

# SUBSOILERS



ORIGINAL PHOTOGRAPH

# SUBSOILERS: INNOVATION MADE PERFECT

## OUR HISTORY

VITTORIO PEGORARO

In the years immediately after the First World War, Vittorio Pegoraro drew on his in-depth knowledge of farmers' needs to build his first agricultural machinery with intelligent, innovative solutions.

Initially, everything was designed and built by hand in the small workshop next door to his home, but thanks to his excellent ideas and high construction quality, very popular with the clientele, Vittorio soon became well known in the agricultural mechanisation sector.

In the '70s, the first prototype subsoilers began to appear on the Italian market. Signifying an improvement in farming methods and economic returns, subsoiling soon attracted farmers' interest.

Grasping the subsoiler's importance at once, with the aid of his sons Vittorio started in-depth research to optimise it, and offered the market the first subsoiler with bolted modular frame. This lightweight but very rugged machine had a crucial new feature: the shear bolt.



This solution, essential to prevent the problem of shank failure in heavy-duty situations, is still used by most constructors today.

These subsoilers were quickly successful throughout Europe, and Vittorio and his sons, constantly working to support farmers, came up with another innovation: franter rollers. Initially introduced to support the subsoiler, the two rollers at the rear perform crucial initial surface tillage, for optimal soil levelling. The effective job they do also reduces the amount of subsequent tillage required, and is a major aid in burying crop residues.

Nowadays, the features introduced to subsoilers by Vittorio Pegoraro are viewed as essential and are used the world over to ensure optimal results.



# WE DEVELOPED A COMPLETE SYSTEM, BECAUSE HAVING THE BEST STEEL ISN'T ENOUGH FOR US.

The "ALPEGO INSIDE" label, seen on all our machines, certifies the **exceptional quality** of Alpego products. A perfect combination of **top quality raw materials**, a **sustainable painting process** and **certified welding**; all to guarantee **exceptional lifetime and lasting quality**.

### HIGH STRENGTH STEEL

All Alpego machines use **the best steel to reduce the weight and increase performance**, fully optimising both consumption and running costs. This also has a huge impact on environmental sustainability.

### CERTIFIED WELDING

The outstanding useful life of Alpego structural components has been guaranteed for over twenty years by effective **welding according to standardised processes certified by the Italian Institute of Welding**.

### ECO PAINTING

In Europe, this unique system allows **every component to be painted according to the most suitable process, while protecting the environment**. Our water-based and powder paints **produce no VOC** (volatile organic compounds) emissions.

# Benefits of subsoiling

Subsoiling cuts costs compared to conventional tillage



Alpego subsoilers perform various farming functions, with multiple benefits.

