



CROSS
AGRICULTURAL ENGINEERING

Cross Ring Roller Range

Working Widths from 3 Metres to 6.2 Metres



Cross Agricultural Machinery – It's the Obvious Choice



Cross Ring Roller Range

Widths from 3 Metres to 6.2 Metres



The Cross range of Ring Rollers have been designed to ensure efficient compaction of the soil, so as to create the ideal conditions for crop growth. The robust and well manufactured machines will reduce your cultivation time and costs, optimising your tilling system for cost effective farm management.

Range Of Ring Rollers

Cross Ring Rollers can be supplied with a variety of leading tine designs to add versatility to the roller and convert it into an all-round cultivation machine.

Cross Ring Rollers can be supplied with a grass seeding kit, which includes an air seeding device to ensure fast and reliable grass seeding into a range of soil conditions.

Cross Ring Rollers can be ordered with a range of ring sizes and patterns to provide you with the best option for your farming needs. Ring diameters from 425mm (17in) to 650mm (26in) in diameter can be provided.

The additional tine bars (one or two rows) can be folded hydraulically into or out of use on the move. Each of these tines gives a wide effective working width. They are fitted with hardened points for a long working life.

In order to increase the weight of rollers and to facilitate picking stones in the field, stone boxes can be added. Each box holds 150kg of stones. During folding or at the headland, the boxes can be emptied automatically.

Why Roll?

During ploughing the soil is loosened to allow air and warmth into the soil. It is important that the soils do not dry out too much as this would impact the natural capillary action that provides a flow of nourishment to the germinating seedling.

Using a ring roller, depending on the soil conditions and tillage programme, can speed up the re-activation of the capillary process, encouraging the re-establishment of microbic action in the soil growth layer.

The Cross range of Ring Rollers Presses can provide an excellent opportunity to give the soil back its structure in advance of seeding. It will allow the creation of an optimal soil moisture level, with smaller soil clod sizes, below the surface and at the depth where the seed germination and emergence takes place.

Using the Cross Ring Roller will ensure the following:

- Field working passes are kept to a minimum
- Excess soil drying out is prevented
- Soil clod sizes are reduced
- Soil structure is enhanced
- Environment for soil microbes is enhanced





3 Metre Range

Cross 3M Ring Rollers have been designed to ensure efficient compaction of the soil in a single 3 meter single section roller. Various ring types can be fitted and all rings are steel. All rollers can be fitted with the optional wheel kit. Alternatively a 3 point linkage transport system is standard.



HD 6.2 Meter Range

Cross 6.2M Ring Rollers have been designed to ensure efficient compaction of the soil in a triple gang roller design. Various ring types can be fitted and all rings are steel. Each section of the roller will provide equal pressure and weight on the ground to ensure even rolling. This is due to the even gang size and there being no need for hydraulics when rolling. This roller can be fitted with one row of tines or paddles. All rollers are fitted with EN24T shafts



HDEX 6.2 Meter Range

Cross 6.2M HDEX Ring Rollers work the same as the HD version. The difference in the HDEX Roller is the frame size. This frame is made heavier and stronger to allow the addition of 2 rows of tines and paddles. Alternatively, a disc unit or scarifying system can be fitted. The extra heavy duty frame also allows for the fitting of a Stocks Ag seeder system to the roller. The HDEX roller is stronger than any other roller on the market due to its 40mm hinge plates, Steel Rings and EN24T shafts.



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EN24T Shafts

All Cross Ring Rollers are fitted with EN24T shafts. No mild steel is used on any shaft applications on Cross Rollers.

EN24T is the hardest and toughest material available that is still lathe machinable. The “T” condition states that the material is machinable and the EN24 states that the material is very hard and durable. This material is normally used in gears, studs, bushes, sprockets ETC.

EN24T is high strength, shock resistant and wear resistant. This is important when being used on Ring Rollers as the roller needs a shock and wear resistant shaft when working in the field.



