

CONTENT







Joker RT Joker HD Joker PT





16

22

26

Terrano GX

Omnis FT

40

34

2751

Pronto DC

88



PLANTING AND SEEDING

54

68

74





AgVision Farm 10



HORSCH Intelligence 96



HORSCH=































MiniDrill

50







Maestro SW

Maestro RC

Maestro SV







SPRAYERS

92

96

Leeb VL 120

Hybrid Farming

Cura ST 108 Transformer VF 112

Air Carts 100





FARMING HEROES



POWERED BY

FARMING WITH PASSION

WE WANT TO BUILD THE BEST AGRICULTURAL MACHINES

We feel committed to the farmer community and the wishes of our customers. Thus, it is only logical that for our products and services that we aim for the highest standard. This is true for research, design and development as well as for assembly, technical service and advisory service. We take the time for extensive studies, use the machines on our own farms, more than 7,400 acres – to experience ourselves what we have developed and what we are talking about.

We assume responsibility in farming and share the feelings of our customers – this is what we are working towards with all our passion.

WE WANT TO SHARE OUR PASSION FOR FARMING

As we are farmers ourselves, there is always an exchange with our customers to stay well informed about their requirements with regard to our products. They are our motivation, our driving force, and our partner at the same time. We attach great importance to a close contact to our customers and to approach them on an equal level. We are a forum and a community for farmers where we talk to each other, carry out tests and exchange experiences to – together with them – get better and better. This bond is our backbone, and it helps us never to forget what we are working for.

We want to advance and inspire farming as farming inspires us and we want to give every farmer the possibility to contribute personally.

THERE IS NO SUCCESS WITHOUT PASSION

When we thought about a perfect slogan for HORSCH, there was one that quickly came to mind: "Farming with passion". For this passion can be found in each of our products and also in the actions of every single HORSCH employee.

Everyone in the company – from the management to the mechanic – lives the passion that makes a simple product a unique one that excels due to innovation and uncompromising quality and can be adapted perfectly to the requirements of every single farmer in every country.

"We have always been and will always be farmers who intensively deal with a sustainable cultivation of the soil. Farming has a future and it is worth it to work hard – for the farmer as well as for the manufacturer of agricultural machinery. Each time a farmer looks into the rear-view mirror of his tractor and sees red he knows that he opted for uncompromising quality."



Mends Chien We the

HORSCH in North America

200 Knutson Street Mapleton, ND 58059

History in North America

HORSCH begin work in North America in 2001 with by introducing the Horsch Anderson ATD air seeders. With beginnings in Andover, South Dakota, HORSCH produced only air seeders up until the launch of Joker in 2008. With Joker the market footprint of HORSCH in North America expanded rapidly, and in 2014 the current facility in Mapleton, North Dakota was opened to meet demand. Continued product development, including Maestro SW which was launched in 2013, expanded market footprint further. Today the North American product portfolio of HORSCH contains air seeders, single disc drills, variations of row crop planters, primary tillage, secondary tillage, and upcoming application technologies.

North American Headquarters - Mapleton, North Dakota USA

Opening in 2014, the Mapleton facility sets on 30 acres which includes 110,000 sq ft of production/office/warehouse space along with acreage for machine demonstration and testing. On site engineering, purchasing, technical publications, finance, service, and parts distribution all are in house to serve the North American market. Production consists of four main assembly halls and adjacent blast/powder coat line.

Parts Distribution Warehouses

- Mapleton, North Dakota USA
- Saskatoon, Saskatchewan Canada
- Schwandorf, Bavaria Germany

Quality Control

Unlike many farm machinery manufacturers, all products built for North America at Mapleton are completely assembled and thoroughly tested to ensure the utmost in craftsmanship and quality performance. Quality checks are completed during the assembly process and prior to machine leaving the production line. Each machine receives a multi-point inspection and goes through a run-in process where the machine is operated to guarantee proper performance. Hydraulics are tested for an extended time and operated as would in field to complete all check points. All electronics are tested from the tail lights to the ISOBUS implement control systems to ensure the proper operation. This attention to detail makes HORSCH implements the highest quality in the market today.

Farming with Passion

We want to advance and inspire farming as farming inspires us and we want to give every farmer the chance to contribute personally. This bond is our backbone, and it helps us never to forget what we are working for.

- The Team at HORSCH



Product Development

While HORSCH is a German based company, the majority of product distributed in North America is domestically engineered, fabricated and assembled. The engineering and product team at Mapleton works side by side with their global counterparts in developing new innovative technologies along with domestic adaptation of global technologies into the North American marketplace. Global experience along with domestic engineering and product development combine to provide the absolute best technologies available today for seeding, planting, tillage, and application.



HORSCH AgVision Farm

22797 US-HWY-150 Downs, Illinois 61736

The experience at the Horsch AgVision Farm consists of a 160-acre farm and event center with a series of test plots showcasing proven global cropping techniques done with HORSCH equipment. Here we highlight different farming practices and relate how they are beneficial to each customer that visits the site. The test plots will prove tillage and planting concepts with our machines, will be an on-going project in showcasing multiple crop rotations, and will focus on practical integration of cover crops. These plots are planted with different technologies and is best served as a proving ground to customers for Horsch planting, seeding, and tillage concepts and prototypes.

Our goal at the AgVision Farm is for you to experience crop farming with a greater attention to quality and precision than competition, while seeing our machines run live in the field. Focus will be with traditional and non-traditional crop rotations and their integration into farms across North America. Along with this variety of crops, the AgVision Farm will also showcase different global farming practices, tillage techniques, seeding/ planting technologies, crop health management, and future cropping technologies.

1

At the AgVision field days field demonstrations, customers are given a tour of the test plots, and get see machines working in the field first hand.

2

During these field demonstrations, machines are parked in front of present crowd while features and benefits are established.













Joker RT Joker HD Joker PT Joker MT Omnis FT Terrano GX Tiger MT Partner MiniDrill

Commerciants

vww.HORSCH.c

Joker RT Uniformity and Consistency – Residue Utilization – Soil Consolidation

Since HORSCH introduced the first high speed compact disc concept to North America, the Joker RT Series has become a necessary tool on many farms throughout the continent. Whether working in no-till, minimum-till, or conventional till farming practices, the Joker RT adds time-efficiency within the optimum agronomic work windows for residue management and precise seedbed preparation. Its proven advantages over vertical tillage, tandem disc, field cultivators, and other shallow tillage concepts has revolutionized the North American tillage market. Simply put, the Joker RT adds agronomic and bottom line value to your operation.

1

Joker RT features two blades per rubber torsion mounted arm with reliable, minimum maintenance bearings which:

- Maintains precise blade angle engagement during tillage operation.
- Creates ideal, uniform working horizon during seedbed preparation.
- Aggressively sizes and blends plant residues with a fine soil structure.

2

Roll-Flex packer at rear of machine provides intensive crumbling and consolidation which:

- Creates superior uniform soil structure for optimum seedbed environment.
- Conserves seedbed moisture for rapid and uniform seed germination and emergence.
- Creates a level, firm seedbed for optimizing planter/seeder performance

3

Joker RT series features two gangs of blades angled at 17 degrees respectfully that:

- Provides uniform and thorough horizontal soil tilth during seedbed preparation.
- Maintains consistent soil engagement and draft in variable soil conditions.
- Creates aggressive working action when sizing tough residues.



Uniformity and Consistency

Blade angle and mounting design ensures consistent soil engagement and provides uniform working action across the machine. Consistent thorough horizontal fracture creates uniform soil structure, level working horizon, and provides uniform mixing of sized residue and soil, all foundations of an optimum seedbed. Uniform soil working action maximizes efficacy of pre-emerge herbicides, thorough incorporation of granular fertilizers and manure while providing optimum seedbed soil structure.





Residue Utilization

Maximize the agronomic benefits of post-harvest residue by promoting accelerated decomposition. Intense residue sizing provides more "open doors" for soil bacteria and fungi to initialize the residue decomposition process. Unlock the nutrient and organic matter values remaining in post-harvest residues to benefit the nutritional needs of future crops. Promote healthy crop environment by rapidly decomposing residue that harbor pathogens and dangerous pests.



RollFlex Option

- Four individual packer tongues bolted to tabs on center tube.
- Packer tongues have a level of flex to aid in shedding soil.
- Excellent performance in various soil types and conditions.
- Superior seedbed finsh and consolidation quality.
- Works at its best performance in low presence of stones.
- Shallow primary and secondary tillage applications.
- Best performance in low clay tontent soils with variable moisture conditions.



RingFlex Option

- Two piece bolt on ring, bolting directly to center tube.
- Half-moon ring sections can be removed for additional performance in non ideal high moisture soil conditions.
- Rugged design with long service life in stony conditions.
- Shallow primary and secondary tillage applications.
- Best performance in high clay content soil types that include high moisture conditions.
- Superior seedbed finish and consolidation quality





Soil Consolidation

Unique technique used during soil preparation that creates optimum seedbed environment. Consolidation promotes capillary affect in the soil, which uniformly draws and maintains moisture in the seedbed and seed zone. Uniform moisture in the seed zone ensures rapid seedling germination and uniform emergence, which are two key principals to establishing maximum yield potentials. Joker RT creates a consistent, firm soil structure across the working width of the machine which optimizes seed placement performance of planters and seeders. It provides optimum soil to residue contact, which aids in accelerating residue decomposition.

Joker RT Advantages

The Joker RT Series high-speed compact disc makes an ideal precision tool for both primary tillage and secondary tillage. Since it's pioneering of the high-speed compact disc in the North American market, the Joker RT has proven to be not only a very versatile tool in many cropping situations but also necessary tool when working in adverse conditions.

Advantages in Primary Tillage Applications

- Recondition and level fields after harvest as a first step to next seasons seedbed.
- Excellent for sizing, incorporating, and mulching post-harvest residues to kick-start decomposition.
- Effectively secures residue to prevent losses due to wind.
- Sustainable post-harvest weed control.
- Proven for use in terminating a wide variety of cover crops.
- Leveling action helps with field conditioning by eliminating of ruts, clumps, furrows, ridges, raised beds, and conditions after root crop harvesting.
- Depth is gauged by the RollFlex finishing system, providing full-width depth control for precise tillage.

Advantages in Secondary Tillage / Seedbed Preparation Applications

- Creates ideal seedbed for higher speed planting and seeding.
- Creates uniform soil structure and density that enhances seed placement performance of seeders and planters.
- Ideal complementary concept for single pass seedbed preparation following disc rippers, moldboard plows, chisel plows, or sub-soilers.
- Provides additional residue sizing / incorporation to promote accelerated decomposition, unlocking nutrient value of residue for future crop growth.
- Thoroughly incorporates spread granular fertilizer and enhances the efficacy of pre-emerge herbicide applications.
- Sustainably control early season weed pressures through thorough horizontal tillage.
- Firms and secures soil through consolidation to prevent wind erosion.

HORSCH Joker RT	RT18	RT22	RT25	RT28	RT32	RT35	RT40
Machine Width	21 ft 10 in	24 ft 1 in	27 ft 10 in	31 ft 5 in	34 ft 8 in	37 ft 11 in	43 ft 4 in
Working Width	18 ft 4 in	21 ft 8 in	25 ft	28 ft 4 in	31 ft 8 in	35 ft	40 ft
Transport Width	12 ft 5 in	12 ft 5 in	12 ft 5 in	15 ft	18 ft 3 in	18 ft 3 in	15 ft 8 in
Transport Height	11 ft	12 ft 4 in	14 ft	14 ft	14 ft	15 ft 9 in	13 ft
Weight	13,500 lb	15,250 lb	16,180 lb	18,350 lb	18,550 lb	18,900 lb	28,100 lb
Tongue Load	4,630 lb	5,200 lb	5,780 lb	6,430 lb	6,550 lb	6,750 lb	10,000 lb
Axle Load	8,870 lb	10,000 lb	10,400 lb	11,920 lb	12,000 lb	12,150 lb	18,100 lb
Tires	VF385/65R22.5	VF385/65R22.5	VF385/65R22.5	VF295/75R22.5	VF445/65R22.5	VF445/65R22.5	VF445/65R22.5
Number of Discs	44	52	60	68	76	84	96
Hitching	Draw Bar CAT IV / Optional CAT V						
Power Requirements	230-300 hp	230-300 hp	270-350 hp	300-400 hp	330-430 hp	400-530 hp	500+ hp
Finishing System	RollFlex/RingFlex						



Joker HD

Residue Utilization - Uniformity and Consistency - Versatile Primary Tillage

The Joker HD primary tillage concept provides deep soil loosening to break up compaction, aggressive residue sizing and mixing to accelerate decomposition, and uniform consolidated soil structure. Obtain thorough horizontal fracture up to 10 inches of working depth while creating an optimum environment for future seedbed preparation. Simple yet rugged in design, the Joker HD concept features maintenance free bearings on both blades and a finishing system along with rubber torsion mounted blade arms to cushion abrupt impacts from foreign objects. Symmetrical blade configuration ensures superior engagement and trailing quality during tillage operations.

1

Robust concept design for deep primary tillage applications

2

Aggressive blade angle of 22 degree with 10 degree lay over for residue sizing and intensive soil and residue mixing.



Residue Utilization

Maximize the agronomic benefits of post-harvest residue by promoting accelerated decomposition. Intense residue sizing provides more "open doors" for soil bacteria and fungi to initialize the residue decomposition process. Unlock the nutrient and organic matter values remaining in post-harvest residues to benefit the nutritional needs of future crops. Promote healthy crop environment by rapidly decomposing residue that harbor pathogens and dangerous pests.



Uniformity and Consistency

Blade angle and mounting design ensures consistent engagement and provides uniform working action during primary tillage. Thorough horizontal fracture to the working depth insures uniform soil structure through the working horizon zone. Deep loosening of compacted soil along with residue sizing and mixing sets the stage for next years optimum seedbed. RollFlex finishing system breaks clods and clumps, creating a level soil surface. It also consolidates worked soil which creates a capillary action and enhances decomposition of residue.

Joker HD Technical Specifications

HORSCH Joker HD	HD20	HD30
Machine Width	24 ft 5 in	33 ft 4 in
Working Width	20 ft	30 ft
Transport Width	13 ft 7 in	17 ft 4 in (Lights 19 ft)
Transport Height	13 ft	14 ft 10 in
Weight	16,500 lb	24,000 lb
Tires	VF385/65R22.5	VF445/65R22.5
Number of Discs	34	50
Hitching	Draw Bar CAT IV/Optional Cat V	Draw Bar CAT IV/Optional Cat V
Power Requirements	400 hp	500 hp
Finishing System	5-Tongue Roll-Flex	5-Tongue Roll-Flex
Finishing System Disc Diameter	5-Tongue Roll-Flex 24 in	5-Tongue Roll-Flex 24 in
Finishing System Disc Diameter Disc Thickness	5-Tongue Roll-Flex 24 in 0.25 in	5-Tongue Roll-Flex 24 in 0.25 in
Finishing System Disc Diameter Disc Thickness Blade Angle	5-Tongue Roll-Flex 24 in 0.25 in 22 Degree	5-Tongue Roll-Flex 24 in 0.25 in 22 Degree
Finishing System Disc Diameter Disc Thickness Blade Angle Blade Lay-Over Angle	5-Tongue Roll-Flex 24 in 0.25 in 22 Degree 10 Degree	5-Tongue Roll-Flex 24 in 0.25 in 22 Degree 10 Degree
Finishing System Disc Diameter Disc Thickness Blade Angle Blade Lay-Over Angle Blade Spacing	5-Tongue Roll-Flex 24 in 0.25 in 22 Degree 10 Degree 14 in	5-Tongue Roll-Flex 24 in 0.25 in 22 Degree 10 Degree 14 in

Advantages of Joker HD

- Primary tillage concept focused on horizontal fracture, uniform soil structure, residue utilization, and is the first step to seedbed preparation.
- Rubber mounted torsion disc arms are maintenance free and allow blades to float over foreign field objects to prevent damage.
- Rugged 24 inch notched blades set on a 22 degree angle with a 10 degree blade lay-over angle insure thorough horizontal fracture of the tillage zone while intensively mixing soil and residue.
- Aggressive residue sizing and thorough mixing of soil to promote accelerated residue decomposition.
- RollFlex secures valuable residues from being lost by wind and water erosion.
- Superior performance for incorporating fertilizer, weed kill, and field conditioning.
- Features maximum working depth of 10 inches for breaking up soil compaction.
- RollFlex finishing system breaks up clumps and creates uniform soil structure while leveling soil for field conditioning.
- Concept design for maximizing soil/residue throughout while insuring consistent tillage performance.
- Used for primary tillage with deep soil loosening and mixing characteristics.



