

**The Precision Farming is the most innovative in the modern farms.**

This cultivation "allows the application of agricultural inputs in the correct locations and quantities required" because the soil should be seen heterogeneously, ie each piece of farm, for example, has different characteristics.

**Advantages of using the APT system:** Increased crop yields, more accurate information for making decision, reduction of the quantities of fertilizer, operation and monitoring done from the tractor cab (comfort and safety), fixed or variable rate application of inputs in real time and compatible the tractor and machine displacement, reduced maintenance, among others.



## USAP SUPREMA

### Vaccun Seed Metering – Precision Planting

vSet features a flat disk with a single vac setting. It releases seeds down the center of the tube – critical to optimum spacing. And has a floating, 5-lobed singulator that makes sure no two seeds of any kind can occupy the same hole. One seed locks in and one seed drops. Every time. This champion singulator is a model of simplicity in operation. It handles any seed size or shape without finicky tweaks to vac pressure, disk or singulator settings. Just pour in the seed and go. Then get ready for your best possible yield.



### TITANIUM:

Seed Metering: a simple and efficient mechanical dosing seed system that provides high percentage doubles elimination and missed seed, indicated for several crops (corn, soybean, cotton, edible beans, peanuts, canola and sorghum) changing only the seed plate and rings.

### TECHNICAL SPECIFICATIONS:

Nº of Rows	Spacings (mm)	Working Width (mm)	Total Width without marker (mm)	Transport Width without marker (mm)	Total Length (mm)	Transport Length (mm)	Fertilizer Capacity (liters)	Net Weight USAP -(Kg)	Net Weight SUPREMA (Kg)	Tractor Required - USAP (cv)	Tractor Required - USAP SUPREMA (cv)
18	450, 500, 550	8.880	8.940	6.500	9.290	11.170	2.600	11.370	10.530	140 - 180	180 - 200
20	450, 500, 550	9.880	8.940	6.500	9.290	11.170	2.860	11.994	11.755	150 - 180	190 - 210
22	450, 500, 550	10.880	9.860	6.500	10.300	11.300	3.640	13.622	12.930	160 - 180	200 - 220
24	450, 500, 550	11.800	12.040	6.500	10.300	12.290	4.160	13.815	12.742	180 - 200	220 - 240
25	450, 500, 550	12.300	12.910	6.500	10.300	12.800	4.160	14.402	14.586	180 - 200	220 - 240
26	450, 500, 550	12.800	12.910	6.500	10.300	12.800	4.680	14.460	14.980	190 - 210	230 - 250
27	450, 500, 550	13.300	14.910	6.500	10.300	12.300	4.680	14.537	15.050	200 - 220	240 - 260
28	450, 500, 550	13.800	14.910	6.500	10.300	12.300	4.160	14.727	15.607	210 - 230	250 - 270
29	450, 500, 550	14.300	14.910	6.500	10.300	12.300	4.680	14.933	15.890	220 - 240	260 - 280
30	450, 500, 550	14.800	14.910	6.500	10.300	12.300	4.680	15.867	16.100	230 - 250	270 - 300
32	450, 500, 550	15.800	15.890	6.500	10.300	13.200	4.680	16.914	16.430	240 - 260	280 - 310
33	450, 500, 550	16.300	16.280	6.500	11.500	14.780	5.720	17.360	17.050	250 - 270	290 - 320
35	450, 500, 550	17.300	17.890	6.500	11.500	14.780	6.240	17.770	17.365	270 - 290	320 - 340
36	450, 500, 550	17.800	17.890	6.500	11.500	18.600	6.240	18.234	17.760	280 - 300	320 - 360
40	450, 500, 550	19.800	20.900	6.500	14.900	18.600	6.240	19.428	19.750	300 - 320	340 - 360
42	450, 500, 550	20.800	20.900	6.500	14.900	18.600	6.240	20.802	20.737	320 - 340	360 - 380
45	450, 500, 550	22.300	20.900	6.500	14.900	18.600	6.240	22.653	22.738	340 - 360	400 - 420
46	450, 500, 550	22.800	22.400	6.500	14.900	19.400	6.240	22.425	22.920	350 - 380	400 - 420
50	450, 500, 550	22.800	22.400	6.500	14.900	19.400	6.240	23.050	23.320	350 - 380	400 - 420

