



# Tillage

Joker CT / MT / RX / HD

Tiger MT

Fortis AS



# HORSCH and North America

## A STORY OF INNOVATION, GROWTH AND PARTNERSHIP

*With deep roots in farming, the Horsch family has been ahead of its time. In the 1960s, the family pioneered farming without a plow, an approach that was groundbreaking in Europe at the time. This forward-thinking mindset created one of the most innovative agricultural equipment manufacturers in the world.*



HORSCH LLC plant – Mapleton, ND. (2024)

### A Dream That Took Root in America

From a young age, Michael Horsch, the eldest son of a German farming family, dreamed of exploring North American agriculture. In the late 1970s, he turned that dream into reality, working on farms across the United States. It was here that he discovered his passion for no-till farming and high-performance machinery – an experience that would shape both his career and the future of HORSCH.

Upon returning to Germany, Michael, who was inspired by American agriculture and supported by his family, created his first air seeder with a large central seed tank. This development was followed by the creation of a self-propelled seeder called the Terra-Trac, an innovative three-wheel tractor. These groundbreaking projects led to the founding of HORSCH Maschinen in 1984.

Michael's siblings shared his passion for innovation and agriculture. His brother, Philipp, after three years practical farming experience in Germany, worked one year in the late 1980s in the USA as well, volunteering at Mennonite Central Committee in Pennsylvania. During this time he also was able to follow his agricultural farming interests and was deeply impressed by the professionalism and advanced technology in American agriculture. Inspired by what he saw, he joined Michael at HORSCH Maschinen in 1990.



The self-propelled seeder, Terra-Trac. (1984)



Photo of Michael Horsch's USA visa application. (late 1970s)

### From Europe to the World

The 1980s and 1990s were transformative decades for both HORSCH and the European agricultural industry. Drawing inspiration from North America, the company focused on developing large-scale, high-performance equipment – a bold move that challenged European norms. When the Iron Curtain fell in 1989, vast Eastern European farms needed precisely the kind of high-capacity equipment HORSCH had been developing. As one of the few manufacturers prepared for this shift, HORSCH quickly gained the trust of large-scale farmers, establishing its reputation as a leader in agricultural technology.

With this success, the company expanded its reach, bringing innovative solutions to farmers across five continents in more than 45 countries. Today, HORSCH operates in all major cereal and row crop growing regions, providing specialized equipment for seeding and planting, soil preparation, and plant protection.

### A New Chapter in North America

Over 25 years ago, HORSCH's journey in the United States began. Then in 2013 the company took a major step by building a production facility in North Dakota. This marked the beginning of a new era – one that would bring HORSCH closer to North American farmers and enable the company to develop solutions tailored to their unique conditions.

In 2023, Lucas Horsch, the eldest son of Michael and Cornelia Horsch, moved to North Dakota with his family to lead HORSCH LLC. Lucas, a farmer for nearly a decade, had previously managed the HORSCH research and development farm in the Czech Republic, alongside his brother, Constantin Horsch. Before relocating to the USA, he managed planter research and development – an area of strategic importance for the company.

Now at the helm of HORSCH LLC, Lucas is focused on strengthening relationships with North American farmers and dealers. Through open dialogue and collaboration, he is driving the expansion of HORSCH's product portfolio and dealer network, reinforcing the company's role as a major player in agricultural technology. As part of these efforts, HORSCH invested in a new facility dedicated to training and marketing, called AgTec, located in Cottage Grove, Minnesota. This new investment aims to further enhance connections with partners and farmers by providing increased resources and support.



HORSCH CA warehouse – Saskatoon, SK. (2024)



Joker RX – high speed disc exclusively developed for the North American market.



Horsch sons with their father. (early 1990's)



Lucas Horsch at a field day in Mulberry, IN. (2024)



HORSCH AgTec – Cottage Grove, MN. (2025)

### A Commitment to Farmers, Innovation, and the Future

Wherever HORSCH operates, its equipment is recognized for productivity, reliability, and simplicity – values that stem from the Horsch family's deep passion for agriculture and its commitment to learning from farmers around the world. By staying close to the people who work the land, HORSCH continues to develop advanced solutions that anticipate the needs of modern agriculture.

With a strong foundation in North America, an unwavering focus on innovation, and a vision for the future, HORSCH is not only growing its presence – it's creating the next generation of agricultural technology.

As a global leader in agricultural technology, HORSCH continues to expand its impact through innovation and deep connections with farmers. With annual revenue exceeding \$1 billion, the company operates six production facilities worldwide, manufacturing and developing equipment tailored to the needs of each region. HORSCH's diverse product portfolio spans multiple categories, ensuring that farmers have access to solutions designed specifically for their local conditions. By working closely with farmers and integrating their feedback into product development, HORSCH remains committed to delivering cutting-edge, high-performance machinery that drives efficiency and productivity in modern agriculture.

# Joker CT

## PRECISE AND FAST STUBBLE CULTIVATION, INCORPORATION OF COVER CROPS OR ORGANIC FERTILIZERS

The HORSCH Joker CT is a compact disc harrow available in 11.5' working width for 3-point hitch systems. It is designed for lighter tasks and smaller operations, providing a more compact solution for those who do not require the wider range and heavier build of the Joker MT. It stands out for its robust construction and easy handling. Its range of applications includes initial shallow stubble cultivation at depths of 2" to 3", seedbed preparation with a high proportion of fine soil, and the incorporation of organic fertilizers such as manure, slurry, or green manure. It is also well-suited for breaking up and chopping cover crops. With a wide selection of packer options, optimal soil reconsolidation can be achieved for all conditions. This is particularly important for stubble cultivation and seedbed preparation. Thanks to its

high clearance, achieved by the arrangement of two discs on one arm, the Joker CT is also excellent for incorporating long crop residues. With very high working speeds of up to 12 mph, it offers high acreage performance with low draft requirements. As with any disc harrow, the quality of work with the Joker improves with increased working speed.

