

GRÉGOIRE  BESSON

www.gregoire-besson.com

HELIPLOW

HELIOSS

Sub-soiler / Soil loosener
fully mounted and semi-mounted



for tractors from **80 to 500 HP**

HELIPLow

Soil looseners single-beam HELISEM and HELIPLow
Compacts and simples for use combined, with roller or so

Latest tractors evolutions (more horse power, more heavy, better balance, powerful hydraulic lift) allows combined use of soil loosener.

Soil loosening while seeding ensures creation of ideal conditions for root development, improving soil aeration and providing excessive moisture on top.



HELISEM

Twisted blade 600
Shear bolt safety device
Grégoire Besson rear accessory (option):
- Crumbler roller

HELIPLow

Michel tine 900
Shear bolt safety device
Bolted tine bracket (adjustable spacing)
Yoke hitch cat. III (3 positions)
Hydraulic rear hitch (option)
Grégoire Besson rear accessory (option):
- Twin roller
- Double notched discs roller

HELIPLow HD

Michel tine 900
Non-stop hydraulic safety device
Grégoire Besson rear accessory (option):
- Twin roller

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Technical specifications



HELISEM

80 HP	4	3,00 m	2,40 m	400
120 HP	6		2,50 m	450

HELIPLow

80 HP	4	2,00 m à 3,00 m	3,00 m	700
120 HP	6	3,00 m		800
		3,50 m	3,45 m	850
130 HP	8			1050
120 HP	6	3,00 m à 4,00 m	4,00 m	1000
160 HP	8	4,00 m		1100

HELIPLow HD

100 HP	4	2,00 m à 3,00 m	3,00 m	1120
140 HP	6	3,00 m		1460
180 HP		3,00 à 4,00 m	4,00 m	1510
200 HP	8	4,00 m		1730

Weights, dimensions and HP requirements are indicative only, subjects to variations according to options, type of soil, design modifications.

HELIOS

Soil looseners twin-beams HELIOS and HELIOS R High clearance, reliability and high output

Repeated tillage practices at the same depth (whatever it is), excessive compaction (heavy traffic), or weather conditions (hard rains) lead to soil compaction. Then loosening shall be required, moreover before sensitive crops such as vegetables, oilseed rape, sunflower, ...

With its twin-beams frame and its high clearance (beam to beam distance 800 mm, underframe clearance 820 mm) HELIOS can work in heavy trash conditions, even just after harvest.

As an option, machine may be equipped with a rear roller. Roller allows working depth control and has an action on top soil according to its profile: levelling, residue management, ...



HELIOS

Fixed frame 3.0 m, 3.5 m or 4.0 m wide

Michel tine 600 or 900

Safety device :

- shear bolt
- non-stop hydraulic

HELIOS R

Foldable 2 parts frame, 2.7 m transport width

Working width 4.0 m, 5.0 m or 6.0 m

Michel tine 600 or 900

Safety device :

- shear bolt
- non-stop hydraulic

HELIOS WH

Reinforced wide hitch cat III-IV

Fixed frame 3.0 m, 4.0 m or 5.0 m

Michel tine 900

Shear bolt safety device

3 arms roller on 3.0 m and 4.0 m models

4 arms roller on 5.0 m model

Technical specifications



HELIOS 600

140 - 180 HP	8	3,00 m	3,00 m	1 130
150 - 240 HP	10	4,00 m	4,00 m	1 240
140 - 180 HP	8	3,00 m	3,00 m	1 580
150 - 240 HP	10	4,00 m	4,00 m	1 720

HELIOS

80 - 120 HP	4	2,00 à 3,00 m	2,00 à 3,00 m	830
120 - 160 HP	6	3,00 m	3,00 m	980
140 - 180 HP	8			1 130
120 - 160 HP	6	3,45 m	3,45 m	1 080
130 - 220 HP		3,00 à 4,00 m	3,00 à 4,00 m	1 130
150 - 240 HP	8	4,00 m	4,00 m	1 240
80 - 120 HP	4	2,80 m	2,80 m	1 100
120 - 160 HP	6	3,00 m	3,00 m	1 340
140 - 180 HP	8			1 580
120 - 160 HP	6	3,45 m	3,45 m	1 340
150 - 240 HP	8	4,00 m	4,00 m	1 720

HELIOS R 600

150 - 240 HP	8	4,00 m	3,00 m	1 800
	10	5,00 m		1 980
180 - 240 HP	8	4,00 m		2 360
	10	5,00 m		2 680

HELIOS R

150 - 240 HP	8	4,00 m	3,00 m	1 800
180 - 240 HP	10	5,00 m		1 980
200 - 300 HP	12	6,00 m		2 200
180 - 240 HP	8	4,00 m		2 360
	10	5,00 m		2 680
200 - 300 HP	12	6,00 m		3 040

HELIOS WH

120 - 160 HP	6	3,00 m	3,00 m	1 045
150 - 240 HP	8	4,00 m	4,00 m	1 305
200 - 240 HP	10	5,00 m	5,00 m	1 817

Weights, dimensions and HP requirements are indicative only, subjects to variations according to options, type of soil, design modifications.

