•	•	•	_
SEMI- FORESTRY	1400	26	400	-	_	-	-	_	•	_
	1650	26	450	-	_	-	-	-	-	•



FORESTRY UNIT

Deforestation, forestry roads, tree stumps and very high vegetation. It is equipped with strengthened tines, a helical alternator, a BOSCH REXROTH piston engine and an integrated anti-cavitation valve, removable counterblades and driven by 4 VHP belts.



Reversible hammer



Strengthened hammer

l lmit	Width	No. of fixed	Weight		Porteur									
Unit	(mm)	hammers	(kg)	IXION 25	IXION 35	IXION 40	IXION 50	IXION 50 ^{PLUS}	IXION 60	IXION 75				
FORECTRY	1250	32	480	-	-	•	•	•	•	_				
FORESTRY	1500	38	580	-	_	_	_	_	_	•				

WINCH

The IXION winch secures the machine for moving to hazardous sites. With its steel 3-stage planetary gearbox, it can be used with up to 5900 kg of high load capacity traction power on a horizontal plane. It is weather-proof, making it ideal for all driving conditions and all terrains.

Model	Control	Motor (HP)	Brakes	Cable	IXION 25	IXION 35	IXION 40	IXION 50	IXION 50 ^{PLUS}	IXION 60	IXION 75
Standard	Radio	6	*	24 m	-	-	•	•	•	•	•
Reinforced chassis	control	6	action	Ø9,4 mm	-	-	•	•	•	•	•





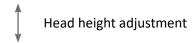


RADIO REMOTE CONTROL



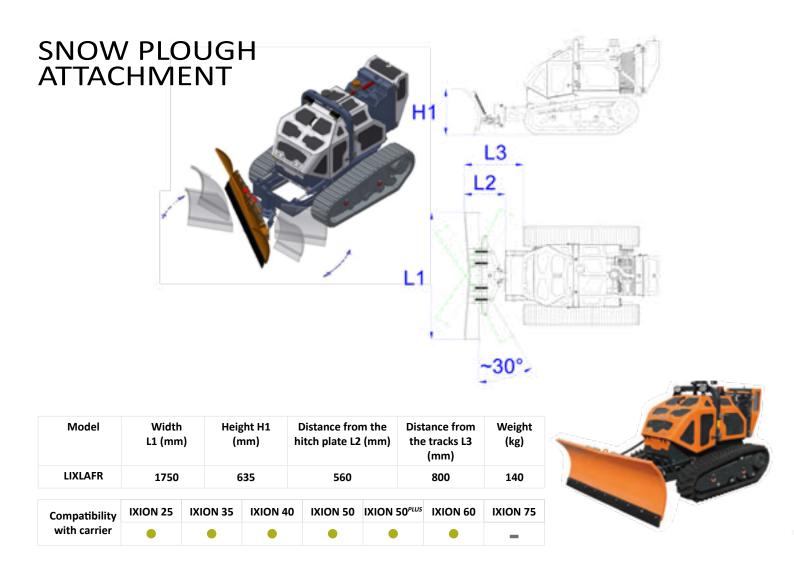
- 1. Forward/rear proportional drive joystick
- 2.