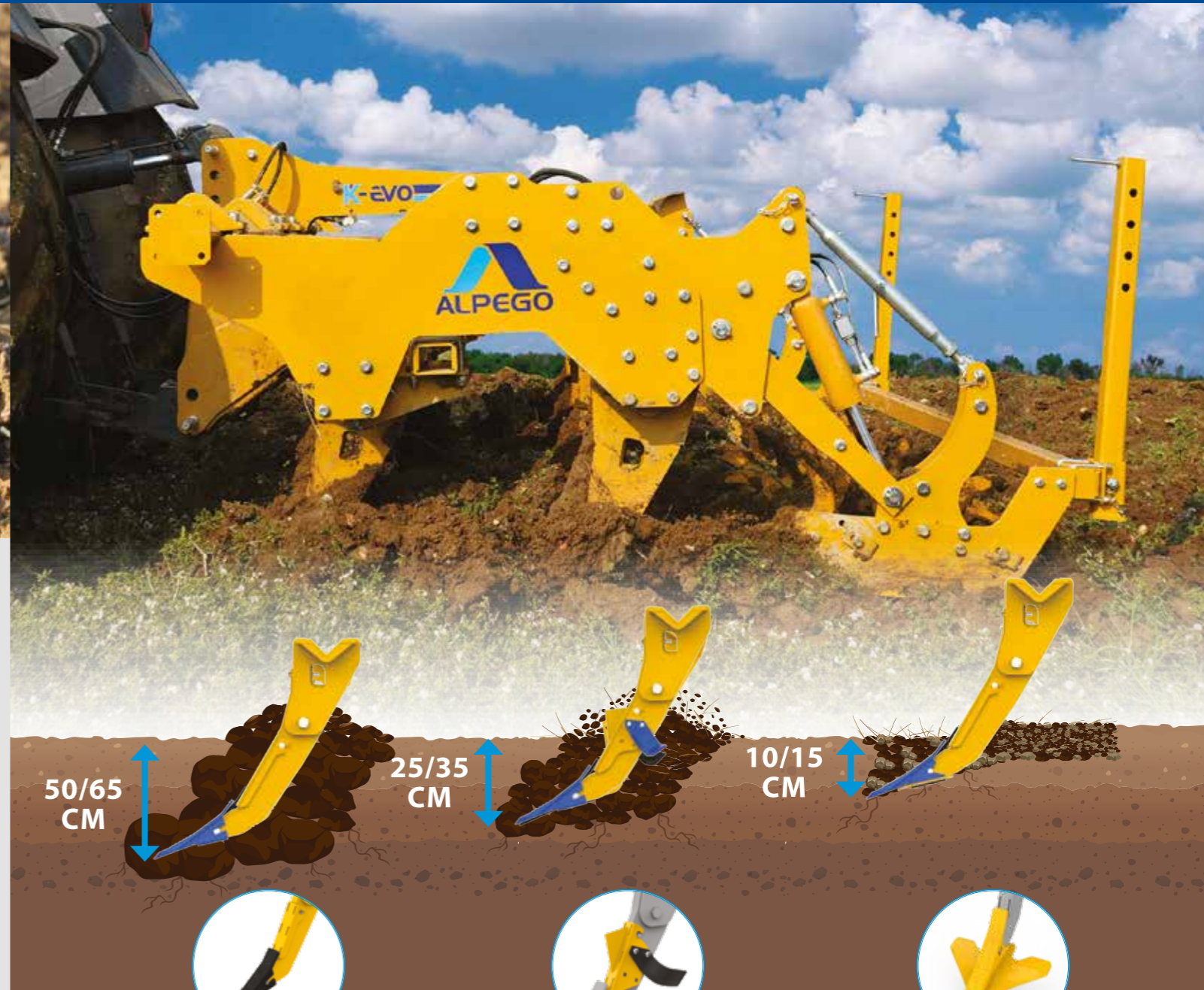
Mattia Trevini  
Agronomist



# Why choose Alpego subsoilers?

Three solutions, one machine

The Alpego range of subsoilers was the first to introduce a wide range of tools for different types of tillage. This versatility enables the use of various cultivation techniques.

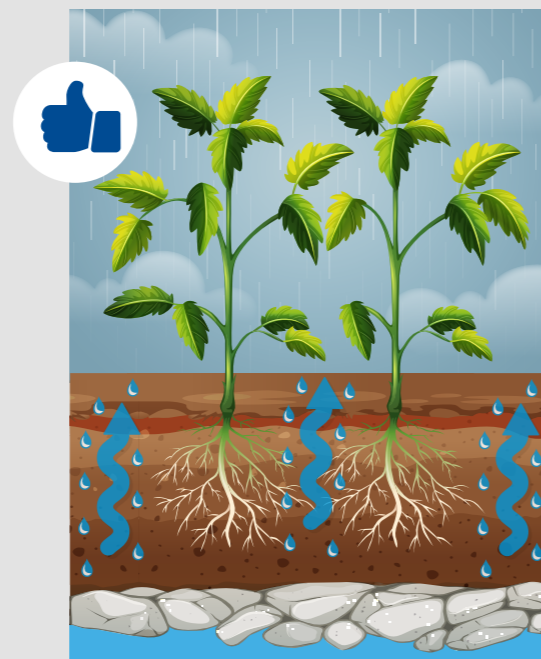


## CONVENTIONAL TILLAGE



All conventional tillage methods require longer working times and high fuel consumption and have drawbacks in agronomic terms: limited water drainage, reduction in capillarity, loss of yield and thus lower earnings.

## ALPEGO SUBSOILERS



Subsoiling is a tillage technique that requires shorter working times, and therefore saves fuel. In agronomic terms, subsoiling improves water drainage, enhances capillarity, and provides multiple benefits to crops with higher yields, meaning higher earnings.

### CRAKER SHANK

The curved shank penetrates the ground gradually, reducing the draft force required, and improves mixing of the soil both in depth and on the surface, by overturning the clods.