With its 10 inches of possible working depth, the Joker HD handles fall tillage with ease, while loosening and mixing in remaining residues.

A feature that sets the Joker HD model apart from the Joker RT tillage line is its single blade per mounting arm, larger 24 inch blades, and the agressive 22 degree angle with 10 degree layover.

Joker PT Uniformity and Consistency – Residue Utilization – Agility

The Joker PT series is a clever alternative to vertical tillage concepts and can be used for either primary or secondary tillage applications. It creates a consistent and uniform seedbed soil structure that is ideal for planting as well as aggressive residue sizing and thorough mixing with soil for accelerated residue decomposition. It has superior performance for incorporating fertilizer, weed kill, field conditioning, and quick precise tillage. The primary advantage with the Joker PT series is the excellent floatation for soil preparation in less than ideal conditions.

1

Joker PT features two blades per rubber torsion mounted arm with reliable, minimum maintenance bearings which:

- Maintains precise blade angle engagement during tillage operation.
- Creates ideal, uniform working horizon during seedbed preparation.
- Aggressively sizes and blends plant residues with a fine soil structure.

2

RollCage finishing system is ideal for breaking up clumps, crumbling root material, and providing a firm leveled soil profile provides:

- Superior uniform soil structure for optimum seedbed environment.
- Level, firm seedbed for optimizing planter/ seeder performance.
- Easily raised with hydrulic cylinders when conditions are not ideal for finishing

3

Joker PT series also features two gangs of blades angled at 17 degrees respectfully that:

- Provide uniform and thorough horizontal soil tilth during seedbed preparation.
- Maintain consistent soil engagement and draft in variable soil conditions.
- Create aggressive working action when sizing tough residues.







Uniformity and Consistency

Blade angle and mounting design that ensures consistent soil engagement and provides uniform working action across the machine. Consistent thorough horizontal fracture for uniform soil structure, level working horizon, and uniform mixing of sized residue and soil – foundations of an optimum seedbed. Uniform soil working action that maximizes efficacy of pre-emerge herbicides, thorough incorporation of granular fertilizers and manure while providing optimum seedbed soil structure.

Residue Utilization

Maximize the agronomic benefits of post-harvest residue by promoting accelerated decomposition. Intense residue sizing provides more "open doors" for soil bacteria and fungi to initialize the residue decomposition process. Unlock the nutrient and organic matter values remaining in post-harvest residues to benefit the nutritional needs of future crops. Promote healthy crop environment by rapidly decomposing residue that harbor pathogens and dangerous pests.

Joker PT **Technical Specifications**

- Tillage depth settings are easily adjusted with the . in-cab iDepth Control System to suit changing field conditions.
- The hydraulically adjustable Roll-Cage finishing . system breaks up clumps while leveling soil for field conditioning and rubber mounted torsion disc arms are maintenance free and allow blades to float over foreign field objects to prevent damage.
- Joker PT has rugged 20 inch notched blades set on . a 17 degree angle to insure thorough horizontal fracture of the tillage zone while intensively mixing soil/residue.
- This concept design with its larger tires maximizes . footprint throughout while insuring consistent tillage performance in less than satisfactory field conditions.

HORSCH Joker PT	PT28	PT38
Working Width	28 ft 4 in	38 ft 4 in
Transport Width	15 ft 4 in	18 ft 10 in
Transport Height	13 ft 2 in	15 ft 8 in
Weight	18,500 lb	21,500 lb
Tires	Titan, 15-19.5 NHS 16 HD2000 SB TL	Titan, 15-19.5 NHS 16 HD2000 SB TL
Number of Discs	68	92
Hitching	Draw Bar CAT IV or CAT V	Draw Bar CAT IV or CAT V
Power Requirements	300 - 400 hp	450 hp +
Finishing System	Roll Cage	Roll Cage
Independent Lift System	Yes	Yes
Hydraulic Down Pressure System	Yes	Yes
iDepth Cab-Based Depth Control	Yes	Yes
Disc Diameter	20	20
Disc Thickness	0.25 in	0.25 in
Blade Spacing	10 in	10 in





Agility

The ability to work in variable field conditions during the tillage season maximizes efficiency of seedbed preparation and cultivation when needed. Choose to use the RollCage for field finishing or lift hydraulically when not needed. Large floatation tires keep machine from sinking in soft soils to maintain proper working depth. Change depth settings from inside the cab with the ISO-Depth Control System. The Joker PT series provides versatility in performing quality tillage in a wide variety of soil types and less than ideal conditions.

Joker MT

Uniformity and Consistency – Residue Utilization – Conservation

The Joker MT Series takes all of the Joker RT series dynamics and transfers them to a 3-point mounted concept. Since HORSCH introduced the high speed compact disc concept to North America, the Joker MT Series has become a necessary tool on many farms throughout the continent. Whether working in no-till, minimum-till, or conventional till farming practices, the Joker MT adds time-efficiency within the optimum agronomic work windows for residue management and precise seedbed preparation. Its proven advantages over vertical tillage, tandem disc, field cultivators, and other shallow tillage concepts has revolutionized the North American tillage market. Simply put, the Joker MT adds agronomic and bottom line value to your operation.

1

Joker MT features two blades per rubber torsion mounted arm with reliable, minimum maintenance bearings which:

- Maintains precise blade angle engagement during tillage operation.
- Creates ideal, uniform working horizon during seedbed preparation.
- Aggressively sizes and blends plant residues with a fine soil structure.

2

Roll-Flex packer at rear of machine provides Intensive crumbling and consolidation which:

- Provides superior uniform soil structure for optimum seedbed environment.
- Conserves seedbed moisture for rapid and uniform seed germination and emergence.
- Forms a level, firm seedbed for optimizing planter/seeder performance.

3

Joker MT series features two gangs of blades angled at 17 degrees respectfully that:

- Provide uniform and thorough horizontal soil tilth during seedbed preparation.
- Maintain consistent soil engagement and draft in variable soil conditions.
- Create aggressive working action when sizing tough residues.







Uniformity and Consistency

Blade angle and mounting design that ensures consistent soil engagement and provides uniform working action across the machine. Consistent thorough horizontal fracture for uniform soil structure, level working horizon, and uniform mixing of sized residue and soil – foundations of an optimum seedbed. Uniform soil working action that maximizes efficacy of pre-emerge herbicides, thorough incorporation of granular fertilizers and manure while providing optimum seedbed soil structure.

Residue Utilization

Maximize the agronomic benefits of post-harvest residue by promoting accelerated decomposition. Intense residue sizing provides more "open doors" for soil bacteria and fungi to initialize the residue decomposition process. Unlock the nutrient and organic matter values remaining in post-harvest residues to benefit the nutritional needs of future crops. Promote healthy crop environment by rapidly decomposing residue that harbor pathogens and dangerous pests.



HORSCH Joker MT	MT13	MT15	MT20	MT22 Folding
Machine Width	13 ft 4 in	15 ft	20 ft	24 ft 3 in
Working Width	11 ft 8 in	13 ft 4 in	18 ft 4 in	21 ft 8 in
Transport Width	13 ft	15 ft	20 ft	11 ft 8 in
Weight	6,458 lb	7,585 lb	9,635 lb	11,500 lb
Number of Discs	24	32	44	52
Hitching	Three-Point Cat III; Quick-Hitch Compatible	Three-Point Cat III; Quick-Hitch Compatible	Three-Point Cat III; Quick-Hitch Compatible	Three-Point Cat IV; Quick-Hitch Compatible
Power Requirements	120 - 160 hp	160 - 180 hp	180 - 240 hp	230-300 hp
Finishing System	Roll-Flex	Roll-Flex	Roll-Flex	Roll-Flex
Disc Diameter	20 in	20 in	20 in	20 in
Disc Thickness	0.25 in	0.25 in	0.25 in	0.25 in



Advantages in Primary Tillage Applications

- Recondition and level fields after harvest as a first step to next seasons seedbed.
- Excellent for sizing, incorporating, and mulching post-harvest residues to kick-start decomposition.
- Effectively secures residue to prevent losses due to wind.
- Sustainable option for post-harvest weed control.
- Proven for use in terminating a wide variety of cover crops.
- Leveling action helps with field conditioning an elimination of ruts, clumps, furrows, ridges, raised beds, and after root crop harvesting.
- Depth is gauged by the RollFlex finishing system, providing full-width depth control for precise tillage.

Soil Consolidation

Unique technique used during soil preparation that creates optimum seedbed environment. Consolidation promotes capillary affect in the soil, which uniformly draws and maintains moisture in the seedbed and seed zone. Uniform moisture in seed zone ensures rapid seedling germination and uniform emergence, two keys in establishing maximum yield potentials. Creates a consistent, firm soil structure across the working width of the machine which optimizes planter and seeder placement performance. Provides optimum soil to residue contact, aiding in accelerating decomposition.

Advantages in Secondary Tillage / Seedbed Preparation Applications

- Superior agronomic concept for seedbed preparation.
- Creates uniform soil structure and density that enhances the seed placement performance of seeders and planters.
- Ideal complementary concept for single pass seedbed preparation following disc rippers, moldboard plows, chisel plows, or sub-soilers.
- Provides additional residue sizing / incorporation to promote accelerated decomposition, unlocking nutrient value of residue for future crop growth.
- Thoroughly incorporates spread granular fertilizer and enhances the efficacy of pre-emerge herbicide applications.
- Sustainably eliminates early season weed pressures through thorough horizontal tillage.
- Firms and secures soil through consolidation to prevent wind erosion.

Omnis FT Uniformity and Consistency - Residue Utilization - Versitility

Omnis FT represents the launch of a new primary tillage concept focusing on thorough profile tillage. Based upon proven principles of European primary tillage techniques, the Omnis FT integrates these intensive cultivation principles into a versatile domestic platform. Unique frame design offers versatile options for all soil types/conditions. Proven MulchMix Technology gives the ability to loosen soil at a maximum depth of 10-12 inches, lifting soil and mixing the entire soil profile both horizontally and vertically, resulting in the ultimate thorough horizontal fracture. Complete profile tillage creates a uniform and consistent soil structure throughout the entire soil profile, eliminating restrictions on root growth and improving overall soil dynamics.

TerraGrip III with the MulchMix system. The heart of the unique thorough profile tillage.

2

A wide variety of finishing sytems are available pending the desired soil conditioning finish.







Uniformity and Consistency

After harvest, primary tillage is the next determining dynamic to affect seedbed quality for the next crop. Creating an unrestrictive soil structure profile is essential for maximum root growth potential, water infiltration, and root accessibility to nutrient base, which all in turn secure maximum crop yield potentials. Thorough profile tillage provides a uniform and consistent soil structure across the full working width and to the working depth which creates an unrestrictive soil profile. Residue incorporation is important during primary tillage to accelerate decomposition. Mixing residue uniformly in the aerobic soil zone allows soil bacteria and fungi to accelerate decomposition, unlocking the fertilizer nutrient value of the residue and eliminating host environments for pathogens. Uniform residue distribution within the upper soil profile protects soil with adequate cover and creates an optimum prelude to seedbed preparation.





Simplistic rigid frame design option of the Omnis FT.

Rear finishing option for Omnis FT features leveling tines and a 3-bar heavy harrow.



Cutting coulter option is available for mounting in addition to the TerraGrip III.

Active mulching with the MultchMix shank is duplicated across the machine with 15 inch shank spacing.



Advantages of Omnis FT

- Achieve thorough horizontal fracture and thorough pro 10-12 inches.
- Excellent performance in field conditions where harvest residues have been processed with combine/header or shredded.
- Incorporate residue within the aerobic soil zone for accelerated decomposition.
- Creation of an unrestrictive root environment along with improved oxygen and water infiltration.
- Variety of finishing and leveling options to suit desired soil conditioning.
- Cutting coulter option on each shank for tillage in residues unmanaged at harvest.
- MulchMix system combines perfect geometry with proven trip mechanism, shank, selection of points, and wing sweeps for superior primary tillage.
- TerraGrip III trip mechanism and shanks on 15 inch spaci force for precise engagement.
- 35 degree point-angle of engagement to create maximum lifting action and deep loosening in the tilled profile.
- Optional wing sweeps can be installed for shallow primary tillage for weed control and uniform tillage profile.
- Right and left hand curved mixing boards direct lifted soil further upward, creating thorough soil mixing action across the

Versatility

Not every farm is the same. Different conditions require different tools. The ability to work at both shallow depths and deeper depths adds versatility to the Omnis FT concept. A wide variety of finishing systems are available including rolling baskets or 3 bar harrows, solo or in combination with leveling tines or leveling discs, can be adapted to the rear of the unit. Rear hitch options are available if a tow-implement is desired. Cutting coulter option is available if conditions include residue that has been unprepared or unsized at harvest. These coulters are attached in front of each shank to maximize material throughout and keeps the machine balanced. Large tires on the chassis ensure excellent floatation in softer soils and during seasons where moisture can limit tillage efficiency.

· Achieve thorough horizontal fracture and thorough profile tillage at a variety of working depths from 4-5 inches up to

TerraGrip III trip mechanism and shanks on 15 inch spacing for thorough horizontal fracture and are rated at 1200 lbs trip

Omnis FT Technical Specifications

HORSCH Omnis FT	FT11	FT16	FT21	FT21	FT26
Working Width	11 ft 3 in	16 ft 3 in	21 ft 3 in	21 ft 3 in	26 ft 3 in
Transport Height	5 ft 9 in	5 ft 9 in	5 ft 9 in	12 ft 3 in	15 ft 8 in
Frame Type	Rigid	Rigid	Rigid	Folding	Folding
Number of Shanks	9	13	17	17	21
Shank Spacing	15 in				
Shank Trip Force	1,200 lb				
Shank Type	TerraGrip III				
Depth Control	Manual	Manual	Manual	Manual	Manual
Number of Ranks	4	4	4	4	4
Tires	2 - Agriflex+ VF420/85R34				



Shown above are the components (hand crank adjustment and shims in cylinder) required on this machine to adjust the working depth as well as level the machine from front to rear.

