

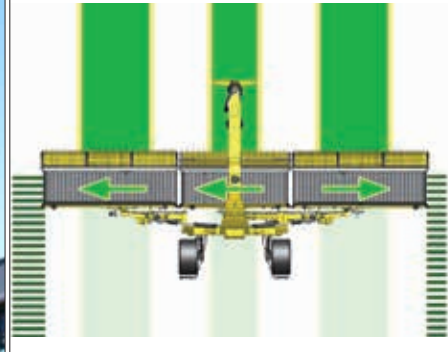
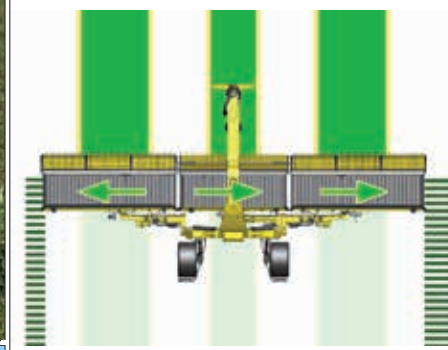
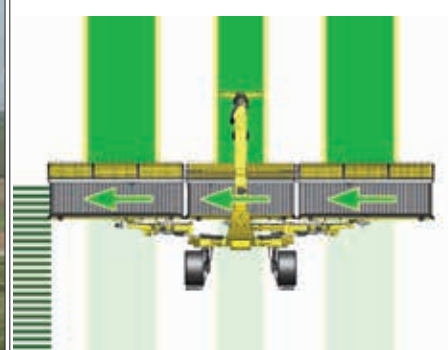
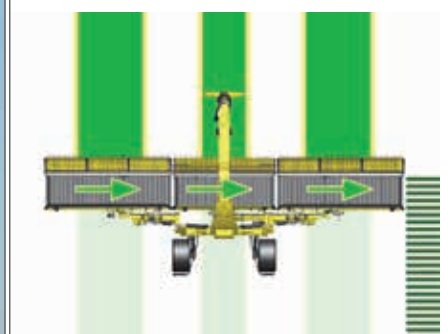
*SERIES ST*

**ROC**





# ST 1150



1

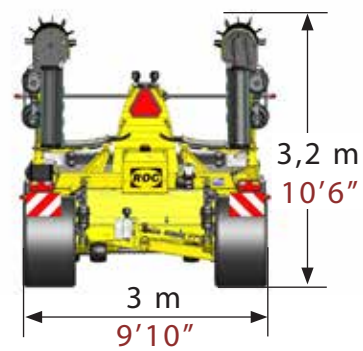
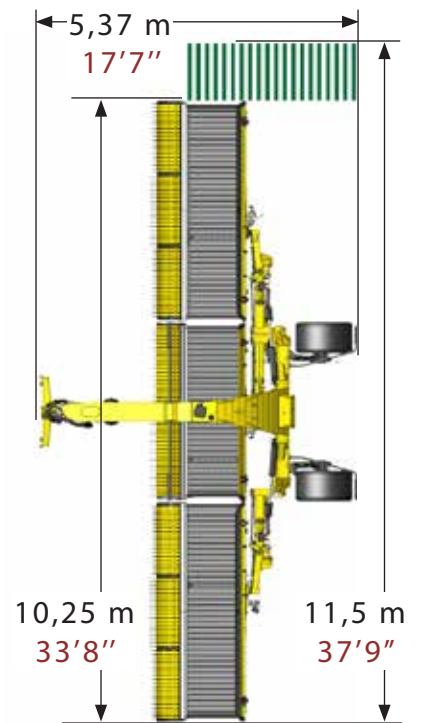
2

3

4



# ST 1150



5





6

7

8

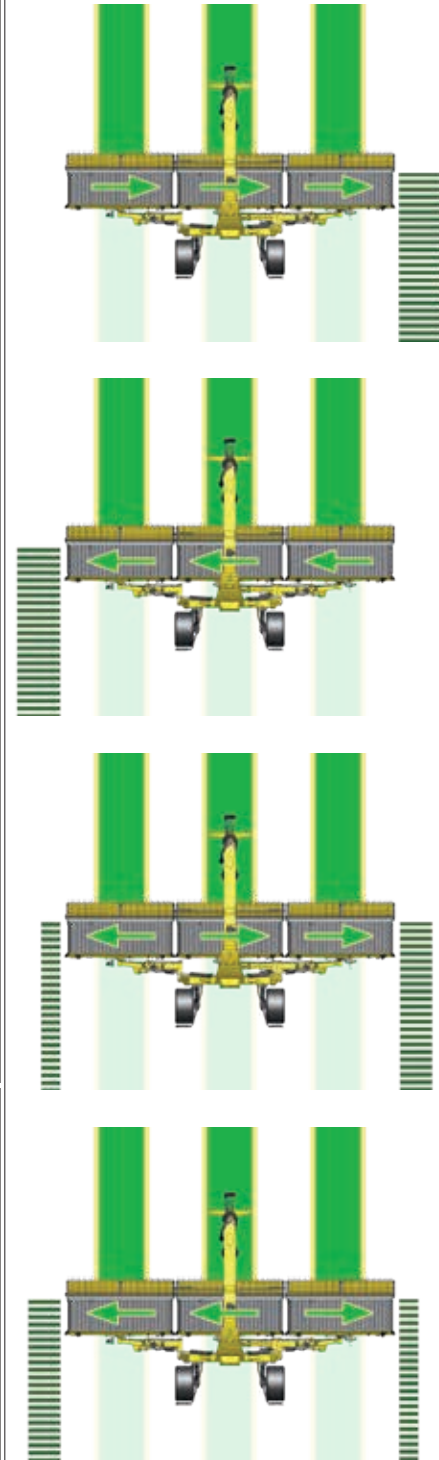
 5420 kg  
11949 lb

100 hp min.power  
75 kw  n.5  
60 l/min 16 gpm

 650/40 R22,5



# ST 1000



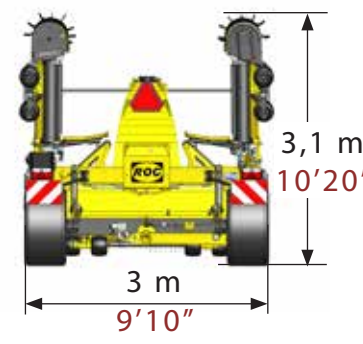
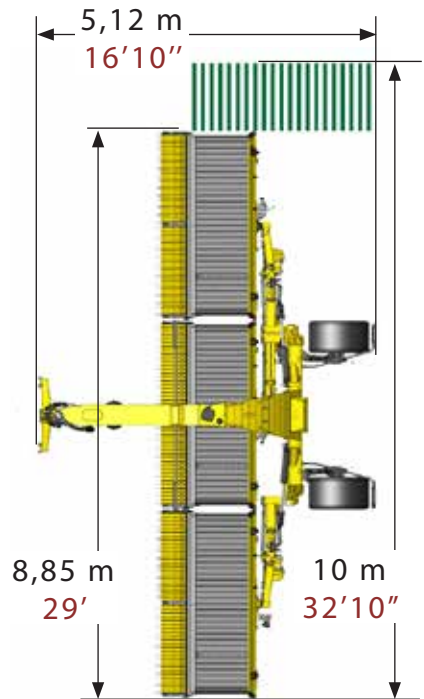
10

11

12



# ST 1000



14



15

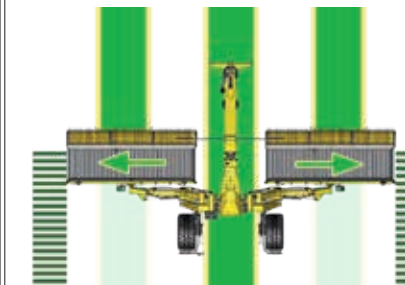
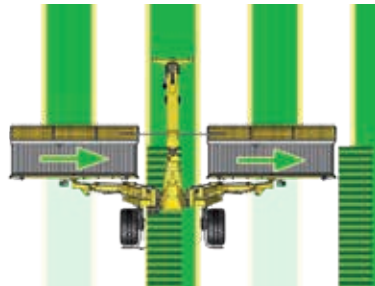
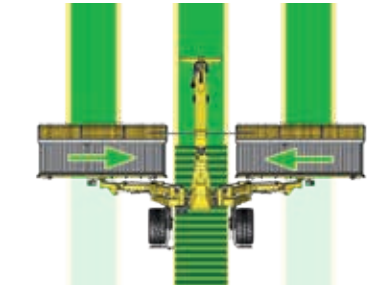


16

-  4620 kg  
10185 lb
- 90 hp  
67 kw
- min.power  n.5  
60 l/min 16 gpm
-  500/50 R17



# ST 920



17



18



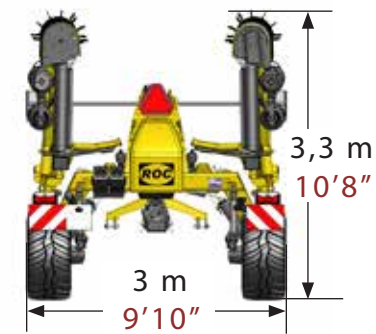
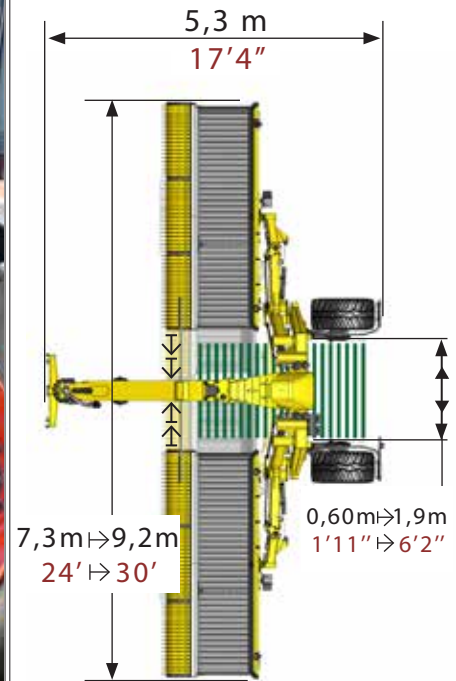
19



20



# ST 920



21



22



23

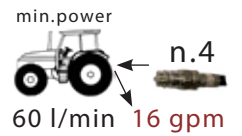


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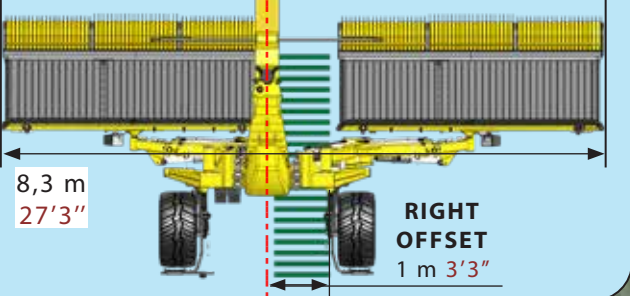
4670 kg  
10295 lb

