

Byram Agro Melioration



The only hydraulically adjustable subsoil loosener in the world, leaving a continuous, drain free, structural improvement in a depth of more than 100 cm.

The powerful 'Byram Team' are at your service with good advice and effective tools for soil improvement – an in-depth solution with lasting effects.

A solution, that goes deep

It is not only us human who thrive better when we have space and air - so it is with soil also. The better the soil, the better the yield and this gives more profit.

The inventor of Agro Melioration has many years of experiences with soil improvement and knows what it takes to bring life and better use to agriculture soil. Our tools are being sold in more than 20 countries world-wide – i.e. Germany, Hungary, Poland, Austria, Denmark, Netherlands, Switzerland, Italy and France. Etc.

The inventor has developed the method of Melioration. Through a long life with work in agriculture, in Denmark, Germany and elsewhere, he has gained experience with bad lands, where he observed badly functioning fields and soil, which were so heavily compressed that the crops were damaged. The experiences resulted in the invention of the agro-meliorator, which loosens the soil in depth. The Agro-meliorator is a tool with a hydraulically adjustable tooth, which is moved at an angle through the earth, while being regulated by the tractor driver, according to the level of humidity and compression of the soil.



The method for better soil

Melioration means improved and that is exactly the key word for the method of Melioration. To know the story behind the method, we have to dive deep into the Danish soil and journey far back in time. All the way back to the time where the ice covered the land like a carpet. It was precisely the ice, and later the melts off water and the continuous storms of the past which tied the layers of the soil so closely together, that they haven't since been able to absorb rain water fast and well enough. This knowledge of the overly compressed sub soil, has resulted in the development of the hydraulic adjustable Agro Meliorator, which are able to improve all compressed layers of soil.

Clear signs of the need of in-depth loosening of the soil, can among other things be, that the soil cannot get rid of excess water, and that there is an un-uniform, heterogeneous plant growth. When these indication are apparent, a Meliorator from Byram Agro Melioration works great miracles. No other custom made machines or tools, have been made to loosen the deeper layers of the soil, with the results as effective and continuous as those coming from the hydraulically adjustable Meliorators from Byram Agro Melioration.





This bog earth was treated with the Agro Meliorator with success In spite of the water.



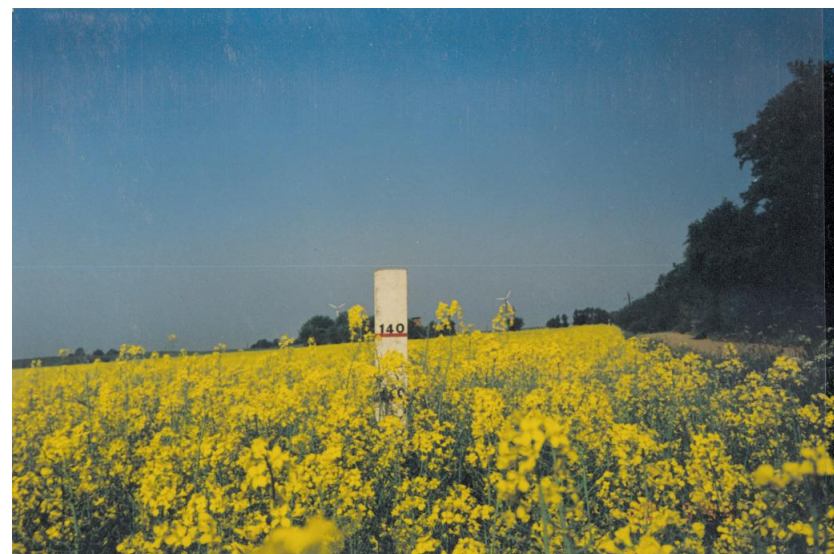
This video shows the soil was improved after treatment with the Agro Meliorator .



The Meliorator ought to be more widely used

A really good tool which ought to be more widely used!

The effect of the Byram Agro Melioration is visible from the first year on all kind of lands, where the crops were standing much better as the harvest approached.





Water gone at nursery

At the State Forests plant cultivation centre in Humlebæk, a one-tooth Meliorator is of great benefit. The plant cultivation centre has a nursery, and this is where the Meliorator has been used for 1 ½ years, says Knud Stenvang.

We have soil very rich in clay here at the nursery, so we had to get it loosened. We heard about the method of Melioration, and purchased a one-tooth Meliorator which goes down to a depth of about 60cm, but the soil below the tooth get broken up with a lot of micro-cracks to a depth of about 1 m.

An immediate and visible gain from the work of the Meliorator, is that now there is not as much water flooding the soil as before.

We are doing a lot to get a healthy soil, says Knud Stenvang and the more life the soil gets, the better the natural outcome.

If the soil is unhealthy, the outcome will be accordingly, but if it gets life through the method of melioration, it becomes healthy.

