



SX spade blades



Hydraulic accumulator



### Standard version

Fast interchangeable spade blades and a hydraulic accumulator to take the pressure of the rear roller for perfect consolidation, are standard. As well as powder coated parts and LED lights. The spader is protected against stones with a torque limiter. The only option that you can choose is a hitch!



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**48SX SERIES**

Model	Working width	Working depth	Number spades	Ideal speed	Required horsepower	Maximum horsepower	weight
48SX300H	300 cm	15-35 cm	36	7 km/h	140Hp	250 Hp	2750 Kg

For more information or a demonstration please call Imants or consult our website [www.imants.com](http://www.imants.com)



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Lower costs Intensive way of working the soil Less fuel consumption per hectare Effecient water management Less compaction Greater incorporation Higher workrate Better soil structure Single pass operation Multi-action combinations Perfect seedbed

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## 48SX SERIES

A totally new concept in rotary spading machines for sandy and light clay soils. The 48SX machine is faster, lighter and stronger than its predecessor. The latest changes means spading becomes even more attractive as the machine is also equipped with a seedbed preparator. Simultaneous primary and secondary tillage. In combination with a drill or a planter cost reductions are even greater.

### Concept of the machine

New award-winning design with striking yellow stripes on the blue and black machines give them a unique appearance. The 48SX is the first rotary spader with harrow that has a gear driven spade shaft. This gearbox especially developed for Imants is capable of handling tractors from as little as 140 Hp up to 250 Hp. A rotary spader will do the primary tillage with the spade shaft. This shaft consist of 6 banks with 6 arms (3 left and 3 right) Behind the spade shaft is the simplest of harrows being nothing more than a driven roller with small tines that prepare the seedbed and give the necessary consolidation. This secondary tillage tool will:

- Create a perfect consolidated seedbed
- Level the surface
- Incorporate organic residue

All Imants spaders are PTO driven. The 48SX is built to be mounted via a 3-point linkage. The spader is lowered into the ground with the 3-point hitch until part of the weight of the machine is supported by the harrow on the back. The working depth is then controlled by the positioning of the lower link arms. The top link is in a free floating position.

The ideal working speed is 7 km/h (4.4 Mph) while running the PTO shaft at 1000 Rpm.

### Rotary spading in general

Due to the expansion of farms and the rising fuel prices it is extremely important to choose machines with high efficiency and fast work rates to reduce costs. Imants incorporates these ideals into their spaders by working the soil intensively and homogeneously. When using the rotary spader the soil is thoroughly tilled without destroying the soil structure. The soil is spaded and huge amounts of organic matter can be incorporated. Organic matter is mixed into the top layer where oxygen is available and micro-organisms are able to break down the organic matter easily. This way straw, corn stubble, green manure and compost can be evenly combined and provide the soil with the necessary nutrients. The unique construction of the spader won't create a hard or plough pan. Therefore there will be a better capillary action and water management so that nutrients and minerals are easily available to the plants. Due

to the fact that the rotating spade shaft pushes the spader forward there is no wheel slip and smearing and the tractor drives on top of the soil instead of in the furrow as with ploughing. The spader eliminates all the compaction and makes a perfect seedbed. All with less fuel consumption per hectare.

### Time reduction through combined actions

By combining machines with the spader there are even more savings to be achieved. The productivity per hour of the driver rises as the number of passes declines! Combining the spader with a seeder or planter eliminates an additional pass over the field. So avoiding compaction!

When designing the spader the engineers made sure that there was the facility for attaching a seeder or planter. There is a 3-point hitch available for a category 2 machine. There is also a simplified hitch for a pneumatic seeder. The seed tank can be mounted in front of the tractor. The gearbox in the centre of the machine has an output shaft that can be used for i.e. a hydraulic motor.

Huge savings can be achieved in straw or green manure when the tractor is equipped with a front mulcher and the spader with seeder in the back.

Soil fumigation or biofumigation is a common practice with the spader. Combined with a driven smooth roller at the rear of the machine a perfect sealed top layer can be achieved so that gasses stay in the soil longer and there will be a better efficacy.

### Where is the machine used

The 48SX is a machine for sandy/lighter clay soils. (For heavy clay soils there is a different model available.) The machine is extremely suitable for average farms from 100-600 ha and tractors rating from 140-250 Hp. The capacity is up to 2 ha per hour! Even very small plots can be worked easily without creating a furrow and the headlands are as well prepared as the middle of the fields.