90 hp  
67 kw

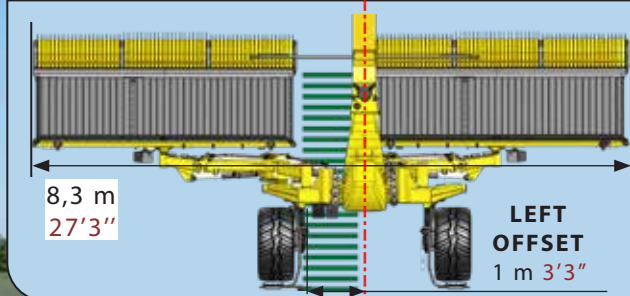


500/45 R22.5

*Right offset traslation*



*Left offset traslation*



**OPTIONAL**



**7" display for ISOBUS tractor**

**Joystick IsoMatch Grip 12 buttons**

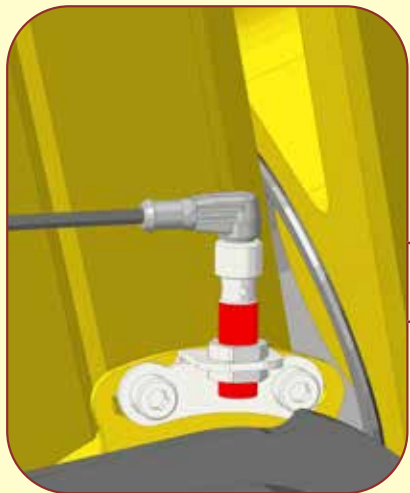
**OPTIONAL**

**ST 920**

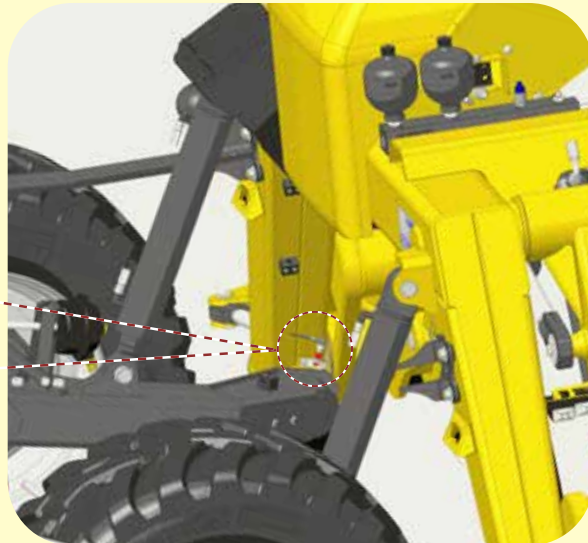


**Right hydraulic swath guard**

**OPTIONAL**



**Automatic Switch off Belts**



**Flashing and working lights**



**OPTIONAL**



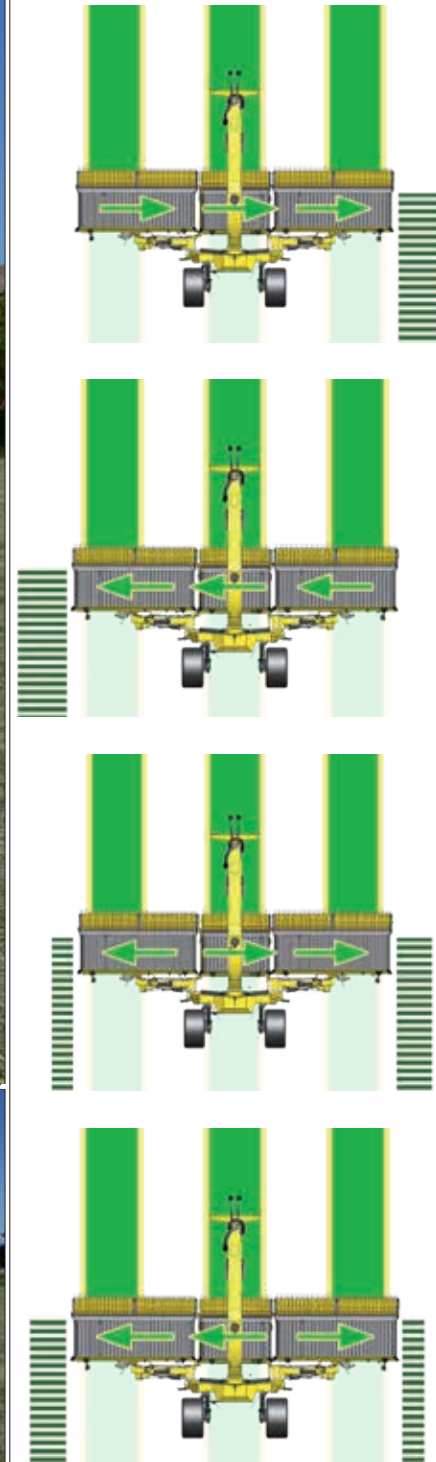
**Automatic Grease system**



# ST 870



25



26



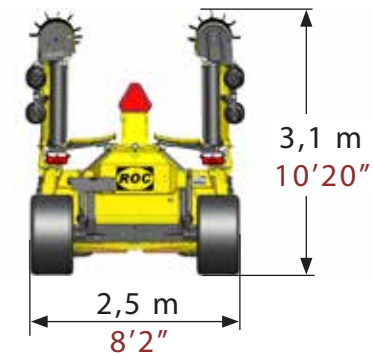
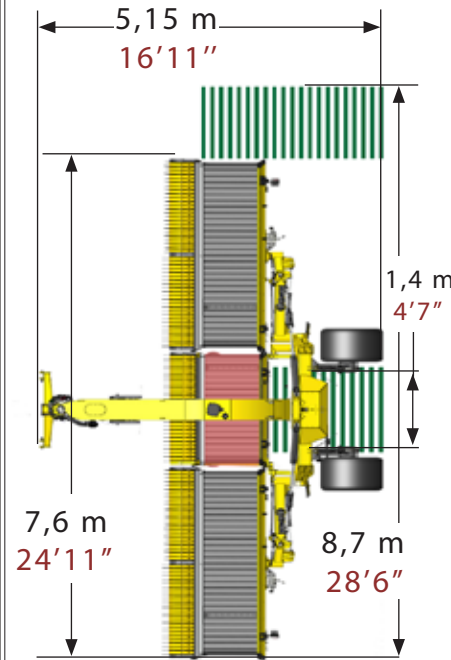
27



28



# ST 870



29




30




31



32

 4190 kg  
9237 lb

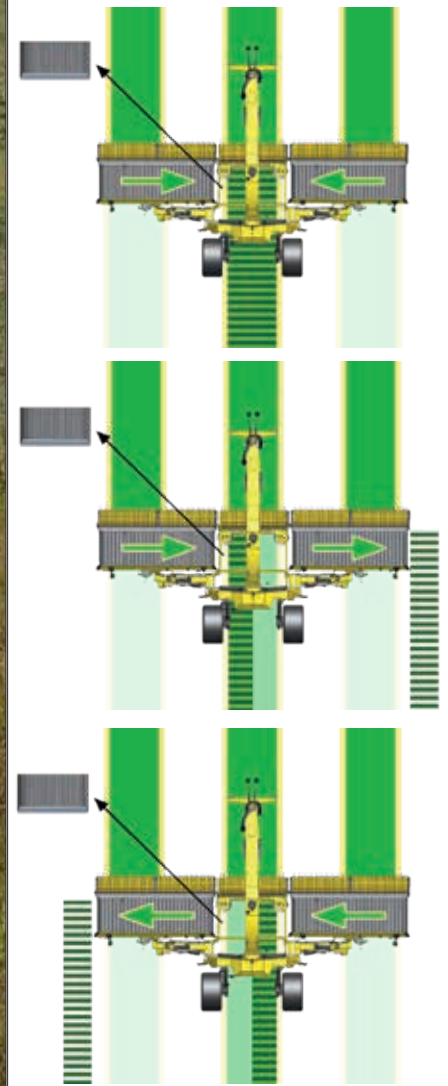
80 hp  
60 kw

min.power  n.3  
60 l/min 16 gpm

 500/50 R17



# ST 870



33



34



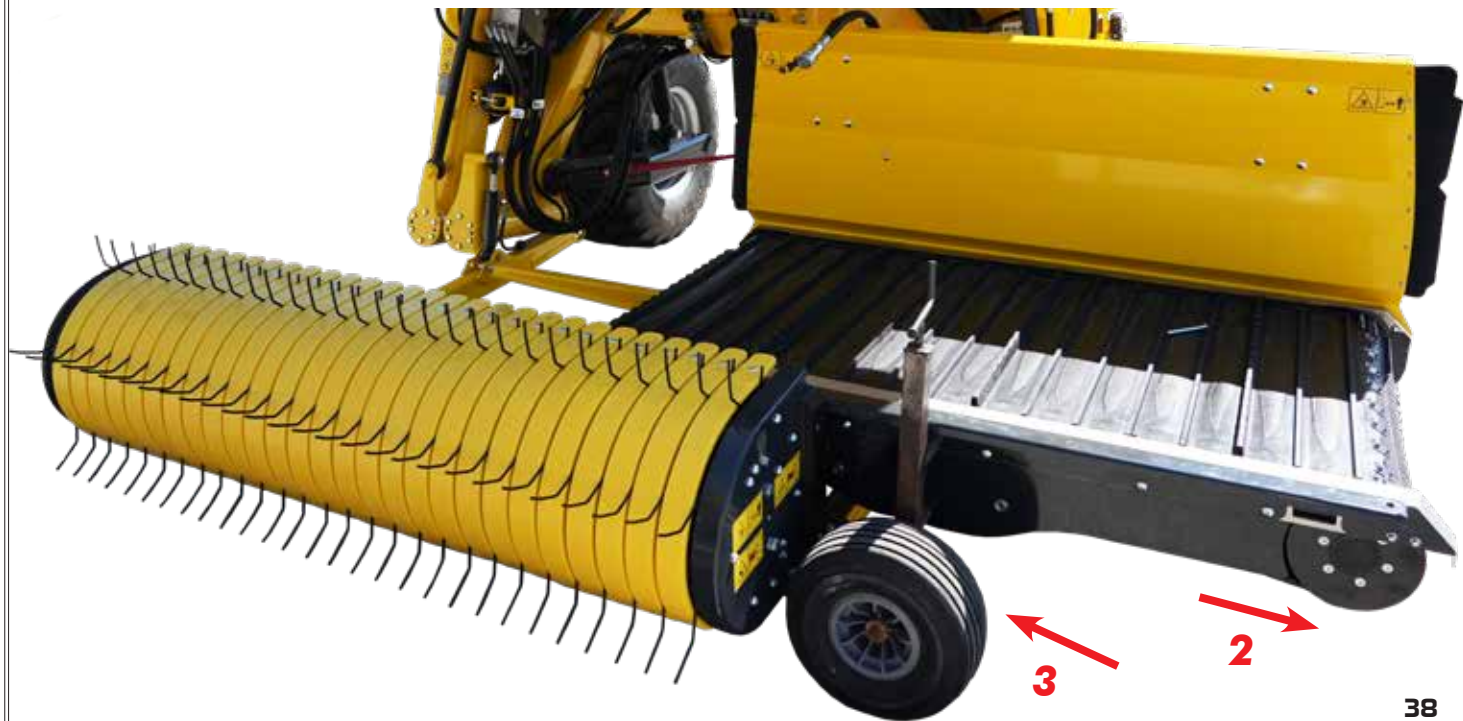
35



36

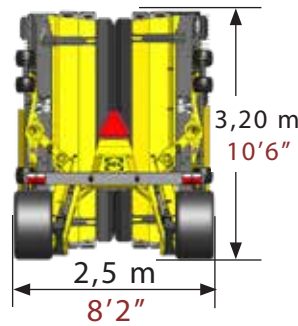
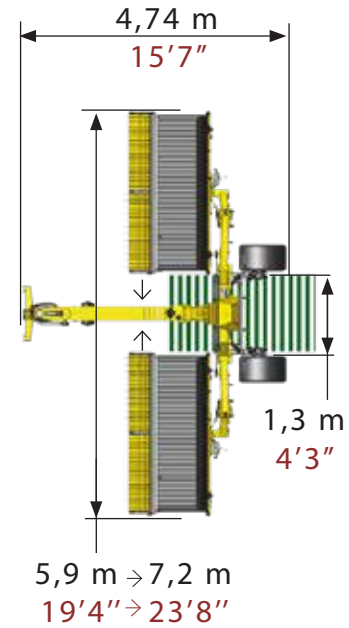


# ST 870 - Belt removal





# ST 730



41

3120 kg  
6878 lb

70 hp  
52 kw

min.power n.3  
50 l/min 13 gpm

480/45 R17



42



43



44



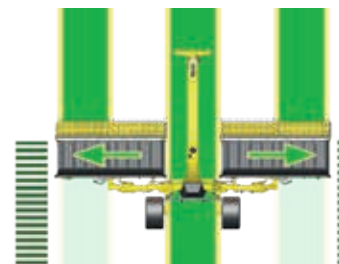
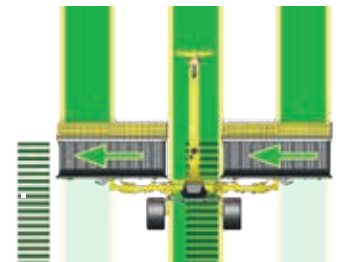
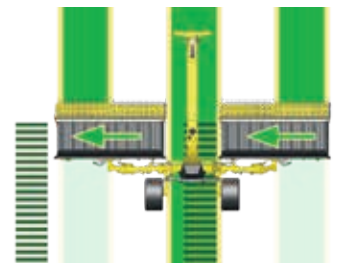
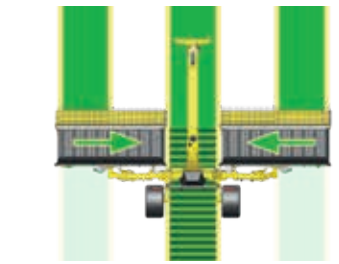
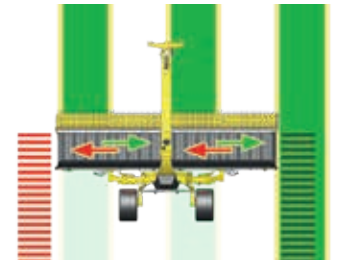
45



