

ROBOLOPE[®]

by DCMA DARIO



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ROBOSLOPE

The Roboslope is a radio-controlled slope robot whose design is based on high-quality components, ensuring a high work rate while reducing operating costs. Its manufacturer, Hymach, uses only top-quality components, guaranteeing optimal performance on any terrain.

Equipped with a cooling system designed for performance, the Roboslope is capable of working in all weather conditions. Its robust structure enables it to withstand the heaviest work and the toughest situations, giving it maximum durability and reliability. Hydraulic hoses are neatly isolated on one side of the robot, facilitating operation and maintenance. What's more, its independent variable track unit offer great maneuverability on different types of terrain.

The Roboslope's tracks are specially designed to exert minimal pressure on the ground, thus preserving the working area. Its hydraulic power is optimal, it runs on biodegradable oil, reducing its ecological footprint.

All control and management devices are integrated into the remote control via a display. This enables safe, precise and remote handling, improving operator comfort and efficiency, while eliminating the fragile element of the machine.

The Roboslope embodies excellence in radio-controlled slope robots, combining performance, robustness and respect for the environment.

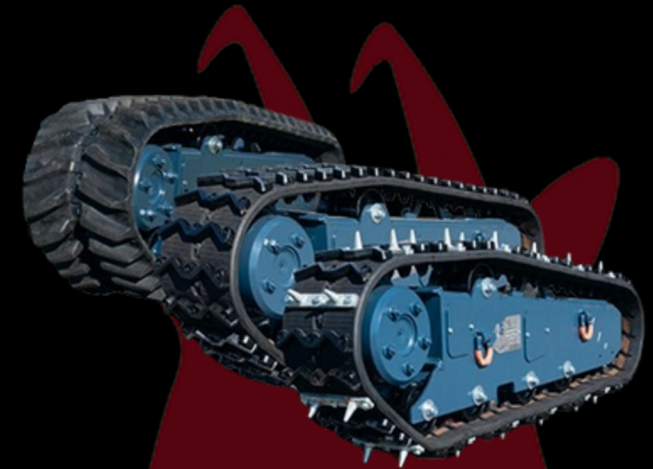
CONCEPT

Over the years, the development and design of the Roboslope chassis has undergone a remarkable evolution. Initiated by a team dedicated to innovation, each version of the chassis has been the fruit of a constant quest for improvement.

Thanks to an iterative process of design and testing, the chassis has been continuously improved to guarantee optimum resistance to the most demanding jobs. Leading-edge materials have been selected for their strength and lightness, providing a structure that is both solid and easy to handle.

Engineers have also focused on optimizing load distribution, enabling the Roboslope to navigate with complete stability over varied terrain.

Integrated underbody reinforcements form a shell for the motor, hydraulic and electrical systems, protecting them from flying debris. Roboslopes are equipped with a roll bar, which also acts as an additional anchoring point for certain equipment, enabling them to challenge the steepest environments.



The automatic hydraulic tensioning and anti-jamming system greatly reduces the risk of track derailment, improving safety and productivity while preserving track longevity.

Different track types:

- High-grip rubber for mixed terrain
- Rubber with steel pads (steel spikes can be added for extreme slopes)
- Steel track kit



The ROBOSLOPE is equipped with three hydraulic pumps in series, one for each track unit and one for the implement drive.

An additional pump is used for the lift, Flexxaire and auxiliary hydraulic outputs.

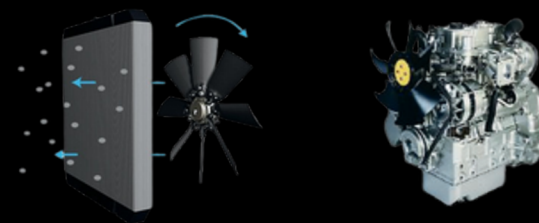
These outputs are connected via a fast multi-coupler CEJN, making the swap of equipment fast and easy.

The hitch is equipped with an adjustable load transfer system, guaranteeing ground tracking, improved grip and unrivalled working comfort.



ROBOSLOPEs are powered by low-emission Perkins industrial diesel engines, reducing their carbon footprint.