 R/L track steering

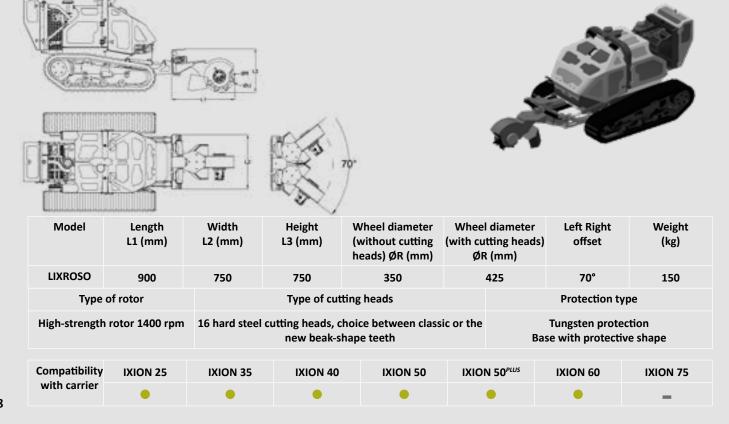


- 3. Robot tilt indication
- 4. Maximum speed adjustment potentiometer
- 5. Potentiometer supplying more or less one track for working on a camber
- 6. Forward/rear and R/L movement toggle selector
- 7. Left track gauge change (IXION 50 only)
- 8. Right track gauge change (IXION 50 only)
- 9. Rotor activation for mowing or scrub clearance
- 10. Horn
- 11. Travel mode selection, the engine rating adapts to the forward speed
- 12. Machine and remote control emergency stop
- 13. Activation of the revolving light
- 14. Declogging of radiator and selection of auxiliary distributor
- 15. Increase/decrease the diesel engine speed
- 16. Start/stop the diesel engine
- 17. Activation of the float
- 18. Activate the LED work lights

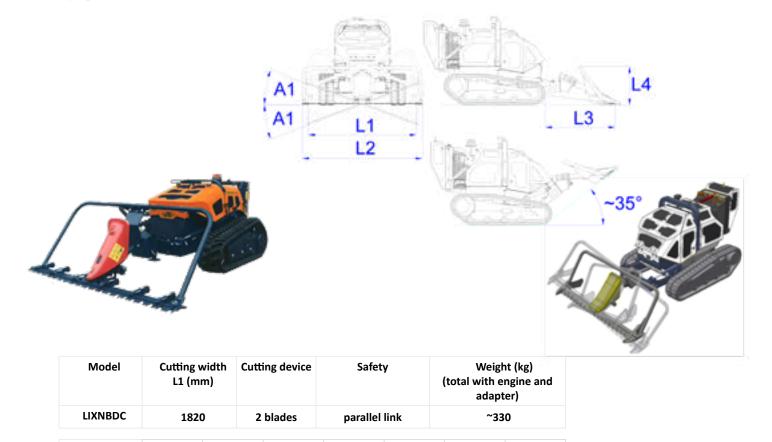




STUMP GRINDER



CUTTER BAR



IXION 50 IXION 50PLUS

IXION 60

IXION 75

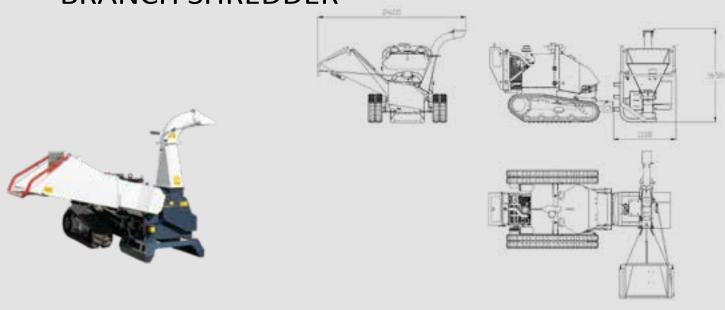
Compatibility with carrier

BRANCH SHREDDER

IXION 25

IXION 35

IXION 40

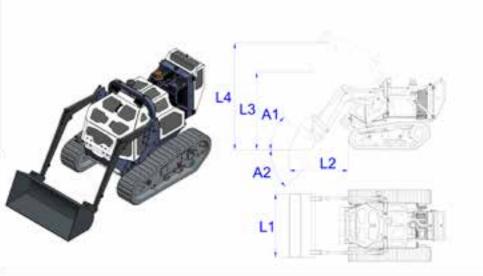


Model	Cutting diameter (mm)	Intake height (mm)	Discharge height (mm)	Dimensions of opening (mm)	Outlet dimensions (mm)	No. of hammers	No. of blades	Hourly throughput
LIXHSCV	90	1000	1550	700x720	160x200	8	2	7 m³/h
Compatibility	IXION 25	IXION 35	IXION 40	IXION 50	IXION 50 ^{PLUS}	IXIO	N 60	IXION 75
with carrier	•	•	•	•	•			•

