

K.T.S Bale Grabber

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K.T.S Bale Grabber has been designed, **together with the tractor/loader/telescopic handler** (collectively referred to below as “the machine”), **to form a complete durable whole.**

When you lift a bale with the grapple, forces arise, which are transferred through the grapple arms and further on to the frame structure, through its brackets, to the machine and further on to the attachment bracket of the machine. In that case, it is important to have a grapple without weak points to assure its long life.

All grapple components have been **matched** to each other to the greatest extent possible to obtain a durable unit, which is also gentle on plastic-wrapped bales. With this leaflet we would like to tell you more about how we have designed and further developed our K.T.S Bale Grabber into a universal tool with many different areas of application.

You can feel **safe and secure** when you invest in a K.T.S Bale Grabber. It will last not only this year but for many years to come. **The warranty on K.T.S Bale Grabber is 5 years.** Such advantageous guarantees can only be given if you know that the attachment will last.



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The **K.T.S See-Through Frame** provides optimum visibility through the grapple. This has been accomplished by a large distance between the upper and lower frame side members, which creates a wider visual field.

*It is both easier and more fun to work when you see what you are doing. **You also save money because damage to the plastic wrapping is reduced!***



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The parallel action is easy to disengage, which reduces the risk of damaging the plastic wrapping on adjacent bales. The grapple arm swings away when it comes in contact with the adjacent bale.

When should then the parallel function be used in the two different positions? There is no clear answer, but below we will explain how it works.

Position 1: the pin is located in the parallel stay, which is then blocked

In this position, the grapple arms work uniformly/parallel to each other. This is an advantage when you want precision operation of the grapple, for example, when loading a bale onto a wrapper. This is also a good feature for transporting a bale in the grapple over long distances, when the bale is fixed and so are the grapple arms, and they cannot move laterally.

Position 2: no pin in the parallel stay, which is then moving/telescoping

This is a great advantage when unloading the bale in a store after wrapping. The bale is unloaded by opening the grapple arms. It is then easy for the grapple arm to touch an adjacent bale. If the grapple arm is fixed, the plastic wrapping can be easily damaged. With the parallel action disengaged, the grapple arm will swing away without damaging the plastic wrapping.

The attachment of the parallel stay has been changed so that the stay can be straight, which considerably increases durability. A straight stay is much more durable than a bent one

A lot of work has been put into making the grapple handle as gentle as possible to the plastic-wrapped bales:

- The 89 mm steel tube increases the contact surface with the plastic
- Specially designed grapple arms for gentle gripping of bales between 0.8 m and 1.8 m. The K.T.S Bale Grabber is optimised for bales between 1.2 to 1.6 m
- The hydraulic cylinder brackets have also been welded-in on top of the grapple arms, which renders all internal or external reinforcements, which might damage the plastic, unnecessary.



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With the K.T.S Bale Grabber you can easily stack the bales and pile them to minimise the loading area.

Stacking bales on their short ends, where there are several plastic layers, has many advantages and is **recommended by all plastic manufacturers**.

- Safer storage – the bale is not so easily damaged by sharp objects, rocks etc.
- The bale keeps its round shape, which makes it easy to roll and handle during feeding.
- All this combined means a feed with higher hygiene and better feed.



A video on the K.T.S Bale Grabber – click on the QR code below!



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- Both grapple arms are moveable. On bale grabbers with only one moveable grapple arm there are difficulties in reaching the bale to be gripped because it cannot be moved close enough to the fixed arm. When the moveable grapple arm is to grip the bale, the bale must be rolled or pushed against the fixed arm. In this case the plastic is easily damaged by the underlying surface.
- The parallel stay is straight with special bracket points, and has been designed **not to damage the plastic**.
- The bale grabber can also be used for square bales.



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The grapple arms are designed so that you can handle bales with a diameter between 1.0 and 1.8 m in a gentle way. Look at the picture to see how smoothly the grapple arms close around a plastic-wrapped bale with a diameter of 1.5 m.



In what way are the pressure reducing valve and the hydraulic lock useful to me?

- The pressure reducing valve is designed to limit the clamping force of the grapple arms. Normally, this is not necessary on a K.T.S Bale Grabber because you can see the clamping force on the bale.
- In order to hold the bales in a secure grip, a hydraulic lock is necessary on old tractors and loaders where the valves are worn and leaking.
- In 99% of cases, you do not need any of the above. You are not sure? Please ask us!

Extra equipment for K.T.S Bale Grabber

Loader brackets other than those mentioned above. We have more than 30 different brackets developed for our attachments.

110 mm hydraulic cylinder for tractors/loaders with hydraulic pressure lower than 100 bar.

Hydraulic lock: valve so that the grapple does not release the bale when a tractor with a worn hydraulic control is used.

Adjustable pressure reducing valve.

Extra hoses with couplings to connect from the tractor's tip outlet to the bale grabber, for front-end loaders not equipped with the third feature.

Specification K.T.S Bale Grabber

Equipment	K.T.S Bale Grabber
Grabber width	Intended for bales between 0.8 and 1.8 m Optimised for bales between 1.2 and 1.6 m
Bale weight	Up to 1,500 kg
Standard equipped with brackets	Trima/SMS or Euro A large number of other attachments are available as extra equipment
Bolted bracket on the loader	Bolted brackets, K.T.S Standard
Hydraulic hoses and quick couplings	Delivered with 2 hydraulic hoses, 1.5 m, 2 male and 2 female oil couplings 1/2" AQ (quick couplings)
Hydraulic cylinder	Yes/standard 70 mm
Parallel action grapple arms	Yes/standard
The parallel action of the grapple arms can be disengaged	Yes/standard
Dimension of tubes in the grapple arms	89 x 6 mm
Lubricable joints	Yes/standard
Number of hydraulic outlets needed	1 double acting, third feature; if the tractor is not so equipped, it is possible to draw hoses from the remote outlet at the back of the tractor.
Weight including standard brackets	225 kg