Designed and tested for continuous operation on slopes of up to 55° in all directions, they ensure consistently high performance. All models feature a fan blade reversing system.



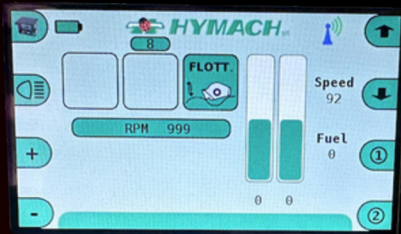
CONTROL

Designed with the user in mind, the remote control integrates all machine management elements into a single, intuitive screen.

Featuring an ergonomic user interface, it offers instant access to all Roboslope functions. From slope navigation to speed and direction settings, every aspect of the robot's operation is accessible with a few simple gestures.

Thanks to an advanced control system, operators can monitor machine performance in real time, adjust parameters as required, and quickly diagnose any problems.

The result is a smooth, efficient control experience.





- 1: ↑ Forward/ ↓ Backward (proportional)
- 2: ↑ Raise ↓ Lower
← Left → Right
- 3: Driving speed 0 to 100 %
- 4: Precise steering potentiometer
- 5: Commands inversion
- 6: Translation of left track
- 7: Translation of right track
- 8: Direction of mulching
- 9: Hydraulic auxiliary
- 10: Open/Close mulcher hood
- 11: Engine RPMs
- 12: Engine Start/Stop + Flexxaire
- 13: Horn
- 14: Choice of work or road mode
(automatic acceleration)
- 15: Emergency stop button
- 16: Radio control switch-on/
Two presses: float sensing on
- 17: LED Beacon

RS25

Ideal for green spaces

At 25HP, the RS 25 is the junior model in the line-up, incorporating the same architecture as the larger models. Despite its small size, it has nothing to envy the others.

Its small size and compactness make it the ideal ally for your most demanding worksites. From photovoltaic parks to narrow vineyards and retention basins, the RS25 fits in anywhere.

Its low weight makes it the lightest tool carrier in the range, making it perfect for ground preservation and enabling it to be transported by all types of light vehicle.





ENGINE

Brand	Honda
Cylinder number	2
Power and torque	18.6kW/25CV 54.5Nm@2500RPM
Cylinder capacity (cm ³)	779
Admission	Atmospheric
Maximum continuous slope	40°
Cleaning system for electric radiators	yes
Radiator cleaning system FLEXXAIRE	Non
Tank capacity (Liter)	17

CHASSIS AND COUPLING SYSTEM

4-point lifting system of the machine	yes
Lifting system via the rollover protection structure	yes
Armored protective shell to protect the engine	yes
Rapid front coupling system with Push-Pull	yes
Rapid coupling system using a multi-coupler	No
Rollover protection structure integrated into the chassis	yes
High-visibility LED headlights and warning lights	yes

TRACKS

Track rollers	8
Hydraulic tensioning	No
Manual variable track width(cm)	No
Hydraulic variable track width (cm)	No
High-grip rubber	Yes
Rubber with steel pads	No
Steel	No

HYDRAULIC SYSTEM

Track brakes on motors	yes
Gear pump for accessories	yes
Electrovalve for the accessory	yes
Air cooler with fan FLEXXAIRE	yes
Oil tank (Liter)	22
Flow rate max (L/min) to 3600RPM / Propulsion pressure max (bar)	72 / 250
Flow rate max (L/min) à 3600RPM /Grinding unit pressure (bar)	50.4 / 180

REMOTE CONTROL

With control screen	No
Radio frequency (Ghz)	2.4
Range (m)	100
Maximum forward speed adjustment	0-100%
Steering correction adjustment	yes
Control inversion	No
Wired connection (regulated area)	yes
Visual and audible alarm system	yes

CHASSIS*

Height	720
Length	1500
Width	1000
Weight with flat tracks (kg)	580

*Net weight and dimensions of the robot without accessories

HYDRAULIC MOTOR

Closed-circuit radial pistons for propulsion	yes
Closed-circuit pistons for the mulching unit	yes

RS50 C+

The most versatile

The RS50 C+ is the most versatile robot in the range, with its relentless hydraulic capabilities. Compatible with all types of mulchers and implements, it will provide you with a consistent work rate, adapted to your needs, while maintaining a reduced size and extreme maneuverability.