# ST 730



46



47



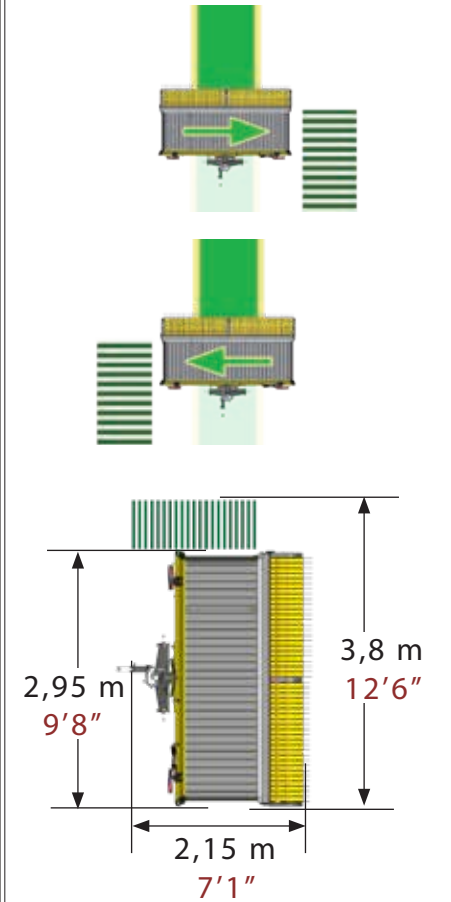
48



49



# ST 380



50



51



52



53



940 kg  
2072 lb

60 hp  
45 kw

min.power



34 l/min

n.3

9 gpm

## OPTIONAL



**Hydraulic swath guard (right side)**  
Optional for ST 1150 - ST 1000 - ST 920 - ST 870 - ST 730

## OPTIONAL



**Tandem wheel electrical adjustment**  
Optional for ST 1150 - ST 1000 - ST 920 - ST 870 - ST 730  
Standard for ST 380

## OPTIONAL



**Airbrakes system homologated Mother Reg.**  
Optional for all trailed models



# ROC mergers – key features overview

ST 1150 - ST 1000 - ST 870 - ST 380

Watch the Video



ST 1150 - ST 1000 - ST 920  
ST 870 - ST 730 - ST 380



ROC mergers offer the best performance on the merger market in terms of :

- ✓ Crop quality
- ✓ Suitability for different types of crops and field conditions
- ✓ Adaptability to small fields and hilly conditions
- ✓ Productivity and efficiency
- ✓ Reliability and durability
- ✓ Ease of maintenance
- ✓ Operational cost optimization



# ROC mergers – key features overview

ST 920 - ST 730

Watch the Video



# 1 Mechanical suspension and rubber tandem wheels



## Key highlights

- **4 solid rubber offset wheels** with spring suspension placed in tandem under each pick-up (from 4 to 12 wheels per machine depending on model).

## Main benefits

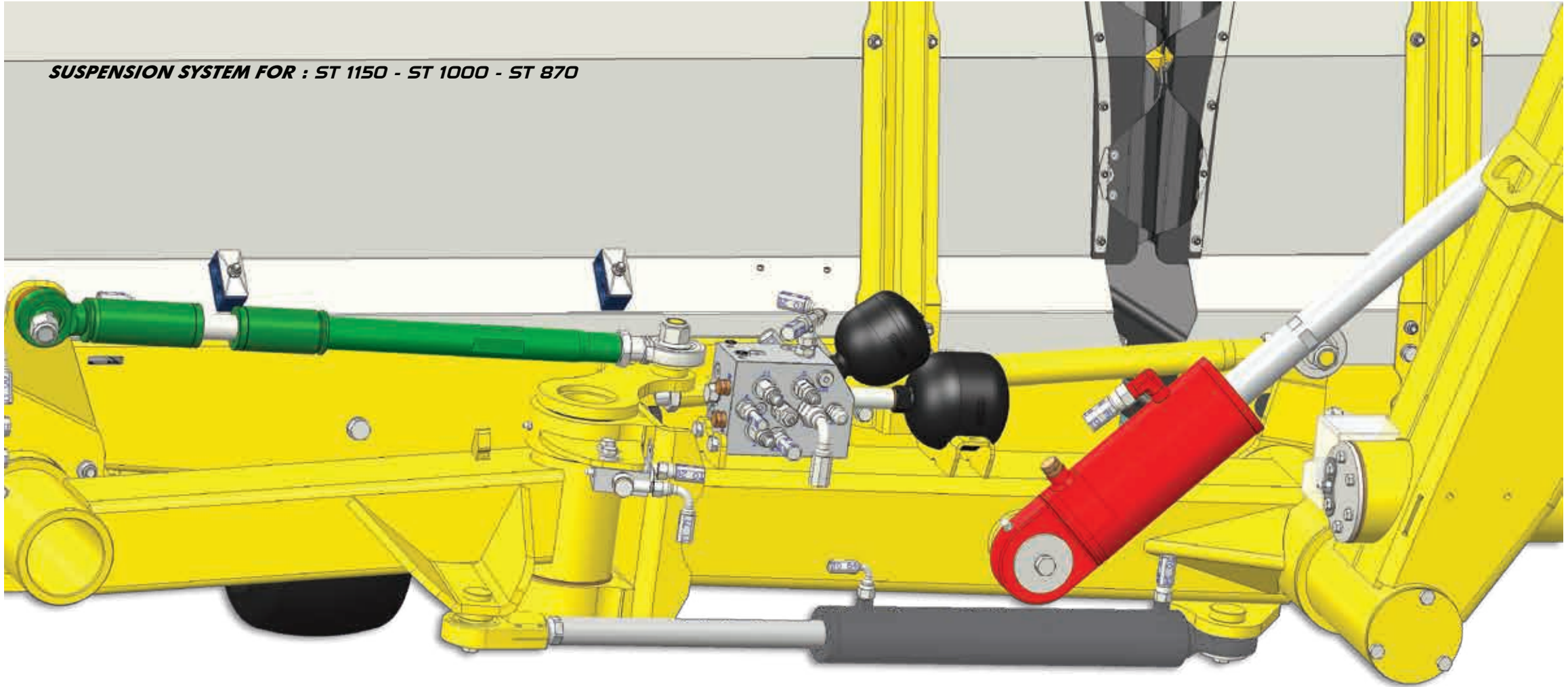
- ✓ **Excellent harvest quality:** the combined work of spring suspension fixed on tandem and rubber wheels minimizes crop and field surface damage compared to steel rollers or skids.
- ✓ **Less friction:** the rubber wheels roll and do not slide, so they create less friction, require less power and thus a smaller tractor.
- ✓ **No fire risk:** the rolling movement, together with the rubber material of the wheels, prevents sparks and thus the risk of fire, especially with straw and biomass crops.
- ✓ **Shock and vibration absorption:** the combination of spring suspension and solid rubber wheels reduces the transfer of vibrations to the frames of the machine, extending its lifetime.

Watch the Video



## 2 *Hydropneumatic suspension*

*SUSPENSION SYSTEM FOR : ST 1150 - ST 1000 - ST 870*



### *Key highlights*

- Independent hydropneumatic suspension with 3 cylinders on each pick-up working with oil and nitrogen (from 6 to 9 hydraulic cylinders involved depending on model).

### *Main benefits*

- ✓ **Ground tracking:** the hydraulic cylinders secure higher adaptability to bumps and hollows.
- ✓ **Adaptability to hills:** the independent suspension system on each pick-up allows the merger to adapt to hills and mountains.
- ✓ **High working speed:** thanks to the sophisticated suspension system, the merger can even exceed 20 km/h (12 mph) depending on field conditions.
- ✓ **Less wear:** the suspension system lightens the load on the wheels under the pick-ups, thus increasing the lifetime of mechanical components.

*Watch the Video*



### 3 Road suspension and whole frame lifting



#### Key highlights

- Road suspension system on the rear wheels.
- Lifting of the whole machine's frame (not only of the pick-ups) through cylinders acting on the rear axle.

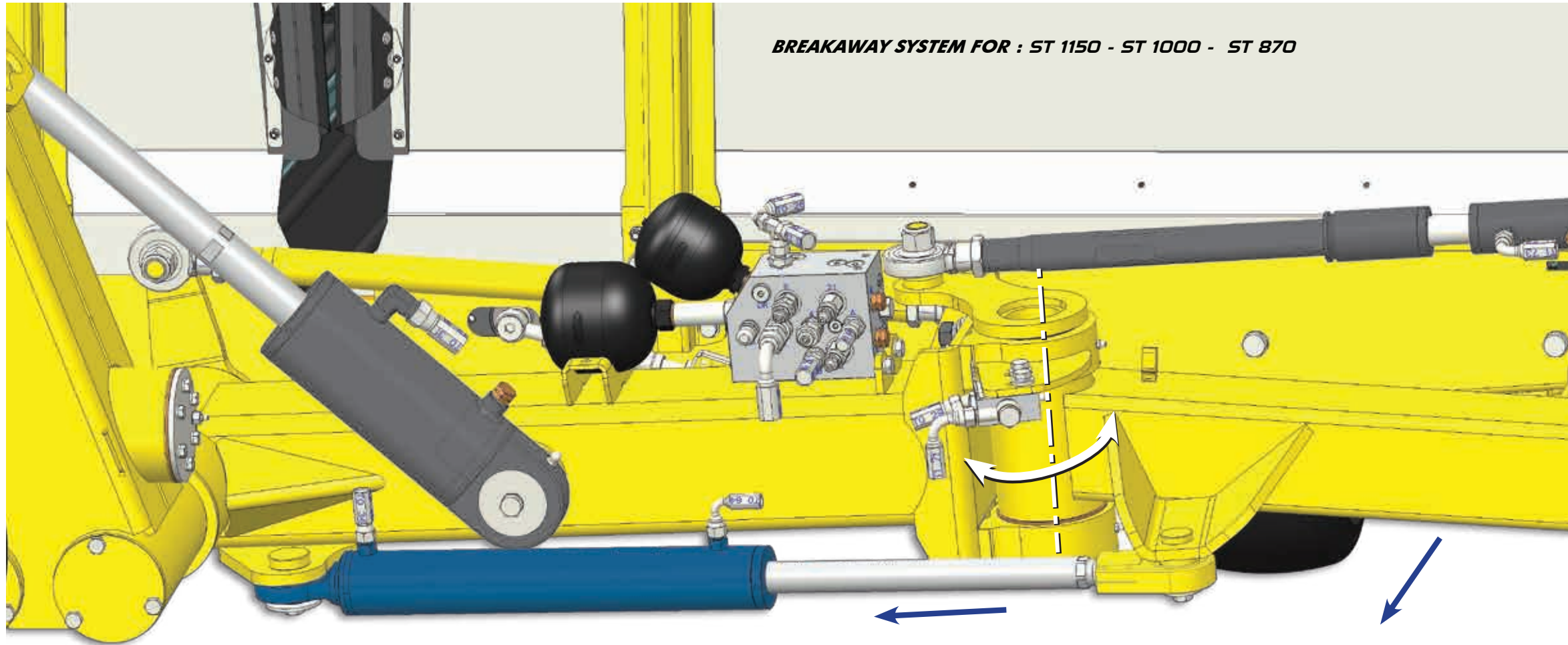
#### Main benefits

- ✓ **High manoeuvrability:** the merger can be raised to a considerable height of 1 m (3') to pass over large windrows.
- ✓ **High travel speed:** the road suspension makes our merger unique on the market and able to travel at 40/50 km/h (25/30 mph) without compromising its stability.
- ✓ **Frame preservation:** less risk of structural damage thanks to the work of the suspension.
- ✓ **Operating convenience:** entrance to uneven fields and loading/unloading from ramp trucks is easier, faster and safer.

Watch the Video



## 4 Breakaway system (blue cylinder) and other safety devices



**BREAKAWAY SYSTEM FOR : ST 1150 - ST 1000 - ST 870**

### Key highlights

- Several safety devices featured in the merger to minimize damage and replacement cost in case of accident.

### Main benefits

- ✓ **Damage limitation:** the breakaway cylinder allows the lateral pick-ups to fold backwards in case of accident, preventing them from big damage.
- ✓ **Cheap repair:** damage limitation allows to replace small parts instead of the whole frame, saving time and money.
- ✓ **Pick-up protection:** the merger is equipped with safety valves that protect the pick-up in case of obstruction or overstrain.
- ✓ **Belt protection:** the merger is equipped with safety valves that protect the belt in case of blocking.
- ✓ **Electronic independence:** the merger can perform all the main functions even in case of electronic breakdown (ST 730 and ST 920 excluded).

Watch the Video



## 5 Jointed belt



### Key highlights

- Roller-less conveyor belt.
- No gearbox thanks to the special hydraulic motor.
- Reinforced belt with toothed sides.
- Saw shaped rubber bars with inner fiberglass rods.
- Cuttable belt for small section replacement.
- Extremely long lifetime of several thousand hours.