### CLOD-SHATTERING FINS

Accessory designed by Alpego with adjustable side fins to enable better crumbling and turnover of the topsoil. They also effectively cut the root systems of weeds or crop residues.

### DEK PLOUGHSHARE

Dek ploughshares are designed to provide surface tillage even with crop residues present. Their conformation ensures effective tillage across the entire width of the machine and is ideal for depths of up to 15 cm.

# A complete range for every need

The right subsoiler for every situation



The Alpego range of subsoilers benefits from high quality standards that guarantee outstanding performances and reliability even in the heaviest duty and teamed with high-power tractors. Constructed entirely from high strength steels, available with widths up to 5 metres and equipped with various solutions and accessories, they are able to meet all farmers' different needs.



Alpego subsoilers are designed for high speed operation, in what is known as "Velocitilling". The many benefits include shorter working times, impressive fuel savings and a high quality job.

## CRAKER K-DYNO

Fixed mechanical subsoiler  
HP 50-130  
Page 16



## CRAKER K-EVO

Fixed mechanical subsoiler  
HP 120-220  
Page 17



## MEGA CRAKER KX

Folding mechanical subsoiler  
HP 250-500  
Pages 22-23



## CRAKER K-FORCE

Fixed mechanical subsoiler  
HP 150-350  
Page 18



## SKAT S1

Hydro-pneumatic subsoiler  
HP 120-250  
Page 28



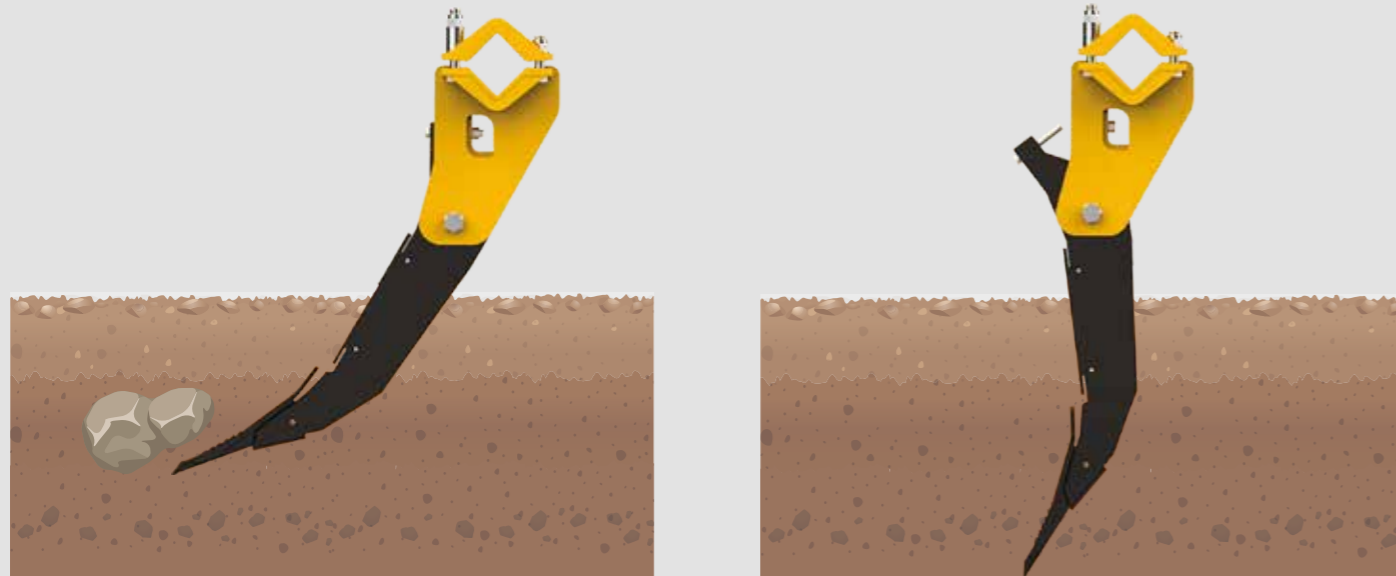
## SKAT S2

Hydro-pneumatic subsoiler  
HP 200-400  
Page 29



# CRAKER technical characteristics

Details that make the difference



## MECHANICAL SHEAR BOLT IN DRAFT

Safety solution introduced by Alpego, a mechanical safety shear bolt fitted on every shank; if the shank hits an obstacle, the bolt shears, protecting the machine structure.