Equipped with independent, hydraulically variable tracks, it can lower its center of gravity. It also has a winch, to get out of the trickiest situations.

This compact tool carrier is ideal for all your light or heavy-duty applications, combining robustness and performance.



RS50 VV+

Un profil forestier

Like the rest of the Roboslope range, the RS50 VV+ is powered by a Perkins engine. It stands out for its intensive forestry profile, thanks to its double chassis and massive protection. Its forestry profile makes it no less versatile than any other Roboslope model.

Its extended undercarriage further reduces ground pressure while increasing the surface area available for grip. This allows it to work with complete peace of mind on slopes of up to 55°.



55°
Independent
track units



RS60 VV

A quiet force

More power without further encumbrance, for efficient handling of even the heaviest jobs. The RS60 VV guarantees 60HP of maximum reliability thanks to its 4-cylinder Perkins engine.

Equipped with high-flow hydraulic pumps, it can drive larger mulchers and tools than the RS50 range.

In keeping with the Roboslope spirit, it is equipped with a variable track, thanks to its hydraulically-independent track units, which allow it to widen its wheelbase by 500 mm.

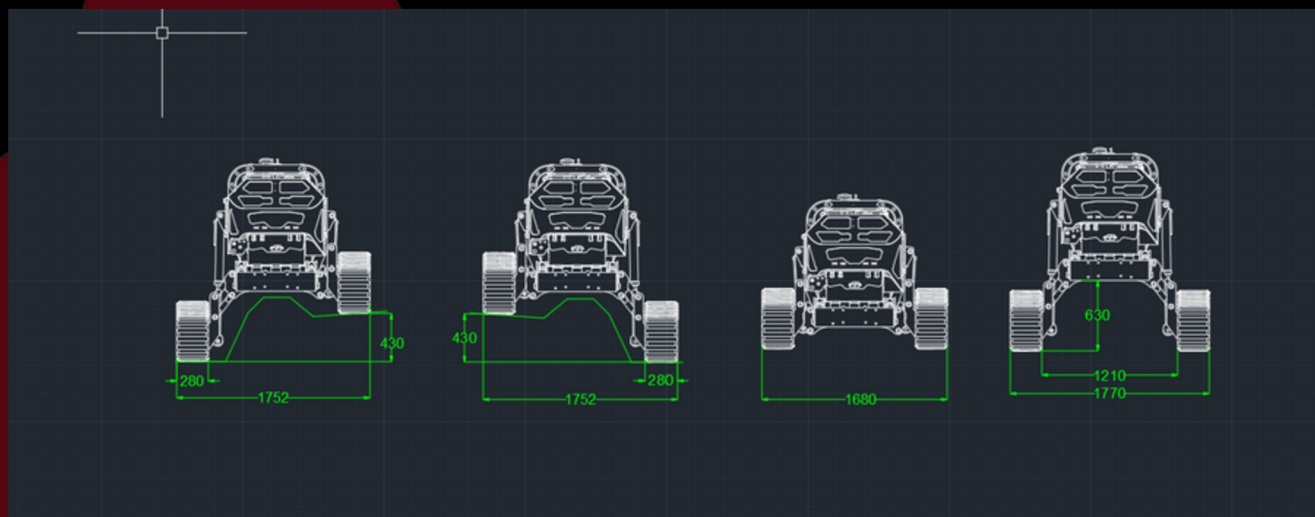


RS60 Z

Exlusivity

The RS60 Z has been designed with maximum ground clearance in mind. Mounted on the same chassis as the 60VV, only the translation architecture differs. It is vertical, rather than horizontal like the rest of the range.

This ground clearance enables this robust forester to overcome any obstacles it may encounter in its working area. It also enables it to preserve flora and biodiversity.