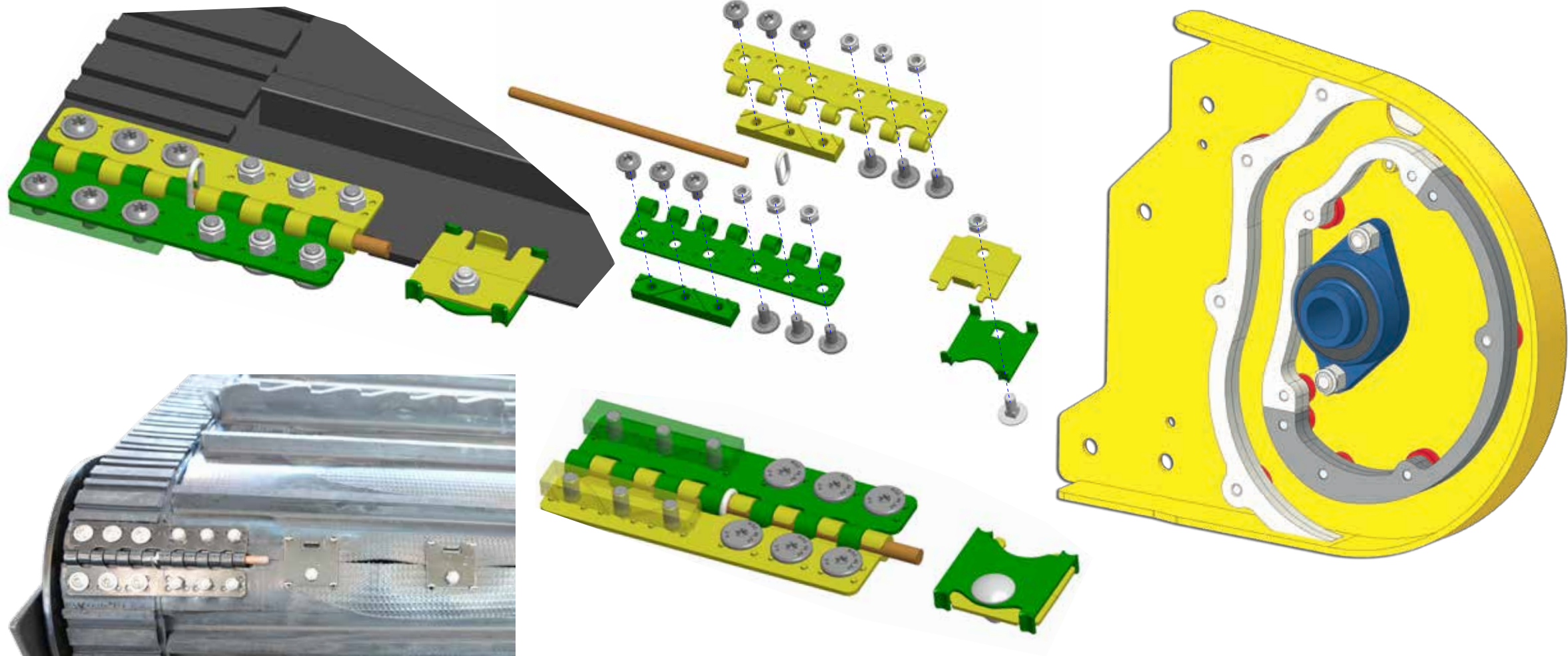
### Main benefits

- ✓ **Time-saving:** the roller-less design eliminates the dirt and crop residues that typically stick on rollers, avoiding time wasted for cleaning.
- ✓ **Always-assured traction:** slippery is avoided thanks to the traction between the toothed pulleys and the extremities of the belt, which are toothed too.
- ✓ **Maintenance-free transmission:** the lack of gearbox allows no periodic control and oil change.
- ✓ **Better crop grip:** the internal fiberglass rods ensure lightness and flexibility, the rubber allows for an extraordinary crop grip and the saw shape helps to grab the crop while keeping the belt extremities clear.
- ✓ **Ideal crop flow:** 3 different height levels secure better grip and an even flow of any kind of crop.
- ✓ **Easy maintenance and money-saving repair:** easy access to the inner part of the belt by opening the joint. In case of an accident, the spare trap door avoids the replacement of the whole belt.

Watch the Video



## 6 Easy maintenance and replacement, quality material



### Key highlights

- Special design for an easy maintenance.
- Section construction for a quick and cost-effective replacement.
- Practical replacement of most wear parts without using two wrenches at a time.

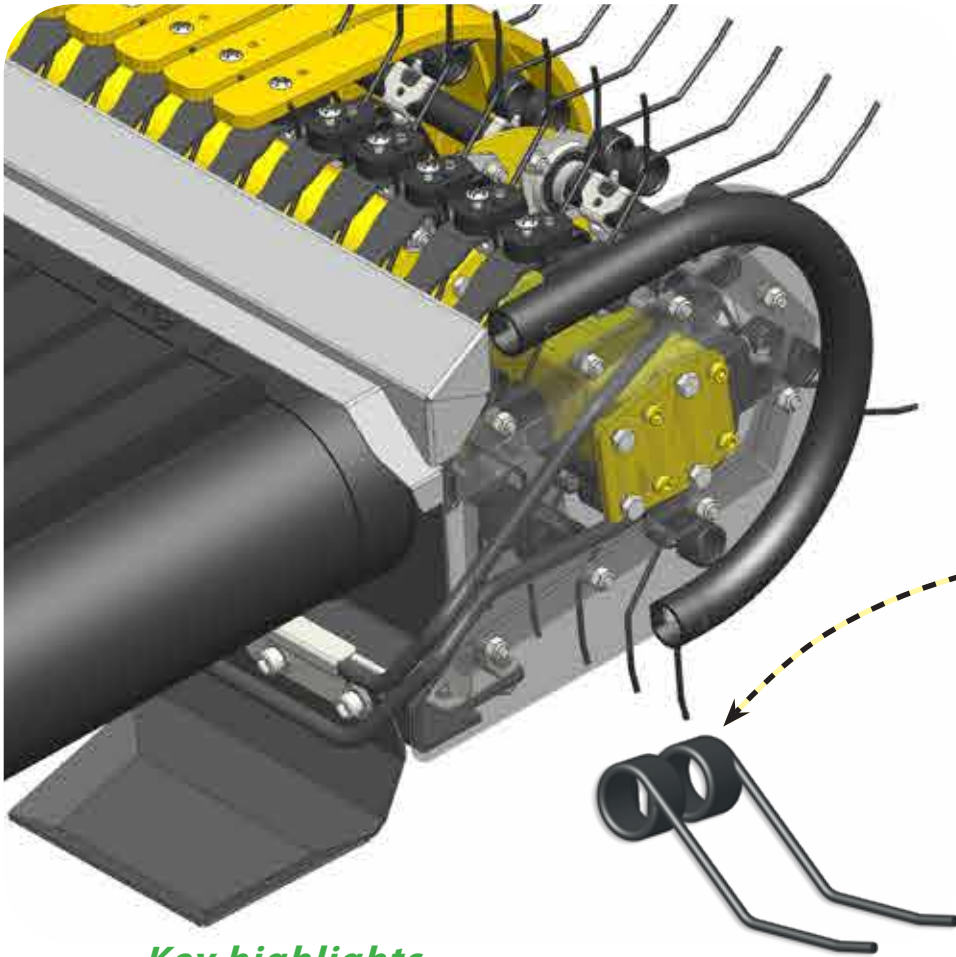
### Main benefits

- ✓ **User-friendly maintenance:** the simple yet highly engineered design facilitates maintenance even for non-professional operators.
- ✓ **Money-saving replacement:** modularity allows to replace single small components instead of big expensive parts, saving money also on shipment.
- ✓ **Time-saving replacement:** highly detailed design enables to save on time and personnel.
- ✓ **Quality and durability:** stainless steel is used for little thin plates and small screws in contact with the crop, and the length and diameter of the main axles are over dimensioned preventing the wear of the bushings.

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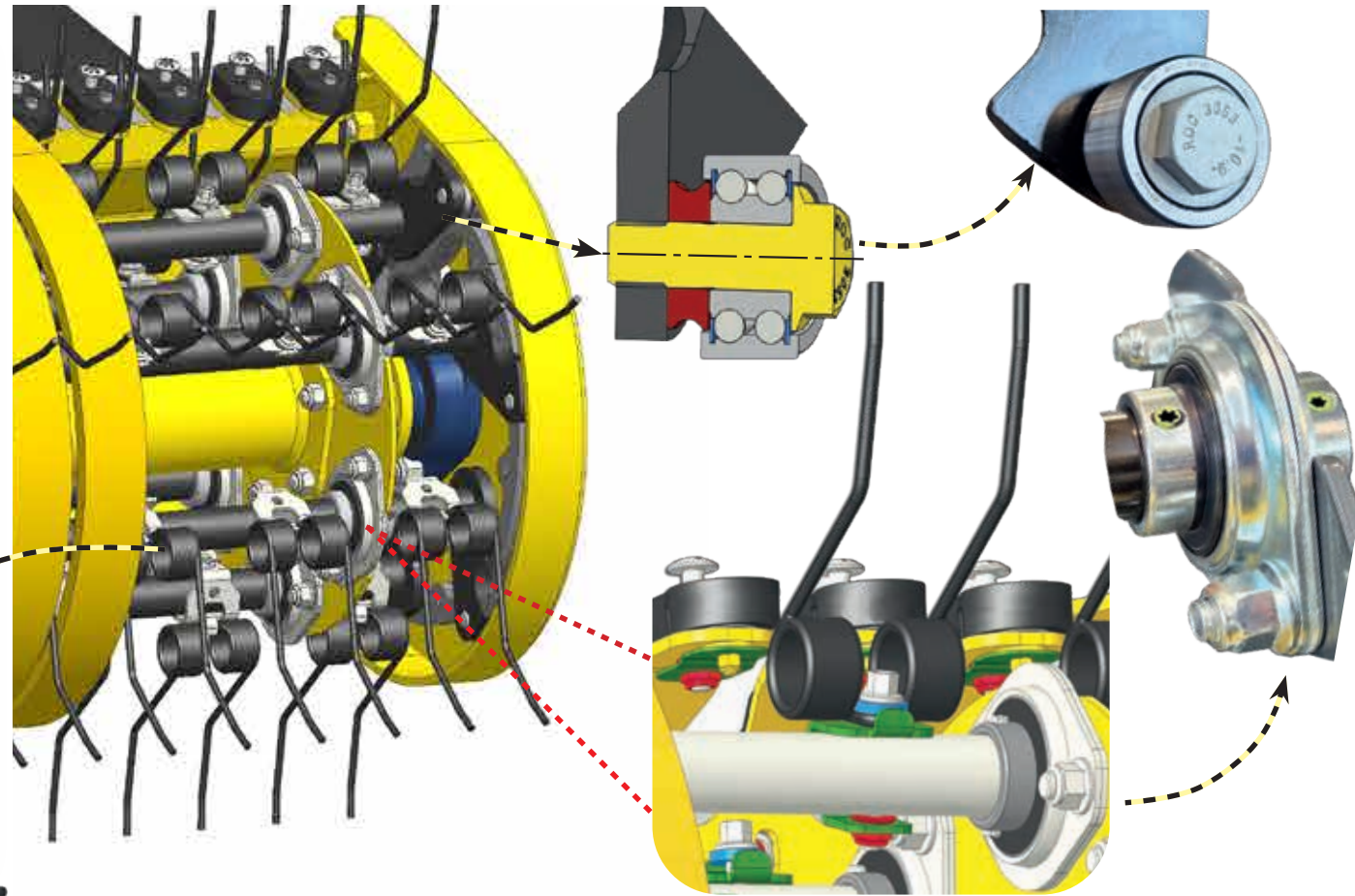


## 7 Unique pick-up construction



### Key highlights

- Solid pick-up system with 6 tine bars mounted on zinc plated bearings.
- Bended tines preventing the crop from rolling forward.
- No need of roller over the pick-up unit.
- Rounded plastic supports under each yellow band to avoid crop blockage between pick-up and belt.