## BOLTED FRAME

High performance all-bolted frame. New side plate design for faster roller mounting. The high strength steel used provides the optimal trade-off between light weight and resistance. Standard on models: K-DYNO / K-EVO / K-FORCE



## SHANK MOUNTING

Clamps are diagonally fitted to reduce stresses on bolts, minimising the number of bolt failures. Standard on models: K-DYNO / K-EVO / K-FORCE / KX.

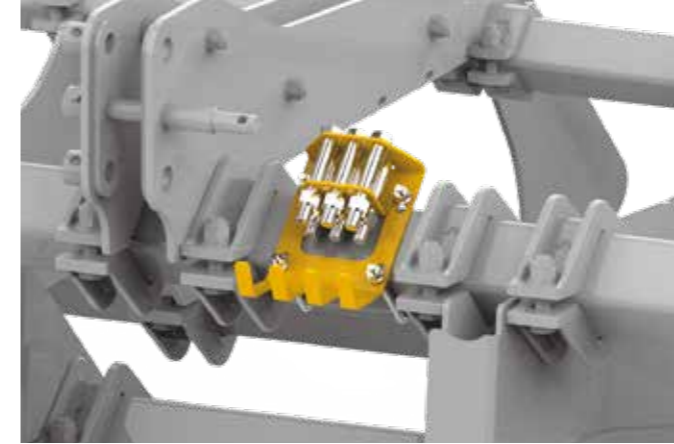


## CLAMP SHOCK ABSORBER SYSTEM

The combination of a spacer with a longer screw helps to increase and exploit all the elasticity, reducing the risk of failure. Standard on models: K-EVO / K-FORCE / KX.

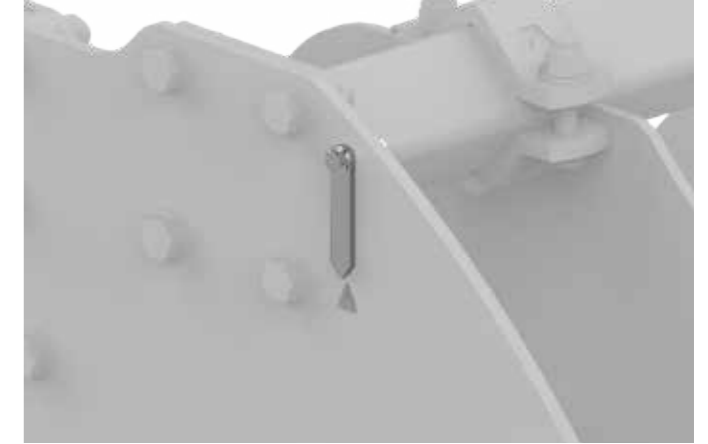
# New technical features

Technique and design for the new models



## NEW BOLT HOLDER

New spare bolt holder integrated in frame. (STANDARD)



## ANGLE GAUGE

New angle gauge integrated in frame. Its internal and external positioning ensures visibility from the ground and from the driving seat. (STANDARD)



## DEPTH GAUGE

New roller depth gauge clearly visible from the tractor driving seat. Available as standard on all hydraulically adjusted Franter rollers and on the modular parallelogram kit. (STANDARD)



## NEW TELESCOPIC CLOD-RESTRICTING SIDE BOARDS

New hydraulically controlled clod-restricting telescopic side boards, designed to make transport easier, width-adjustable and easily disabled when not required, for simple jobs with no problems for operator safety. (OPTIONAL)

# ALFAST

## Alpego Fast System



## Interchangeability

Quick, easy accessory changes

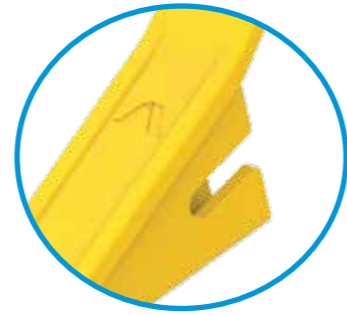
Alpego has always offered different accessories for different technical and farming solutions. With the ALFAST system, machines can be customised for all working conditions in just a few minutes, by replacing the standard ploughshare or shank guard with other accessories.

