



TILLAGE IMPLEMENTS

FLEXIPASS
REAR top soilers



UNIPASS[®]
FRONT / REAR top soilers



LAFORGE offers you a full range of FRONT / REAR top soilers

... to match all of your soil conditions.

When you need to regenerate your soil structure or establish a new crop with as few passes as possible, UNIPASS® and FLEXIPASS allow you in one single pass to:

With FLEXIPASS fully mounted unit:

- **Loosening the soil without creating clods with a level surface**, thanks to straight tines and symmetrical wings.
- **Mixing crop residue and soil to create a mulch that speeds up decomposition** with the single, or twin mulch roller.
- **Ensure an accurate depth control** by means of the bar roller. It also creates a good soil-seed contact for improved germination.

With UNIPASS® as part of an implement combination:

- Different hitching systems at the back allow you to use the UNIPASS® in combination with other implements (power harrow – drill combination, chisel plow, disc) to optimise tractive performance in just one pass.

The LAFORGE top soilers range is known for its sturdy construction: 150 mm square tube frame with 10 mm walls, and three hitching heights to adapt to different tractors and with stands to hook and unhook easily.

LAFORGE tines: designed for lasting performance

- **Bolt on design**: allows optimized tine spacing
- **High tensile steel**: 25mm thick
- **Symmetrical wings** for efficient shattering and minimum surface disturbance, even in wet conditions (see profile). Choice of 2 widths (15 and 22,5 cm)
- **Self sharpening points** ensuring good penetration and good life
- **Easily interchangeable points** with elastic pin bolts for reduced down time
- **Reversible lower shin** for increased life
- **Shearing bolt** mounted with heat treated bushing for improved reliability
- **Return stop** on tines bracket, prevents tines from interfering with tractors tyres when cap screw is sheared.
- **Optional**: carbide beads on cutting edges of points and wings for extended life (3 to 5 fold).



Soil profile created with FLEXIPASS equipped with single mulcher in just one pass

- **Soil loosening all across working width**
- **No soil cavity** thanks to the quality of soil loosening
- **No mixing of soil layers**
- **Top mulch**
- **Level surface**

Hydraulic auto reset system

... available on the whole FLEXIPASS and UNIPASS® range

LAFORGE's **hydraulic auto reset safety innovations** are applied to top soilers. The design not only lets the tine retract vertically, which is controlled by a hydraulic cylinder, but the shank can also swivel from side to side thanks to being mounted on a pivoting bracket. This design is derived from experience with the front mounted UNIPASS®.

Exclusive advantages

The unique mounting of the tines on a swivel bracket allows them to go around obstacles that are not square in front of the tine.

This results in:

- Reduction in power requirement
- Reduced amount of stones brought to the surface
- Improved protection of the tines
- Significant improvement in reliability of the hinges

High-performance auto reset mechanism

- More than 400 mm of vertical clearance
- Geometry designed to avoid banging
- Smooth movement through the entire cycle

Easy to use

- Quick adjustment of the resistance at the point (600 to 1200 Kg)
- Optimum integration of the safety system
- Compact mechanism

Capability for implement combinations is preserved

- The compact design allows for the combining of FLEXIPASS (single bar) and UNIPASS® with a soil preparation and seeding implement.



UNIPASS® (front frame) auto reset



UNIPASS® (back frame) auto reset



FLEXIPASS twin-bar 3m auto reset (with roller + twin mulching unit)

These articulated LAFORGE auto reset tines can be used on the entire range of top soilers: front/rear UNIPASS® system, single bar FLEXIPASS and twin bar FLEXIPASS.

SINGLE BAR FLEXIPASS



Single bar FLEXIPASS (with roller + double mulch)



Single bar FLEXIPASS (with 22,5 cm wings)

🔗 This version can be combined with other rear implements. The square single bar frame of 150 mm has an opening to accommodate PTO shaft for powered implements.