Finishing Options (Select One):

- Leveling Tines
- Leveling Discs
- 3-Bar Heavy Harrow
- Rolling Basket
- Leveling Tines & 3- Bar Heavy Harrow
- Leveling Discs & 3-Bar Heavy Harrow
- Leveling Tines & Rolling Basket
- Leveling Discs & Rolling Basket

Rear Hitch Options:

- Rear Hitch 1.5" Pin
 - Rear Hitch Hydraulic
 - Torpedo HitchHydraulic Hose to Rear Hitch
 - Rear Hitch Standard Points 80mm
 - Standard Points 120mm

Heavy Duty Carbide Points 80mm

Carbide Tipped Points 80mm

Carbide Tipped Points W/ Hardening 80mm

Point Options:

Residue Utilization

By providing a deep loosening action along with soil lift, the MulchMix system incorporates crop residues uniformly within the aerobic soil zone. Soil bacteria and fungi have the optimum environment to start breakdown and accelerate decomposition of the residue. Rather than simply managing the residue, residue is utilized for its fertilizer nutrient value and quickly decomposed to eliminate host areas for pathogens.

Terrano GX Cultivation without Compromise

The Terrano GX is an all around machine that works perfectly for shallow and deep cultivation down to 10 inches. The Terrano GX is available as a 4-bar universal cultivator and combines the requirements of every customer. The working widths range from 13 to 20 feet. It is equipped with the TerraGrip shank that is placed flatly in the frame and has a trip force of 1200 lb. The large pivot points guarantee a long and maintenance-free service life. The cultivator can be equipped with many coulter versions so that it can be used in any season and in the most different soil conditions all over the world.

1 The disk-leveling system equipped on the Terrano GX leaves a superior field finish

TerraGrip III shank is rated up to 1200 Ibs of trip force.

3 Double RollFlex finishing system of the Terrano GX.

2





The chassis of the Terrano GX is located behind the shank section, in front of the leveling tools. The chassis with large tires is used for road transport as well as for turning on the headlands. The sophisticated design characteristics of the chassis guarantees high ground clearance when lifted as well as a save swivelling of the tires out of the working range when lowered. The position of the chassis has been chosen to guarantee optimum manoeuvrability in the field and high driving comfort on the road.

Terrano GX Technical Specifications

HORSCH Terrano GX	4.4	5.4	6.4
Working Width	13 ft	16 ft	20 ft
Transport Width	9 ft 10 in	9 ft 10 in	9 ft 10 in
Transport Height	9 ft 3 in	11 ft	12 ft 7 in
Length	30 ft 10 in	30 ft 10 in	30 ft 10 in
Axle Load	9,369 - 12,456 lb	10,690 - 14,992 lb	13,448 - 16,976 lb
Support Wheels Tire Size	400/60/15.5	400/60/15.5	400/60/15.5
Chassis Tire Size	550/45/22.5	550/45/22.5	550/45/22.5
Number of Shanks	13	17	21
Shank Spacing	48 in	46 in	44 in
Frame Height	33 in	33 in	33 in
Power Requirements	250 HP	300 HP	350 HP

Terrano GX

The TerraGrip is a very powerful shank system with overload protection. The trip height lifts to 11 inches without triggering a shear bolt, which saves time and money. Due to the effective rock protection the shank moves quickly in case of overload and due to the spring force penetrates the soil again quickly and accurately – without the usual side movements. When avoiding an obstacle, the force of the spring decreases from 1200 lb to 380 lb. The force that acts on the frame is reduced considerably. The optimised spring kit allows for an exact point control in the desired working depth – even in heavy soils and large working depths. Due to high-quality material and large pivot points any greasing points become unnecessary.



Shown above is the action of the TerraGrip III 1200 lb release force with an 11 inch trip height. When releasing the force decreases to 380 lb reducing the stress on the frame. Shown below are the different optional shank MultchMix points.



Tiger MT Cultivation without Compromise

Tiger MT has distinguished itself as the ultimate soil working machine in high residues. It offers a 4 bar frame style with 2 bars being a heavy disk system which ensures relable cutting and incorporation of residues, and the other two bars being the TerraGrip III shanks for deep loosening of soil and additional mixing action. This machine follows that up with a single row leveling disk system and a large 24 inch wheeled packer for effective seedbed preparation in all soil types.

1 The Tiger MT TerraGrip III shank is rated up to nearly 1700 lbs of trip force.

2 Large 24 inch packer tires provide a sensational field fishing system.

3

Two gangs of 26 inch disc blades ensures a cut through high amounts of residue.





Advantages of Tiger MT

- Reliable cultivation of fields especially in the longest and heaviest residues.
- Primary cultivation of high residue cropland along with pastures and set aside land.
- Deep loosening of soil up to 14 inches of working depth.
- Intensive crumbling of heavy soils.
- Working depth of disc harrow and tines can be adjusted independently.

HORSCH Tiger MT	3 MT	4 MT	5 MT	6 MT	8 MT
Working Width	9 ft 10 in	13 ft 1 in	16 ft 4 in	19 ft 7 in	26 ft 4 in
Transport Width	9 ft 10 in	9 ft 10 in			
Transport Height	7 ft 9 in	9 ft 6 in	10 ft 4 in	11 ft 10 in	13 ft 7 in
Base Weight	9,292 lb	14,495 lb	16,369 lb	18,562 lb	22,883 lb
Number of Shanks	7	9	11	13	17
Shank Spacing	16 in	18 in	18 in	19 in	18 in
Shank spacing in row	34 in	37 in	36 in	38 in	35 in
Power Requirements	200-300 HP	300-370 HP	300-400 HP	475-550 HP	550-600 HP
Frame Height	33 in	33 in	33 in	33 in	33 in



Tiger MT is able to handle high amounts of residues with ease.



The large diameter notched disk blades provide the first step to leaving an outstanding finish.

Side profile shows the two front gangs of 26 inch disk blades in combination with the rear 2-bar TerraGrip III shanks and leveling disks.

View of this machine from the cab of tractor shows top profile as well as folding cylinders.

Partner FT/HT

Versatility for seeding and fertilizing during tillage applications

With its 45 bushel capacity, the Partner FT is designed for mounting on front 3-point hitch of equipped tractors. The Partner FT is used for a various number of tasks including cover crop seeding and granular product application. The air system carries product to a distribution tower on the rear implement. Electric 12 volt meter drive system is the same unit we have used on many of our other seeders as its accuracy has been proven for over 25 years.

The mount Partner HT is a double hopper. The total capacity is nearly 80 bushel, partitioned in a ratio of 40:60. This allows for metering two different components or one component from both hoppers to make use of the whole capacity. The applications include two different seeds especially if size differs greatly, one kind of fertilizer from both hoppers, seed and fertilizer, or two different kinds of fertilizer. ISOBUS implement control makes Partner FT/HT compatible and very versatile in the field with its endless capabilities.

1

The Partner HT can be used on combines to apply cover crop immediately after harvest. (Not a factory option)

2

Calibration is made very easy and ultra accurate with the electric drive metering system.







MiniDrill Perfect concept for cover crops

MiniDrill is a HORSCH development with many innovative applications. The hopper has a capacity of 11 bushels. The electric meter drive system is the same unit we have used on many of our other seeders as its accuracy has been proven for over 25 years. ISOBUS implement control makes MiniDrill compatible and very versatile in the field with its different capabilities.

The MiniDrill is available for all Joker models. Thus, the MiniDrill is an optimum solution for cover crops and specialty applications. Superior calibration and proven metering accuracy ensures precise application rates, no matter the seed or product.

1 Metering system of the MiniDrill is controlled by ISOBUS connection.

2 Outlets plumbed to incorporate seed before RollFlex finishing system.

3 Compact and low-noise fan.



The diameter of the hopper opening is 15 inches making it easy to fill. For an optimum lateral distribution there are 12 evenly spaced outlets for 13 feet and above. For specials solutions the MiniDrill solo is available as a single shoot system, thus the MiniDrill can be coupled directly with a distribution tower. The outlets are supplied

by the very smooth hydraulic driven fan that requires 5 - 6 gal/min and thus can be operated with any tractor. The MiniDrill can best be controlled via the HORSCH Touch 800/1200 monitor, although any ISOBUS-compatible terminal can be used for implement control along with incorporating precision farming features.





Planting and Seeding UNIVERSAL TECHNOLOGY FOR ALL CONDITIONS

Maestro SW Maestro RC Maestro SV Avatar SD Pronto DC Panther Cougar Air Carts

Maestro SW Seed Placement – Furrow Integrity – Timing

Getting a crop planted at the correct time, at the correct depth, and in the correct environment are the fundamental keys in setting a stage for maximum yield potential. These are the key fundamentals that Maestro row crop planter technology are based on. Technology and design that maximize every minute of the optimum planting window to secure maximum potential yield. A complete design concept to ensure precise placement of each seed to achieve rapid germination and uniform emergence. This is a platform that protects soil structure integrity during planting. The Maestro row crop planter is the only planter on the market today with a common-sense approach in design that incorporates basic agronomic principals for securing maximum yield potentials. We use three terms to describe this unit - simple, robust, precise.

1

Conversion between 15 and 30 inch row spacing on splitter models is easily accomplished via hydraulic cylinders.

2

A large diameter tire provides a superior footprint for excellent flotation while virtually eliminating pinch rows.

3

The proven electric metering system of the Maestro SW ensures precise population control, superior singulation, and accurate seed spacing.



<image>

Timing

For spring planted crops, no matter where in the world, there is a 10-14 day planting window of opportunity to secure maximum yield potentials. If crop is planted after that optimum window yield losses will result not because of fertility, seed variety, or planter brand but simply because of the calendar. The Maestro SW planter chassis is designed with this in mind. Capacity is key in securing more planted acres per day especially when in variable field conditions. Large seed and liquid fertilizer carrying capacities allow for more planting time and less filling time. Pending seedbed conditions, planting speed can be increased beyond normal speeds to capitalize further on more planted acres per day within the optimum window.

Technical Specifications

Maestro SW Granular	1630 Dry	2420 Dry	2422 Dry	2430 Dry
Fold	Front Fold	Front Fold	Front Fold	Front Fold
Total Weight	24,000 lb	27,000 lb	29,000 lb	33,000 lb
Axle Weight	19,170 lb	21,566 lb	22,566 lb	26,359 lb
Hitch Weight	4,830 lb	5,434 lb	5,750 lb	6,641 lb
Wheel Base	24 ft	24 ft	24 ft	29 ft 1 in
Transport Width: Singles(Duals) [Tracks]	12' ft 6 in (17 ft 6 in)	13 ft 5 in	13 ft 5 in	(17 ft 6 in)
Transport Height	13 ft 8 in	13 ft 8 in	13 ft 8 in	13 ft 8 in
Transport Length	29 ft 8 in	29 ft 8 in	29 ft 8 in	33 ft 9 in
Toolbar Size	10 ft x 8 ft	10 ft x 8 ft	10 ft x 8 ft	10 ft x 8 ft
Seed Tank Size	83 Bushel	83 Bushel	83 Bushel	83 Bushel
Fertilizer Tank Size	2-83 Bushel	2-83 Bushel	2-83 Bushel	2-83 Bushel
Wing Flex	Down 3 Deg, Up 20 Deg	Down 3 Deg, Up 20 Deg	Down 3 Deg, Up 20 Deg	Down 3 Deg, Up 20 Deg
Parallel Arm Length	22-3/8 in	22-3/8 in	22-3/8 in	22-3/8 in
Parallel Arm Thickness	7/16 in	7/16 in	7/16 in	7/16 in
Row Unit Travel	15-3/8 in	15-3/8 in	15-3/8 in	15-3/8 in
Opener Disc Angle	12 Degree	12 Degree	12 Degree	12 Degree
Opener Disc Diameter	15 in	15 in	15 in	15 in
Opener Disc Thickness	3.5mm	3.5mm	3.5mm	3.5mm
Opener Bearing Type	Double Ball Bearing	Double Ball Bearing	Double Ball Bearing	Double Ball Bearing
Service Points	86	126	126	126
Number-Size of Tires Transport	2-520/85R42 (4-520/85R42)	4-IF380/90R46	4-IF380/90R46	2-520/85R42 (4-520/85R42)
Number/Size of Tires Wings	2-14.9-24	2-14.9-25	2-14.9-25	2-600/55R22.5
Row width Configurations	30 in	20 in	22 in	30 in
Hydraulic Requirements	50 GPM	50 GPM	50 GPM	50 GPM
Electronic Requirements	60 Amps	70 Amps	70 Amps	70 Amps
Max DownPressure	770 lb	770 lb	770 lb	770 lb



The Maestro Dry series features two distribution towers which supply the fertilizer system mounted to the front of the toolbar with granular fertilizer. Single disk openers are placed in a 2 x 2 configuration offering a fantastic option for placing granular starter fertilizer alongside the furrow while planting. Electric drive metering system provides ultra accurate calibration and rate control. Air system provides uniform and precise product distribution at each opener.



Maestro SW Standard	1630 Liquid	1630 Seed Only	2420 Liquid	2420 Seed Only
Fold	Front Fold	Front Fold	Front Fold	Front Fold
Total Weight	21,000 lb	21,000 lb	24,000 lb	24,000 lb
Axle Weight	16774 lb	16774 lb	19170 lb	19170 lb
Hitch Weight	4,226 lb	4,226 lb	4,830 lb	4,830 lb
Wheel Base	20 ft	20 ft	20 ft	20 ft
Transport Width: Singles(Duals) [Tracks]	12 ft 6 in (17 ft 6 in)	12 ft 6 in (17 ft 6 in)	12 ft 6 in (15 ft 1 in)	12 ft 6 in (15 ft 1 in)
Shipping Width Minus Tires (Duals) [Tracks]	11 ft 9 in (13 ft 4 in)	11 ft 9 in (13 ft 4 in)	11 ft 9 in (12 ft 5 in)	11 ft 9 in (12 ft 5 in)
Shipping Height Minus Tires	12 ft	12 ft	12 ft	12 ft
Transport Height	12 ft 9 in	12 ft 9 in	12 ft 9 in	12 ft 9 in
Transport Length	25 ft 8 in	25 ft 8 in	26 ft 2 in	26 ft 2 in
Foolbar Size	10 in x 8 in	10 in x 8 in	10 in x 8 in	10 in x 8 in
eed Tank Size	83 Bushel	2 - 83 Bushel (166 Bushel)	83 Bushel	2 - 83 Bushel (166 Bushel)
ertilizer Tank Size	725 Gal	N/A	725 Gal	N/A
Pump Size	92 GPM Max	92 GPM Max	92 GPM Max	92 GPM Max
Pump Type	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Wing Flex	Up/Down 20 Degree	Up/Down 20 Degree	Down 10 Deg, Up 20 Deg	Down 10 Deg, Up 20 Deg
Parallel Arm Length	14-3/8 in	14-3/8 in	14-3/8 in	14-3/8 in
Parallel Arm Thickness	7/16 in	7/16 in	7/16 in	7/16 in
Row Unit Travel	10 in	10 in	10 in	10 in
Opener Disc Angle	12 Degree	12 Degree	12 Degree	12 Degree
Opener Disc Diameter	15 in	15 in	15 in	15 in
Opener Disc Thickness	3.5mm	3.5mm	3.5mm	3.5mm
Opener Bearing Type	Double Ball Bearing	Double Ball Bearing	Double Ball Bearing	Double Ball Bearing
Service Points	70	70	102	102
Number-Size of Tires Transport	2-520/85R42 (4-520/85R42)	2-520/85R42 (4-520/85R42)	2-480/80R46(4-320/90R54)	2-480/80R46(4-320/90R54)
Number/Size of Tires Wings	2-14.9-24	2-14.9-24	2-14.9-25	2-14.9-25
Row width Configurations	30 in	30 in	20 in	20 in
Hydraulic Requirements	50 GPM	50 GPM	50 GPM	50 GPM
Electronic Requirements	35 Amps	35 Amps	50 Amps	50 Amps
Max Down Pressure	770 lb	770 lb	770 lb	770 lb