Steel Rings

Cross Agricultural Engineering only use the best of components in their Ring Roller range. Custom built steel rings are one example of this.

Cross do not use any Cast Iron rings on their rollers. Instead all rings are made custom for Cross Agricultural Engineering with custom materials. This allows Cross to manufacture a ring that can be described as “Ductile Steel”.

These rings are what are described as “unbreakable”. Stones will not effect the rings in any way and they will not crack or shatter if struck by any foreign object.

There are 3 ring options available from Cross Agricultural Engineering. These include the following:

- 22 inch Breaker rings
- 24 inch Plain Cambridge Rings
- 26 inch plain Cambridge Rings

All of these are steel and all are fitted with extra strength spokes.



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Cultivation Toolbars – Paddles & Tines

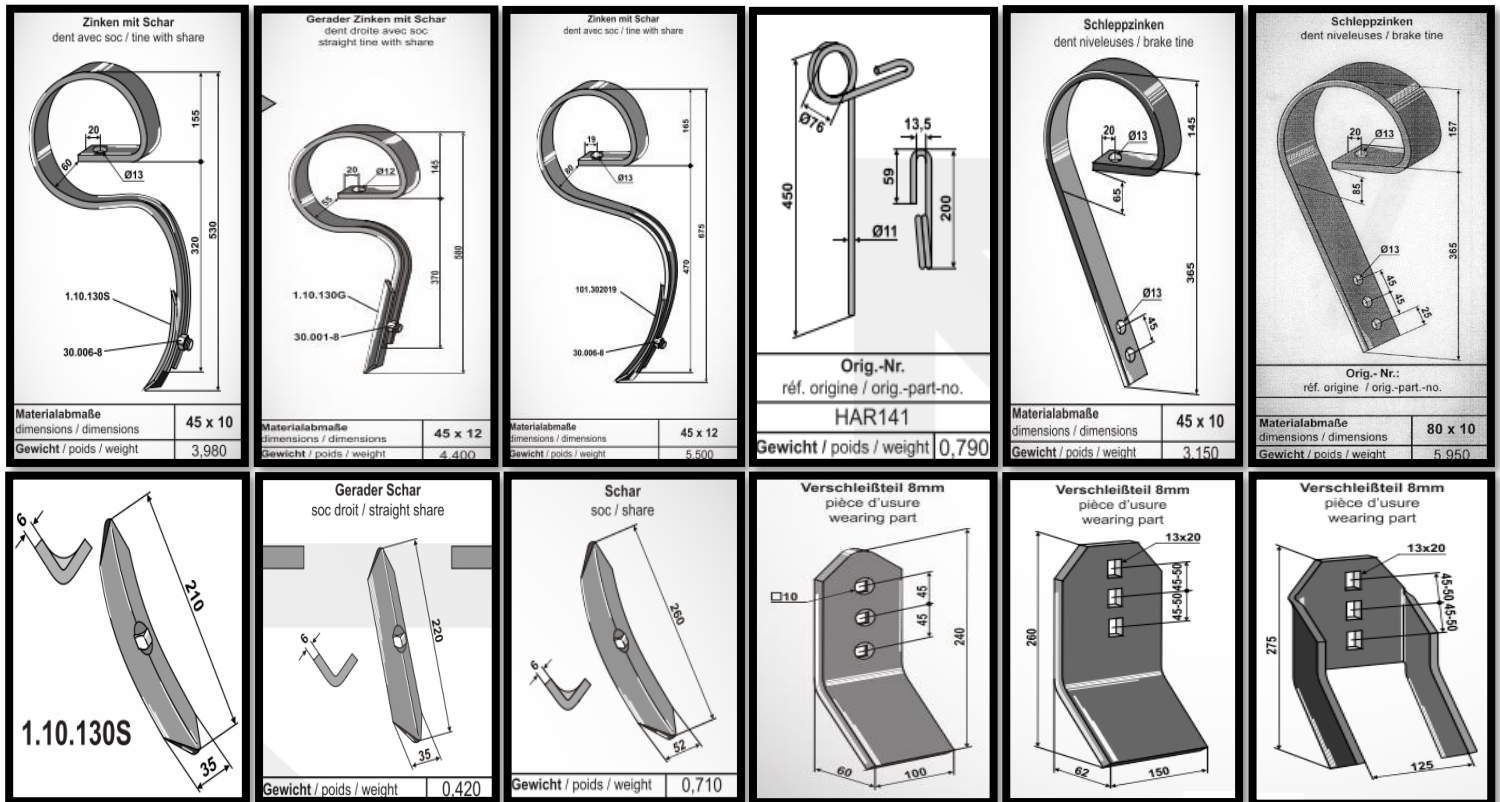
In all models of Cross Ring Rollers available there are many options for tines and paddles. The most diverse range of options can be fitted to the HDEX frame. This is due to the frames extra strength being able to take the strain of any type of toolbar combination. Below is a list of tine and paddle combinations available

