



The STM RoboFlail Remote Controlled Mower range *... developed for demanding conditions*

Distributed in the UK exclusively by STM Co Ltd

Suppliers of Scag, Humus, RoboFlail and the STM range of products
Available through an approved dealer network throughout the UK and Europe



The RoboFlail One

Equipped with independently driven rubber tracks that enable zero-turn performance with minimal surface damage, even on fragile terrain and banks of up to 50° incline, depending on the weather and conditions.

The unique tracks each maintain a minimum 0.75m² contact with the ground surface, providing greater stability and traction.

The machine is available with a plough-front rotary deck, or open front deck for cutting longer grass or brush.



The RoboFlail One - Diesel

This machine shares the same basic specifications as the RoboFlail One, including track configuration and zero-turn facility.

It is driven by a compact 3 cylinder 25hp diesel engine with a 30 litre tank.

The tracks and general action are the same format as for the RoboFlail One, and the unit has been developed with an underslung flail head with back to back blades.



The RoboFlail Mini

The RoboFlail Mini is, as its name implies, the smallest in the range.

It runs with a Briggs and Stratton 950 motor which feeds an 80 amp generator. The mower operates using two 24v 600W [800W peak] electric motors driving lightweight tracks and cutting with a 50cm rotary deck. It retains the same capability as regards the remote control working from as far as 300m.



The RoboFlail Vario

A further zero-turn unit, this has a different track configuration, and is designed for use with a PTO shaft. The Vario features a Yanmar diesel engine with tilting facility and the PTO shaft opens up a wide range of potential use with standard attachments.

There is a 38HP Yanmar diesel engine with a 30ltr fuel tank; the engine has the excellent feature in common with the RoboFlail Plus: that of the “Cleanfix” reversible fan for cleaning debris from the radiator area.



The RoboFlail PLUS

As an alternative system to the RoboVario, this machine has a compact integral headstock for mounting and attaching hydraulically driven accessories, such as a flail head, cutter bar, bandrake, loader, snowblade and more. This frame can be in a fixed position or fully floating as required.

The RoboFlail Plus has a 30HP Yanmar diesel engine with a 30ltr fuel tank; the engine has the excellent feature in common with the RoboFlail Vario, that of the “Cleanfix” reversible fan for cleaning debris from the radiator area.



The Control Unit

The machines in the RoboFlail range are operated using strap-mounted remote control units.

They work off rechargeable batteries or, in the case of the Mini, standard AA batteries and have an operating range of 300m.



The RoboFlail concept

For awkward terrain, banks of up to 50° and difficult pedestrian access areas, the RoboFlail remote control concept is ideal.

For general mowing the operator can be as far as 300m from the machine, and still retain precise control of turning and direction.

The RoboFlail Vario and RoboFlail Plus take this accessibility a step further, by allowing the use of Cat 1 mounted PTO driven or hydraulic powered accessories to be set up for use in problem areas.



RoboFlail range

	<i>RoboFlail One</i>	<i>RoboFlail One Diesel</i>	<i>RoboFlail Mini</i>	<i>RoboFlail Vario</i>	<i>RoboFlail Plus</i>
Engine	25hp Kawasaki. Electric start, oil and petrol pump	25hp Yanmar. Electric start, oil and petrol pump	6,5 hp Briggs & Stratton 950 223 ccm Electric start	38hp Yanmar diesel. Electric start, water cooled. Tilts to 20°	30hp Yanmar diesel. Electric start, water cooled.
Speed	Up to 6mph	Up to 6mph	Up to 6mph	Up to 6mph	Up to 6mph
Drive system	Hydraulic: two pumps, two wheel motors and security brakes	Hydraulic: two pumps, two wheel motors and security brakes	Two 24 Volt electric motors 800 Watt peak 600 Watt continuously	Hydraulic: two pumps, two wheel motors and security brakes	
Drive to cutting heads / attachments	Belts and electromagnetic clutch	Belts and electromagnetic clutch	Direct belt drive	PTO: 1000rpm Link: Cat 1 with hydraulic lateral shift, directly adjustable link release.	Hydraulic. Frame allows fixed or fully floating attachments
Cutting systems	Fine cut rotary deck, or open front STM Verti-Flail system	Flail deck with back-to-back blades	50cm mulching deck	PTO driven accessories	Hydraulically powered accessories
Working width	48" [122cm]		20" [50cm]	Based on accessories	
Remote control	434MHz frequency with forwards / backwards adjustable speed or cruise control. Ability to stop/start and throttle control from remote control unit.				
Tracks	Rubber with additional rubber spikes		Lightweight rubber	23cm rubber or metal reinforced	Rubber with additional rubber spikes
Tank	30 litre, with automatic slope adjustment		3.1 litre	30 litre, with automatic slope adjustment	
Overall width	1.70m [67"]		900mm	1.25m	
Overall length	1.40m [55"]		1040mm	1.80m	
Overall height	0.75m [30"]		550mm	1.04m	
Weight	600kgs [1320lbs] without deck	780kgs [1715lbs] with deck	180kg	950kgs [w/out attachments]	965kgs [w/out attachments]

Suppliers of Scag, Humus, RoboFlail and the STM range of products, designed for professional grasscutting needs. Supported by a large approved dealer network throughout the UK and Europe, with reliable aftersales and support services.



STM Co Ltd

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