NOT AVAILABLE



RS75 VV

Power work for you

The RS75VV is the largest model in the Roboslope range. Like the others, it is also equipped with a variable track that allows it to widen its wheelbase by 800 mm thanks to its hydraulically independent track units.

This enables it to lower its center of gravity and therefore increases grip. The latter are also available in steel to tackle the harshest environments.



With its 75HP, it can handle heavy-duty work in the forest, on plantations, or on the roadside, in the toughest places where conventional and slope tractors can't venture.

Capable of performing the toughest jobs intensively and durably, the RS75 VV embodies the strength, performance and endurance to stand out in the high-power market.





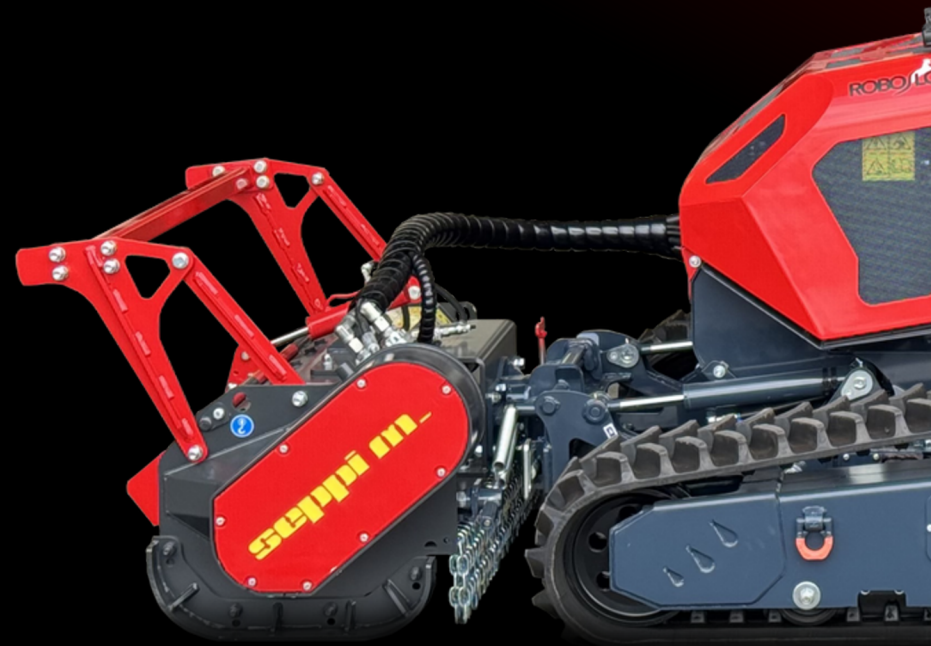
MULCHERS

With the possibility of quickly attaching different attachments to the front of the machine, the ROBOSLOPE is versatile and easy to configure for all types of work (agricultural, industrial, forestry, landscape maintenance, etc.) and all types of terrain.

We listen to your every need to build our range of equipment, selecting from the most suitable products on the market.

Grass Mulcher TSUL-TL

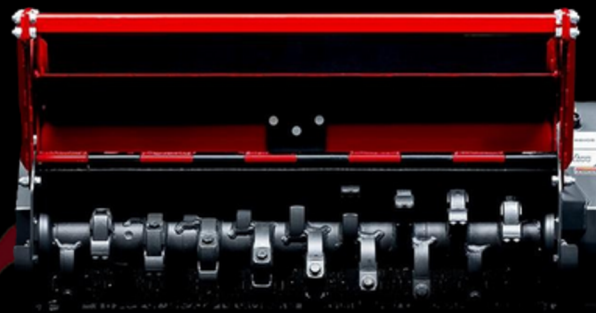
The heavy-duty mulching head has a cutting width of 1,300 to 1,500 mm, depending on the machine model. The rotor is equipped with a three-knife assembly, helically mounted to minimize the power absorbed by each knife.



Mulcher Seppi Microforst RC

The SEPPI MICROFORST RC fixed-hammer forestry mulcher sets a new standard with its low, compact design.

A mulcher that combines robustness, lightness and power to tackle the heaviest mulching jobs.