Due to the aggressive angle of the discs with a serrated profile, the Joker has excellent penetration into the soil. If there are still issues with soil penetration, it is possible to equip the machine with additional weights to improve entry. In summary, the HORSCH Joker is a compact disc harrow that is perfect for shallow tillage, stubble cultivation, incorporating organic matter, or seedbed preparation.

- Produces a high proportion of fine soil in the germination zone
- Efficient soil reconsolidation in the germination zone
- Low susceptibility to clogging with long crop residues and shallow tillage

- Maximum clearance with paired arrangement of disc elements
- Excellent penetration due to aggressively serrated discs and high machine weight



Ideal for incorporating high amounts of harvest residues

Simple design, also for smaller tractors



## TECHNICAL SPECIFICATIONS

| Joker CT                                      | 3.5 CT                             |
|---|------------------------------------|
| Working width (ft. in.)                       | 11' 6"                             |
| Transport width (ft. in.)                     | 11' 6"                             |
| Transport height (ft. in.)                    | 6' 3"                              |
| Length (ft. in.)                              | 8' 2"                              |
| Weight (lbs)                                  | 3970 - 6280                        |
| DiscSystem discs Ø (in.)                      | 20" - 22.5"                        |
| DiscSystem disc thickness (in.)               | 0.25"                              |
| Number of DiscSystem discs (Piece)            | 28                                 |
| Cutting angle DiscSystem discs                | 17                                 |
| SCV Requirements                              | 0 (+1 with hydr. depth adjustment) |
| Horsepower requirement (HP)                   | 100 - 140                          |
| Horsepower requirement incl. Mono TG (HP)     | 160 / 220                          |
| Number of tines Mono TG (Piece)               | 6                                  |
| Tine spacing Mono TG (in.)                    | 59                                 |
| Implement attachment 3-point linkage Joker CT | 3-point Cat. II/III                |

# Joker MT

## PRECISE AND EFFICIENT SHALLOW TILLAGE ON A MOUNTED PLATFORM

One of the key differences between the Joker MT and the Joker CT models is the construction and width range. The Joker MT is built heavier, making it more suitable for demanding tasks and larger operations. It offers a broader range of working widths compared to the Joker CT, which makes it ideal for larger fields and more intensive agricultural needs.

The HORSCH Joker MT is a robust and versatile compact disc harrow with a 3-point linkage, available in working widths ranging from 12' to 22'. It excels due to its sturdy design and straightforward operation. The Joker MT is ideal for a variety of applications, from initial shallow stubble cultivation at depths of 1.5" to 3.5", seedbed preparation with a high amount of fine soil, to the incorporation of organic fertilizers. Additionally, it can be used for cultivating

and incorporating cover crops. Thanks to its high clearance, achieved by the arrangement of two discs on one arm, the Joker MT is also perfect for incorporating heavy harvest residues. With an operational speed of up to 12 mph, it allows for a high acre output while maintaining a relatively low horsepower requirement. As with any disc harrow, the work result of the Joker improves with increased operational speed.

Due to the aggressive angle of the discs with a serrated profile, the Joker easily penetrates the soil. The HORSCH Joker series, including both the MT and CT models, is perfect for shallow tillage, stubble cultivation, incorporation of organic material, or seedbed preparation, with the MT model offering enhanced capabilities for larger-scale operations.

- Produces a high amount of fine soil in the germination horizon
- Efficient consolidation in the germination horizon
- Reduced problems in case of long harvest residues and shallow cultivation

- High clearance as the disc elements are arranged in pairs
- Optimum penetration due to aggressively serrated annular plates and high machine weight



Simple design, for smaller tractors



Joker MT with MiniDrill



## TECHNICAL SPECIFICATIONS

| Joker MT                        | 13 MT             | 15 MT             | 20 MT             | 22 MT (folding)   |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|
| DiscSystem discs Ø (in.)        | 20"               | 20"               | 20"               | 20"               |
| Working width (ft. in.)         | 11' 8"            | 13' 4"            | 18' 4"            | 21' 8"            |
| Transport width (ft. in.)       | 13' 4"            | 15' 0"            | 20'               | 24' 3"            |
| Transport height (ft. in.)      | 4' 3"             | 4' 3"             | 4' 3"             | 12' 3"            |
| Transport length (ft. in.)      | 7' 3"             | 7' 3"             | 7' 3"             | 8' 5"             |
| Weight with max. ballast (lbs)  | 6,458             | 7,585             | 9,635             | 11,500            |
| DiscSystem disc thickness (in.) | 0.25"             | 0.25"             | 0.25"             | 0.25"             |
| Number of DiscSystem discs      | 24                | 32                | 44                | 52                |
| SCV Requirements                | ---               | ---               | ---               | 2                 |
| Horsepower requirement (HP)     | 120 - 160         | 160 - 180         | 180 - 240         | 230 - 300         |
| 3PointLinkage                   | 3 - point Cat III | 3 - point Cat III | 3 - Point Cat III | 3 - point Cat III |