Maestro SW Standard	2422 Liquid	2422 Seed Only	3115 Seed Only	3215 Seed Only
Fold	Front Fold	Front Fold	Front Fold	Front Fold
Total Weight	27 500 lb	27 500 lb	27.000 lb	27 000 lb
Avia Waight	21,500 lb	21,500 lb	21,600 lb	21566 lb
Hitch Woight	5 524 lb	5 524 lb	5 424 lb	5 424 lb
Wheel Pase	24 ft	24 ft	20.6	20 ft
Transport Width: Singles(Duals)	24 IL	24 IL	2011	2011
[Tracks]	(16 ft 3 in)[14 ft 10 in]	(16 ft 3 in)[14 ft 10 in]	(12 ft 6 in) [17 ft 6 in]	(12 ft 6 in) [17 ft 6 in]
Shipping Width Minus Tires (Duals) [Tracks]	(13 ft 9 in)[14 ft 10 in]	(13 ft 9 in)[14 ft 10 in]	(11ft 9 in) [13 ft 4 in]	(11ft 9 in) [13 ft 4 in]
Shipping Height Minus Tires	12 ft 4 in	12 ft 4 in	12 ft 8 in	12 ft 8 in
Transport Height	13 ft 5 in	13 ft 5 in	13 ft 5 in	13 ft 5 in
Transport Length	33 ft 6 in	33 ft 6 in	27 ft	27 ft
Toolbar Size	10 in x 8 in	10 in x 8 in	10 in x 8 in	10 in x 8 in
Seed Tank Size	83 Bushel	2 - 83 Bushel (166 Bushel)	2 - 83 Bushel (166 Bushel)	2 - 83 Bushel (166 Bushel)
Fertilizer Tank Size	730 Gal	N/A	N/A	N/A
Pump Size	92 GPM Max	92 GPM Max	92 GPM Max	92 GPM Max
Pump Type	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Wing Flex	Down 3 Deg, Up 20 Deg	Down 3 Deg, Up 20 Deg	Down 3 Deg, Up 20 Deg	Down 3 Deg, Up 20 Deg
Parallel Arm Length	14-3/8 in	14-3/8 in	14-3/8 in (22-3/8 in)	14-3/8 in (22-3/8 in)
Parallel Arm Thickness	7/16 in	7/16 in	7/16 in	7/16 in
Row Unit Travel	10 in	10 in	10 in (15-3/8 in)	10" (15-3/8 in)
Opener Disc Angle	12 Degree	12 Degree	12 Degree	12 Degree
Opener Disc Diameter	15 in	15 in	15 in	15 in
Opener Disc Thickness	3.5mm	3.5mm	3.5mm	3.5mm
Opener Bearing Type	Double Ball Bearing	Double Ball Bearing	Double Ball Bearing	Double Ball Bearing
Service Points	126	126	130	130
Number-Size of Tires Transport	4-IF380/90R46	4-IF380/90R46	2-520/85R42 (4-520/85R42)	2-520/85R42 (4-520/85R42)
Number/Size of Tires Wings	2-14.9-25	2-14.9-25	2-14.9-27	2-14.9-27
Row width Configurations	22 in	22 in	30 in/15 in	30 in/15 in
Hydraulic Requirements	50 GPM	50 GPM	50 GPM	50 GPM
Electronic Requirements	50 Amps	50 Amps	64 Amps	64 Amps
Max Down Pressure	770 lb	770 lb	770 lb	770 lb

Maestro SW **Row Unit Composition**

Maestro SW Capacity

The HORSCH Maestro SW utilizes the strongest built row unit in the industry, which has been proven globally for superior agronomic performance, low maintenance, and low wear characteristics. Several key design parameters ensure long life of the row unit along with precision placement. Parallelogram design integrity is absolutely necessary for precise, consistent, perpendicular engagement of the double disc opener. Indexed depth setting which eliminates the need to "calibrate" each row for depth and ensures precise seed placement. Precision machined row bodies with hydraulic downforce result in consistent singulation and ride quality keeping the meter steady, and the seed release tried and true.

Industry first and industry leading frame weight distribution system aids in eliminating pinch rows, along with stabilizing the toolbar. This feature ensures the toolbar stays parallel to the seedbed no matter the row unit downforce required. This technology eliminates additional weight needed on the wings to hold wings down. Also, when using hydraulic downforce on the row unit, a stable and firm positioned toolbar is needed to apply downforce. Downforce can be adjusted in-cab or automatically on-the-fly through the AutoForce System. The hydraulics eliminate the chatter and bounce to the row unit caused by other downforce systems with springs or other competitive technologies. By creating a smooth ride, singulation integrity is preserved and the row unit maintains downforce and precise soil engagement for consistent seed depth placement.







The Maestro SW series is a complete high-efficiency planting concept built from the ground up for capacity and increased planted acres per day. Its industry leading seed and liquid fertilizer capacity (166/249 bushel seed) (725/1225 gallon liquid) contributes to more time planting and less time filling. Available with the Maestro SW Deluxe is an additional saddle tank option supplying an additional 500 gallons of liquid capacity. The Maestro SW planter has been a globally proven concept to achieve more planted acres per day than same or larger size competitive planters. By maximizing planted acres per day and the planting window of opportunity, Maestro SW secures maximum yield potentials.



* Graph is based on a Maestro SW 2430 liquid planter to competitive 24 row 30 inch planters on average factory offered capacities. Comparison is at 7.5 MPH average planting speed with 30 minute fill times.



Technical Specifications



Maestro SW Deluxe	2420 Liquid	2430 Seed Only	2430 Liquid	3115 Liquid
Fold	Front Fold	Front Fold	Front Fold	Front Fold
Total Weight	27,000 lb	29,000 lb	29,000 lb	27,000 lb
Axle Weight	21566 lb	23164 lb	23164 lb	21566 lb
Hitch Weight	5,434 lb	5,836 lb	5,836 lb	5,434 lb
Wheel Base	24 ft	27 ft 6 in	27 ft 6 in	20 ft
Transport Width: Singles(Duals) [Tracks]	(15 ft 3 in)[13 ft 10 in]	12 ft 6 in (17 ft 6 in)	12 ft 6 in (17 ft 6 in)	12 ft 6 in (17 ft 6 in)
Shipping Width Minus Tires (Duals) [Tracks]	(12 ft 9 in)[13 ft 10 in]	11 ft 9 in (13 ft 4 in)	11 ft 9 in (13 ft 4 in)	11 ft 9 in (13 ft 4 in)
Shipping Height Minus Tires	12 ft 4 in	12 ft 4 in	12 ft 4 in	12 ft 8 in
Transport Height	13 ft 5 in	13 ft 6 in	13 ft 6 in	13 ft 5 in
Transport Length	33 ft 6 in	33 ft 10 in	33 ft 10 in	27 ft
Toolbar Size	10 in x 8 in			
Seed Tank Size	2 - 83 Bushel (166 Bushel)	3 - 83 Bushel (249 Bushel)	2 - 83 Bushel (166 Bushel)	2 - 83 Bushel (166 Bushel)
Fertilizer Tank Size	730 gal	N/A	730 gal	730 gal
Pump Size	92 GPM Max	92 GPM Max	92 GPM Max	92 GPM Max
Pump Type	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Wing Flex	Down 3 Deg, Up 20 Deg	Up/Down 10 Degree	Up/Down 10 Degree	Down 3 Deg, Up 20 Deg
Parallel Arm Length	14-3/8 in	14-3/8 in	14-3/8 in	14-3/8 in (22-3/8 in)
Parallel Arm Thickness	7/16 in	7/16 in	7/16 in	7/16 in
Row Unit Travel	10 in	10 in	10 in	10 in (15-3/8")
Opener Disc Angle	12 Degree	12 Degree	12 Degree	12 Degree
Opener Disc Diameter	15 in	15 in	15 in	15 in
Opener Disc Thickness	3.5mm	3.5mm	3.5mm	3.5mm
Opener Bearing Type	Double Ball Bearing	Double Ball Bearing	Double Ball Bearing	Double Ball Bearing
Service Points	126	102	102	130
Number-Size of Tires Transport	4-IF380/90R46	2-520/85R42 (4-520/85R42)	2-520/85R42 (4-520/85R42)	2-520/85R42 (4-520/85R42)
Number/Size of Tires Wings	2-14.9-25	2-600/55-22.5	2-600/55-22.5	2-14.9-27
Row width Configurations	20 in	30 in	30 in	30 in/15 in
Hydraulic Requirements	50 GPM	50 GPM	50 GPM	50 GPM
Electronic Requirements	50 Amps	50 Amps	50 Amps	64 Amps
Max Down Pressure	770 lb	770 lb	770 lb	770 lb

3215 Liquid	3620 Liquid	3620 Seed Only	3622 Seed Only	3622 Liquid
Front Fold				
27,500 lb	37,000 lb	37,000 lb	37,800 lb	37,800 lb
21966 lb	29554 lb	29554 lb	30193 lb	30193 lb
5,534 lb	7,446 lb	7,446 lb	7,607 lb	7,607 lb
20 ft	27 ft 6 in			
(12 ft 6 in) [17 ft 6 in]	(15 ft 3 in)	(15 ft 3 in)	(16 ft)	(16 ft)
11' 9" (13' 4")	11' 9" (13' 4")	11'9" (13' 4")	11' 9" (13' 4")	11' 9" (13' 4")
12 ft 8 in	12 ft 4 in			
13 ft 5 in	13 ft 1 in	13 ft 1 in	13 ft 2 in	13 ft 2 in
27 ft	33 ft 9 in	33 ft 9 in	35 ft 9 in	35 ft 9 in
10 in x 8 in				
2 - 83 Bushel (166 Bushel)	2 - 83 Bushel (166 Bushel)	3 - 83 Bushel (249 Bushel)	3 - 83 Bushel (249 Bushel)	2 - 83 Bushel (166 Bushel)
730 gal	730 gal	N/A	N/A	730 gal
92 GPM Max				
Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Down 3 Deg, Up 20 Deg	Up/Down 10 Degree	Up/Down 10 Degree	Up/Down 10 Degree	Up/Down 10 Degree
14-3/8 in (22-3/8 in)	14-3/8 in	14-3/8 in	14-3/8 in	14-3/8 in
7/16 in				
10 in (15-3/8 in)	10 in	10 in	10 in	10 in
12 Degree				
15 in				
3.5mm	3.5mm	3.5mm	3.5mm	3.5mm
Double Ball Bearing				
132	130	130	130	130
2-520/85R42 (4-520/85R42)	4-IF380/90R46	4-IF380/90R46	4-IF380/90R46	4-IF380/90R46
2-14.9-24	2-600/55R22.5	2-600/55R22.5	2-600/55R22.5	2-600/55R22.5
30 in/15 in	20 in	20 in	22 in	22 in
50 GPM				
65 Amps	90 Amps	90 Amps	90 Amps	90 Amps
770 lb				

Technical Specifications

Maestro SW Deluxe	4715 Liquid	4715 Seed Only	4815 Liquid	4815 Seed Only
Fold	Front Fold	Front Fold	Front Fold	Front Fold
Total Weight	44,000 lb	44,000 lb	44,500 lb	44,500 lb
Axle Weight	34,500 lb	34,500 lb	35,000 lb	35,000 lb
Hitch Weight	9500 lb	9500 lb	9500 lb	9500 lb
Wheel Base	27 ft 6 in			
Transport Width: Singles(Duals) [Tracks]	(17 ft 5 in)[14 ft 7 in]			
Shipping Width Minus Tires (Duals) [Tracks]	13 ft 11 in			
Shipping Height Minus Tires	13 ft	13 ft	13 ft	13 ft
Transport Height	14 ft 2 in			
Transport Length	35 ft 9 in			
Toolbar Size	10 in x 8 in			
Seed Tank Size	2 - 83 Bushel (166 Bushel)	3 - 83 Bushel (249 Bushel)	2 - 83 Bushel (166 Bushel)	3 - 83 Bushel (249 Bushel)
Fertilizer Tank Size	730 gal	N/A	730 gal	N/A
Pump Size	92 GPM Max	92 GPM Max	92 GPM Max	92 GPM Max
Pump Type	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Wing Flex	Up/Down 7 Degree	Up/Down 7 Degree	Up/Down 7 Degree	Up/Down 7 Degree
Parallel Arm Length	14-3/8 in (22-3/8 in)			
Parallel Arm Thickness	7/16 in	7/16 in	7/16 in	7/16 in
Row Unit Travel	10 in (15-3/8 in)			
Opener Disc Angle	12 Degree	12 Degree	12 Degree	12 Degree
Opener Disc Diameter	15 in	15 in	15 in	15 in
Opener Disc Thickness	3.5mm	3.5mm	3.5mm	3.5mm
Opener Bearing Type	Double Ball Bearing	Double Ball Bearing	Double Ball Bearing	Double Ball Bearing
Service Points	196	196	200	200
Number-Size of Tires Transport	4-IF520/75R46CFO	4-IF520/75R46CFO	4-IF520/75R46CFO	4-IF520/75R46CFO
Number/Size of Tires Wings	2-600/55R22.5	2-600/55R22.5	2-600/55R22.5	2-600/55R22.5
Row width Configurations	30 in/15 in	30 in/15 in	30 in/15 in	30 in/15 in
Hydraulic Requirements	70 GPM	70 GPM	70 GPM	70 GPM
Electronic Requirements	120 Amps	120 Amps	120 Amps	120 Amps
Max DownPressure	770 lb	770 lb	770 lb	770 lb



Seed Placement

Precise seed depth placement has significant impact on yields, both positive and negative. Placing each seed at a proper depth, into moisture, and proper closing the furrow promotes rapid germination along with uniform emergence. This is a fundamental key in setting the stage for maximum yield potentials. Shallow placed seed often has higher mortality or delayed emergence due to lack of moisture. Seed placed too deep can become victim to cold soil temperatures, experience delayed emergence, and falling behind in yield potential. Precise seed placement is a full system approach in the Maestro SW. To place a seed precisely first starts with stabilizing the toolbar. The weight transfer system on the Maestro SW distributes the chassis weight over the width of the toolbar, thus stabilizing it. With each row unit featuring standard hydraulic downforce, the row unit can be engaged into the soil with up to 770 pounds of downforce without worry of the toolbar lifting. Beyond keeping the row unit secured at desired depth, the disc opener of the row unit must be kept consistent and a perpendicular angle to maintain a proper seed furrow. Solid parallel arm shaft design on front of the row unit ensures the row unit maintains a consistent perpendicular engagement angle.