^{*} lighter model

LOADER WITH BUCKET

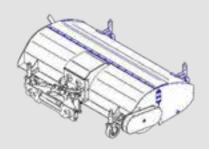


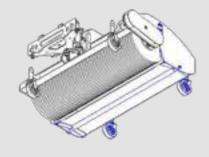


Model	Width L1 (mm)	Distance from the tracks L2 (mm)	Max. height L3 (mm)	Boom height L4 (mm)	Rotation angle A1	Bucket rotation angle A2	Bucket capacity (kg)	Weight (kg)
LIXCHFR	1320	1270	1250	2000	46°	43°	350	185
Compatibility	IXION 25	IXION 35	IXION 4	IXIO	N 50 IXI	ON 50 ^{PLUS}	IXION 60	IXION 75
with carrier	_	_	_	-	-	•	•	_

REVOLVING BRUSH

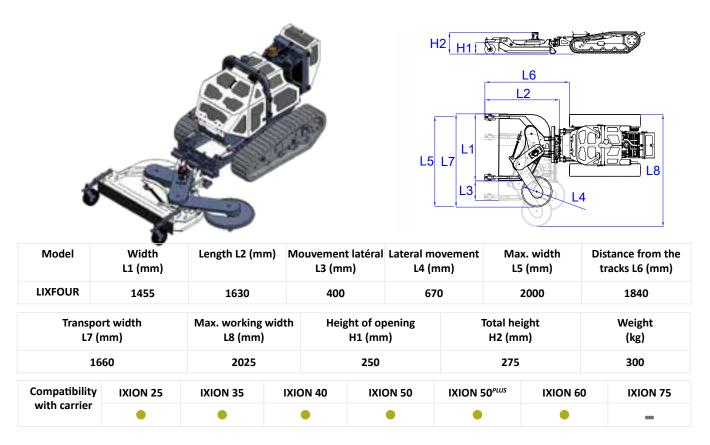




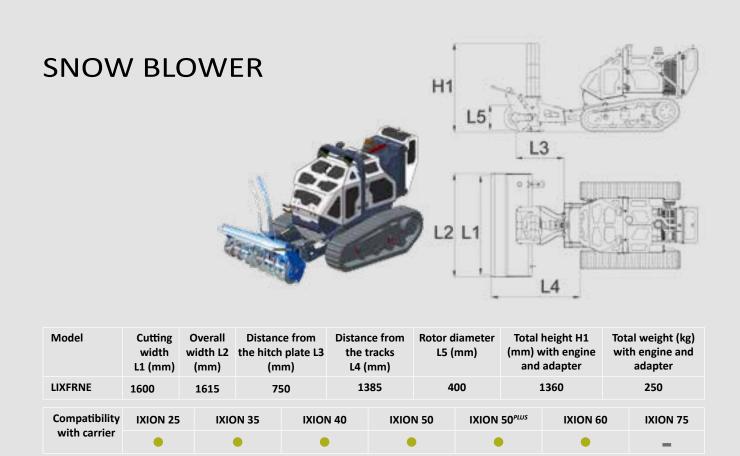


Model	Width (mm)		eight mm)	Swivel wheels	Openi devid	_	Weight (kg)
LIXBALF	1665	!	570	OUI	Mécani	que	60
Compatibility	IXION 25	IXION 35	IXION 40	IXION 50	IXION 50 ^{PLUS}	IXION 60	IXION 75
with carrier	•	•	•	•	•	•	_

SATELLITE MOWER



^{*} model without the retractable satellite



ATTACHMENTS

_		IXION 25	IXION 35	IXION 40	IXION 50	IXION 50 ^{PLUS}	IXION 60	IXION 75
	Adjustable vibrating unit with telescopic arms	-	-	-	-	•	•	•
	Shredding unit with output chute	-	•	•	•	•	•	-
	Mower with retractable satellite	*	*	*	•	•	•	-
	Revolving brush	•	•	•	•	•	•	-
	Snow blade	•	•	•	•	•	•	-
	Snow blower	•	•	•	•	•	•	-
	Stump grinder	•	•	•	•	•	•	-
	Atomizer	-	-	•	•	•	•	•
3	Loader with bucket	-	-	-	-	•	•	-
	Cutter bar	•	•	•	•	•	•	•
4 J	Branch shredder	•	•	•	•	•	•	•
	Windrower	-	-	•	•	•	•	-
	Front tipping bucket	-	-	-	•	•	•	•
	Rotary harrow	-	-	•	•	•	•	-
	Tongs	-	-	-	-	•	•	•
	Forestry winch	-	-	•	•	•	•	•
	Vertical brush	-	-	•	•	•	•	-
A COLOR	Roadside verge levelling scraper	_	-	-	-	•	•	•

^{*} mower without the retractable satellite

The IXION robot is a tool carrier. Many attachments are already available, while others are at the design stage. They are all intended to make work easier in all types of sectors – by local council amenity workers and in the private sector – tackling infrastructure and landscape upkeep, environmental protection, snow clearance as well as forestry, vineyard, cattle farm, orchard and other maintenance work.