Mulcher Semi-forestry TFM-TL

The semi-forestry mulcher is used for more versatile shredding jobs (brambles, tree regrowth, planting, etc.). The branch mulcher is particularly useful for high regrowth, enabling the mulcher to perform even better. Cutting diameter : 6/8 cm (rotating hammers)



ACCESSORIES



Sweeper



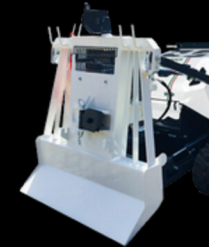
Snow blower



Snow plow



Cutter bar



Logging Winch



Front Loader



Stump grinder



Slicer Garbin



Atomizer



Branch shredder



Mechanical Weeder



Rotary Harrow

Numerous tools are already available, and others are being studied to enable us to work in different fields.

TECHNICAL SPECIFICATIONS

ENGINE	RS50 C+	RS50 VV	RS60 VV	RS60 Z	RS75 VV
Brand	Perkins				
Cylinder number	3		4		
Power and torque	36kW/49CV 166Nm@1400rpm		45kW/60CV 222Nm@1600rpm		55kW/75CV 270Nm@1800rpm
Cylinder(cm³)	1662		2200		2216
Admission	Turbocharged		Turbocharged		Turbocharged
Maximum continuous slope			55°		
Radiator cleaning system			Yes		
FLEXXAIRE					
Tank capacity (Liter)	24	29	31		39

CHASSIS AND COUPLING SYSTEM

4-point lifting system	yes				
Lifting system via the rollover protection structure	yes				
Armored protective shell to safeguard the engine	yes				
Quick front hitch system with Push-Pull mechanism	yes				
Quick connection system with multi-coupler	yes				
Rollover protection structure integrated into the chassis	yes				
High visibility LED headlights and gyro	yes				

TRACKS

Track roller	4	5	7
Hydraulic tension	yes		
Hydraulic variable track (cm)	2 x 25	2 x 43	2 x 40
High adhesion rubber	yes		
Rubber steel pads	yes	No	
Steel	no	yes	

HYDRAULIC MOTOR

Radial pistons with a closed circuit for forward movement	yes
Closed circuit pistons for the mulching group	yes

HYDRAULIC SYSTEM	RS50 C+	RS50 VV	RS60 VV	RS60 Z	RS75 VV
Track brakes on motors	Oui				
Gear pump for accessories	Oui				
Solenoid valve for the attachment	Oui				
Air cooler with fanFLEXXAIRE	Oui				
Oil tank (Liter)	25	50	50	50	72
Flow max(L/min) to 2750RPM / Maximum drive pressure (bar)	104 / 320	104 / 320	104 / 320	104 / 350	154 / 400
max flow(L/min) 2750RPM / Pressure for mulching unit (bar)	77 / 320	77 / 320	93 / 320	93 / 280	93 / 380

REMOTE CONTROL

With control screen	Yes
Radio frequency(Ghz)	2.4
Range (m)	150
Maximum speed adjustment	0-100%
Steering correction adjustment	yes
Reversal of controls	yes
Wired connection (regulated area)	yes
Visual and audible alarm system	yes

MACHINE CHASSIS*

Height (mm)	1075	1190	1290	1290 - 1720	1350
Length (mm)	1935	2145	2285	2285	2572
Width min - max (mm)	1370 - 1670**	1360 - 1860**	1360 - 1860**	1680 - 1770**	1600 - 2400**
Weight with flat tracks (kg)	1110	1400	1500	1700	2200

*Poids net et dimensions du robot sans accessoires

**Empattement maximal avec voie variable

MULCHING UNIT		RS50 C+	RS50 VV	RS60 VV	RS60 Z	RS75 VV
Grass	Width (mm)	1300	1300 / 1500	1500	1500	2000
	Weight(kg)	210	210 / 280	280	280	420
Semi-forestry	Width (mm)	1270	1270	1270	1270	1650
	Weight (kg)	375	375	375	375	450
Forestry	Width (mm)	1250	1250	1250	1250 / 1550	1550
	Weight (kg)	480	480	480	480 / 580	580



ROBOSLOPE

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