Features

Advantages

- Complete concept for maximizing planted acres per day, precision seed placement, along with maintaining uniform and consistent seedbed soil . structure.
- Largest seed / fertilizer carrying capacities available in the market today. ٠
- Up to 249 bushel seed carrying capacity (pending model). .
- . Up to 1225 gallons of liquid fertilizer capacity (pending model).
- Global industry first and leading technology in electric meter drives, weight transfer, and hydraulic downforce technologies. .
- Electric drive meters precisely singulate seed while having the ability for variable rate planting, individual row shutoff and curve compensation. ٠
- Chassis system designed for large product carrying capacity while having a light footprint. ٠
- Lightest soil footprint in the industry large diameter tires, large footprint, low tire psi. .
- Light soil footprint in combination with weight transfer system aids in elimination of yield robbing pinch rows. ٠
- Weight transfer system stabilizes the toolbar, thus resulting in superior stabilization of row units for precise depth control. .
- More high performance features as standard equipment than any other planter on the market. .
- ISOBUS implement control allows use of industry or HORSCH virtual terminals for planter operation and precision farming tasks. .



The electric drive metering system provides superior seed singulation and performance.



Maestro split row planters are able to hydraulically lift every other row to transition from 15 to 30 inch spacing with ease.

Furrow Integrity

Maintaining uniform soil structure at planting time gives each seed equal chance to reach maximum yield potential. If soil structure is restrictive, the crop yield is restricted. The Maestro SW uses large tires with a light soil footprint along with the weight transfer system to minimize compaction on headlands and aid in eliminating pinch rows. Pinch row compaction can have significant yield impacts, especially in wet planting seasons. Eliminating this compacted zone secures your maximum potential yields. Another advantage with the large tires is maneuverability in variable soil conditions. Compaction will be significantly reduced while maneuvering in the field.

The stainless steel metering disc of the Maestro models.

The adjustable singulator provides superior population accuracy by eliminating skips and doubles.

Guage wheels with scraper, adjustable closing wheels and the optional seed firming wheel.

Maestro RC Seed Placement – Furrow Integrity – Timing

Getting a crop planted at the correct time, at the correct depth, and in the correct environment at the fundamental keys in setting a stage for maximum yield potential. And these are the key fundamentals that Maestro row crop planter technologies are based on. Technology and design that maximize every minute of the optimum planting window to secure maximum potential yield. A complete design concept to ensure precise placement of each seed to achieve rapid germination and uniform emergence. A platform that protects soil structure integrity during planting. The Maestro RC row crop planter is the only planter on the market today with a common-sense approach in design that incorporates basic agronomic principals for securing maximum yield potentials.

1

Unlike other stack fold planters, Maestro RC features Vertical FlexFold toobar technology, a new revolutionary way to fold mounted planters.

2

With the Maestro RC tank design being closer to the tractor, the need for rear lift support tires behind like many competitive mounted planters has been eliminated.

3

Maestro RC features a rear platform along with a ladder to assist in filling the 64 bushel hopper.





Seed Placement

Precise seed depth placement has significant impact on yields, both positive and negative. Placing each seed at a proper depth, into moisture, and proper closing the furrow promotes rapid germination along with uniform emergence. This is a fundamental key in setting the stage for maximum yield potentials. Shallow placed seed often has higher mortality or delayed emergence due to lack of moisture. Seed placed too deep can become victim to cold soil temperatures, experience delayed emergence, and fall behind in yield potential. Precise seed placement is a full system approach in the Maestro SW. To place a seed precisely first starts with stabilizing the toolbar. The weight transfer system on the Maestro SW distributes the chassis weight over the width of the toolbar, stabilizing the toolbar. With each row unit featuring standard hydraulic downforce, the row unit can be engaged into the soil with up to 750 pounds of downforce without worry of the toolbar lifting. Beyond keeping the row unit secured at desired depth, the disc openers of the row unit must be kept at a consistent and perpendicular angle to maintain a proper seed furrow. Solid parallel arm shaft design on front of the row unit ensures row unit maintains a consistent perpendicular engagement angle.



Maestro RC

Features

Advantages

- Complete concept for maximizing planted acres per day, precision seed placement, along with maintain uniform and consistent seedbed soil structure.
- 64 bushel seed carrying capacity to maximize the planting window.
- Vertical FlexFold toolbar has the most wing flex in the industry.
- Industry first and leading technology in electric meter drives, weight transfer, and hydraulic downforce technologies.
- Electric meter drives precisely singulate seed while having the ability for variable rate planting and curve compensation.
- Toolbar design eliminates the need for lift assist wheels.
- · Weight transfer system stabilizes the toolbar, resulting in superior stabilization of row units for precise depth control.
- · Standard hydraulic downforce for row unit stabilization for optimum seed placement.
- Optional factory installed liquid system places fertilizer in furrow.
- Row spacing configurations available 30, 36, 38, 40 inch
- ISOBUS implement control allows use of industry or HORSCH virtual terminals for planter operation and precision farming tasks.

Row Unit Composition

The HORSCH Maestro RC utilizes the strongest built row unit in the industry, which has been proven globally for superior agronomic performance, low maintenance, and low wear characteristics. Several key design parameters ensure long life of the row unit along with precision placement. Parallelogram design integrity is absolutely necessary for precise, consistent, and perpendicular engagement of the double disc opener. Indexed depth setting which eliminates the need to "calibrate" each row for depth and ensures precise seed placement. Precision machined row bodies with hydraulic downforce result in consistent singulation and ride quality keeping the meter steady, and the seed release tried and true.

Industry first and industry leading frame weight distribution system aids in eliminating pinch rows, along with stabilizing the toolbar. This feature ensures the toolbar stays parallel to the seedbed no matter the row unit downforce required. This technology eliminates additional weight needed on the wings to hold wings down. Also, when using hydraulic downforce on the row unit, a stable and firm positioned toolbar is necessary to apply downforce. Downforce can be adjusted in-cab or automatically on-the-fly through the AutoForce System. The hydraulics eliminate the chatter and bounce to the row unit caused by other downforce systems with springs or other competitive technologies. By creating a smooth ride, singulation integrity is preserved and the row unit maintains downforce and precise soil engagement for consistent seed depth placement.



Furrow Integrity

Maintaining uniform soil structure at planting time gives each seed the chance to reach maximum yield potential. If soil structure is restrictive, the crop yield is restricted. The Maestro RC concept is well balanced, eliminating the need for lift assist wheels, resulting in elimination of pinch rows. Pinch row compaction can have significant yield impacts, especially in wet planting seasons. Eliminating this compacted zone secures your maximum potential yields. Another advantage in not having lift assist wheels is maneuverability on headlands, around irrigation canals, and when operating in ridged irrigated fields.

Timing

For spring planted crops, no matter where in the world, there is a 10-14 day planting window of opportunity to secure maximum yield potentials. If crop is planted after that optimum window yield losses will result not because of fertility, seed variety, or planter brand but because of the calendar. The Maestro RC planter chassis is designed with this in mind. Capacity is key in securing more planted acres per day especially when in variable field conditions. Large seed carrying capacity allows for more planting time and less filling time. Pending seedbed conditions, planting speed can be increased beyond normal speeds to capitalize further on more planted acres per day within the optimum planting window.



Maestro RC

Features

Industry first Vertical FlexFold toolbar

- Allows for true weight distribution system to ensure toolbar stability.
- No complex folding mechanisms.
- Increased toolbar flexibility better terrain following in uneven fields.
- Gullwing feature for turning on end rows.

Industry leading weight distribution system

- Beyond eliminating pinch rows, the weight distribution system also stabilizes the toolbar.
- Toolbar stays parallel to the seedbed no matter the row unit downforce required.
- No additional weight needed on the wings to hold wings down.
- When using hydraulic downforce on the row unit, a stable and firm positioned toolbar is needed to push up against.

Industry leading hydraulic downforce on the row unit

- Each row unit comes standard with a hydraulic cylinder for applying downforce.
- Downforce can be adjusted in-cab or through the AutoForce System.
- Hydraulics eliminate the chatter and bounce to the row unit caused by other downforce systems.
- By creating a smooth ride, singulation integrity is preserved.
- Row unit maintains downforce and precise soil engagement for consistent seed depth placement.

Strongest row unit in the industry

- Proven globally for superior performance, maintenance
 and wear.
- Designed for long life.
- Parallelogram integrity provides superior durability.
- Precise, consistent, perpendicular engagement of the double disc opener.
- Designed for strength and precision.

Indexed Depth Setting

- No need to "calibrate" each row for depth.
- Precision machined row bodies.

Consistent Singulation

- Ride quality maintained to keep meter steady, keeping seed release accuracy.
- Proven electric meter drive system maintains accurate population and superior seed singulation.



Technical Specifications

HORSCH Maestro RC 1230

Fold	Vertical FlexFold	Vertical FlexFold
Total Weight	9,200 lb	10,500 lb
Transport Width	18 ft 1 in	22 ft 6 in
Transport Height	13 ft 4 in	13 ft 4 in
Transport Length	10 ft 2 in	10 ft 2 in
Shipping Length	18 ft 1 in	22 ft 6 in
Shipping Height On stands	11 ft 6 in	11 ft 6 in
Shipping Depth (Remove Stairs)	8 ft 6 in	8 ft 6 in
Quick Hitch	Cat 3 or 4N	Cat 3 or 4N
Toolbar Size	7 in x 7 in	7 in x 7 in
Seed Tank Size	64 Bushel	64 Bushel
Wing Flex	Up/Down 10 Degree	Up/Down 10 Degree
Parallel Arm Length	14-3/8 in	14-3/8 in
Parallel Arm Thickness	7/16 in	7/16 in
Row Unit Travel	10 in	10 in
Opener Disc Angle	12 Degree	12 Degree
Opener Disc Diameter	15 in	15 in
Opener Disc Thickness	3.5mm	3.5mm
Opener Bearing Type	Double Ball Bearing	Double Ball Bearing
Service Points	72	72
Number/Size of Support Tires	4 /7.60-15	4 /7.60-15
Row width Configurations	30 in	30 in
Hydraulic Requirements	30 GPM	30 GPM
Electronic Requirements	35 Amps	35 Amps
Max DownPressure	770 lb	770 lb

1630
Maestro SV Seed Placement – Furrow Integrity – Timing

Getting a crop planted at the correct time, at the correct depth, and in the correct environment at the fundamental keys in setting the stage for maximum yield potential. And these are the key fundamentals that the Maestro SV row crop planter technology are based on. Technology and design that maximize every minute of the optimum planting window to secure maximum potential yield. A complete design concept to ensure precise placement of each seed to achieve rapid germination and uniform emergence. A platform that protects soil structure integrity during planting. The Maestro SV row crop planter is the only planter on the market today with a common-sense approach in design that incorporates basic agronomic principals for securing maximum yield potentials. We use three terms to describe this unit - simple, robust, precise.

1

as the SW series allowing convienent transport.

2

Hydraulic row markers are optional for added guidance assistance in the field.

3

Maestro SV features a two tank configuration resulting in a total 110 bushel seed capacity.





Seed Placement

Precise seed depth placement has significant impact on yields, both positive and negative. Placing each seed at a proper depth, into moisture, and properly closing the furrow promotes rapid germination along with uniform emergence. This is a fundamental key in setting the stage for maximum yield potentials. Shallow placed seed often has higher mortality or delayed emergence due to lack of moisture. Seed placed too deep can become victim to cold soil temperatures, experience delayed emergence, and fall behind in yield potential. Precise seed placement is a full system approach in the Maestro SV. To place a seed precisely first starts with stabilizing the toolbar, the weight transfer system on the Maestro SV distributes the chassis weight over the width of the toolbar, thus stabilizing it. With each row unit featuring standard hydraulic downforce, the row unit can be engaged into the soil with up to 770 pounds of downforce without worry of the toolbar lifting. Beyond keeping the row unit secured at desired depth, the disc opener of the row unit must be kept consistently and at a perpendicular angle to maintain a proper seed furrow. Solid parallel arm shaft design on front of the row unit ensures the row unit maintains a consistent perpendicular engagement angle.





Maestro SV

Advantages

- Complete concept for maximizing planted acres per day, precision seed placement, and maintain uniform and consistent seedbed soil structure.
- Largest seed / fertilizer carrying capacities available in the market today (pending model).
- 110 bushel seed carrying capacity.
- 400 or 600 gallons of liquid fertilizer capacity (pending model).
- Industry first and leading technology in electric meter drives, weight transfer, and hydraulic downforce technologies.
- Electric meter drives precisely singulate seed while having the ability for variable rate planting and curve compensation.
- Chassis system designed for big product carrying capacity while having a light footprint.
- Lightest soil footprint in the industry large diameter tires, large footprint, low tire psi.
- Light soil footprint in combination with weight transfer system aids in elimination of yield robbing pinch rows.
- Weight transfer system stabilizes the toolbar, thus superior stabilization of row units for precise depth control.
- · Standard hydraulic downforce for row unit stabilization for optimum seed placement.
- ISOBUS implement control allows use of industry or HORSCH virtual terminals for planter operation and precision farming tasks.

Maestro SV Row Unit Composition

The HORSCH Maestro SV utilizes the strongest built row unit in the industry, which has been proven globally for superior agronomic performance, low maintenance, and low wear characteristics. Several key design parameters ensure long life of the row unit along with precision placement. Parallelogram design integrity is absolutely necessary for precise, consistent, perpendicular engagement of the double disc opener. Indexed depth setting which eliminates the need to "calibrate" each row for depth and ensures precise seed placement. Precision machined row bodies with hydraulic downforce result in consistent singulation and ride quality keeping the meter steady, and the seed release tried and true.

Industry first and industry leading frame weight distribution system aids in eliminating pinch rows, along with stabilizing the toolbar. This feature ensures the toolbar stays parallel to the seedbed no matter the row unit downforce required. This technology eliminates additional weight needed on the wings to hold wings down. Also, when using hydraulic downforce on the row unit, a stable and firm positioned toolbar is needed to apply downforce. Downforce can be adjusted in-cab or automatically on-the-fly through the AutoForce System. The hydraulics eliminate the chatter and bounce to the row unit caused by other downforce systems with springs or other competitive technologies. By creating a smooth ride, singulation integrity is preserved and the row unit maintains downforce and precise soil engagement for consistent seed depth placement.

Timing

For spring planted crops, no matter where in the world, there is a 10-14 day planting window of opportunity to secure maximum yield potentials. If crop is planted after that optimum window yield losses will result not because of fertility, seed variety, or planter brand but because of the calendar. The Maestro SV planter chassis is designed with this in mind. Capacity is key in securing more planted acres per day especially when in variable field conditions. Large seed and liquid fertilizer carrying capacities allow for more planting time and less filling time. Pending seedbed conditions, planting speed can be increased beyond normal speeds to capitalize further on more planted acres per day within the optimum window.

Furrow Integrity

Maintaining uniform soil structure at planting time gives each seed equal chance to reach maximum yield potential. If soil structure is restrictive, the crop yield is restricted. The Maestro SV uses a light compact frame, large tires with a light soil footprint along with the weight transfer system to minimize compaction on headlands and aid in eliminating pinch rows. Pinch row compaction can have significant yield impacts, especially in wet planting seasons. Eliminating this compacted zone secures your maximum potential yields. Another advantage with the compact frame and large tires is maneuverability in variable soil conditions. Compaction can be significantly reduced when on head lands and while maneuvering in field.





Maestro SV AirVAC Metering System

The new technlogy incorporated onto the Maestro SV includes a center driven direct shaft electric motor. This metering system is very simple in design with only one adjustment and needs no tools to switch between crops. It includes an external seed gate adjustment for controlling seed flow to the disc, and an easy disc clearance adjustment without the use of shims. The newly designed AirVAC meter includes on one side an access door to view seed on the disk, and the other side a quick latch door to remove the access disk. An Express wheel is used for seed cell cleanout to ensure precise singulation and like the rest of the meter is easily changed for a variety of crops. In addition to the new meter design, we have also incorporated a new seed tube design which with its wide body, narrow width design gives more room for seed to accurately flow downwards without interaction with the sides. Reduction of the angle of release and concentrating the exit opening design aims seed more accurately into the furrow. All of these features together make for a very user friendly and extremely accurate platform.