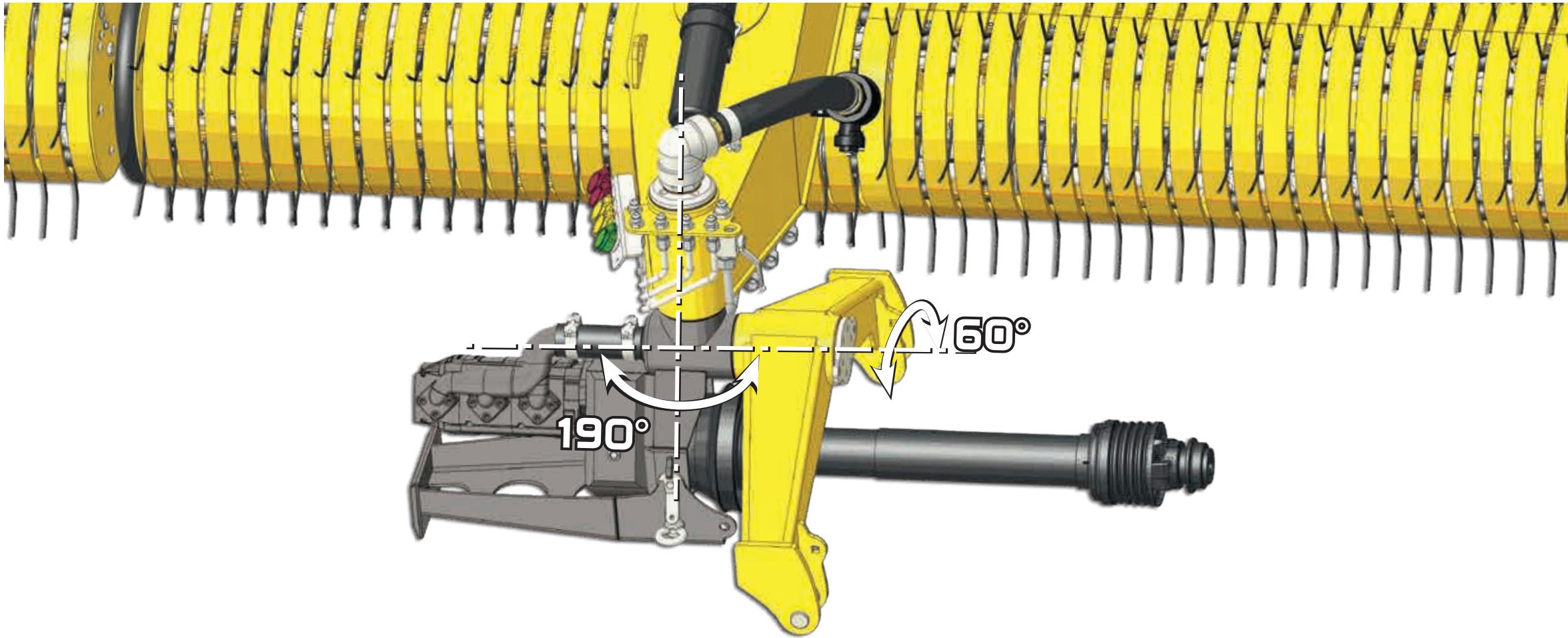
### Main benefits

- ✓ **No crop contamination:** unparalleled quality of crop, free of dust and stones, can be reached thanks to the special tine shape.
- ✓ **Premium crop quality:** loss of leaves is significantly reduced in fragile crops like alfalfa thanks to the special shape of the tines, together with the gentle speed of the pick-up.
- ✓ **High versatility:** the merger is able to perform efficiently in a variety of crops even during daytime, with no need of pick-up roller that crushes the crop and causes leaf loss.
- ✓ **Work optimization:** to increase the productivity of the following machines, single swaths can be reloaded and joined into a bigger swath without losing crop quality.
- ✓ **Regrowth preservation:** unlike traditional rakes, the belt merger causes no damage to crop regrowth.

Watch the Video



## 8 High steering and manoeuvrability



### Key highlights

- Vertical axle with 190° steering angle for tight turns.
- Gearbox and pump assembly aligned with the tractor's hitch.
- Horizontal axle with 60° for freedom of transverse movement.
- Rocker arm loading the arms of the tractor's linkage evenly.

### Main benefits

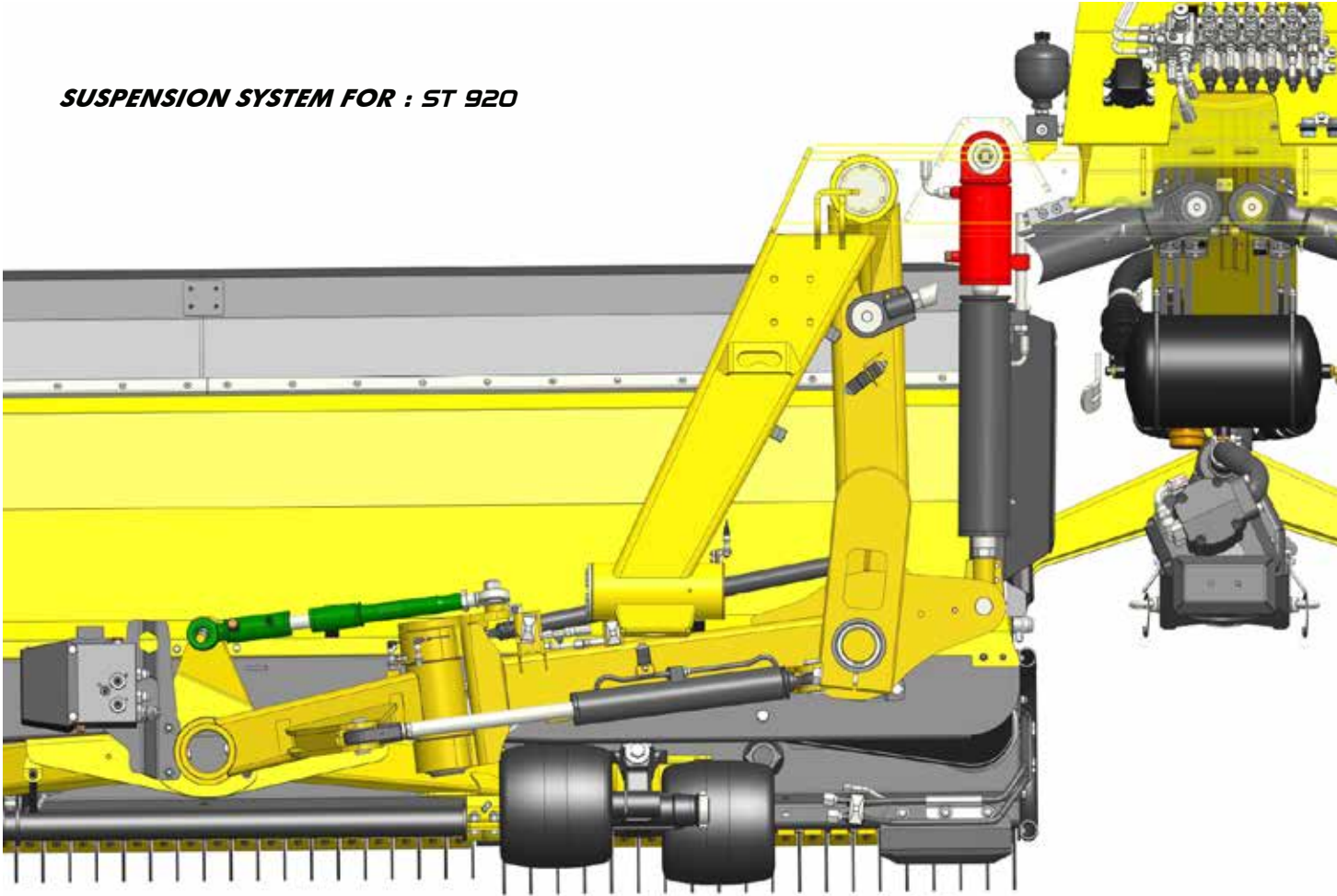
- ✓ **High steering:** fast and easy to handle, the merger allows tight turns (95° + 95°) in small fields, headlands and narrow entrances with no stroke limit on the frame.
- ✓ **PTO preservation:** the gearbox and pump assembly, always aligned with the tractor's hitch and not with the merger's drawbar, secures that the PTO shaft is always straight when steering.
- ✓ **Adaptability to hills:** the horizontal axle, keeping the machine independent from the tractor's inclination, prevents any torsion on the frame and makes the merger ideal for hilly conditions.
- ✓ **Higher stability:** the rocker arm of the merger keeps an equal load on the arms of the tractor's linkage, ensuring the best driving comfort, both in the field and on the road.

Watch the Video



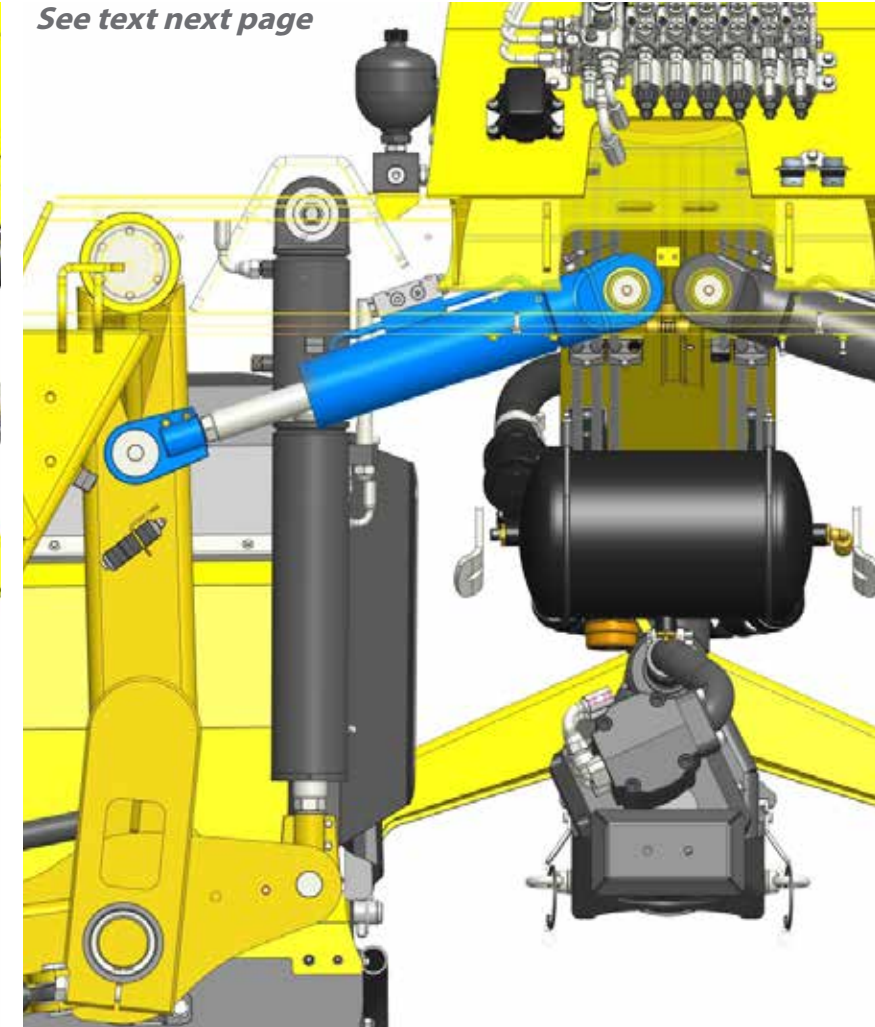
## 9 Hydropneumatic suspension (red and green cylinder)

SUSPENSION SYSTEM FOR : ST 920



## 10 Merging versatility ST 920 (blue cylinder)

See text next page



### Key highlights

- Independent hydropneumatic suspension with 3 cylinders on each pick-up working with oil and nitrogen.

### Main benefits

- ✓ **Ground tracking:** the hydraulic cylinders secure higher adaptability to bumps and hollows.
- ✓ **Adaptability to hills:** the independent suspension system on each pick-up allows the merger to adapt to hills and mountains.
- ✓ **High working speed:** thanks to the sophisticated suspension system, the merger can even exceed 20 km/h (12 mph) depending on field conditions.
- ✓ **Less wear:** the suspension system lightens the load on the wheels under the pick-ups, thus increasing the lifetime of mechanical components.

