

Data Sheet of the Groasis Terracedixx
Part of the Groasis Ecological Water Saving Technology
[Check the video to see how it works here](#)

The Groasis Terracedixx makes approximately 15 km of mini-terraces (swales) per hour. This helps rise the infiltration of rainwater in dry seasons from app. 25% to 90%. There are 3 cutting discs for cutting organic material, 3 subsoilers making 3 grooves, 2 hollow discs make a small ridge above the lowest groove and a small canal above the middle groove. The top groove helps penetrating the rainwater into the soil.

Possibility to sow on the ridge (Creeping Alfalfa / Miscanthus - Elephant grass and all kinds of other drought resistant grasses / Cannabis sativa - Industrial hemp (although this is not marijuana, it may be illegal in some countries to sow this) / Oil seed / Radish / Japanese Millet / etc.). A heavy drum presses the seed into the ridge to improve capillary for stimulating the germination.



Groasis Terracedixx immediately sows seeds of herbs on the terraces.



Groasis Terracedixx to create 15.000-meter terraces per hour.



The Treesolution with the Groasis Growboxx is winner of the Accenture "Green Tulip Innovation Award" 2014

Functionalities

Color of frame	Red
Color of mounted parts	Green
Color of discs	Black
Dimensions L x W x H (mm)	4690 x 2000 x 1450
Weight	1650 kg
Hitch point CAT 2 and 3	Upper \varnothing 25 - 32
(3 point)	Lower \varnothing 28 - 36
Frame constructions tubes	120 x 60 x 6.3 cm
	100 x 100 x 8 cm

Concept

3 discs for cutting organic material	3 rows – distance 400 mm
	Center width 400 mm (2x)
	Disc \varnothing 510 mm
	Security against stones: in up direction with spring
	Depth under lower hitch point 340 or 390 (mm)
3 Subsoiler-dents	3Rows – distance 400 mm
	Center width 400 mm (2x)
	Security against stones: with hydraulic cylinders and pressure regulation and hydraulic accumulator
	Depth adjustable
	Angle adjustable
	Depth under lower hitch point 430 or 500 (mm)
First hollow disc plough	\varnothing 660
	Pivotally with hydraulic cylinders
	Able to left – right ploughing
	Security against stones with hydraulic cylinder: pressure regulation and hydraulic accumulator
	Disc angle adjustable (vs driving direction)
	Depth under lower hitch point 390 (mm)
Second hollow disc plough	\varnothing 710
	Pivotally with hydraulic cylinders
	Able to left – right ploughing
	Distance between first and second disc: 930 mm
	Security against stones with hydraulic cylinder: pressure regulation and hydraulic accumulator
	Disc angle adjustable (vs driving direction)
	Depth under lower hitch point 415 (mm)
Sower machine (seeder)	GANDY P45 Forage
	Command electrical 12VDC (motor drive)
	Sowing on the ridge
	Position of seeding nozzle changes



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Groasis has been awarded as National Icon by the Dutch Government for being one of the 3 most innovative projects of The Netherlands with a high social impact and supporting economic growth.



	(left – right) with hydraulic cylinder
	According to ploughing direction
Diabolo drum (double)	Presses the seed into the soil of the ridge to stimulate germination with a better capillary without changing the form of the ridge
Working depth regulation wheels	Wheel Ø 500 x 150 steel (2x)
Required power	120HP – 88 kw
Electrical (seeder)	12VDC – 4A
Hydraulic lifting system	Standard
Hydraulic coupling system machine	Operating pressure max. 50 bar (700 psi)



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