Maestro SV AirVAC Metering System

Advantages

- Easy conversion between crop types with only discs / internal components to change which require no tools.
- Wide range of crops planted with a wide variety of discs and accommodating larger seed hopper. .
- Precise singulation without adjustment. .
- Only one mechanical adjustment seed gate which is external. .
- Poly-carbon discs eliminate static issues. •









Maestro SV Features

Industry leading weight distribution system

- Beyond eliminating pinch rows, the weight distribution • system also stabilizes the toolbar.
- Toolbar stays parallel to the seedbed no matter the row . unit downforce required.
- No additional weight needed on the wings to hold . them down.
- When using hydraulic downforce on the row unit, a stable . and firm positioned toolbar is needed to push up against.

Industry leading hydraulic downforce on the row unit

- Each row unit comes standard with a hydraulic cylinder for applying downforce.
- Downforce can be adjusted in-cab or through the . AutoForce System.
- Hydraulics eliminate the chatter and bounce to the row • unit caused by competitive downforce systems.
- By creating a smooth ride, singulation integrity is . preserved.
- Row unit maintains downforce and precise soil . engagement for consistent seed depth placement.

Strongest row unit in the industry

- Proven globally for superior performance, maintenance and wear.
- Designed for long life. •
- Parallelogram Integrity provides superior durability.
- Absolutely necessary for precise, consistent, perpendicular engagement of the double disc opener.
- Designed for strength and precision.

Indexed Depth Setting

- No need to "calibrate" each row for depth. •
- Precision machined row bodies. .

Consistent Singulation

• Ride quality maintained to keep meter steady, maintaining seed release accuracy.



Technical Specifications

HORSCH Maestro SV	1230	1630
Fold	Front Fold	Front Fold
Total Weight	16,450 lb	17,600 lb
Axle Weight	12,660 lb	13,950 lb
Drawbar Weight	3,790 lb	4,750 lb
Transport Width: Singles(Duals)[Tracks]	12 ft	12 ft
Transport Height	12 ft	12 ft 9 in
Toolbar Size	7 in x 7 in	7 in x 7 in
Seed Tank Size	110 bushel total, 2x55 bushel	110 bushel total, 2x55 bushel
Fertilizer Tank Size	Optional 400 gallon	Optional 600 gallon
Pump Size	92 GPM Max	92 GPM Max
Pump Type	Hydraulic	Hydraulic
Wing Flex	Up/Down 20 Degree	Up/Down 20 Degree
Parallel Arm Length	14-3/8 in	14-3/8 in
Parallel Arm Thickness	7/16 in	7/16 in
Row Unit Travel	10 in	10 in
Opener Disc Angle	12 Degree	12 Degree
Opener Disc Diameter	15 in	15 in
Opener Disc Thickness	3.5mm	3.5mm
Opener Bearing Type	Double Ball Bearing	Double Ball Bearing
Service Points	54	70
Number-Size of Tires Transport	2-600/50R22.5	2-600/50R22.5
Row width Configurations	30 in	30 in
Hydraulic Requirements	30 GPM	30 GPM
Electronic Requirements	30 Amps	35 Amps
Max DownPressure	770 lb	770 lb

Avatar SD Versatile - Precise - Simple

Avatar SD raises the bar on the integral fill single disk drill market, taking it to a whole new level. A completely revolutionary concept, the Avatar SD combines an agile two-tank design, the most precise volumetric metering system on the market, an agronomic based platform, and the lowest maintenance opener system on the market. In fact, maintenance of the unit consists of only a handful of service points. Close attention to detail has been placed on every aspect of the design. Two individual tanks with a metering system on each create an agile unit when multiple products are needed. Unique chassis system is slim for safe, narrow transport along with a weight transfer system during operation. The single rank tool bar gives easy access for adjustments. The Avatar SD takes a complete common-sense approach in design to incorporate basic agronomic principals for securing maximum yield potentials.

1

Avatar SD opener concept integrates a robust design for precise seed placement.

2

Folding mechanics of the Avatar SD 40, designed to be compact and safe for transport.

3

Unique rubber torsion opener mounting eliminates pivot and bushing wear points while maintaining precise soil





Versatility

A seeding concept that is capable of many different tasks is an asset in any farming operation. First off, the Avatar SD chassis is uniquely designed to incorporate two independent tanks and metering systems. Use this configuration at total capacity of 166 bushels, or split 50/50 for two products to be placed in-furrow. Whether seeding wheat with a granular starter fertilizer, splitting up cover crop seed for more precise metering, or variable planting two varieties of soybeans as dual-hybrid, having two tanks on an integral single disc drill opens many opportunities to maximize the planting/seeding window. Configured on a 10 inch row spacing, a simple distribution tower insert quickly converts the unit to 20 inch row spacing. Narrow transport of only 12 feet offers safe and easy transportation even on the narrowest roads. Large diameter chassis tires give extra floatation in soft field conditions. And with a single row of openers the "stepping" affect is eliminated, creating opportunity for faster seeding speeds pending field conditions.

Avatar SD Features

Uniform product distribution with the HORSCH pneumatic distribution system. This contributes to excellent row-to-row product uniformity coefficient of variation and assures row to row rate accuracy across full working width. Uniform crop stand promotes uniform crop maturing and harvest.

Dual product capacity on this machine uses total capacity for seed or 50/50 with seed/starter fertilizer. For cover crops, individually meter two seed types. Studies have shown that using in-furrow starter fertilizer in cereal and oilseed crops has proven yield advantages.

Product carrying capacity with 66% more product carrying capacity vs competitive units which means you can secure more planted acres within the optimum window, securing maximum yield potentials and increasing seeding/planting efficiency by reducing fill time.



Proven electronic meter system with our electronic motor driven meter system provides superior metering accuracy, precisely applying the rate per acre of product needed. It's ultra-accurate calibration of meter ensures proper application rate and can be used with oil seeds, pulses, soybeans, edible beans, sunflowers, cereal grains, and a wide variety of fertilizers / soil amendments. Changing between seed types is made very easy by simply switching the metering roller to match your seed size. Half-width section control is also available for overlap management.

Advantages of Avatar SD

- the furrow.
- Industry leading calibration and rate accuracy with globally proven electric drive metering system.
- Simple conversion between crops and smooth single point cleanout.
- Standard weight transfer system stabilizes toolbar which stabilizes opener units for precise soil engagement.
- Weight transfer system takes weight of the cart and distributes it to the toolbar and aids in elimination of wheel tracks.
- Openers feature rubber torsion mount design, eliminating pin and bushing maintenance time and costs.
- furrow closure.
- Largest disc bearings in the industry designed specifically for single disc applications.
- Openers feature seed locking wheel for uniform seed embedment in furrow.
- 550 pounds of available opener down pressure.
- All opener adjustments easily accomplished from rear of machine.
- Narrow transport at only 12 feet for safe roadway travel.
- Variety of closing wheel options available.
- ISOBUS implement control allows use of industry or HORSCH virtual terminals for planter operation and precision farming tasks.

Seeding Precision

To get a volume of seed/fertilizer uniformly distributed and precisely placed takes a full concept approach. Seeding precision starts with tank design. Proper angle of repose insures proper product flow to the meter. Positive cleanout sump design always keeps meter properly filled and allows for quick thorough clean out when changing between products. Globally proven electric motor drive metering system provides industry leading calibration and rate accuracy. Smooth routing and transition of primary hoses up to the seed towers maintain uniform product flow. Precisely engineered air tower technology concentrates product flow uniformly upward towards the distribution manifold. Having this uniform flow directed up the center of the air tower is imperative to accurately distribute product volume evenly to each manifold port that leads to opener. All distribution manifold hosing has a consistent downward routing to the openers, free of any loops or drastic directional changes to insure precise volume output per opener and uniform product flow. Weight transfer system stabilizes the toolbar which in turn stabilizes the row units for consistent soil engagement and precise depth control. Precise furrow creation and seed placement by the opener along with firming sets the stage for uniform emergence and overall crop uniformity. Weight transfer system also aids in eliminating pinch rows created by wheel tracks, leaving a uniform and consistent soil structure for placement of each seed.

Full concept integral fill single disc drill system that defines seeding precision and maximizing efficiency during planting/seeding season. Dual product capacity at 166 bushels (83 bushel per tank) allows versatility when seeding different crops or including fertilizer with seed in

6 degree opener blade angle with a pitch of 3 degrees offers compound angle of engagement with lower draft requirements and easier

Single rank toolbar with 10 inch row spacing eliminates stepping affects and can be used at faster speeds pending field conditions.



Avatar SD Technical Specifications

SD40
Front Fold
24,780 lb
19,793 lb
4,987 lb
40 ft
11 ft 6 in
12 ft 6 in
27 ft 4 in
48 - Rowing Spacing 10 in.
2-83 Bushel Tanks
552 pounds
19 in
13 in
16 in
10 in
3.7-9 mph
300+
3
2-520/85R42
15.0/55-17
1
10-12 GPM
Cat 4/ Cat 5
K 80



Seed boot designed for simple adjustment and consistant product placement.



The steel closing wheel option is extremely durable, while still being effective at proper furrow closure.

Simplistic Operation

The heart of the Avatar SD's design comes from a keep it simple, minimum maintenance mindset. Full implement operation is done through an ISOBUS control system. Use ISO virtual terminals to control the unit, fold/unfold, for calibration, and for precision farming applications. Simple and ultra-accurate product calibrations are easily accomplished with the flip of a switch. Openers use an exclusive rubber torsion mount design, eliminating pivot pins, bushings, and grease points. In fact, lubrication of the unit consists of 8 total grease points. All opener adjustments can be made from the rear of the unit, setting the toolbar at desired height for adjustments. Transport is simplified at only 12' wide for safe travel on roadways.



Easy adjustment handle for quick and precise setting of seed depth.



While being compact in transport; the Avatar still offers a large working width in the field.

Pronto DC

Precise seed placement with combination seeder technology

Proven in cropping systems around the globe, Pronto DC pioneered and continues to set the standard for combination seeder technology. No other seeding concept can prepare a thorough uniform seedbed soil structure, properly consolidate soil for holding moisture in the seed zone to promote rapid germination and uniform crop emergence, while precisely placing seed in an optimum seedbed environment that sets the stage for maximum potential yield. All of this while seeding at higher speeds and with greater efficiency in seedbed acres per day versus other concepts. Pronto DC prepares a superior seedbed while sustainably controlling early weeds growth, accelerating residue decomposition to unlock nutrients and eliminate host areas for pathogens, incorporates spread fertilizer, along with field leveling. The working action of Pronto DC secures soil integrity while providing the ultimate environment for maximum yield potentials.

1

Maximum efficiency: The ultimate machine for single pass tillage and seeding incorporated into one unit.

2

The golbally proven Pronto DC system: TurboDisc II opener technology.





Pronto DC **Technical Specifications**

HORSCH Pronto DC	DC40
Working Width	39 ft 4 in
Transport Width	19 ft
Transport Height	15 ft 1 in
Length	26 ft
Weight	38,000 lb
Number of Openers	64
Opener Pressure	5 - 265 lb
Seed Openers / Press Wheels	13.38 in / 12.60 in
Row Spacing	7.38 in
Tire Packer Size	7.50-18
Operating Speed	6-12 mph
Power Demand	450 - 600 hp
Oil Quantity, Hydr. Fan	20 gal/min
Road Lighting Equipment	Standard

Advantages of Pronto DC

- Globally proven combination seeder concept. •
- Unique design with a one pass three stage approach: uniform seedbed preparation, soil consolidation, seed placement. •
- an aerobic seed environment across full working width of unit.
- Promotes uniform seedbed temperature in spring seeded crops. •
- nation and uniform emergence.
- Globally proven TurboDisc double disc opener system is designed for precise seed placement. ٠
- Consolidation creates uniform soil structure that enhances performance of the TurboDisc opener.
- Simple yet robust design of the TurboDisc maintains consistent soil engagement, placing seed precisely at desired depth. .
- Combination seeder concept capable of high seeding speeds pending field conditions. ٠
- Double shoot system option available for spreading fertilizer in front of tillage discs.
- Simple depth setting of TurboDisc and disc tillage system.
- Simplified maintenance with few service points.
- Use with tow-between HORSCH air carts.



Pronto DC preparing seedbed while precisely placing seed in one pass.

Disc tillage system creates optimum seedbed, uniform soil structure, incorporates spread fertilizer, kills early weeds, sizes residues, and creates

Tire consolidation system firms tilled soil, enhancing capillary effect that draws in and holds moisture in the seed zone, promoting rapid germi-

The packers in front of the TurboDisk opener system provide a level and perfectly consistent seedbed, resulting in uniform emergence.

Panther Versatility - Simplistic Operation - Seeding Precision

Being born in a transitional region dominated by small grains and row crops, the Panther distinguishes itself as an agile and highly efficient seeding concept. No other shank type seeder offers the superior residue flow in no-till conditions, control of soil flow and consistent opener engagement at high speeds, gentle furrow firming, and the overall capacity to maximize seeded acres per day. A lot of characteristics set the panther apart from the competition. These features include, its proven robust frame, high capacity air system, superior product distribution, heaviest shank trip force in the industry, disc leveling system for controlling soil flow, and ground-hugging pneumatic tire packing system. Simply put, the Panther is a complete concept approach to high efficiency in single pass seeding/fertilizer operations.

1

The unique 4 rank system is supplied seed by the shown distribution towers.

2

This 60 foot Panther pairs well with the 750 bushel cart. Other optioned cart sizes are 500, 600 and 1000 bushel.







Versatility

Whether seeding/planting small grains, oilseeds, row crops, or banding fertilizer, the Panther is an agile concept that adds value in many diverse operations. The unique 15 inch shank spacing allows for paired row seeding (7-7.5 inch row spacing), single rows on 15 inch spacing, or single/paired rows on 30 inch spacing. Simple change of opener preference allows for us of the Panther in many seedling/planting/fertilizer applications.

Simplistic Operation

With few service points and wear components, the Panther's design makes it one of the easiest and lowest cost air seeder platforms to maintain in the industry. Sealed bearing walking tandem pivots on the packers, no grease points on the shanks, and simple leveling/depth setting adjustments all benefit the most efficient platform.