• Versions:

- in 3 m: 4 tines (22,5 cm wings) or 6 tines (15 cm wings)
- in 4 m: 6 tines (22,5 cm wings) or 8 tines (15 cm wings)

• Configurations:

- with roller Ø 450 standard or Ø 600 in option
- with single mulch + roller
- with double mulch + roller



• Multi purpose frame, possible to combine with:

- A rear 3 point hitch for power harrow which folds when lifted to increase the hitch lift capacity
- A rear 3 point hitch with geometry similar to a tractor hitch to ensure stability with high draft implements like a chisel plow
- Clevis for trailed implement

TWIN BAR FLEXIPASS



Twin bar FLEXIPASS (with roller + double mulch)

🔗 This version offers a large clearance between shanks to cope with high levels of crop residue.

• Versions:

- in 3 m : 5 tines
- in 4 m : 7 tines (by extensions)

• Configurations:

- with roller Ø 450 standard or Ø 600 in option
- with single mulch + roller
- with double mulch + roller

Roller

Ø 450 mm standard
or Ø 600 mm in option

- Sturdy construction with rotation shaft on each end welded on two flanges
- Implement control by infinite working depth adjustment by two Cat. 3 turn buckle
- Surface consolidation, improving soils to residues contact for quicker weed germination



Roller

Single mulch + roller

Single set of mulching discs Ø 490 mm
+ roller

- Ensures mixing of top soil and residues using a row of wavy discs
- The roller **controls tines working depth** and ensures surface consolidation.
- Cross bar ensures frame stiffness
- **Cover-crop type mounting**: cast coils and large sized bearings
- **Scraper** in standard specifications
- **Adjustable stands** for easy hitching to tractor



Simple mulch + roller

Double mulch + roller

Two sets of mulching discs Ø 490 mm
+ roller

- Same function as above but **more intensive mulching effect** with 2 rows of self cleaning wavy discs.
- Adjustable **parallelogram twin mulch frame** design ensures optimum efficiency of each mulching row, regardless of tine working depth and mulching aggressiveness.



Double mulch + roller

FRONT / REAR solution: UNIPASS®



UNIPASS® auto reset with front frame (7 tines) and rear frame (2 tines)

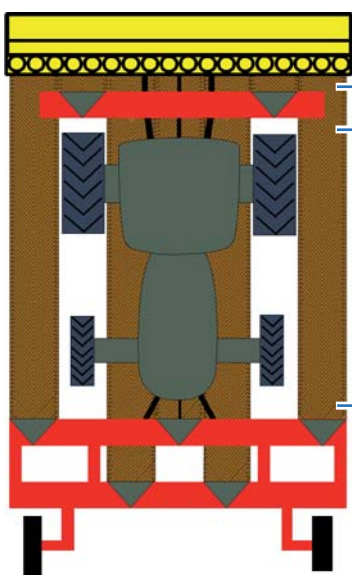
↳ Thanks to the unique front and rear distribution UNIPASS® is the only system allowing:

- Optimal dynamic weight distribution of the tractor.
- A heavy equipment combination with great inter-tine clearance.
- Installation of disc coulters to cut cleanly through residues while keeping the rear end unit close to the tractor.
- Easy folding to 3m width to simplify road travel (4 or 4.5m versions).



UNIPASS® - FRONT frame

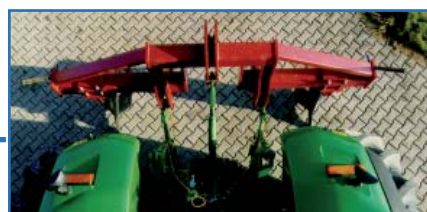
- Front tines swivel on lubricated bushings to allow easy steering.
- Large front gauge wheels ensure perfect depth control.
- Complete kits:
 - 3.0 to 4.5m width
 - Larger versions on request (see picture above)



• The soil is worked evenly across the entire width of the implement.

- Tractor's wheels tracks are eliminated.
- Tractor's wheels grip on firm soil for optimised traction.
- Large inter-tine clearance: no plugging.