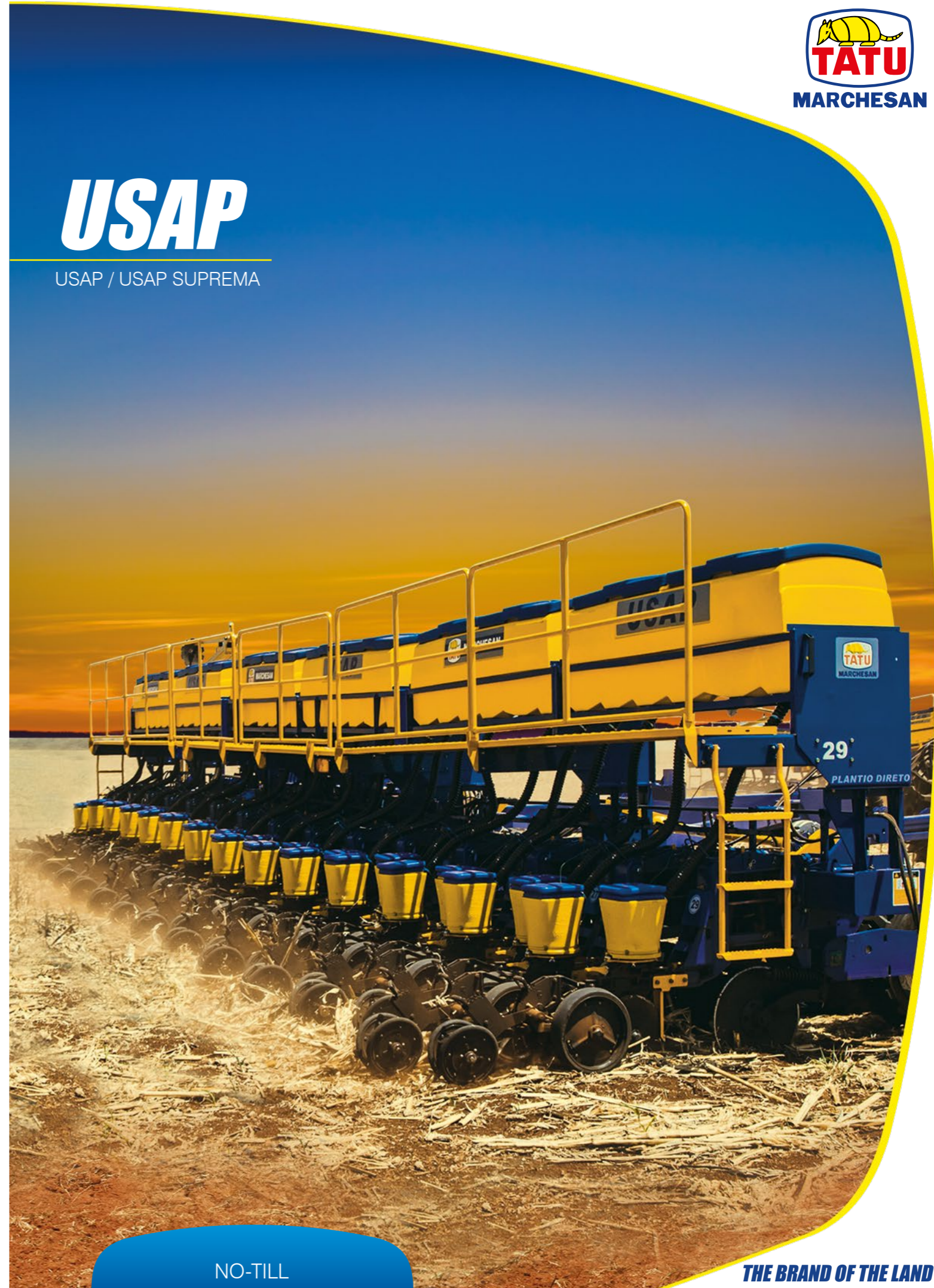
\* Approximate weights, being able to undergo alteration according to the added options. > For other configurations, consult the factory.