LOCKED

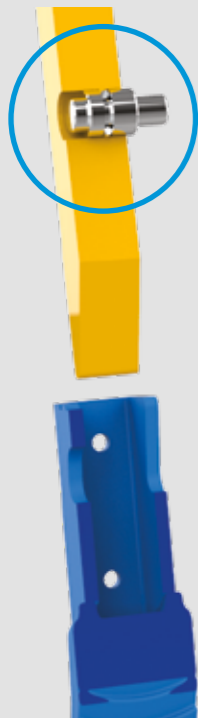


**New reinforced shanks and ploughshares with exclusive ALFAST system**

Alpego introduces an innovative ultra-fast ploughshare and accessory replacement system. With ALFAST, all you need is a hammer. No need to remove pins or screws. The patented system consists of a clip which moves to free or lock the accessory on the shank.



RELEASED



RELEASE



LOCK



WHAT YOU NEED:



x 1



15"

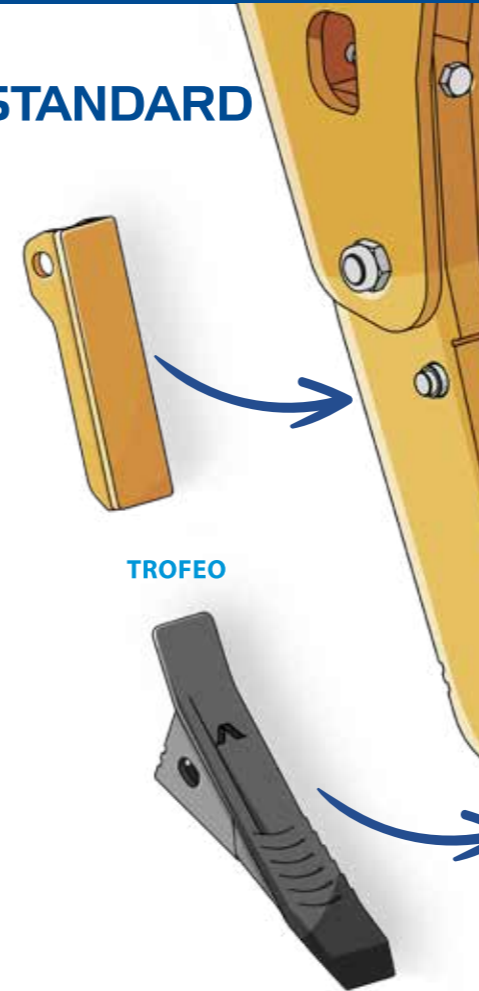


x 1

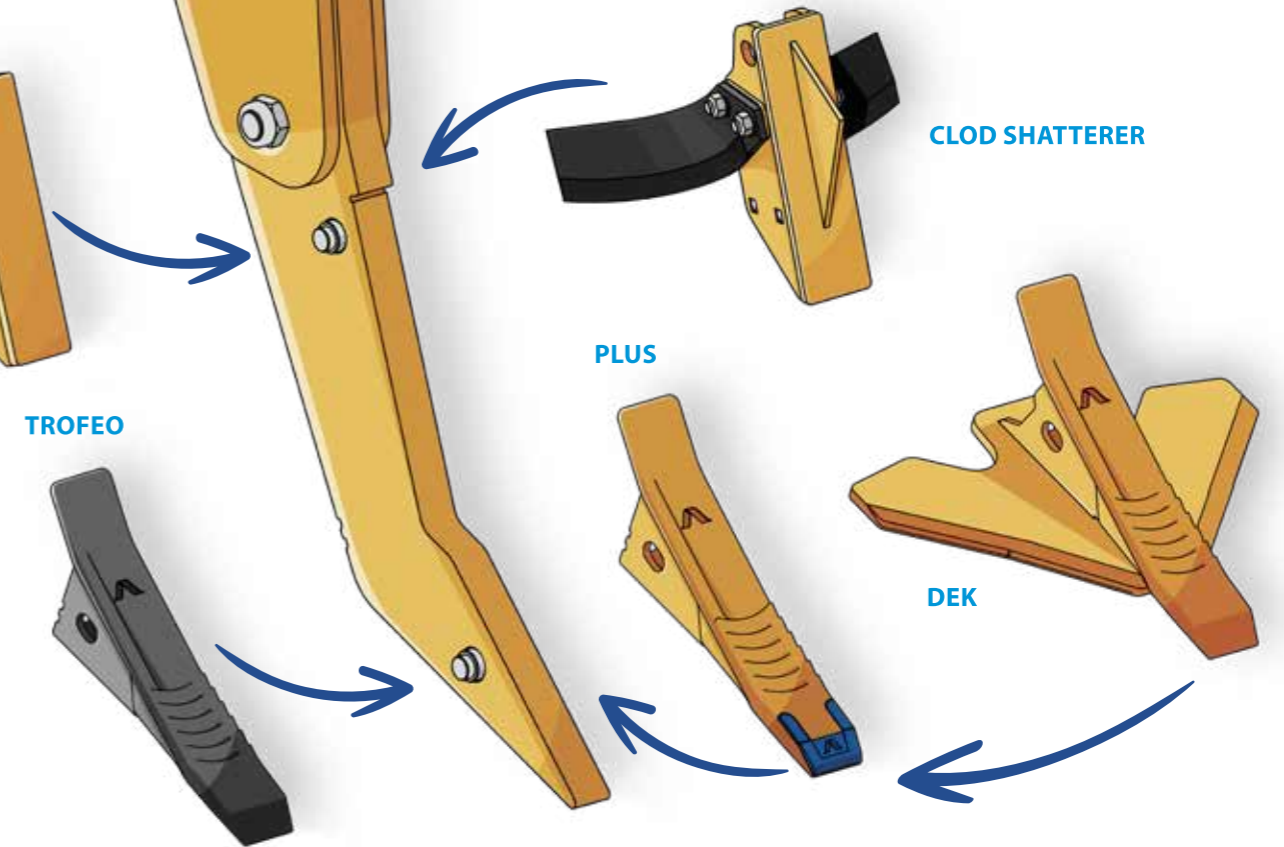


NO

STANDARD



OPTIONAL