A result of the work of the Meliorator, is that it leaves the soil with a deep water receptive and water retentive function.

The soil is extremely wet. The Byram Agro Melioration breaks the layers in the soil.



In-depth loosening gives life to the soil

A very prevalent method in marketing is to describe how a product can radically change a situation for the better.

That's how it was before the product was purchased and that's how it is now!

In the case of the Meliorator , it is extremely beneficial with before and after descriptions for understanding the qualities of the product.

Using Byram Agro Meliorator makes it clear that there is a world of a difference, once the method of Melioration has been used. The method gives fast and visible results, first of all on marginal lands, on dried out lands, or where the soil is too wet and without life.

The soil gets life again, where the Agro Meliorator with the hydraulically adjusted, self-sharpening tooth-point, is moved at an angle through the soil. By melioration with correct tooth position, the top soil is lifted up by the wide frontal edge of the tooth and the soil below is also lifted a bit, because it's hanging on to the top soil with thousands of small roots.





By this lifting action a great number of microscopic cracks are created in the soil, far below the working depth of the Meliorator. The cracks are now giving space for air and water to seep deep down to the deeper layers of the soil, giving nourishment to the microorganisms and thereby starting a process of mineralisation.



Work with the Byram Agro Meliorator has begun.



A good-looking field that has been treated with the Byram Agro Meliorator.



What to choose?

Byram Agro Meliorator has two products, working along the same principle, yet with different functions.

The Meliorator is used where the sub soil has compressions. There can be either water flooding with field or parts of the field is too dry. The tooth of the Meliorator goes down around 60 cm, but the effect goes still deeper, that is to about 90 – 100 cm.

The soil is broken up with a lot of micro cracks down to a depth of about 1 metre. A side effect is that on both sides of the tooth many cracks and fissures appears, so that rain and oxygen can get down in the ground.

While the tooth is driven through the ground at the optimal ground angle, the soil is being lifted up and falling into place again, leaving no water-bearing furrows. Now nature takes over and with the aid of rain, sun and warmth, the soil becomes well-functioning.

A continuous, stable structural improvement has been created, and draining is no longer necessary.

The Structurator works along the same principle as the Meliorator, but one difference is that the teeth go down to a depth of 45 cm only. The tool is mostly used for mulching down straw and plant residues. The Structuratoren is also meant for use in the field every year instead of the plough.

Drain free soil improvement



Simply spoken, the loosening of the soil gives more oxygen to the ground, so that the process of mineralisation increases and the activity level of microorganisms is raised. Moreover, a greater transformation of plant residues takes place, which improves the structure and humidity of the soil.

A significant gain is that traditional drainage is no longer necessary, because the distribution of water on an area which has been Agro-Meliorated, gives moisture to dried out soil, and the possibility for wet soil to dry.

The benefits of using Meliorators and Structurators are many. The farmer can grow better and healthier crops, he can avoid the expense of chemicals, and he can reduce the use of fertilizers considerably. Thereby good yield results can be guaranteed year after year.

Problem	<ol style="list-style-type: none"> 1. Flood 2. Drought 3. Big consumption of mineral fertilizer 4. Big consumption of chemicals 5. Erosion 6. Weak growth 7. Plant diseases 8. Polluted drinking water
Solution	Byram Agro Melioration The worlds only hydraulic adjustable subsoil loosener
Results	<ol style="list-style-type: none"> 1. Risk of floods is reduced 2. The soil has water resources 3. Need of mineral fertilizer is lessened considerably 4. Byram Agro Melioration recommends the omission of chemicals 5. Erosion damages are reduced 6. Strong and uniform growth 7. Plant diseases and pest attacks are reduced 8. Clean drinking water

The corn is growing 2 meter high after the soil has been meliorated.



Three-point-linkage:



The tractors must carry two lifting bars (lifting arms) and the top rod (top arm), which should be adjustable.



The Meliorator has an ordinary Type 2 three-point-linkage, which implicates that the bolts have the diameter of 28 mm

Hydraulic connectors:



These two hoses are the connectors to the double-acting cylinder on the Meliorator. They are common $\frac{1}{2}$ " (half inch) hydraulic clutches (male plugs). The tractors must have the corresponding double-acting hydraulic control with the corresponding hydraulic clutches (female connector). It is essential that these demands be met properly. Without this double-acting hydraulic system it is impossible to use the Meliorator at all.

The Meliorator in Operation





THANK YOU

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Soil improvement has to be learned practically, and we at Byram Agro Melioration is offering this service to our customers. We are ready to teach and offer trainings in the use of our tools.

The training will consists of practical experience with the Meliorator or Structurator.

Moreover, we offer courses dealing with all relevant subjects within agriculture, to all who are interested. Contact us for our new exciting course program.

Kindly contact us for further materials and information, and we will promptly be at your service.