Panther **Technical Specifications**

HORSCH Panther	440	460	460 Section Control
Working Width	40 ft	60 ft	60 ft
Transport Width	20 ft	20 ft	20 ft
Transport Height	16 ft	16 ft	16 ft
Length	29 ft	29 ft	30 ft
Sections	5	5	5
Shank to Shank	60 in	60 in	60 in
Under Frame	30 in	30 in	30 in
Road Clearance	16 in	16 in	16 in
Number of Openers	32	48	48
Opener Spacing	15 in	15 in	15 in
Custer Gauge Wheels:			
Front Hitch	4-15.5" x 16.5" (12 ply)	4-15.5" x 16.5" (12 ply)	4-15.5" x 16.5" (12 ply)
Inner Wing	2-15.5" x 16.5" (12 ply)	2-15.5" x 16.5" (12 ply)	2-15.5" x 16.5" (12 ply)
Outer Wing		2-15.5" x 16.5" (12 ply)	2-15.5" x 16.5" (12 ply)
Edge-on Trip Shank:			
Trip Force	750 lb	750 lb	750 lb
Trip Distance	11.5 in	11.5 in	11.5 in

Advantages of Panther

- Proven robust concept designed for years of service.
- 15 inch shank spacing allows flexibility in seeding/planting small grains, oilseeds, row crops, and fertilizer banding application.
- 750lb trip force on shanks is heaviest in the industry, maintains consistent opener engagement at higher seeding speeds. .
- Standard disc leveler system allows for higher seeding speeds, directing soil flow from opener back into furrow before packing, eliminating stepping affect.
- Proven double oscillating walking tandem pneumatic tire packing system precisely follows variable terrain and provides ideal furrow firming.
- Industry leading coefficient of variation accuracy (row to row) for product volume output.
- Superior row to row product volume output ensures consistent and uniform product distribution over entire working width.
- Smooth and directed hose routings ensure consistent sinusoidal flow of product at each opener. .
- Single pass seeding with precision placement of seed and fertilizer in one pass.
- Optional cutting coulters mount in front of each shank, provide unmatched residue flow in no-till conditions while keeping machine in balance.

Soybeans planted using 7.5 inch paired row openers on 30 inch shank spacing.



Seeding Precision

Smooth routing and transition of primary hoses up to the seed towers maintain uniform product flow. Precisely engineered air tower technology concentrates product flow uniformly upward towards the distribution manifold. Having this uniform flow directed up the center of the air tower is imperative to accurately distribute product volume evenly to each manifold port that leads to opener. All distribution manifold hosing has a consistent downward routing to the openers, free of any loops or drastic directional changes to insure precise volume output per opener and uniform product flow.

Optional Sectional Control system (paired with SW600 only) saves on seed and fertilizer costs by eliminating costly overlap applications

Wheat seeded on 15 inch shank spacing, using 7.5 inch paired row opener, while banding fertilizer below the paired row.

Cougar Versatility - Simplistic Operation - Seeding Precision

Similar in design to the Panther, the Cougar was born from customer demand for a suitable hillside seeding system. Cougar sets the standard in maintaining stability and precise seed/fertilizer placement in the most extreme hillside farming conditions. Whether cresting over hilltops or following steep contours of 30-45+ degrees, Cougar's unique 2-rank design allows for parallel seed rows without risk of overlap, which eliminates overpopulated rows and high fertilizer concentrations. Cougar gives excellent seeding performance in no-till and min-till seedbeds.

1

SW12000 air cart pairs with Cougar giving 340 bushels of capacity.

2

Unique two rank design provides excellent contouring capabilities in hillside farming conditions for precise seed/fertilizer placement.





Versatility

Whether seeding/planting small grains, oilseeds, row crops, or banding fertilizer, the Cougar is an agile concept that adds value in many diverse operations. The unique 15 inch shank spacing allows for paired row seeding (7-7.5 inch row spacing), single rows on 15 inch spacing, or single/paired rows on 30 inch spacing. Simple change of opener preference allows for us of the Cougar in many seedling/planting/fertilizer applications. Cougar's unique 2-rank design and narrow contour depth is well suited for hillside seeding.

Cougar **Technical Specifications**

HORSCH Cougar	230	235	238	240	250
Working Width	30 ft	35 ft	38 ft	40 ft	50 ft
Shank Spacing	15 in				
Transport Width	17.5 ft	17.5 ft	17.5 ft	17.5 ft	20 ft
Transport Height	12.5 ft	15 ft	16.5 ft	17.5 ft	16.5 ft
Shank Trip Force	750 lb				
Trip Distance	11.5 in				
Sections	3	3	3	3	5
Number of Ranks	2	2	2	2	2

Advantages of Cougar

- Unique 2-rank design provides narrow contour depth for precise seed placement in extreme variable field terrains.
- When working with steep field slope contours, 2-rank design eliminates cross over paths of seed rows.
- Proven robust concept designed for years of service.
- 750 pound trip force on shanks is heaviest in the industry, maintains consistent opener engagement at higher seeding speeds.
- Standard disc leveler system allows for higher seeding speeds, directing soil flow from opener back into furrow before packing, eliminating stepping affect.
- Proven pneumatic tire packing system follows variable terrain and provides ideal furrow firming.
- Industry leading coefficient of variation accuracy (row to row) for product volume output.
- Superior row to row product volume output ensures consistent and uniform product distribution over entire working width.
- Smooth and directed hose routings ensure consistent sinusoidal flow of product at each opener.
- Optional cutting coulters mount in front of each shank, provide unmatched residue flow in no-till conditions while keeping machine in balance.
- Use with HORSCH tow-between air carts and for hillside seeding use the HORSCH SW8000 steering cart.

Seeding Precision

Smooth routing and transition of primary hoses up to the seed towers maintain uniform product flow. Precisely engineered air tower technology concentrates product flow uniformly upward towards the distribution manifold. Having this uniform flow directed up the center of the air tower is imperative to accurately distribute product volume evenly to each manifold port that leads to the opener. All distribution manifold hosing has a consistent downward routing to the openers, free of any loops or drastic directional changes to insure precise volume output per opener and uniform product flow.

Simplistic Operation

With few service points and wear components, the Cougar's design makes it one of the easiest and lowest cost air seeder platforms to maintain in the industry.

15 inch shank spacing allows flexibility in seeding/planting small grains, oilseeds, row crops, and fertilizer banding application.

Air Carts Globally proven precision

Seeding precision starts at the cart. Regardless of the model, Horsch air carts feature the same thought and design ingenuity across the entire line. Properly sloped tanks keep uniform product flow to the meters until fully empty, accurate meter output till the last bit of product. Ultra-accurate volumetric metering system leads the industry in calibration and application accuracy. Switching between product type is simple and fast by just replacing rollers. ISOBUS implement control offers a diverse range of options for operation and precision farming tasks. The tank split offers optimum product division for a wide variety of single shoot, double shoot, and single pass seeding jobs. The unique single axle designs give unmatched maneuverability, decrease impacts of compaction, and maximize floatation in variable field conditions.

1

The SW600 cart features 3 independent tanks for different product with capacities of 300, 210 and 90 bushel.

2

The metering system on HORSCH air carts include many design features in which makes it the most accurate metering system in the industry.





Advantages

- Industry leader in calibration and rate accuracy with globally proven electric motor drive volumetric meter system.
- Superior rate control accuracy from low rate small seeds to high rate fertilizer.
- Positive cleanout sump design always keeps the meter properly filled plus allows for quick thorough clean out when changing between products.
- Efficient pneumatic system uses high output fans along with precise tube routing for uniform and consistent flow accuracy to seed towers.
- Scale system options for cross referencing application rates and for keeping records of product logistics.
- ISOBUS implement control offers flexibility to use industry ISO Virtual Terminals.
- Easy and accurate calibrations with the simple push of a button.
- Simple conversion between crops and smooth single point cleanout.
- High capacity pneumatic system for high rate applications.
- Single axle design aids in eliminating soil compaction.



SW500







SW8000

SW600

SW1000

SW12000

Air Drill Carts

Technical Specifications

HORSCH Carts	SW500	SW600	SW750	SW1000
Transport Width	16 ft 8 in	520 Duals 11 ft 5.75 in/17ft 2in 710 Duals 12 ft 9.75 in/20 ft 7 in	14 ft/18 ft 4 in	14 ft
Transport Height	14 ft 6 in	12 ft 6 in	14 ft 6 in	14 ft 6 in
Transport Length	28 ft 6 in	33 ft 4 in	36 ft	43 ft
Weight	14,000 lb	30,000 lb	32,000 lb	42,000 lb
Capacity	500 bushel	600 bushel	750 bushel	1000 bushel
Canola Tank Capacity	N/A	N/A	60 bushel	60 bushel
Track Width/Brand	N/A	36 in Camso	36 in Elmers	36 in Elmers
Track Contact Area	N/A	4852 in. ^2	6386 in. ^2	9200 in. ^2
Conveyor Size	N/A	16 in x 28 ft	16 in x 28 ft	16 in x 28 ft
Auger Size	10 in x 21 ft	10 in x 21 ft	10 in x 21 ft	N/A
Tire Size	Dual - 520/85R42	Dual - IF520/75R46CFO Or Dual-710/70R38	Dual - IF710/70R38	N/A
Scale Option	Yes	Yes	Yes	Yes
Electronics	ISO	ISO	ISO	ISO
Wireless Remote for Auger/Conveyor	Option	Standard w/auger/conveyor	Standard w/ auger/conveyor	Standard w/conveyor
Meter Drive	Electric	Hydraulic/Electric	Hydraulic/Electric	Hydraulic







Cura ST Transformer VF

Cura ST Precise harrow technology

In hybrid and mechanical weed control farming there is a need for a harrow, so we have designed one to be stronger, easier to operate, and more precise than the competition. We started with a closed frame construction made of square tubing which guarantees torsional stiffness for the tines while maintaining its lightweight and durability. We then added a spring and tine combination that together make the perfect pair. The double spring allows for a fine blind harrowing, while also being able to conqour working agressively. All of the features together of Cura ST make it a very universal tool and a must have in your equipment lineup.

1

Individually suspended tines with double spring for adjustable pressure.

2

Cura ST, 40 feet of working width, folds into 5 sections for a transport width of under 10 feet.

3

Spring system is hydraulically adjustable, is attached above the frame, and allows for both gentle and agressive harrowing of high populations.









Cura ST Advantages and Features

Advantages of Cura ST

- Closed frame construction made of square tubing guarantees excellent torsional stiffness while maintaining lightweight and durability.
- Flex due to double lifting cylinders for a 90° folding allows for ease of turning due to slightly raised side wings and excellent adaption to hilly terrain due to cylinders being set to float position.
- Maximum frame height of 1.5 feet allows for harrowing crops at different maturities.
- Up to eleven support wheels can be used to maintain precise engagement of soil across entire machine.
- Position of the support wheels at the frame can be adapted to the spacing of the row crops.
- Folds in five sections to a transport width of 10 feet.
- Cylinder of the 180° folding is located in a protected position inside the frame (derived from the well-proven frame design of our tillage technology).
- Working width of 40 feet.

The Spring

- Spring pressure hydraulically adjustable.
- Springs are attached above the frame and allow for a gentle harrowing of high populations.
- The double spring guarantees a wide selection of working pressure which allows for a fine, blind harrowing and also for working aggressively.
- Constant tine pressure for different tine positions allows for working on the contours, e. g. potato ridges.

The Tine

- Tine length in the wear area: 5 inches
- Tines are connected and suspended individually.
- Laterally stable due to large bearing.
- 8 mm harrow tine, optionally available in a carbide coated version.
- The tine position is adjusted via height-adjustable support wheels.
- Cranked tine for a force transmission in the middle.



Hydraulic adjustment of the tine pressure via rock shaft.



Closed frame construction made of square tubing guarantees excellent torsional stiffness while being lightweight and durable.



Maximum clearance due to frame height and springs above the frame.



Inside frame cylinder for 180° folding

Transformer VF

Technology for mechanical weed control

The Tranformer VF is in a class of its own when it comes to mechanical weed control. When beginning design on this unit, we wanted a machine all farmers could use in their farming operations. With this unit being fully adjustable to row spacing and finishing options, it is adaptable to fulfill all needs. With an integrated camera system to precisely detect rows in the field, and capable of being used in high crops, it's sure to satisfy any application. Transformer is built with a fully integrated sliding frame which in conjunction with the camera system make this unit the most accurate of its kind. Simply put, this machine sets the standard in mechanical weed control.

Tines on the Transformer can be adjusted to different spacings and are very universal for all cropping applications.











Transformer VF Features

SectionControl

The ISOBUS SectionControl function allows for an automatic lifting of the individual row. The current position is detected via GPS. meaning the parallelograms are lifted individually automatically at field boundaries, on the headlands, in case of overlaps or in defined areas.

- Overlapping on the headlands and at field boundaries is . reduced.
- Constant working quality on the whole field. .
- Increased productivity under various conditions (day and . night, fog).
- Relief of the driver. •
- Precise lifting of the individual row at high operational speeds.
- Lifting height approximately 8 inches. •





Advantages of Transformer VF

- Well proven camera system can detect plants as small as 1 inch.
- Adjustable tines allows for cultivation in a wide variety of crop spacings.
- The tine is welded to a slim shaft for little movement of the soil and can cut very shallow.
- Folds into five sections and cylinder of the 180 degree folding is located in a protected position inside the frame.
- Flex due to double lifting cylinders allows for excellent adaptation to hilly terrain in floating position.
- Stable parallelogram, bearing, and large tires for a long operating life and good working effects, even on heavy and rocky soils.
- Simple and guick adjustment of working depth without any tools.

The Frame

- Frame height of over 2 feet allows for a late use in high crops. •
- Inside clamping profile guarantees maximum variability with regard to the arrangement of the tools and at the same time allows for a compact design for large working widths.
- · Torsional stiffness and stability due to frame concept with square tube and welded clamping profile.
- Fully integrated side sliding frame with a range of 18 inches which saves weight, allows for a low overall design depth, and leads . to more precision.

Integrated ISOBUS SectionControl feature ensures consistent working quality on whole field and eliminates overlapping.

Transformer VF

Features

Transformer VF row spacing adjustments











Well proven cemera technology used on unit to navigate between rows. Perfect for organic and conventional operations, especially with resistances.



The 7 inch wide point is capable for a multitude of applications, can cut very shallow, and is welded to a slim shaft for little movement of soil.





Stable 3-bar parallelogram is maintenance free and allows for different row spacings.



Simple and quick adjustment of the working depth without any tools.





Leeb VL

Leeb VL Sets the standard in spraying technology

To achieve more in a shorter time with less machines – due to this strategy companies today manage to work successfully and to remain competitive. As a manufacturer of plant production technology it is our objective to support the farmers with efficient and precise technology. Our engineers work hard to find the appropriate solutions for the special requirements on application technology in the sprayer sector and to design an efficient and flexible machine for a wide range of use. The result is a new generation of the Leeb that combines driving comfort, performance and maximum application efficiency. The new VL model leaves nothing to be desired and offers even more possibilities than before: more clearance, more driving comfort, more climbing power, and more controlled boom control than any other in the industry. Simply put, the VL offers the full package for the highest requirements on technology and driving experience.

1

Well-proven parallelogram boom suspension is weight optimized while still being stable in design.

2

The comfort cab includes many luxurious features to take the driving experience to the next level.

3

The BoomControl feature is unlike any other in the industry keeping completely level and sturdy on ueven terrain at a consistent height of as low as 16 inches off target.







Leeb VL **Boom Control**

BoomControl Eco

- Automatic BoomControl to maintain an exact, lowest possible working height even at high operational speeds in flat or slightly hilly terrain.
- Safe and stable BoomControl below a target area height of 16 inches which is . a prerequisite for minimum drift.
- Boom is completely independent from the vehicle. .
- No compromise between damped and freely suspended boom.
- Active adaption of the boom to the terrain due to 2 sensors.



BoomControl Pro

- Automatic BoomControl to maintain the exact, lowest possible working . height even at a high operational speed and in very hilly terrain.
- Safe and stable BoomControl below a target area height of 16 inches which is . a prerequisite for minimum drift.
- Boom is completely independent from the vehicle.
- No compromise between damped and freely suspended boom.
- Active boom adjustment via the height control of the center section.
- Adaption to the terrain by parallel angling of the boom arms in combination with a turning of the middle section (control via 4 sensors).