**The advantages of the new ALFAST DEK system**

The new DEK system consists of the specific TROFEO DEK ploughshare coupled to the DEK fin. The coupled or single use of the two elements allows the operator to change operations in real time. The advantage of this modular system is that the two elements can be reset separately.



# Franter Rollers

Essential for cutting subsequent tillage needs

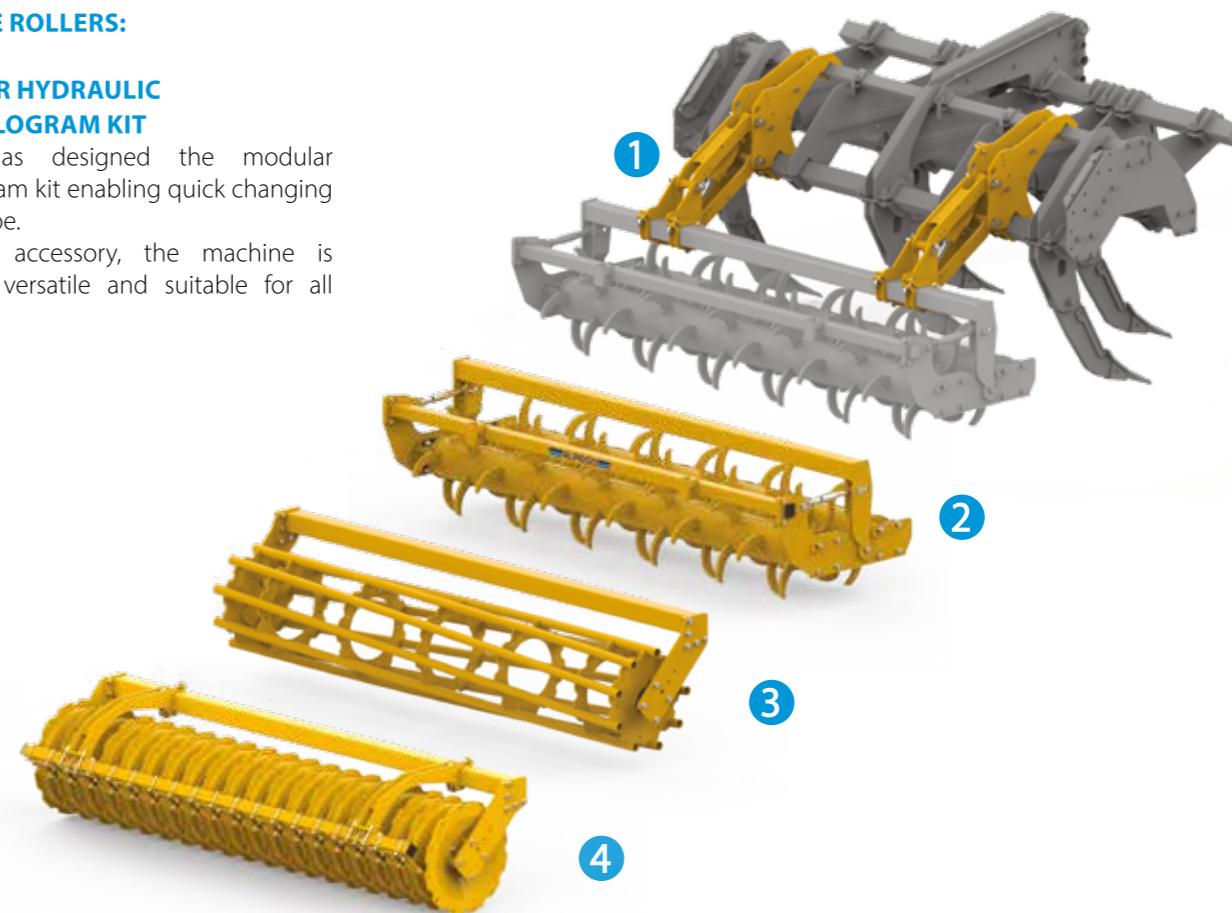
Franter rollers, conceived and introduced onto the market by Alpego, provide crucial initial surface tillage, for optimal soil levelling. The combined work of the two toothed rollers reduces the amount of subsequent tillage required, and is a major aid in burying crop residues.