# Joker RX

PIONEER AND MOST PROVEN HIGH-SPEED COMPACT DISC  
IN NORTH AMERICA



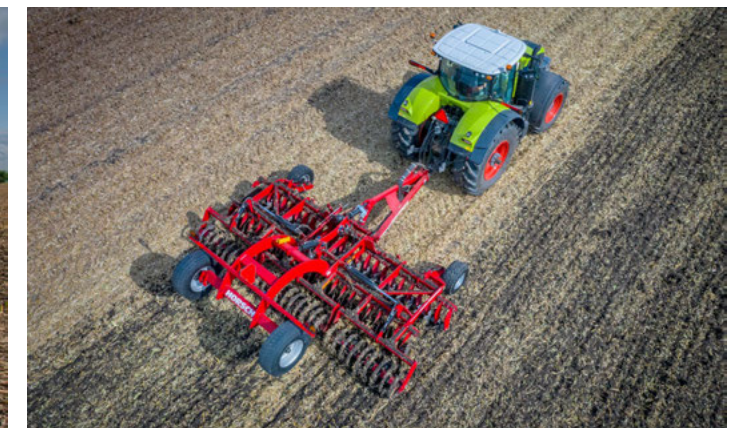
- Produces a high amount of fine soil in the germination horizon
- Efficient consolidation in the germination horizon
- Resistant to long harvest residues and shallow cultivation
- High clearance with one disc per arm
- Optimum penetration characteristics due to aggressively serrated hollow discs and high machine weight
- Working speed up to 10+ mph

Built on the robust foundation of the European Joker RT, the Joker RX has been meticulously adapted for the American market, inheriting all the esteemed qualities and capabilities of its predecessor. This includes its proficiency in shallow stubble cultivation, seedbed preparation, residue mixing, and mechanical weeding. After undergoing specific design modifications in the U.S., the Joker RX emerges as even more suited to American farming needs. With a higher underframe clearance and more space between the two rows of discs, the Joker RX is capable to effectively handling large corn residues, making it an indispensable tool for the diverse and demanding agricultural practices found across the United States. As a trailed version, the high speed disc is available in the following working widths: 20, 25, 30, 35, 40 ft. The operational speed of up to 12 mph allows for high work rates. To precisely control the discs in the soil, the Joker RX is equipped with a wide rubber torsion suspension. This allows for a high clearance for organic material and reduces the chance of plugging. In addition, the 17° and 17° degree angle helps to evenly work the ground and achieve a superior results. The serrated annular discs as well as the weight of the machine guarantees penetration of the machine even in dry conditions.

Depending on the equipment of tractor, the farmer can choose between an articulating hitch with cat. III or VI or an hitch kit with at. IV. Due to these and other options the Joker RX can be optimized to the farmers requirements. To prevent the machine from bouncing while working in the field, the transport wheels are equipped with an intelligent suspension system called SoftRide.



Robust design for long service life



Ideal for initial stubble cultivation or incorporation of fertilizer or cover crops

# TECHNICAL SPECIFICATIONS

| Joker RX   | 20 RX   | 25 RX   | 30 RX   | 30 RX (5-sections)  | 35 RX (3-sections)  | 35 RX (5-sections)  | 40 RX   |
|--|---|---|---|---|---|---|---|
| DiscSystem discs Ø (in.)                                     | 20"   | 20"   | 20"   | 20"   | 20"   | 20"   | 20"   |
| DiscSystem disc thickness (in.)                              | 0.25"   | 0.25"   | 0.25"   | 0.25"   | 0.25"   | 0.25"   | 0.25"   |
| Cutting angle DiscSystem discs (###NO_TRANSLATION-degree###) | 17  | 17  | 17  | 17  | 17  | 17  | 17  |
| Working width (ft. in.)                                      | 20' 10"   | 25' 10"   | 30' 10"   | 30' 10"   | 35' 10"   | 35' 10"   | 40' 10"   |
| Transport width (ft. in.)                                    | 13' 7"  | 13' 7"  | 18' 7"  | 15'   | 20' 3"  | 15' 9"  | 15' 9"  |
| Transport height (ft. in.)                                   | 11' 11"   | 14' 1"  | 14' 2"  | 11' 9"  | 15' 11"   | 13' 7"  | 13' 7"  |
| Length (ft. in.)   | 22' 5"  | 22' 5"  | 22' 5"  | 22' 5"  | 22' 5"  | 22' 7"  | 22' 7"  |
| Axle load (lbs)  | 10,175  | 11,875  | 14,250  | 16,300  | 16,200  | 19,200  | 20,400  |
| Vertical load (lbs)  | 4,825   | 5,625   | 6,750   | 9,200   | 7,800   | 10,800  | 11,400  |
| Weight (lbs)   | 15,000  | 17,500  | 21,000  | 25,500  | 24,000  | 25,000  | 31,800  |
| Tire size support wheels                                     | ---   | ---   | ---   | ---   | ---   | 340/60R15   | 340/60R15   |
| Tire size transport wheels                                   | VF385/65R22,5   | VF385/65R22,5   | VF445/65R22,5   | VF385/65R22,5   | VF445/65R22,6   | VF445/65R22,7   | VF445/65R22,8   |
| Number of DiscSystem discs (Piece)                           | 50  | 62  | 74  | 74  | 86  | 86  | 98  |
| SCV Requirements   | 4   | 4   | 4   | 4   | 4   | 4   | 4   |
| Horsepower requirement (HP)                                  | 240 - 300   | 300 - 375   | 360 - 450   | 360 - 450   | 420 - 530   | 420 - 530   | 500+  |
| Drawbar linkage options                                      | Cat IV / Cat V / 3 - point Cat III (quick hitch compatible) | Cat IV / Cat V / 3 - point Cat III (quick hitch compatible) | Cat IV / Cat V / 3 - point Cat III (quick hitch compatible) | Cat IV / Cat V / 3 - point Cat III (quick hitch compatible) | Cat IV / Cat V / 3 - point Cat III (quick hitch compatible) | Cat IV / Cat V / 3 - point Cat III (quick hitch compatible) | Cat IV / Cat V / 3 - point Cat III (quick hitch compatible) |