TECHNICAL DATA SHEET

		IXION 25	IXION 35	IXION 40	IXION 50	IXION 50PLUS	IXION 60	IXION 75
Thermal engine	Make	HONDA	YANMAR	YANMAR	PERKINS	PERKINS	PERKINS 4 60 2200 turbo 55 10 2x25 10 50	PERKINS
	No. of cylinders	2	3	3	4	4 4 4 4 4 4 4 9 60 1662 2200 turbo turbo 55 55 55	4	
	Power (HP)	25	35	44	49	49	60	75
	Displacement (cm³)	779	1331	1568	1662	1662	2200	2200
	Intake	atmos- pheric	atmos- pheric	turbo	turbo	turbo	turbo	turbo intercoole
	Maximum continuous slope (°)	40	55	55	55	55	55	55
	FLEXXAIRE radiator cleaning system	_	•	•	•	•	•	•
	Tank capacity (litres)	17	21	24	24	29	31	39
Chassis coupling	4-point machine lifting system	•	•	•	•	•	•	•
system	Safety roll bar lifting system	•	•	•	•	•	•	•
	Armoured shell to protect the engine	•	•	•	•	•	•	•
	Quick push-pull front coupling system	•	•	•	•	•	•	•
	Quick multicoupler connection system	_	_	0	0	0	0	0
	Chassis-integrated safety roll bar	•	•	•	•	•	•	•
	High visibility LED work lights and revolving lights	•	•	•	•	•	•	•
Tracks	Track runner bearings	8	8	8	8	10	10	14
	Hydraulic track tensioning	_	•	•	•	•	•	•
	Manually adjustable axle track (cm)	_	2x15	2x25	2x25	_	_	_
	Hydraulic and automatic adjsutable axle track (cm)	_	_	_	_	2x25	2x25	2x40
	High Grip	•	•	•	•	•	•	_
	High Grip XL	_	_	_	_	•	•	•
	Extreme Grip	_	_	•	•	•	•	
	Steel Grip	_	_	_	_	-	_	•
ingine	Closed circuit radial pistons for forward travel	•	•	•	•	•	•	•
nydraulics	Closed circuit pistons for shredding unit	•	•	•	•	•	•	•
Hydraulic	Crawler brakes on engines	•	•	•	•	•	•	•
system	Gear pump for the accessories	•	•	•	•	•	•	•
	Electrodistributor for the accessories	•	•	•	•	•	•	•
	Electric radiator cleaning system	•	_	_	_	_	_	_
	FLEXXAIRE air cooler with reversible fan	•	•	•	•	•	•	•
	Oil tank (litres)	22	25	25	25	50	50	72
	Flow rate (litres per min)/feed pressure (b)	64/250	55/280	104/320	104/320	104/320	104/320	154/400
	Flow rate (litres per min)/shredding unit pressure (b)	45/180	50/250	77/320	75/280	75/280	75/280	93/320
Radio control	Radio control with screen	•	•	•	•	•	•	•
	Reach (m)	100	150	150	150	150	150	150
	Maximum forward speed adjustment	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%
	Steering correction adjustment	•	•	•	•	•	•	•
	Control toggling	_	•	•	•	•	•	•
	Wired connection (restricted areas)	•	•	•	•	•	•	•
	Visual and audible alarm system	•		•				

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Equipment designed to last

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LSP system – Lagarde Spare Parts system is the spare parts gateway that enables free service access to all our references for your dealer. The technical and wear parts from Lagarde are made to perform at their optimal with our machines, only the original parts will be able to guarantee a perfect fit and a maximal durability.



L2R service – Lagarde Rotor Rebalance service is the solution to recover the original performances of the machine. Lagarde offers to rebalance the rotors of your mowers, verge mowers and power arms from any brand equipped of a drive key.