## ALTERNATIVE ROLLERS:

### 1 MODULAR HYDRAULIC PARALLELOGRAM KIT

Alpego has designed the modular parallelogram kit enabling quick changing of roller type. With this accessory, the machine is extremely versatile and suitable for all conditions.



### 2 H50 FRANTER ROLLER

New H50 FRANTER roller ideal for all soil types; floats over the lightest soils but crumbles heavy soils very effectively. Hydraulic depth adjustment. (Ø 220 mm)  
Featured on the following models: K-FORCE / S1 / S2

### 3 G6 CAGE ROLLER

New GABBIA G6 roller, ideal for dry, light and medium-density soils. (Ø 550 mm)  
Featured on the following models: K-FORCE / S1 / S2

### 4 DR6 DISC ROLLER

New DR6 DISC roller suitable for very heavy soils. (Ø 600 mm)  
Featured on the following models: K-FORCE / S1 / S2

## AVAILABLE ROLLERS:



### MECHANICAL FRANTER ROLLER M12

New M12 FRANTER roller ideal for light soils. Mechanical depth adjustment and choice of two-point linkage (forward/rear) (Ø 140 mm)  
Featured on the following models: K-DYNO / K-EVO / S1



### HYDRAULIC FRANTER ROLLER H12

New H12 FRANTER roller ideal for light soils. Hydraulic depth adjustment and choice of two-point linkage (forward/rear) (Ø 140 mm)  
Featured on the following models: K-DYNO / K-EVO / S1



### HYDRAULIC FRANTER ROLLER H22

New H22 FRANTER roller also ideal for heavy soils. Hydraulic depth adjustment and choice of two-point linkage (forward/rear) (Ø 194 mm)  
Featured on the following models: K-EVO / K-FORCE / S1 / S2



### HYDRAULIC FRANTER ROLLER H40

H40 FRANTER roller ideal for all soils. Hydraulic depth adjustment (Ø 195 mm)  
Featured on the following models: MEGA CRAKER KX