- Shallow primary tillage
- Efficient seedbed preparation
- Mechanical weeding
- Incorporation of fertilizer /manure
- The packer is connected to the chassis for a comfortable road transport

# Joker HD

## JOKER HD MASTERING DEEP TILLAGE AND PERFECTING YOUR SEEDBED FOR MAXIMUM YIELDS

The Joker HD is a robust and high-performance disc harrow designed for primary tillage. Heavier and capable of deeper working depths than the Joker RX, it reaches up to 10", making it ideal for deep soil loosening and compaction breaking.

With working widths of 20' and 30', the Joker HD efficiently covers large areas. It features a horizontal tillage concept for uniform soil structure and optimal residue utilization, crucial for seedbed preparation.

Maintenance-free rubber-mounted torsion disc arms

allow the 24" notched blades, set at a 22-degree angle, to float over field obstacles, ensuring thorough horizontal soil fracture and intensive mixing of soil and residue. The RollFlex finishing system breaks up clumps and levels the soil, promoting accelerated residue decomposition and effective field conditioning.

Perfect for incorporating fertilizer, weed control, and soil conditioning, the Joker HD secures valuable residues against wind and water erosion, delivering consistent and superior tillage performance.

- Works up to 10" deep for effective soil loosening.
- Built to handle tough field conditions and large-scale operations.
- Mixes and decomposes crop residues quickly, reducing erosion.
- Rubber-mounted torsion disc arms require no maintenance.
- Ensures uniform soil structure and optimal seedbed preparation.



Ideal for high amounts of harvest residues



Intensive mixing up to 7" deep



## TECHNICAL SPECIFICATIONS

| Joker HD                                | 20 HD                  | 30 HD                  |
|---|------------------------|------------------------|
| Working width (ft. in.)                 | 20' 0"                 | 30' 0"                 |
| DiscSystem discs Ø (in.)                | 24"                    | 24"                    |
| DiscSystem disc thickness (in.)         | 0.25"                  | 0.25"                  |
| Cutting angle DiscSystem discs          | 17                     | 17                     |
| Transport width (ft. in.)               | 13' 7"                 | 17' 4" with Lights 19" |
| Transport height (ft. in.)              | 13' 0"                 | 14' 10"                |
| Length (ft. in.)                        | 24' 2"                 | 24' 2"                 |
| Axle load (lbs)                         | 12,600 - 15,000        | 13,700 - 16,600        |
| Vertical load (lbs)                     | 2,900 - 4,500          | 2,900 - 4,500          |
| Tire size support wheels                | 400 / 60 - 15.5        | 400 / 60 - 15.5        |
| Tire size transport wheels              | 385 / 65 - 22.5        | 385 / 65 - 22.5        |
| Number of DiscSystem discs (PCE)        | 50                     | 58                     |
| SCV Requirements (PCE)                  | 4                      | 4                      |
| Implement attachment lower link         | Cat. III - III/IV - IV | Cat. III - III/IV - IV |
| Implement attachment adjustable drawbar | Drawbar Cat. IV / V    | Drawbar Cat. IV / V    |