Watch the Video



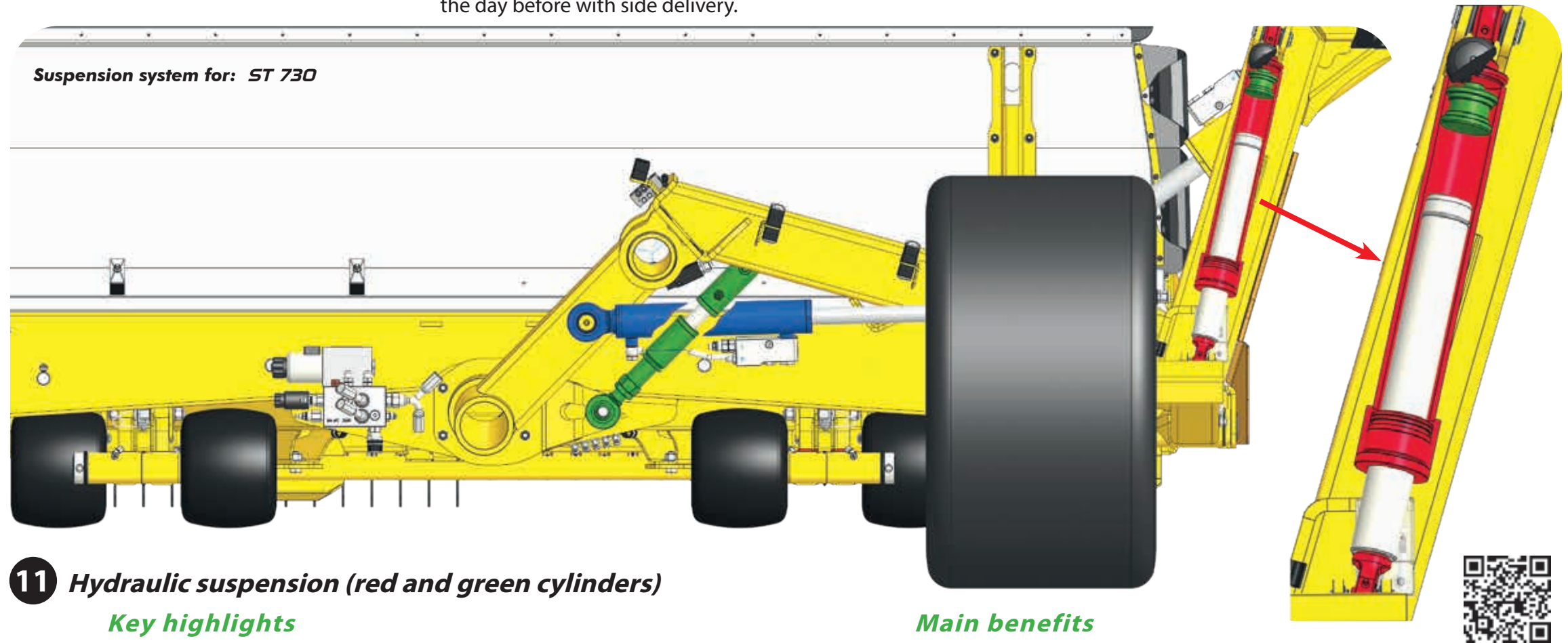
## 10 Merging versatility (blue cylinder)

### Key highlights

- ▶ Variable working width allowing both side and central swath delivery.

- ✓ **High flexibility:** depending on the crop volume and field conditions, the merger offers a wide range of delivery options.
- ✓ **Pre-swathing:** for a quick drying and color preservation, the merger can make one swath in the center and one on the side, joining them the following day. Or, it can join in a single pass 2 swaths of 6m (20') for ST 730 and 7,3m (24') for ST 920 made the day before with side delivery.

### Main benefits



## 11 Hydraulic suspension (red and green cylinders)

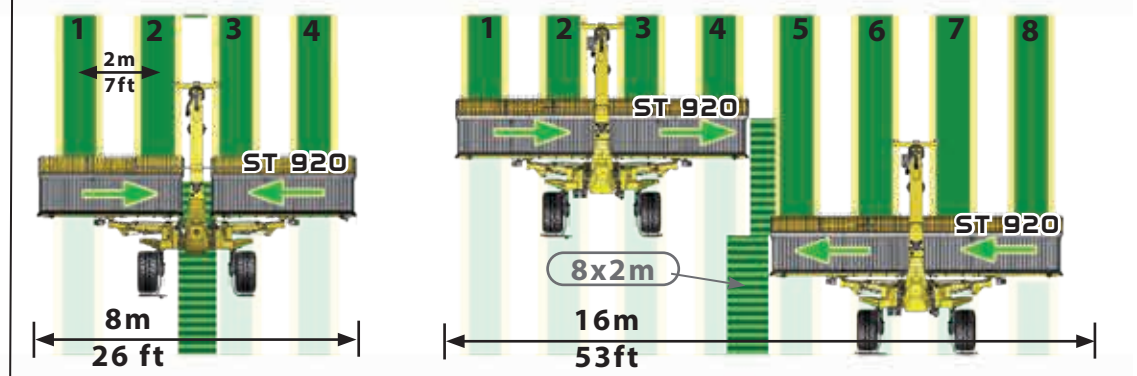
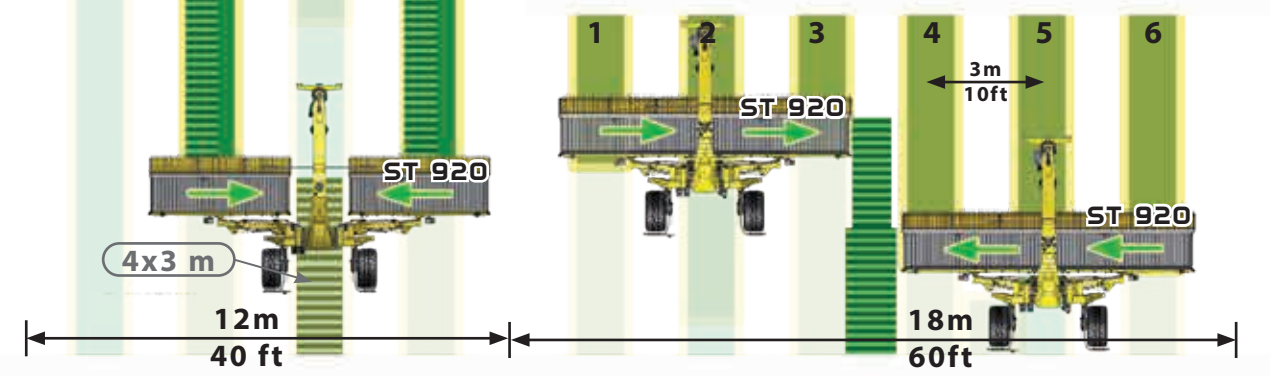
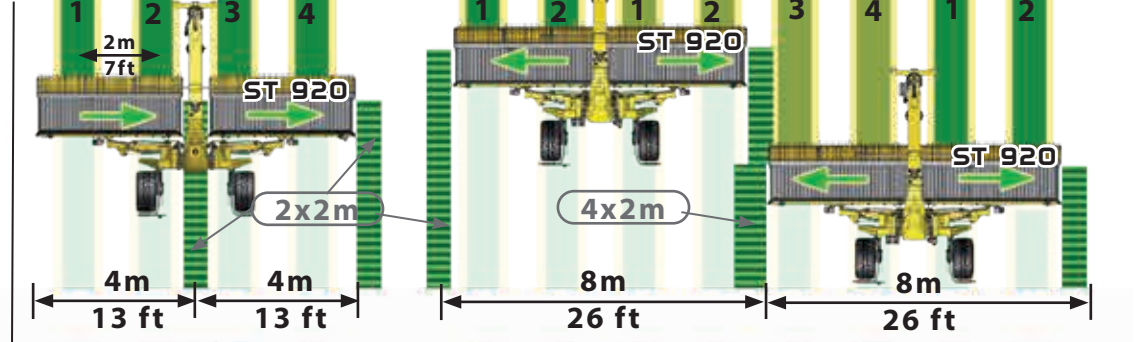
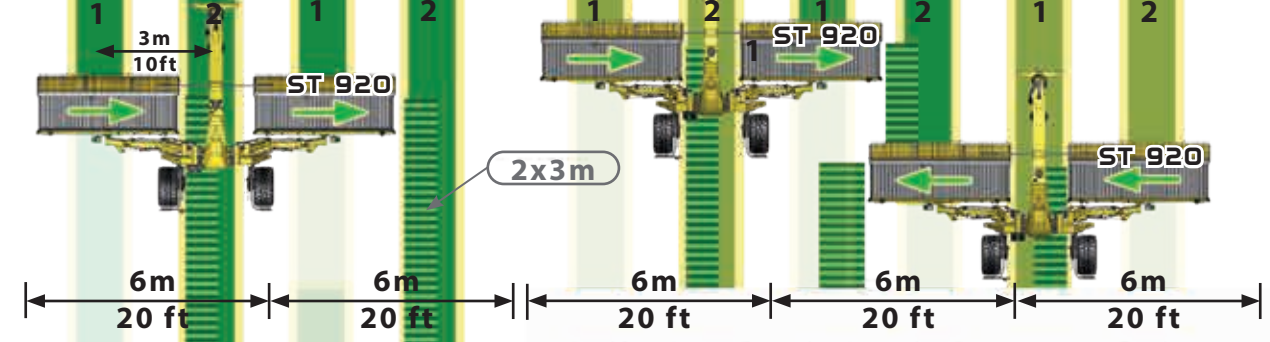
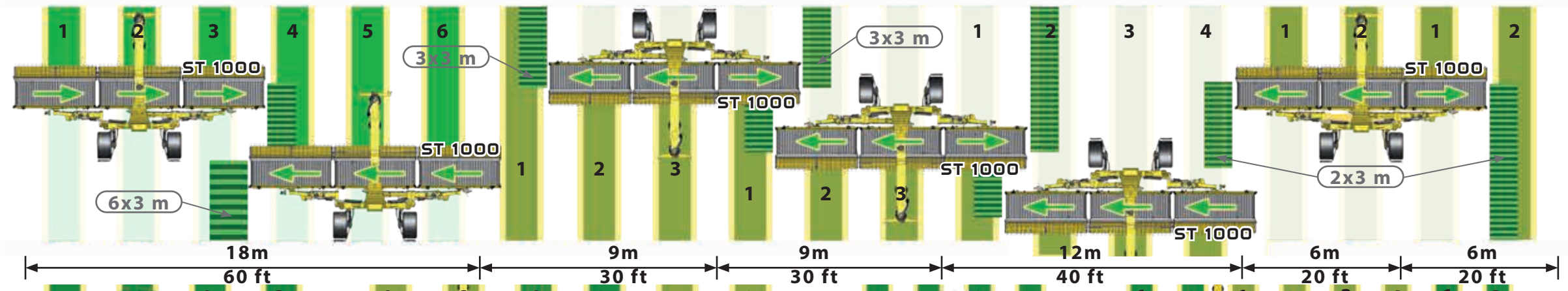
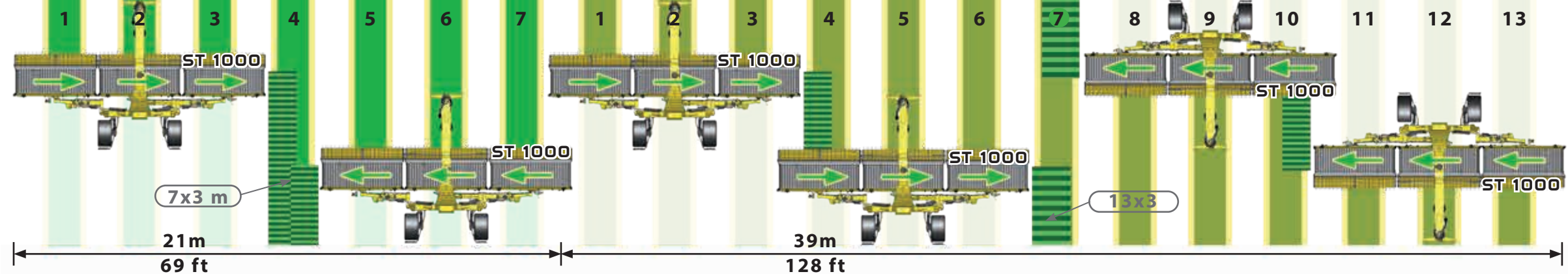
### Key highlights