HELIOS

Soil loosener twin-beams semi-mounted HELIOS SP






Large width, high output

Designed for high HP tractors, HELIOS SP ensures high output, ideal for large farms.

High clearance (beam to beam distance 1 110 mm, underframe clearance 750 mm), possible fitment of front discs coulters and rear roller double notched discs type give HELIOS SP a wide range of use :

- on grassland or after summer fallow
- in heavy trash conditions
- soil loosening without mixing + residue management (minimal tillage)

Technical specifications

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HELIOS SP				
250 HP	8	4,00 m	2,70 m	3860 - 4 110
320 HP	10	5,00 m		4360 - 4610
HELIOS SP HD (reinforced chassis)				
375 HP	12	6,00 m	2,70 m	4860 - 5 110
450 HP	14	7,00 m		5460 - 5 710

Hitches

On tractor lift link arms cat. III-IV

Conical bushing:

- Designed to fit all drawbar (Ø II, III or IV)
- Never gets loose
- No ovalization risk



Disc coulters

Cuts residues

Two taper roller bearings + castellated nut












Spring reset

All pivot points built with grease fittings + replaceable bushings



Genuine Grégoire Besson wearing parts : the simplest way to achieve high output

For its wearing parts, Grégoire Besson uses the best technologies to reach higher quality. Parts are designed to be easy to pull, to ensure penetration and to lead to the top of the range tillage.

Tines				Rollers																																						
<p>Michel tine works in deep. It loosens the ground without any lay mixing. Tine passage creates a "wave effect" responsible of ground fissuring all along worked depth. On the surface, it seems that nothing has changed : no clods or rocks climbing, top soil and trash stays on top. Erosion and water run-off risks are avoided.</p> <p>Tine is equipped with a tilted point. It can be used in all conditions without any risks of compaction lay creation. In a loose and aerated soil, circulation of water and air is improved, crop implanting is easier.</p>				<p>Working depth control Stabilize machine in the field Action on top soil according to profile</p> <hr/> <p>Crumbler roller Avoids hollow grounds Ø 500 mm Ø 600 mm</p> <hr/> <p>Twin roller Cuts residues = better decomposition Levels Two rows of wavy discs Ø 510 mm, thickness 5 mm, spacing 260 mm</p> <hr/> <p>Double notched discs roller More aggressive than Twin roller, reduces both residues and clods Ø 510 mm, thickness 5 mm, spacing 230 mm Ø 610 mm, thickness 6 mm, spacing 230 mm (HELIOS SP)</p>																																						
<p>Michel tine 600</p> 		<p>Michel tine 900</p> 		<table border="1"> <thead> <tr> <th rowspan="2">Compatibility rollers</th> <th>Crumbler roller</th> <th>Twin roller</th> <th>Double notched discs roller</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> </thead> <tbody> <tr> <td>HELISEM</td> <td>•</td> <td>-</td> <td>-</td> </tr> <tr> <td>HELIPLow</td> <td>-</td> <td>•</td> <td>•</td> </tr> <tr> <td>HELIPLow HD</td> <td>-</td> <td>•</td> <td>-</td> </tr> <tr> <td>HELIOS</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>HELIOS R</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>HELIOS WH</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>HELIOS SP</td> <td>•</td> <td>•</td> <td>•</td> </tr> </tbody> </table>				Compatibility rollers	Crumbler roller	Twin roller	Double notched discs roller				HELISEM	•	-	-	HELIPLow	-	•	•	HELIPLow HD	-	•	-	HELIOS	•	•	•	HELIOS R	•	•	•	HELIOS WH	•	•	•	HELIOS SP	•	•	•
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Gauge wheels																																										
	Lateral, adjustment by turnbuckle	Lateral, adjustment by pin	Front, adjustment by pin																																							
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HELIOS		200 / 14,5																																								
HELIOS R HELIOS WH		10,0 / 75 - 15,3																																								
HELIOS SP			4 - 5 m single wheel 6 - 7 m double wheel 10,0 / 75 - 15,3																																							

www.gregoire-besson.com

Authorized dealer



49230 Montfaucon-Montigné | France
Tél. +33 (0)2 41 64 72 67 | Fax +33 (0)2 41 64 67 73
contactfr@gregoirebesson.fr