# EQUIPMENT



Front support wheels



Hydraulic Depth Control



Scale to adjust depth in the back



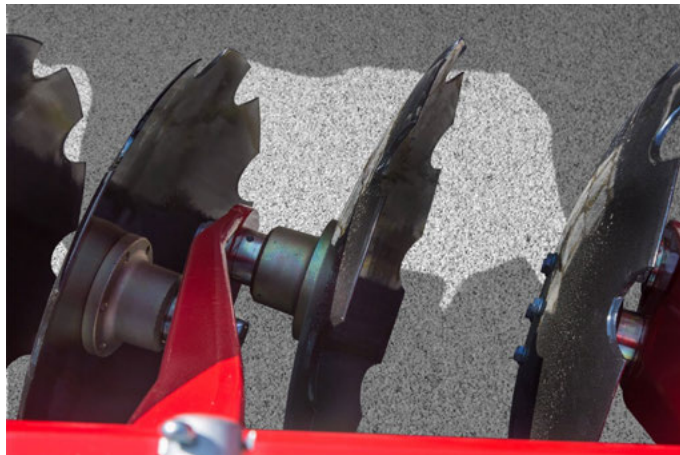
Joker CT equipped with MiniDrill



Easy depth adjustment from the cab



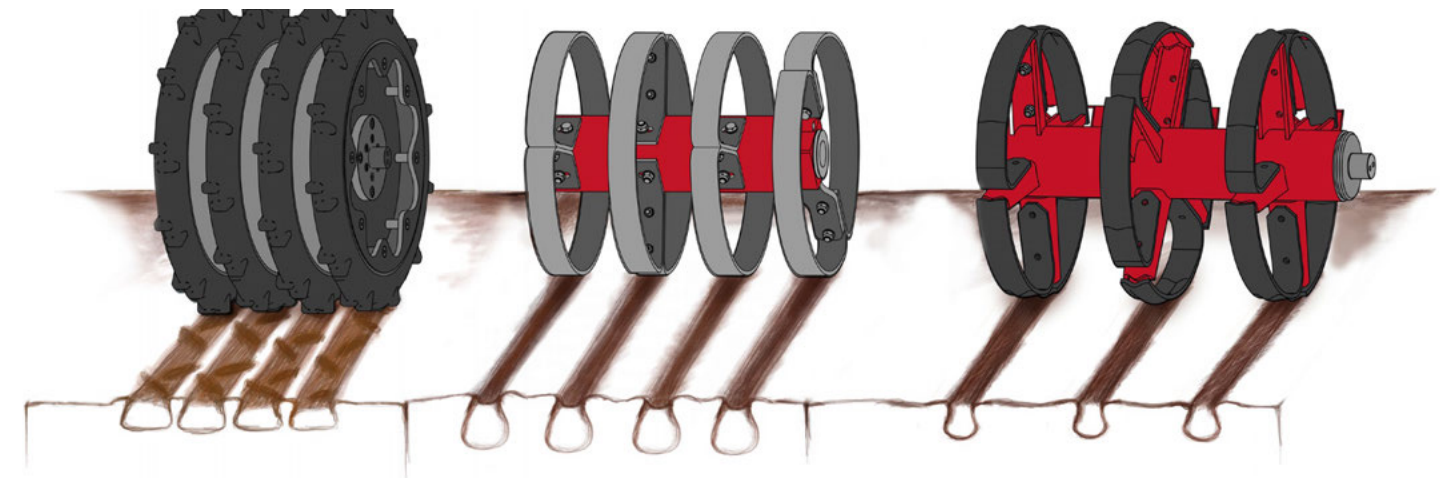
HORSCH TouchDepth controller



Disc notched Ø 20"



Vortex disc Ø 20"



## OptiRoll packer

- Excellent rolling characteristics
- OptiRoll packer Ø 29"
- Weight per ft working width: 253 lbs

## RingFlex packer

- High contact area due to 2.7" wide ring elements
- Additionally mixes in organic material
- Can be converted to a winter packer
- Weight per m working width: 265 lbs

## RollFlex packer

- Deep consolidation with loose soil surface
- High levelling capacity due to intermediate levelling tine
- Self-cleaning, without scrapers
- High operational reliability

|                     | Joker RX 20 - 30 | Joker RX 35 - 40 | Joker CT | Joker MT | Joker HD |
|---------------------|------------------|------------------|----------|----------|----------|
| EDC                 | ✓                | ✓                |          |          |          |
| Hydraulic DC        | ✓                | ✓                | ✓        |          | ✓        |
| Front support wheel | ✓                | ✓                |          |          | ✓        |
| RingFlex            | ✓                | ✓                | ✓        | ✓        |          |
| RollFlex            | ✓                | ✓                |          |          | ✓        |
| OptiRoll            | ✓                | ✓                |          |          |          |
| MiniDrill           |                  |                  | ✓        | ✓        |          |
| Disc Serrated       | ✓                | ✓                | ✓        | ✓        | ✓        |
| Disc vortex         | ✓                | ✓                |          |          |          |

# Tiger MT

INNOVATIVE COMBINATION PRIMARY TILLAGE TECHNOLOGY  
PROVIDING TRUE AGRONOMIC BENEFITS



Intensively mixing tillage and deep loosening up to 14" – this is what the HORSCH Tiger MT stands for. The even mixing of harvest or cover crop residues over the whole cultivation horizon provides optimum conditions for the following crop. The well-known TerraGrip tine with a release force of up to 1,800 lbs and a maximum trip height of 11" allows for using the Tiger at almost all sites. Combined with the well-proven HORSCH point and wing options, it can work at a depth of up to 14". In combination with the 2-row disc system, organic material is crushed and mixed in perfectly. Due to his high frame clearance of 34" and the large tine spacing of 36", high amounts of harvest residues are no problem at all. The excellent mixing accelerates the decomposition process, and interfering layers for the following crop are prevented. Behind the tine section, the 1-row disc system guarantees an optimum levelling in front of the packer. The road transport is carried out directly on the tire packer. Thus, a comfortable transport is guaranteed. The Tiger MT, is the ideal machine to incorporate grain corn stalks, sunflowers and cover crops.