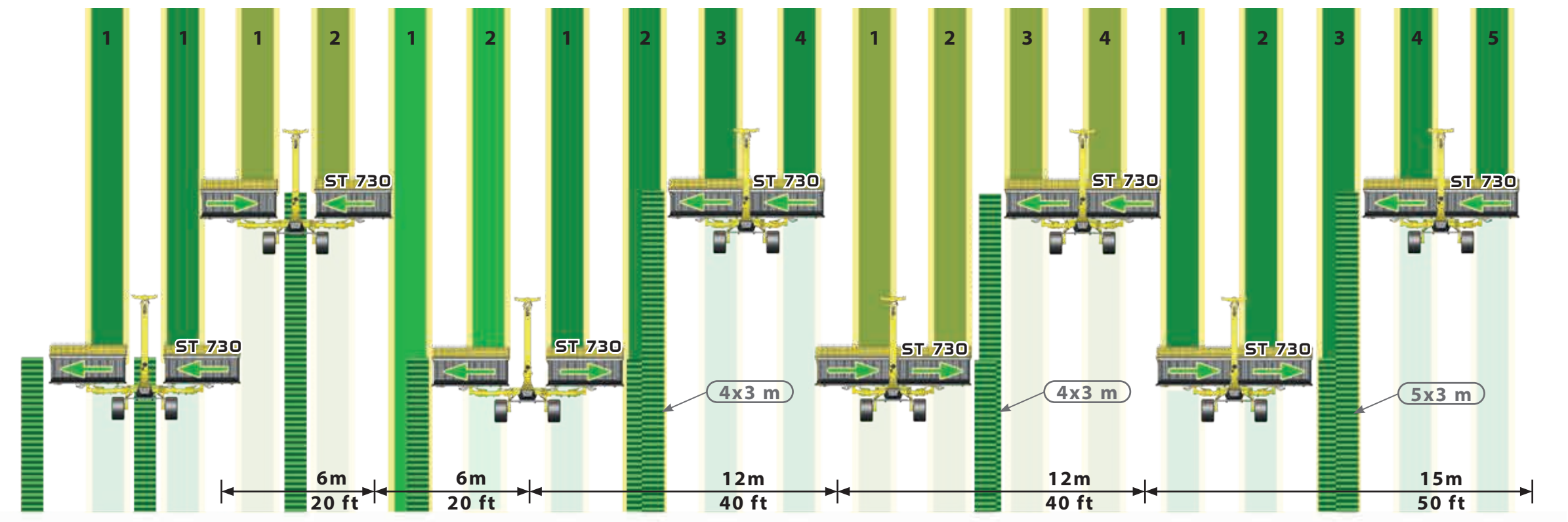
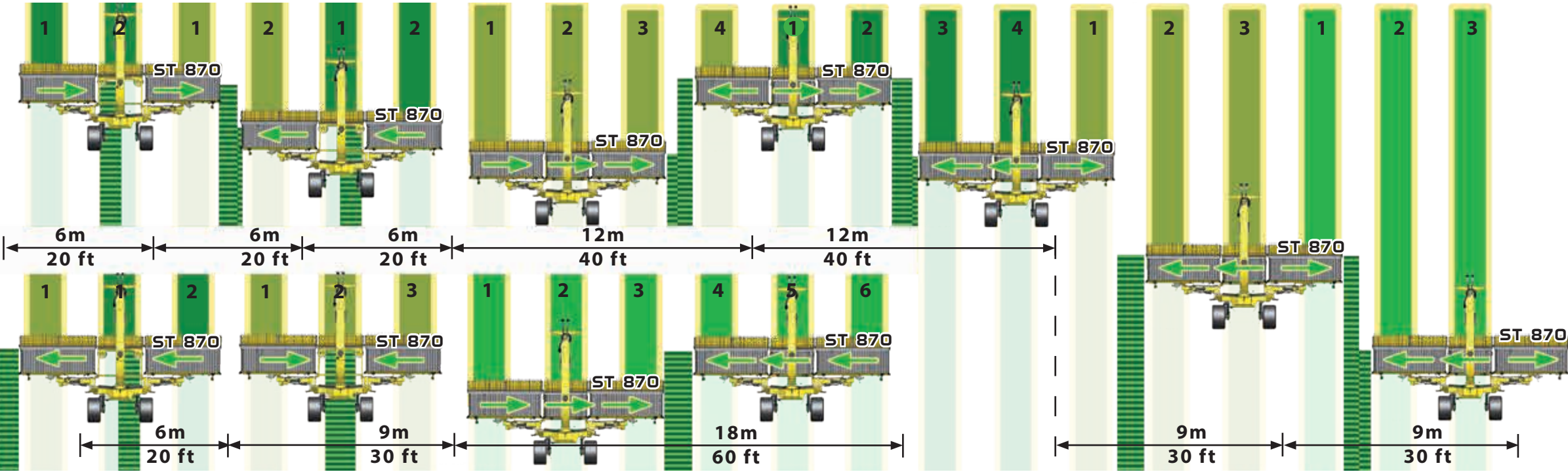
- ▶ Patented independent hydraulic suspension with 3 cylinders on each pick-up, working with the oil flow of the pick-up and the belt.
- ▶ Simple, lightweight and cutting edge suspension system.

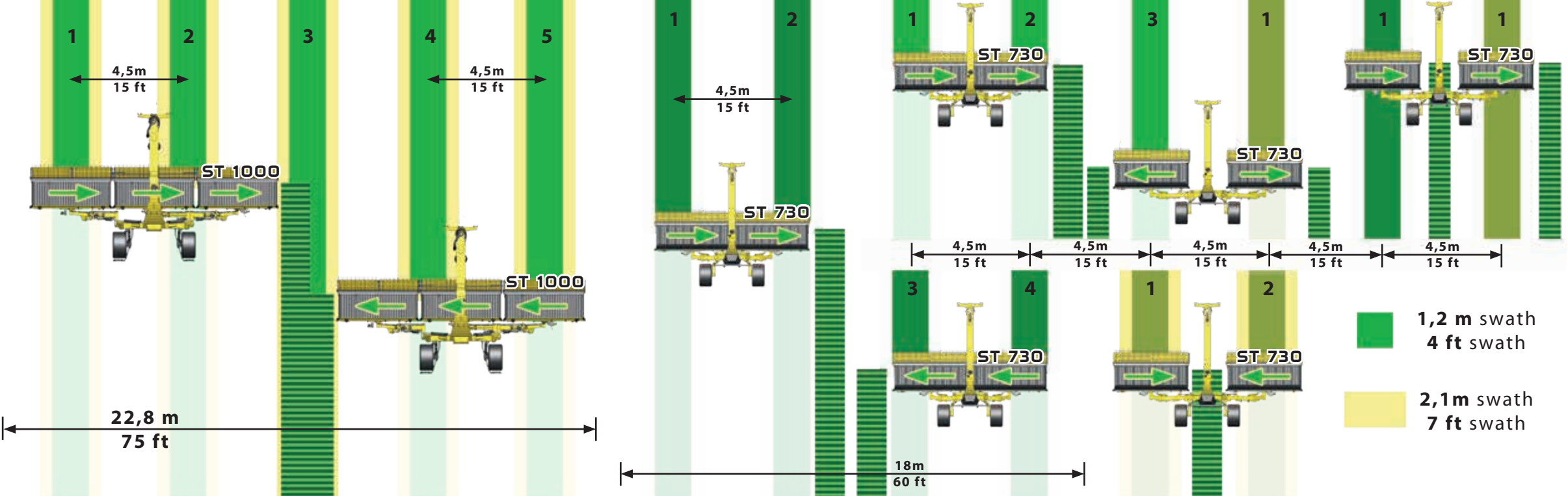
- ✓ **Ground tracking:** the hydraulic cylinders secure higher adaptability to bumps and hollows.
- ✓ **Higher working speed:** thanks to the sophisticated suspension system, the merger can reach a speed of 20 km/h (12 mph), depending on field conditions.
- ✓ **Adaptability to hills:** the independent suspension system on each pick-up allows the merger to adapt to hills and mountains.
- ✓ **Less wear:** the suspension system lightens the load on the wheels under the pick-ups, thus increasing the lifetime of mechanical components.

### Main benefits

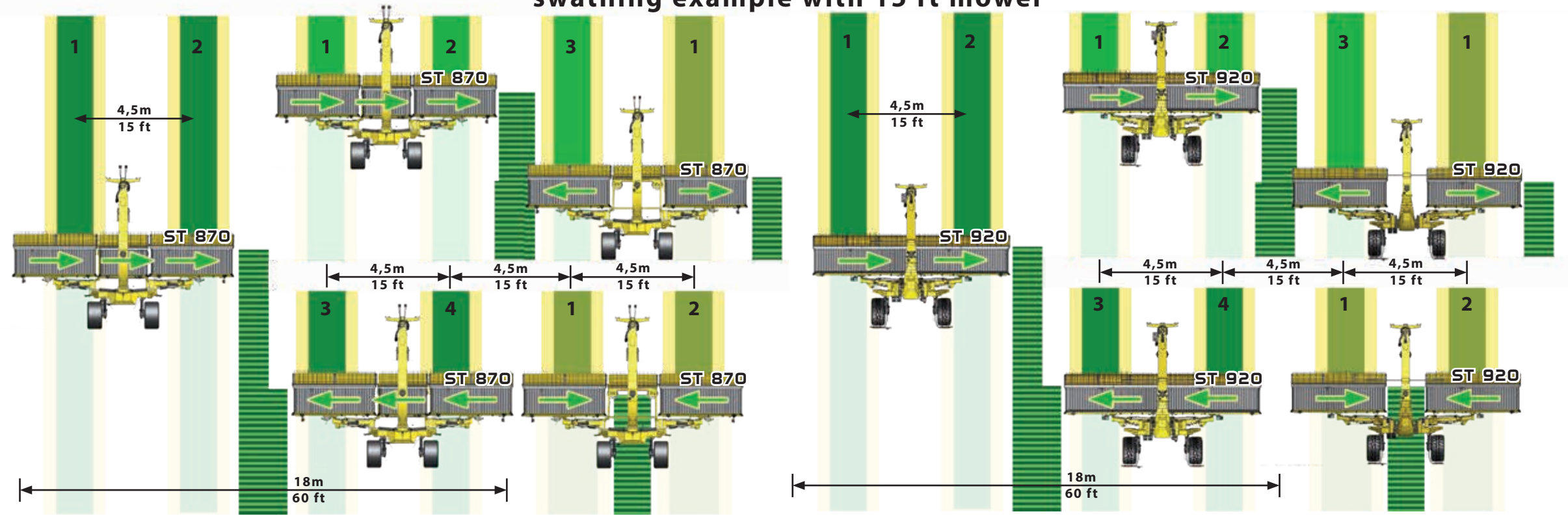


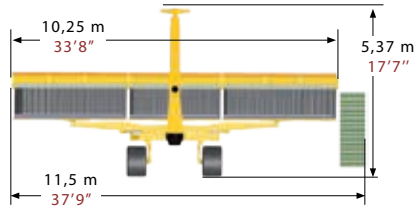
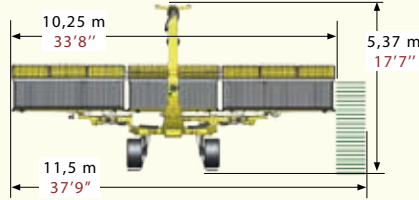
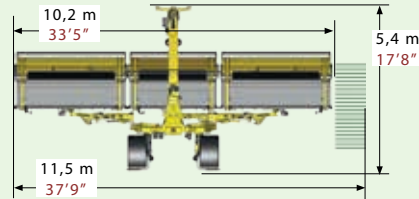
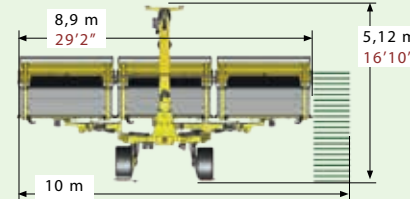
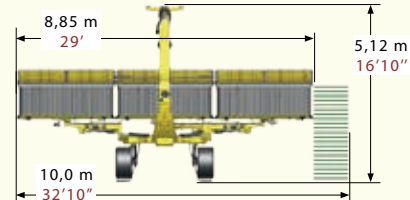
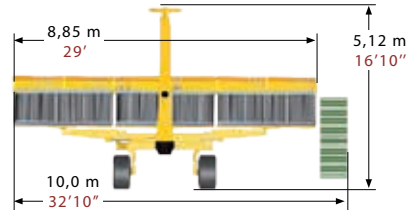
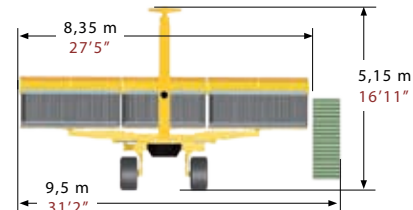
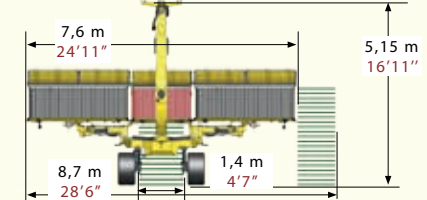
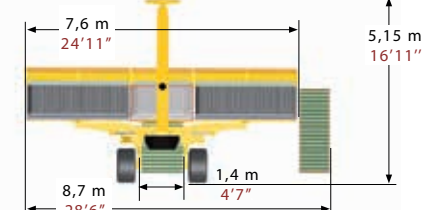
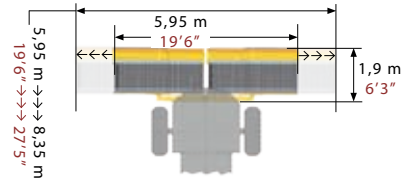
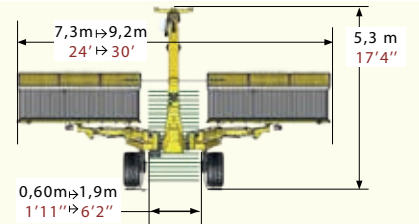
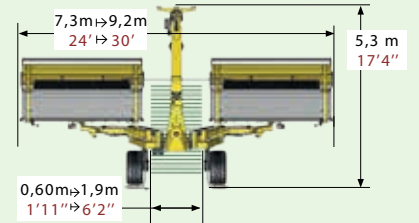
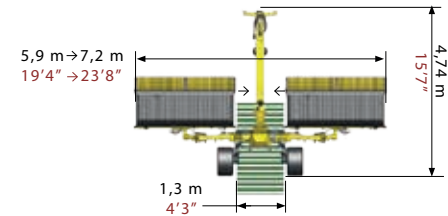
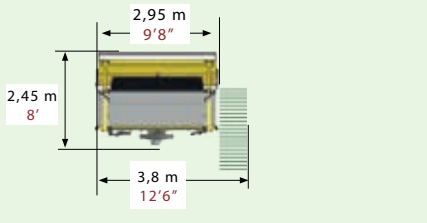
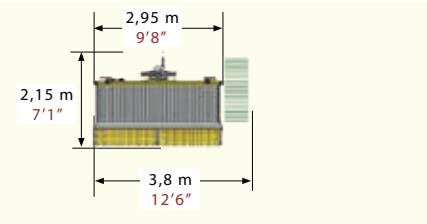
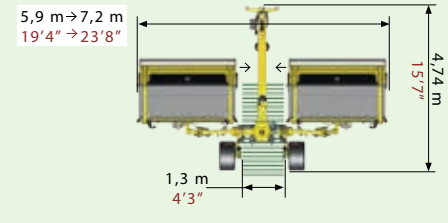
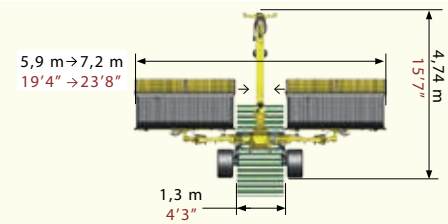