• Perfect dynamic front/rear weight distribution



UNIPASS® - REAR frame



UNIPASS® - FRONT frame

A unique choice of flexible combinations

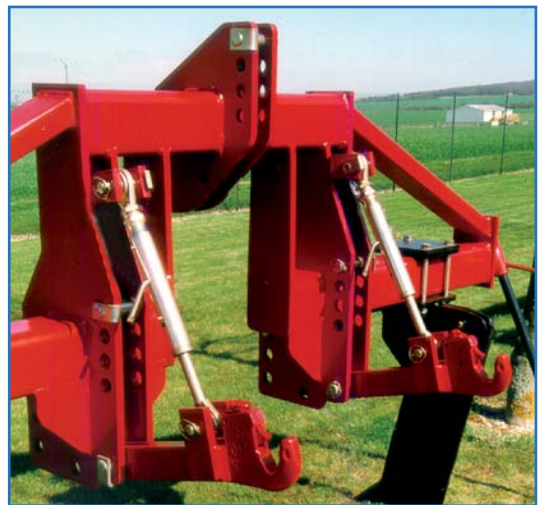
↻ Rear 3-point linkage type "power harrow"

It pulls the implement closer when lifting to reduce the required lift capacity. Extends in working position for greater clearance between the implements..



↻ Rear link type "3 point hitch"

It ensures stability with geometry similar to a tractor hitch with high draft implements, even at high speed.



↻ Clevis rear link

In combination with other trailed implements.



↻ Hinged disc coulters

They cut cleanly through residues: potato tops, corn stalks...



Technical data

SINGLE BAR FLEXIPASS

Working width	3 m / 120 HP and above		4 m / 160 HP and above	
Number of tines	4	6	6	8
Weight (with shear bolt safety system)	934 Kg (2059 lbs)	1 124 Kg (2478 lbs)	1 170 Kg (2579 lbs)	1 396 Kg (3078 lbs)
Weight (with auto reset safety system)	1 250 Kg (2756 lbs)	1 580 Kg (3483 lbs)	1 630 Kg (3593 lbs)	1 960 Kg (4321 lbs)
Options	Rollers / Rear linkages / Tow hook			

TWIN BAR FLEXIPASS

Working width	3 m / 120 HP and above		4 m / 160 HP and above	
Number of tines	5		7	
Weight (with shear bolt safety system)	1 094 Kg (2412 lbs)		1 330 Kg (2932 lbs)	
Weight (with auto reset safety system)	1 480 Kg (3263 lbs)		1 860 Kg (4101 lbs)	
Options	Rollers / Rear linkages			

ROLLERS (option for FLEXIPASS)

Working width	3 m		4 m	
Roller Ø 450 mm	352 Kg (776 lbs)		403 Kg (888 lbs)	
Roller Ø 600 mm	440 Kg (970 lbs)		510 Kg (1124 lbs)	
Single mulching unit Ø 490 mm + roller Ø 450 mm	960 Kg (2116 lbs)		1 166 Kg (2571 lbs)	
Twin mulching unit Ø 490 mm + roller Ø 450 mm	1 250 Kg (2756 lbs)		1 456 Kg (3210 lbs)	

UNIPASS®

Working width	3 m / 120 HP and above		4 m or 4 m 50 / HP and above	
Number of tines	FRONT: 3 / REAR: 2		FRONT: 5 / REAR: 2	
Weight (with shear bolt safety system)	FRONT: 1 210 Kg (2668 lbs) REAR: 650 Kg (1433 lbs)		FRONT: 1 550 Kg (3417 lbs) REAR: 650 Kg (1433 lbs)	
Weight (with auto reset safety system)	FRONT: 1 455 Kg (3208 lbs) REAR: 825 Kg (1819 lbs)		FRONT: 1 935 Kg (4266 lbs) REAR: 825 Kg (1819 lbs)	
Options	Tow hook / Coulters / Rollers (contact us)			

About LAFORGE

LAFORGE – the expert in tractor-implement interaction – has been developing the most complete range of front hitches, front PTO, and automatic controls for almost 30 years, as a competitive and reliable response to market demands.

LAFORGE is also the name of a line of front and rear mounted implements (ripper, dozer blade, FLEXIMASS ballasting system) designed especially to optimize the use and performance of the tractor, thanks to our unique expertise in tractor-implement interaction.



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