- Combination of disc system and tine system for high amounts of organic material
- Robust design for hard conditions and long service life

- Maintenance-free disc system and TerraGrip tine system with a release force of 1,700 lbs and a very long service life



Robust frame for braking compaction zones



Intensive tillage due to discs and shanks

# TerraGrip III

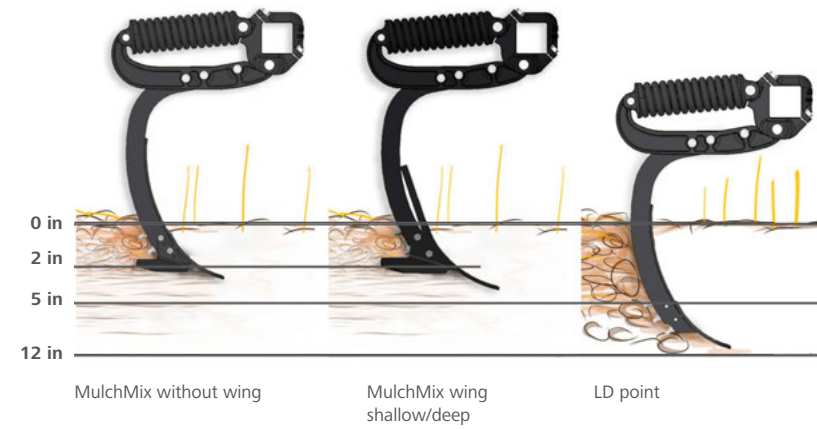


The TerraGrip tine system impresses due to its flexibility with regard to the various point and wing options. The low horsepower requirement and the excellent mixing behavior are due to the curved shape and the low angle of the point.

- Release force from 1100 to 1700 lbs (depending on the model)
- Flexible mounting of point and wing options
- Low horsepower requirement due to curved deflector
- Optimum residue mixing even at shallow working depths



# Points



The point range covers all requirements for loosening and breaking compaction up to a working depth of 14 inch.

## MulchMix without wing

- Deep loosening and intensive mixing of the soil
- Working depths: 6 to 12"
- Carbide tips

## MulchMix wing shallow/deep

- Wings on the left and right side for all TerraGrip shank
- 13" wide wings
- Two setting angles depending on the working depth
- Available as standard and a carbide version

## LD point

- LD = Low Disturbance point
- 1.5" wide point for deep loosening without moving too much soil
- Working depth: 8 to 12"



MulchMix point without wing



MulchMix wing shallow/deep



LD points

# EQUIPMENT

## Packer systems

The tire packer is responsible for consolidation but also serves as the transport wheels. For particularly light fields where standard packers tend to sink in. Gentle turning on the headlands as the weight is distributed over the whole working widths. Simple and robust design of the entire machine.



### Tire packer 7.50-16 AS / 210/95-24 AS

- Excellent load-carrying capacity on light soils due to large tire diameter
- Low horsepower requirement due to large contact area and wide spacings
- Strip consolidation

### Tire packer 210/95-24 AS + TopCage

- Excellent load-carrying capacity on all soil types, with a finer field finish
- Allows for more output when in wet field conditions, with an optional crumbler on hydraulic arms
- Wider main frame making transportation easier and safer

## Levelling discs

The Tiger is equipped with a row of levelling discs to ensure an optimum finish.



# TECHNICAL SPECIFICATIONS

| Tiger MT  | 4 MT  | 5 MT  | 6 MT  | 8 MT  |
|---|---|---|---|---|
| Working width (ft. in.)                           | 13' 1"                                      | 16' 4"                                      | 19' 7"                                      | 24' 7"                                      |
| Transport width (ft. in.)                         | 9' 10"                                      | 9' 10"                                      | 9' 10"                                      | 9' 10"                                      |
| Transport height (ft. in.)                        | 9' 6"                                       | 10' 4"                                      | 11' 10"                                     | 13' 7"                                      |
| Transport height with MiniDrill (ft. in.)         | 11' 6"                                      | 11' 6"                                      | -   | -   |
| Length with tire packer 7.50-16 (ft. in.)         | 28' 3"                                      | 28' 3"                                      | 28' 3"                                      | 28' 3"                                      |
| Length with tire packer 210 / 95 - 24 (ft. in.)   | 29' 6"                                      | 29' 6"                                      | 29' 6"                                      | 29' 6"                                      |
| Length with double RollPack packer (ft. in.)      | ---   | ---   | ---   | 30' 6"                                      |
| Axle load tire packer (lbs)                       | 10,200 - 15,000                             | 10,900 - 16,400                             | 13,100 - 18,800                             | 15,500 - 22,100                             |
| Vertical load tire packer (lbs)                   | 4,900 - 6,200                               | 5,800 - 7,100                               | 6,200 - 8,200                               | 8,600 - 9,300                               |
| Axle load swivel chassis (lbs)                    | 13,300 - 15,500                             | 15,000 - 17,200                             | 16,400 - 18,800                             | 18,800 - 22,100                             |
| Vertical load swivel chassis (lbs)                | 4,000 - 5,800                               | 4,900 - 6,700                               | 6,200 - 7,100                               | 6,700 - 8,200                               |
| Number of DiscSystem discs (Piece)                | 20  | 24  | 28  | 36  |
| Disc spacing (in.)                                | 15.3"                                       | 15.3"                                       | 16.5"                                       | 16.1"                                       |
| Number of tines (Piece)                           | 9   | 11  | 13  | 17  |
| Tine spacing in one row (in.)                     | 35.8"                                       | 35.8"                                       | 37.8"                                       | 35.4"                                       |
| Tine spacing (in.)                                | 17.9"                                       | 17.9"                                       | 17.9"                                       | 17.7"                                       |
| Frame height (in.)                                | 33.4"                                       | 33.4"                                       | 33.4"                                       | 33.4"                                       |
| SCV requirements lower link                       | 3 (+ 1 per Option)                          | 3 (+ 1 per Option)                          | 3 (+ 1 per Option)                          | ---   |
| SCV requirements adjustable drawbar               | 4 (+ 1 per Option)                          | 4 (+ 1 per Option)                          | 4 (+ 1 per Option)                          | 4   |
| Horsepower requirement (HP)                       | 300 - 450                                   | 400 - 550                                   | 500 - 650                                   | 500 - 650                                   |
| Tire packer size Ø (in.)                          | 7.50 - 16 AS / 78 or 210 / 95 - 24 AS / 100 | 7.50 - 16 AS / 78 or 210 / 95 - 24 AS / 100 | 7.50 - 16 AS / 78 or 210 / 95 - 24 AS / 100 | 7.50 - 16 AS / 78 or 210 / 95 - 24 AS / 100 |
| Double RollPack packer Ø (in.)                    | 24.4"                                       | 24.4"                                       | 24.4"                                       | 24.4"                                       |
| Lower link linkage                                | Cat III - III / IV - IV                     | Cat III - III / IV - IV                     | Cat III - III / IV - IV                     | Cat III - III / IV - IV                     |
| Adjustable drawbar linkage hitch (in.)            | Pin Ø 2"                                    | Pin Ø 2" - 3"                               | Pin Ø 2" - 3"                               | Pin Ø 3"                                    |
| Adjustable drawbar linkage hitch ball joint (in.) | Drawbar eye Cat IV                          | Drawbar eye Cat IV / V                      | Drawbar eye Ø 2" - 3"                       | Drawbar eye Ø 3"                            |
| Adjustable drawbar linkage ball head              | K 80  | K 80  | K 80  | K 80  |