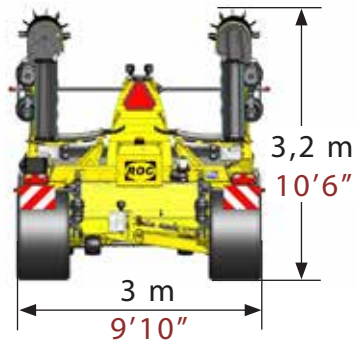
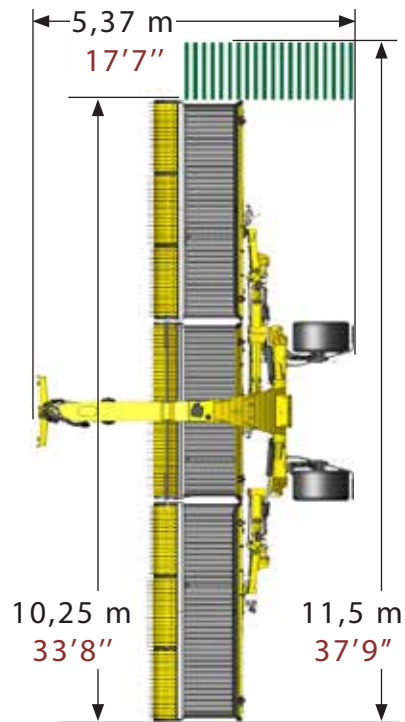


swathing example with 15 ft mower



**1150****RT****ST****RS****1000****950****870****920****RT****840-840 M****ST****RS****730****380**


# ST 1150



 5420 kg  
11949 lb

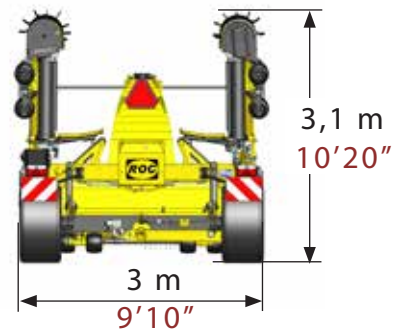
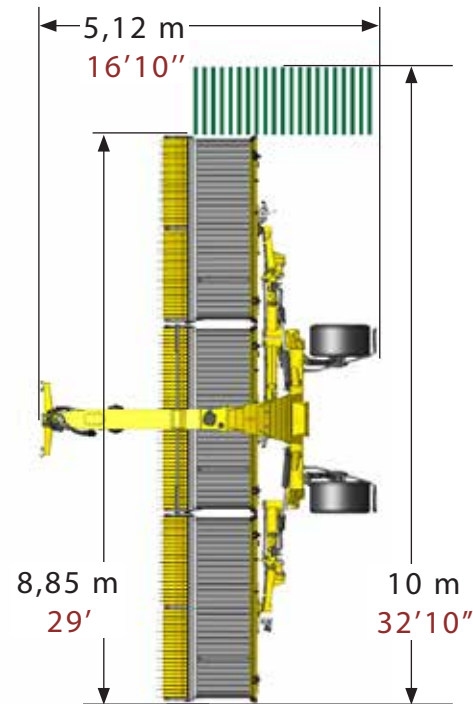
100 hp  
75 kw

min.power

 n.5  
60 l/min 16 gpm

 650/40 R22,5


# ST 1000



 4620 kg  
10185 lb

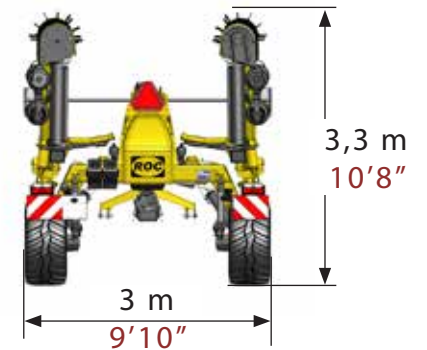
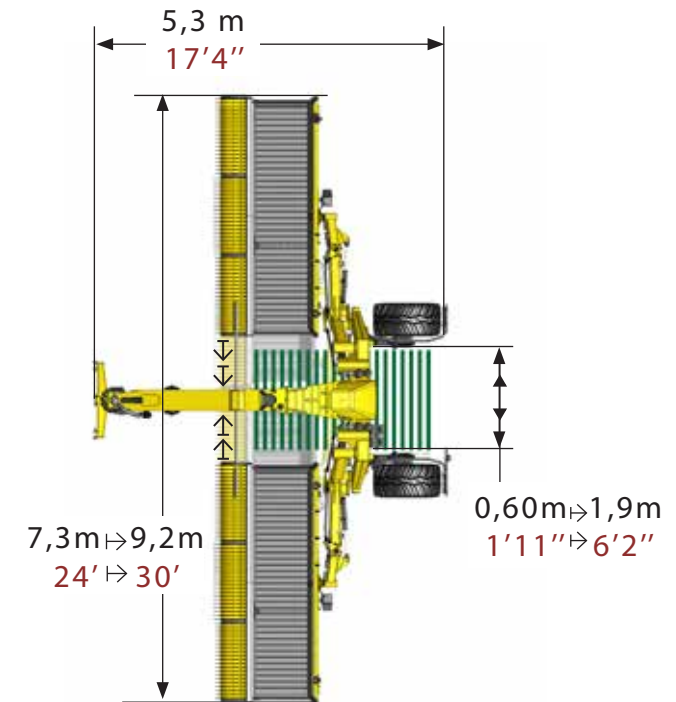
90 hp  
67 kw


min.power

 n.5  
60 l/min 16 gpm

 500/50 R17


# ST 920



 4670 kg  
10295 lb

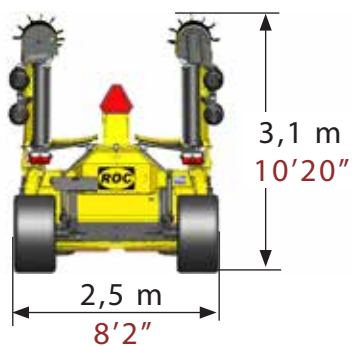
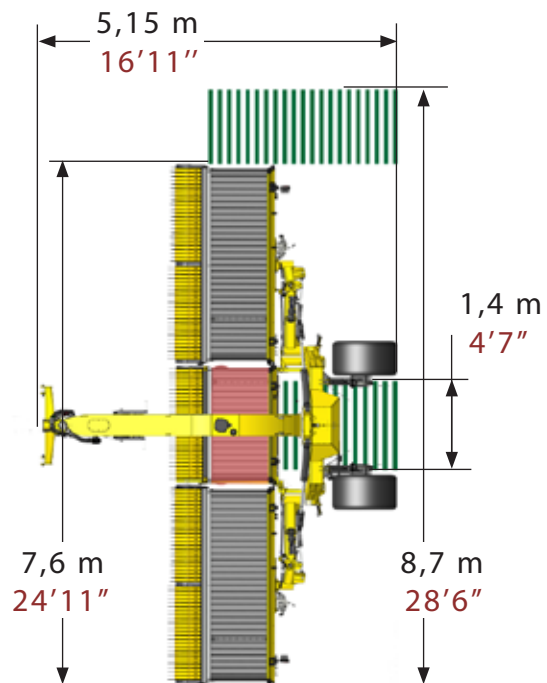
90 hp  
67 kw


min.power

 n.4  
60 l/min 16 gpm


 500/50 R22.5

# ST 870



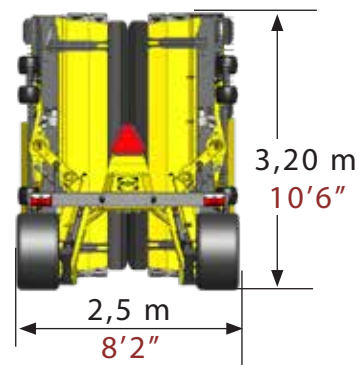
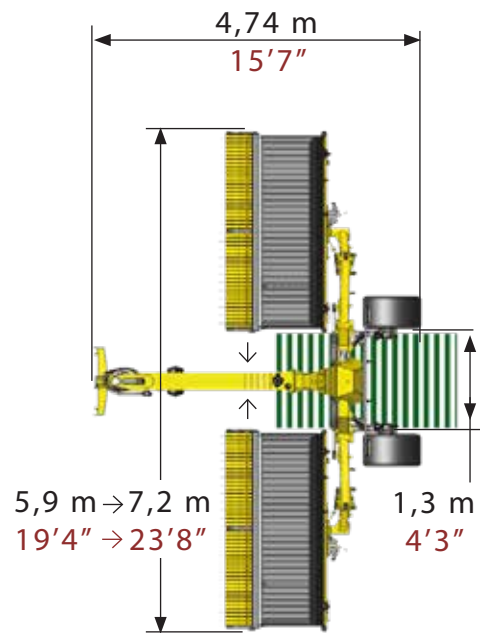
 4190 kg  
9237 lb


80 hp  
60 kw

min.power  n.3  
60 l/min 16 gpm


 500/50 R17

# ST 730



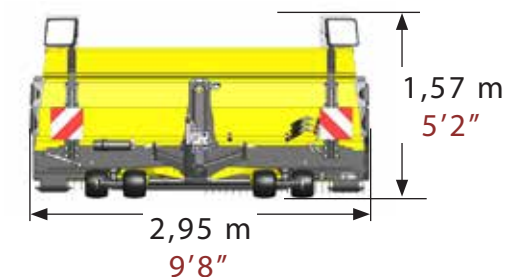
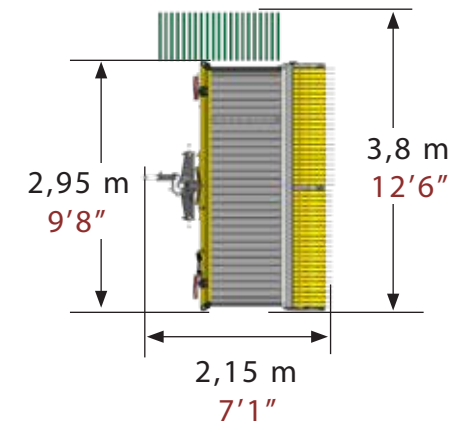
 3120 kg  
6878 lb

70 hp  
52 kw

min.power  n.3  
50 l/min 13 gpm


 480/45 R17

# ST 380



 940 kg  
2072 lb

60 hp  
45 kw

min.power  n.3  
34 l/min 9 gpm

*I dati tecnici nelle raffigurazioni del dépliant sono informativi e non impegnativi.  
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