- **3 Metre Ring Roller** – This roller can be fitted with a single row of grub tines or levelling paddles or can alternatively be fitted with a twin row combination of both. This machine can also be fitted with other tines such as; pig tail tines, scarifier tips, floating tines
- **6 Metre HD Ring Roller** – This roller can be fitted with a single row of grub tines or levelling paddles. It cannot be fitted with a twin row combination.
- **6 Metre HDEX Ring Roller** – This roller can be fitted with a single row of grub tines or levelling paddles or can alternatively be fitted with a twin row combination of both. The most common combination is 1 row of grub tines and 1 row of levelling paddles. This makes the ring roller a multi use tool. Grub and level after ploughing and fold the cultivation toolbar away to roll in after sowing. This machine can also be fitted with other toolbars such as; scarifier tips, floating tines, disc units



Tine & Paddle Options

On Cross Ring Rollers there are numerous tine and paddles combinations available. This allows a standard ring roller to turn itself into a multi use tool. Tines of different sizes and weights can be fitted to various size rollers. Tine & Paddle tips are selected based on the amount of cultivation you need to do on the ground.



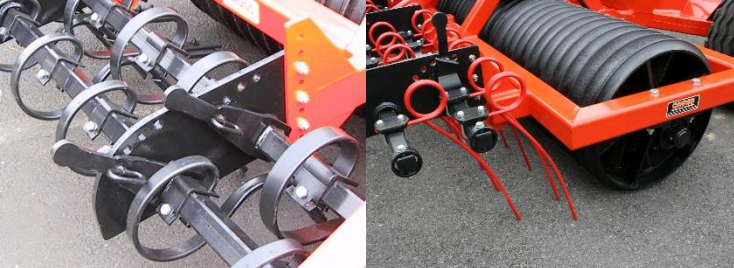
Stocks Seeders

All Cross Agricultural Engineering Ring Rollers can be fitted with a Stocks Seeder unit. This seeder unit allows for the sowing of crops in a one pass system. The seeders are suit for crops such as oil seed rape, grass, clover, mustard, turnips etc. Any broadcast style seed will work. These seeders come in 2 styles

- Vari-speed = Set speed and maintain speed according to rate in a book
- I-Con = Full GPS. Type in Kg per hectare and just drive. It does the rest.
- Half and half systems are also available through your tractors ISOBUS port on request.