MARCHESAN S.A. reserves the right to perfect or change the characteristics of its products, without prior notice and without the obligation to proceed with those already marketed. The photos are only illustrative. 12/2018 - Rev. 00

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MARCHESAN

## USAP AND USAP SUPREMA

The USAP planter was developed based on the planting seed rows that are used in the TATU MARCHESAN planters, tested in the last 25 years and are widely used in no-tillage. The development of the USAP aims to meet the severe planting conditions found in areas with high straw level.

- Flexible for changing to the desired crop spacing.
- Narrow transport width, closing the machine by a hydraulic system.



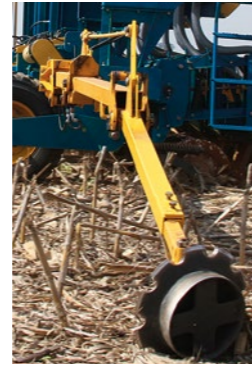
**Transmission:** equipped with exclusive TRA system, making possible a wide range of combinations for seeds distribution of different crops, without use of tools for changing to a desired sprockets.



**Electromagnetic Clutch:** with automatic activation in maneuvers for individual or sections on/off row control. When the clutch is engaged, the TRA transmission stops spinning.



**Clearance:** 685mm clearance that provides a great productivity improvement, allowing the straw to flow easily under the machine, without stop planting for cleaning the residues.



**Row Markers:** Tri-articulated, has hydraulic cylinders and adjustments for length and angle of the arm, forming a compact system for transporting. The 15" disc, with structural tubes and two hydraulic cylinders.

**Seed Row Unity:** The concepts of planting row and how to assemble to a single toolbar are designed to comply with the severe conditions requested in the no-till planting system.

The project allows:

- anticipate planting in several hours, shortly after rainy season.
- excellent performance in clay soils, as well in large straw volume.
- excellent straw cutting performance.
- seed row unit designed to make easy the straw flow.
- reduced soil compaction.
- great flexibility to follow uneven grounds.
- improved performance for distributing treated seeds.

**High cutting straw capacity:** the assembly position of the double discs, allow a continuous operation and an excellent straw cutting even in soils with high level of residues.



**High cutting straw capacity:** the assembly position of the double discs, allow a continuous operation and an excellent straw cutting even in soils with high level of residues. 18" Plain Coulter Blade: Allow lateral movements and adjustments on height to follow uneven ground in different situations and soil conditions.

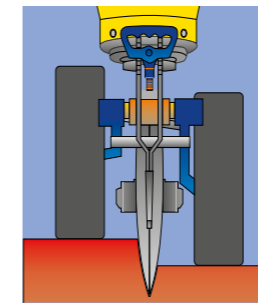
**Optional:** 20" Plain and Rippled coulter blade.



**Tires:** higher grip and lower compaction.



**Reduced compaction:** the assembly distance of control depth wheel and coulter blade assembly, prevent soil compaction.



**Depth control wheels:** acting next to the seed double discs to control the proper depth of planting. Independent and vertical oscillations of the bands allow to follow the soli irregularities, providing an uniform emergence of the plants.

**Concept for No-Till Planting:** the distance between depth control wheel and the double discs assembly provides better conditions for planting in compacted soils, inhibiting the adherence of straw or clay soils to components of the planting line.



**Seed system:** efficient distributors and high precision. Horizontal perforated discs for different cultures and grain sizes. Standard discs for corn and soybeans.



**Unaligned double disc:** make easy to open the furrow to get a homogeneous seed placement depth, providing an uniform seed germination.



**"V" Press Wheel Assembly:** equipped with 5 adjustments levels. The press wheel make pressure in the superficial layer, eliminating air pockets, improving contact between soil and seed. The result is better seed distribution and germination.