# Fortis AS

A NEW DEFINITION OF FLEXIBILITY AND PRECISION



The Fortis AS is a robust cultivator that was developed from scratch. The objective was to design a cultivator that takes into account the increasing tractor horsepower and also meets the new requirement on clearance for more mixing quality of organic material.

To meet all these demands, the Fortis AS has a 4-rank design which with a shank spacing of 10.6'' and a frame height of 34'' provide an enormous clearance even at maximum working depth. The shank spacing of 10.6'' helps the mixing quality. Due to the large radius of the shank deflector, the well-known TerraGrip shank system ensures a low horsepower requirement in the field. The design of the 4-rank layout is striking. In this respect, the developers came up with something special: The last rank of shanks was extended to get as closely as possible to the levelling discs and at the same time create enough space for the transport wheels. Thus, the flow of soil is perfectly led into the levelling discs and an excellent levelling is achieved. The transport wheels can be moved safely away from the working area and do not impede the flow of soil in the machine. This contributes to the large clearance which is combined with a perfect levelling quality.

The HORSCH Fortis AS can be set to meet individual requirements of different operations and conditions. As standard, the machine is equipped with a weight transfer system to increase traction that transfers a vertical load of up to 1.3 t to the rear axle of the tractor. The drawbar and chassis of the machine are used to transfer the weight via the top cylinder to the tractor drawbar. If required, the weight transfer system can, of course, be switched off. The well-proven MulchMix point system with its wide range of point and wing options also contributes to the flexibility of this machine. Last but not least, the packer: the grower can choose between three packer options. With regard to double packers, the machine can be equipped with the well-known SteelFlex or the double Rollpack packer. Depending on the customer requirements, the double packers can be pre-tensioned hydraulically. This pre-tensioning prevents the first packer roller from sinking in and thus, increases the load-carrying capacity. The OptiRoll packer with a large diameter of 30'' is available as a single packer. It excels due to its high carrying capacity on light soils as well as the high clearance between the rubber rings.

- 4-rank design and a shank spacing of 10.6'' ensure low horsepower requirement and intensive mixing
- Robust design for hardest conditions and long service life

- Large selection of packer options for intensive consolidation
- Maintenance-free TerraGrip shank system with a release force of 1200 lbs and a very long service life



Fortis AS in cereal stubble



Front support wheels for even depth control

# TerraGrip III

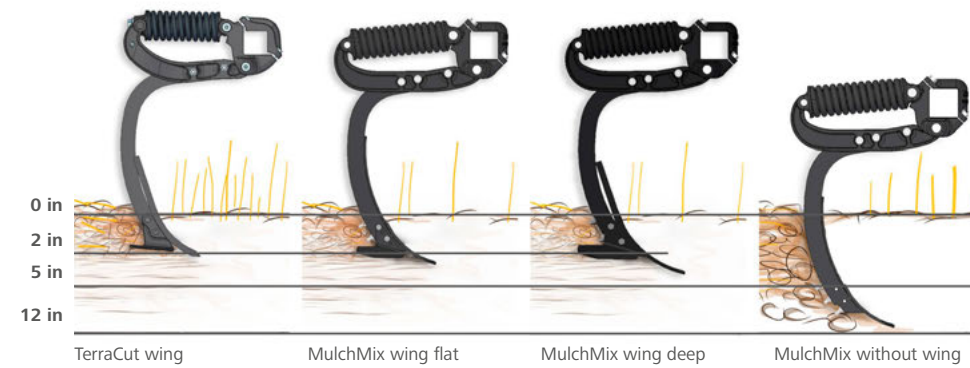


The TerraGrip tine system impresses due to its flexibility with regard to the various point and wing options. The low horsepower requirement and the excellent mixing behavior are due to the curved shape and the low angle of the point.