BoomControl ProPlus

- Active boom adjustment via the height control of the center section.
- Safe and stable BoomControl even below 16 inches.
- Independent bending of both boom arms.
- Additional independent bending (lifting and lowering) of both outside wings . (control via 6 sensors).



Leeb VL Induction hopper and cleanout

Induction hopper

- Powerful injector filling.
- Swivelling induction hopper with gas shock absorber.
- Operation with colored levers.
- Upper and lower rinsing nozzles guarantee a whirl-like circulation for guick flushing-in of liquids and are also suitable for granulate.
- Canister cleaning nozzle.

Circulation system and nozzle cleaning

- Circulation of the chemical solution through the complete nozzle tube as soon as the spraying pump is switched on.
- Spraying fluid is therefore always at the nozzle, even with the spraying apparatus is switched off.
- When switching on the sections or the whole spraying line for the first time, the mixed chemical solution is immediately available.
- Prevents deposits and blockages.
- Allows for simple cleaning: The suction side of the pump is set to fresh water - the nozzle line is flushed with clear water - then keep spraying for a few seconds to clean all nozzles.

CCS Pro cleaning programs

- Several selectable cleaning programs can be started simply and comfortably by pressing a button in the cabin:
- Complete cleaning: Rinses injector line via the filter to the boom completely with fresh water and then continues with the continuous inside cleaning (CCS) for mixture tank and boom.
- Dilution: Dilute the spraying mixture in the desired ratio without much effort
- Intensive washing program: For a particularly thorough cleaning recommended for example when changing between critical crops.
- Boom cleaning: Automatic rinsing of the boom e. g. when the work is interrupted for several hours.
- This prevents deposits at the barrel wall.
- Due to the standard automatic two filling limits the filling procedure is rather relaxed.



Background cleaning: Intelligent, continuous inside cleaning that cleans the inside wall of the tank with fresh water while spraying.

124





PowerGear wheels gears with intelligent drive

- Infinitely variable from 0 31.1 MPH (0 50 km/h).
- The efficiency factor in the main working range has been specially optimized for the use in the plant protection sector.
- Intelligent all-wheel drive: dynamically distributed drive torque - powerful and efficient.
- Selective traction control for every tire
- Due to larger wheel motors at the rear axle and the corresponding higher driving power, the VL easily manages any terrain.
- Two gear box versions, depending on the field of application:
- PowerGear with powerful drive even at steep slopes
- HighPowerGear for more torque at the wheel and highest requirements in the field

Comfort Cabin

- The spacious cabin offers an optimum view on the machine and the population and the inside leaves nothing to be desired.
- A premium comfort seat: active vibration damping, seat heating and seat ventilation guarantee the driver a luxury driving experience.
- Due to the excellent insulation, dust and noise remain outside.
- A powerful automatic air-conditioning with heating guarantees a comfortable indoor climate.
- Cabin filter Cat. IV to protect the user from dust, aerosols and steam
- Heated power mirrors
- The height and the inclination of the steering column can be adjusted.
- The display for the vehicle functions and the speedometer are located at the A column.
- The ISOBUS terminal for the spraying function is integrated in the armrest.



The Leeb boom

- Weight-optimized, stable design.
- An aluminum profile protects the nozzles, nozzle bodies and lines against damages
- damping of the inside wings forwards and backwards
- Well-proven parallelogram suspension.
- at the headland.
- BoomControl: Extremely smooth boom position even in very hilly terrain and at high operational speeds.



Overload protection and damping of the wings: anti-collision protection – overload protection of the wings backwards

The patented suspension with active pneumatic control of the middle section prevents boom diving during cornering





HORSCH INTELLIGENCE

AutoForce Curve Compensation Autospeed (CRT) Canola Ready Technology AutoLine ISOBUS Solutions Electronic Depth Control Section Control TaskController

AutoForce

Maintaining consistent seed depth and furrow integrity through various soil densities

All HORSCH Maestro row crop planters feature hydraulic row unit downforce as standard equipment. Another standard feature on all Maestro row crop planters is the weight transfer system, stabilizing the toolbar which in turn provides stabilization for the row unit. The amount of row unit downforce desired can be easily manually adjusted from the planter monitor. Down pressure adjustments are necessary to maintain proper seed depth placement and to prevent side wall compaction. When planting into variable soil density conditions, the optional HORSCH AutoForce system integrates with the standard hydraulic downforce system allowing automatic downforce adjustment as soil density changes during planting. Based upon field condition observations by the operator, parameters for desired weight on the gauge wheels are set for the automatic system.

HORSCH AutoForce uses strain gauge sensors to measure weight being applied to the gauge wheels. To maintain precise seed depth control and to maintain furrow integrity, the row unit must keep a consistent amount of weight applied to the gauge wheels. If there is not enough weight on the gauge wheels, shallow and inconsistent seed depth placement can occur which puts yields at risk. If there is too much weight on the gauge wheels excessive side wall compaction can occur, restricting root growth and putting yields at risk. Based upon the pre-set desired gauge wheel weight in the monitor, AutoForce quickly adjusts as soil density changes in order to maintain consistent weight on the gauge wheels. By automatically adjusting weight on the gauge wheels while planting in variable density soils proper seed depth and furrow integrity are maintained, ensuring seed are placed into an optimum environment set for maximum yield potential.

While planting, the HORSCH AutoForce system gives immediate performance feedback on the planter monitor. Visual inspections of the furrow will always be needed when choosing parameters for AutoForce operation. All functions, settings, and diagnostics are easily done through the planter monitor. Use AutoForce in fields that have variable soil density due to inconsistent compaction, dry hard soils, or into no-till conditions. When planting into well prepared seedbeds that have a uniform soil density, AutoForce can be simply used in a manual mode.

AutoForce excels due to its simplicity and overall ease of operation. By stabilizing the toolbar with the weight transfer system, and standard hydraulic downforce as standard equipment, AutoForce has the superior platform to perform. The system is divided into sections, with the ability to set independent gauge wheel weight parameters for the tractor wheel track path.



Row unit with coulter pressure sensor



Hydraulic cylinder for DownForce generation.







Curve compensation technology ensures correct row-to-row population control whenever making turns during planting. Maintain consistent population while making turns around field obstacles or nature field contours is essential for uniform stands and a key to maximum yield potentials. As a planter makes a turn the outer radius rows are under population target, and the inner radius rows are over population target. Being off population target has a direct negative impact on yields. With curve compensation technology, all Maestro row crop planters use radars on each end and center of the tool bar to send speed signals to the implement computer for controlling population rate. When a speed difference is detected between the right, middle and left, curve compensation mode begins adjusting the electric drive meters to match desired population and the speed of each row unit changes in the turn. The inner electric drive meters slow down to maintain target population, as the outer rows speed up to maintain target population. By maintaining target population in turns, the overall seed rate per acre is consistent.

AutoSpeed

AutoSpeed is the comfortable solution to achieve a constant placement accuracy at an optimum forward speed. Varying soil conditions normally lead to differing results regarding the planting quality (VC). When using the AutoSpeed function the driver predefines the desired placement accuracy. Depending on whether the real accuracy is above or below the desired value, the Maestro transmits a varying nominal speed to the tractor. The AutoSpeed function is only available for use through OEM virtual terminals that link into the tractor's ISOBUS system. Please consult HORSCH on tractors/monitors that the AutoSpeed function can be used with.







WITH Curve Compensation

WITHOUT Curve Compensation

Canola Ready Technology

Complete factory solution for precision canola planting

The Maestro SW in Your Operation

- Requires less horsepower to achieve more productivity than traditional • seeding systems.
- Increase efficiency and cover more acres per day due to the higher capacity • and planting speeds.
- Manage seed costs through lower populations without a sacrifice to yield. •
- Simple settings for easy and comfortable field operation. .
- Versatility to precisely plant canola, corn, soybeans, and other crops.
- Available in 15, 20, 22 and 30 inch row spacing. •

Using the Maestro SW for Canola Seeding vs Traditional Seeders

- Precise placement of seed at 40-60 percent higher speeds. •
- Manage your residue better without sacrificing seed placement. .
- Dramatically reduce seed mortality rate by maintaining precise depth and • gentle handling of seed.
- Seeds are more evenly spaced which results in more robust plants that can . endure more stress.
- Precise seed depth ensures even and rapid emergence resulting in higher . potential yields.
- In-furrow application of starter fertilizer to aid in rapid and even emergence, . improves plant vigor.
- Easier swathing or straight-cutting due to stronger more upright stalks. •



The precise metering of canola within the meter. Singulation is the key to success by less mortailty, less seed used, more accurate seed placement, without compromising yeild.

Canola Planting Vs. Seeding Study Up to 50% less seed rate without 2.5 compromising yield!

Maestro SW Planter Single Disc Competitor 1

Precision Canola Planting.

One Seed at a Time.



HORSCH AutoLine

AutoLine is a management tool for automatic control of tramline rhythms. With AutoLine the positions of other tramlines are calculated automatically after the first tramline has been laid. When planting, tracking now is no longer necessary. Every time the machine turns into a track that includes a tramline; the tramline valves are activated automatically. The function can be only used in combination with the HORSCH Touch Terminal.



HORSCH RowControl distribution tower

HORSCH drilling technology reaches a new level of precision

HORSCH SectionalControl technology is focused on input management along with providing more uniformity and consistency in the crop. By eliminating overlaps, input savings of 10-25+% can be achieved depending on field layout. Crop health and performance is also improved with the lack of overlaps. Lodging, over population, disease pressure, inconsistent maturity, and harvest difficulty are all symptoms of double seeding/fertilizing. When overlaps are eliminated, the crop is more uniform and consistent which dramatically decreases these negative impacts. The HORSCH SectionalControl distribution tower is the heart of overlap management while seeding. With SectionalControl technology, as the seeder enters areas of the field that have already been seeded, the tower begins to shut off sections of rows while at the same time the cart electric drive metering system immediately adjusts application rate to this new working width. By shutting product flow off to these rows, costly overlaps are eliminated.

The distribution tower consists of globally proven air system technology. Seed/fertilizer enter the tower centered in the tube and continue around the bottom radius in the same manner. Seed/ fertilizer remain centered in the flow upward towards the distribution manifold, a key dynamic in row-to-row volume output accuracy. As sections shut off via the row valves, air flow is maintained to the opener for thorough cleanout in the hose and creates air balance in the system. This balance maintains superior row-to-row volume accuracy even when sections of the tower shut off.



Logo seeded with HORSCH RowControl for the Practical Field Days



ISOBUS solutions

The future machines think actively and HORSCH Intelligence makes it possible. With intelligent software and electronic solutions HORSCH seed drills work even more efficiently and help you to save both money and increase confidence.

HORSCH seed drills are always equipped with the ISOBUS standard. This does not only mean that every HORSCH machine can be controlled with any ISOBUS terminal. Additionally, SectionControl, VariableRate as well as the TaskController for data processing is a standard equipment for

VariableRate

ISOBUS VariableRate allows for a site-specific application of seed and fertilizer. Thus, with an appropriate application card for every section within a field the optimum quantity of fertilizer and seed can be applied.

When using a HORSCH Touch 800/1200 terminals you can additionally use the MultiControl function. This function allows for independently varying the amount of fertilizer and seed. Without MultiControl the application rate of either fertilizer or seed can be varied.







Touch 800 Terminal

Touch 1200 Terminal



VariableRate takes different types of soil into account.

Advantages of VariableRate

- Savings of seed and fertilizer as only the necessary quantity is applied.
- Consistent emergence due to optimum number of seeds per acre.
- Different application rates are documented automatically.
- The optimum application rate is automatically used on the fields.

ISOBUS solutions

Planter

Maestro Row Crop Planting ISOBUS implement control

Monitor information and functions include:

- Skips Percentage
- Doubles Percentage
- Bar Chart for Skips/Doubles per row
- Seed Spacing Quality
- VC Quality
- Population
- Low High Population Thresholds
- Seed Spacing Quality
- Standard Deviation
- Split Screen
- Individual Row Information
- Resettable Acre Counter
- Vacuum Pressure
- Vacuum Fan / SOD Fan Rpm
- Auto Down Force Info
- Downforce Information
- Manual Swath Control
- Row by row diagnostics
- Folding / Unfolding



ISOBUS solutions

Seeder

HORSCH Seeding ISOBUS implement control Monitor information and functions include:

- Sectional control information
- Opener down pressure information
- Seed hose blockage
- Product calibrations
- Bin level
- Fan speed
- Folding / Unfolding



ISO Electronic Depth Control

Available for the Joker RT model tillage tool is the iconic ISO Electronic Depth Control. This has been designed for increased simplicity of use for your tillage applications. This allows for ease of adjustment, depth and front to rear leveling from inside the cab with precision. This feature along with an easy to use ISOBUS based interface is extremely accurate and gives live job performance statistics via the monitor. On the monitor you are able to set precise target depths in increments of 1/4 inch. Also included in this package is a garmin based GPS puck, this feature is capable of tracking speed, acres worked and lifetime acres and hours of machine. Overall, the Electronic Depth Control option is sure to save you time and provide more consistency to your farming operation.







Touch 800 Terminal



Touch 1200 Terminal



Electronic Depth Control ECU - control box



Garmin GPS equipped

Advantages of Electronic Depth Control

- Accurately, consistently and simply change depth and level from inside the cab.
- Garmin GPS puck tracks resettable and lifetime acres and machine hours.
- Simple calibration of machine before use.
- Adjust caster wheel height, hitch height, and target depth in increments of 1/4 inch.
- View machine wing pressure guage on monitor.

Lifetime Area:	835.7 ac	1
Machine Hours:	12.3	
System Voltage:	13.9 V	
Sensor A:	4.3V 7.5in	
Sensor B:	0.7V 0.3in	
Sensor C:	0.7V 0.4in	
ECU Part Number:	0630173753	'
Serial Number:	900	1
SW Part Number:	0770171467	
Software Version:	1.0.1.2] '
Pressure:	5 psi	1 1
Speed:	0.0 MPH]

SectionControl

ISOBUS SectionControl allows for switching off individual sections automatically via GPS. The current position is determined, thus at field boundaries, on the headlands, in case of overlaps or in predefined areas individual sections (half-widths, individual row switch-off) or the whole working width is shut-off automatically.

When using a HORSCH Touch 800/1200 Terminal you can additionally use the MultiControl function. This function independently switches on and off the application of fertilizer and seed. Without MultiControl either fertilizer or seed can be switched on and off at the right time.



TaskController

The ISOBUS TaskController transfers data from the PC to the terminal in an uncomplicated way. It is also possible to transfer application rates, seeded area and other data that were recorded while seeding from the terminal to the PC.

This facilitates the administration of the acreage index. Via the integrated order management system orders can be created and executed.

Advantages of the TaskController:

- Uncomplicated data exchange
- Automatic documentation
- Structured working due to data management
- Simple administration of the acreage index



Soil quality	Seed	Fertilizer
high	300 grains/m ²	7 dt/Acre PK
medium high	270 grains/m ²	6.25 dt/Acre PK
medium low	250 grains/m ²	5.75 dt/Acre PK
low	220 grains/m ²	5.0 dt/Acre PK

VariableRate Seed OR fertilizer

VariableRate with MultiControl

VariableRate allows for applying adapted quantities of fertilizer and seed on the basis of application cards.