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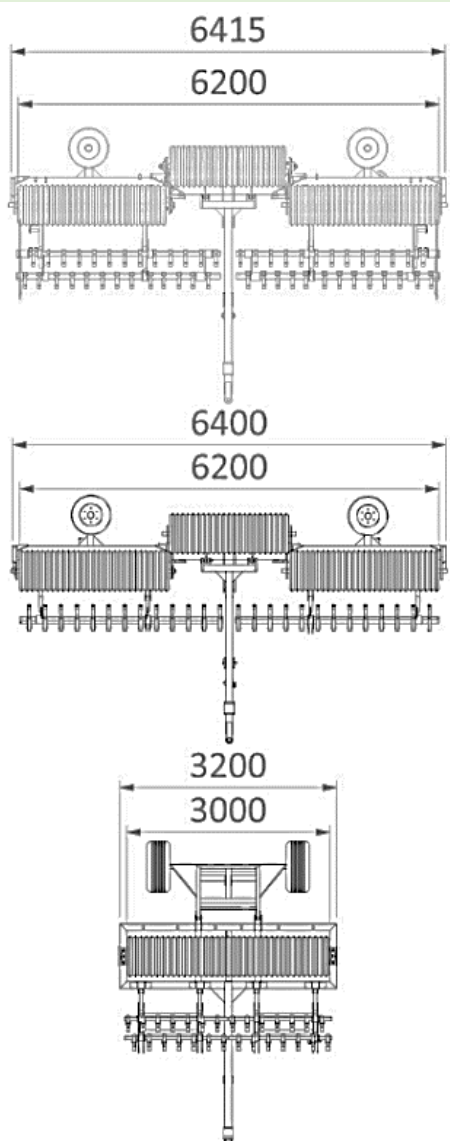


Cross Ring Roller Range

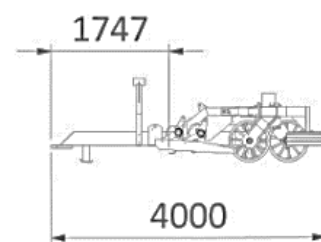
Widths from 3 Metres to 6.2 Metres

Cross Agricultural Engineering – Muck Spreader – Specifications:

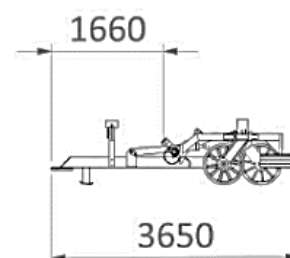
Model	CRR3-22	CRR3-24	CRR3-26	CRR6.2-22HD	CRR6.2-24HD	CRR6.2-22HDEX	CRR6.2-22HDEX	CRR6.2-22HDEX
Working Width	3.0m	3.0m	3.0m	6.2m	6.2m	6.2m	6.2m	6.2m
Transport Width	3.0m	3.0m	3.0m	2.5m	2.5m	2.5m	2.5m	2.5m
No.of Sections	1	1	1	3	3	3	3	3
No of Rings & type	27 Breaker	44 Plain	44 Plain	53 Breaker	88 Plain	53 Breaker	88 Plain	88 Plain
Ring Diameter	22 inch	24 inch	26 inch	22 inch	24 inch	22 inch	24 inch	26 inch
Weight Kg	2500 kg	2750 kg	2900 kg	3750 kg	4000 kg	4250 kg	4500 kg	4750 kg
Tine Rows	2	2	2	1	1	2	2	2
Hp Range	70-90	70-90	70-90	120	120	130	140	140



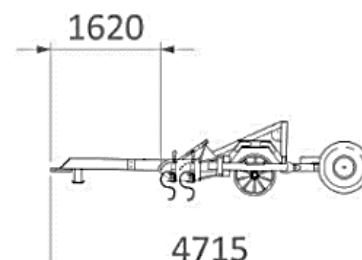
6.2 Meter
HDEX Model



6.2 Meter
HD Model



3.0 Meter





Folding Out



Custom Rollers

Cross Agricultural Engineering also manufacture a range of custom rollers up to a size of 12 Meter on request. Please contact a member of the Cross sales team for details on this.



“It’s the Obvious Choice”

Cross Agricultural Engineering is the result of 5 generations of metalworking skills within the Cross Family. This heritage has provided a solid foundation for manufacturing.

This literature is designed for worldwide circulation. Due to continuing policy of product improvement, we reserve the right to alter specifications and constructions without notice. As machines are exported to many different countries, general information, pictures and descriptions are provided; these should be taken as approximate and may include optional equipment that is not part of the standard specification. Please consult your local dealer/distributor for further information.



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