- Release force from 1100 to 1700 lbs (depending on the model)
- Flexible mounting of point and wing options
- Low horsepower requirement due to curved deflector
- Optimum residue mixing even at shallow working depths



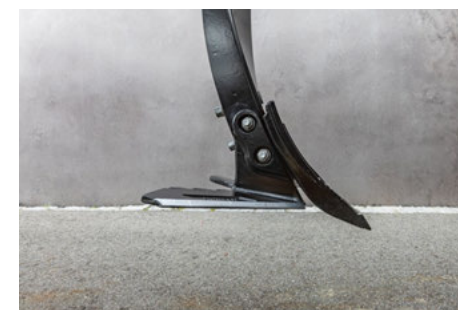
# Points and wings



Due to the wide range of point and wing combinations the cultivator can be used for almost all cultivation depths from shallow cutting at 1 to 2" to primary soil cultivation. This increases the application range enormously.

## TerraCut wing

- Wings on the left and right side for all TerraGrip shanks
- Cutting width: 16"
- Low setting angle
- Excellent penetration behaviour due to angle of the point



TerraCut wing

## MulchMix wing shallow/deep

- Wings on the left and right side for all TerraGrip shank
- 13" wide wings
- Two setting angles depending on the working depth
- Available as standard and a carbide version



MulchMix wing shallow/deep

## MulchMix without wing

- Deep loosening and intensive mixing of the soil
- Working depths: 6 to 12"
- Carbide tips



MulchMix point without wing

# PACKER SYSTEMS

The depth effects and the main applications of the different HORSCH packer versions.



## Double RollPack packer

The double RollPack Packer is ideal for light and medium soils. The large contact area and the excellent consolidation are due to the wide rings and the low packer weight.

- Steel ring roller with a diameter of 22"
- Deep strip consolidation
- Flexible conditions of use
- Weight per ft working width: 40 lbs

## Rigid packer frame with single and double packers

- Wide range of packer options
- Depending on the conditions, the spacing and the height of the packer can be adjusted via several adjustment plates
- Different consolidation zones depending on the packer



Rigid packer frame with double packer

## Hydraulically pre-tensioned packer

- Rear packer roller can be pre-tensioned
- Front packer roller is less pressured
- Prevents the machine from sinking in soft conditions



SteelFlex packer with hydraulically pre-tensioned RingFlex

# Hydraulic depth adjustment

Due to the fully hydraulic depth adjustment, the farmer can adjust the working depth of the Fortis individually and infinitely variably while driving. This is always combined with a turning on the transport wheels. If the machine is equipped with a hydraulic depth adjustment and clips to set the working depth, it can turn on the packer.

- Hydraulic depth adjustment
- Can be adjusted while driving
- Turning on the transport wheels



Working depth adjustment from the driver seat

# EQUIPMENT



Front support wheels for even depth control



Perfect levelling due to compact design



4-bar design for intensive mixing



Compact for road transport

# TECHNICAL SPECIFICATIONS

| Fortis AS                               | 6 AS                           | 7 AS                           | 9 AS                                 |
|---|--------------------------------|--------------------------------|--------------------------------------|
| Working width (ft. in.)                 | 18' 4"                         | 21' 12"                        | 29' 2"                               |
| Transport width (ft. in.)               | 9' 10"                         | 9' 10"                         | 9' 10" (11' 6" with mech. TerraGrip) |
| Transport height (ft. in.)              | 11' 6"                         | 13' 1"                         | 13' 1" (14' 1" with mech. TerraGrip) |
| Length (ft. in.)                        | 30' 6"                         | 30' 6"                         | 31' 2"                               |
| Axle load (lbs)                         | 14,770 - 17,196                | 16,093 - 18,959                | 20,282 - 24,250                      |
| Vertical load (lbs)                     | 1,100 - 3,196                  | 1,322 - 3,306                  | 2,425 - 5,291                        |
| Tire size support wheels                | 400/60-15.5                    | 400/60-15.5                    | 520/50-17                            |
| Tire size transport wheels              | 550/45-22.5                    | 550/45-22.5                    | 550/45-22.5 or 385/65 R22.5          |
| Number of tines                         | 21                             | 25                             | 33                                   |
| Tine spacing in one row (in.)           | 42.5"                          | 42.5"                          | 42.5"                                |
| Tine spacing (in.)                      | 10.6"                          | 10.6"                          | 10.6"                                |
| Frame height (in.)                      | 33.45"                         | 33.45"                         | 33.45"                               |
| SCV Requirements                        | 2 (+ 1 per Option)             | 2 (+ 1 per Option)             | 4                                    |
| Horsepower requirement (HP)             | 350 - 550                      | 400 - 600                      | 500 - 700                            |
| Implement attachment lower link         | Cat III/III - III/IV - IV/IV   | Cat III/III - III/IV - IV/IV   | Cat III/III - III/IV - IV/IV         |
| Implement attachment adjustable drawbar | Drawbar eye Ø Cat III / IV / V | Drawbar eye Ø Cat III / IV / V | Drawbar eye Ø Cat III / IV / V       |
| Implement attachment ball head          | K 80                           | K 80                           | K 80                                 |



Excellent straw distribution as the straw remains in the tine system for a long time



Allows for stubble cultivation in hard conditions

- Shallow tillage to primary soil cultivation at a depth of up to 12"
- Even mixing of harvest residues, cover crops and organic fertilizers over the whole cultivation horizon
- 4-rank design and a shank spacing of 10.6" for intensive mixing and high clearance even in case of a lot of organic material
- Required tractor power: up to 700 hp
- Various equipment options for utmost flexibility





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► Scan code for more information

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All specifications and diagrams are approximate and not binding. Technical features and design are subject to change.

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