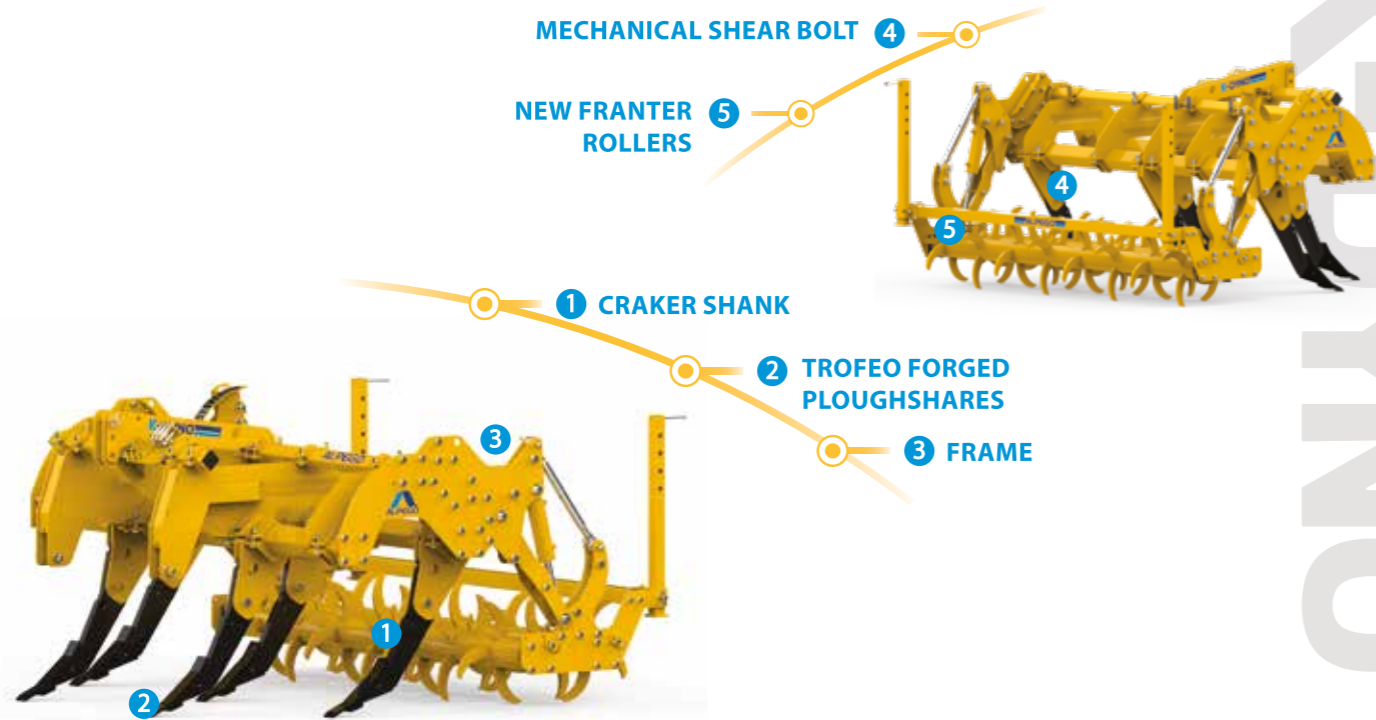


# CRAKER K-DYNO

## DYNAMIC

Fixed mechanical subsoiler  
for depths up to 51 cm

The new K-DYNO model is a compact, lightweight subsoiler that is still extremely rugged and dynamic thanks to the new frame design. Available in sizes 1.6 - 2 - 2.5 - 3 m, it is recommended for use with tractors from 50 to 130 HP.



Model	CRAKER K-DYNO3-160	CRAKER K-DYNO5-200	CRAKER K-DYNO5-250	CRAKER K-DYNO7-250	CRAKER K-DYNO7-300
Working width (mm)	1600	2000	2500	2500	3000
Transport width (mm)	1575	2061	2480	2480	2975
Tractor power (HP)	50-130	50-130	60-130	70-130	80-130
Working depth (mm)	510	510	510	510	510
Shanks (no.)	3	5	5	7	7
Weight with mechanical Franter roller M12 (Kg)	825	985	1045	1175	1280
Weight with hydraulic Franter roller H12 (Kg)	830	990	1060	1190	1290

### 1 CRAKER SHANK

Shank 30 mm thick with curved profile to reduce draft force and improve mixing.

### 3 FRAME

All-bolted frame in high strength steel with new design for higher performances.

### 2 TROFEO FORGED PLOUGHSHARES

Quick-removal ploughshares with variable thickness, reinforced tip and special steel structure.

### 4 MECHANICAL SHEAR BOLT

Safety bolt fitted on every shank; if the shank hits an obstacle, the bolt shears, protecting the machine's structure.

### 5 NEW FRANTER ROLLERS

New M12/H12 FRANTER rollers (Ø 140 mm)  
Choice of two-point linkage (forward/rear)

### EQUIPMENT

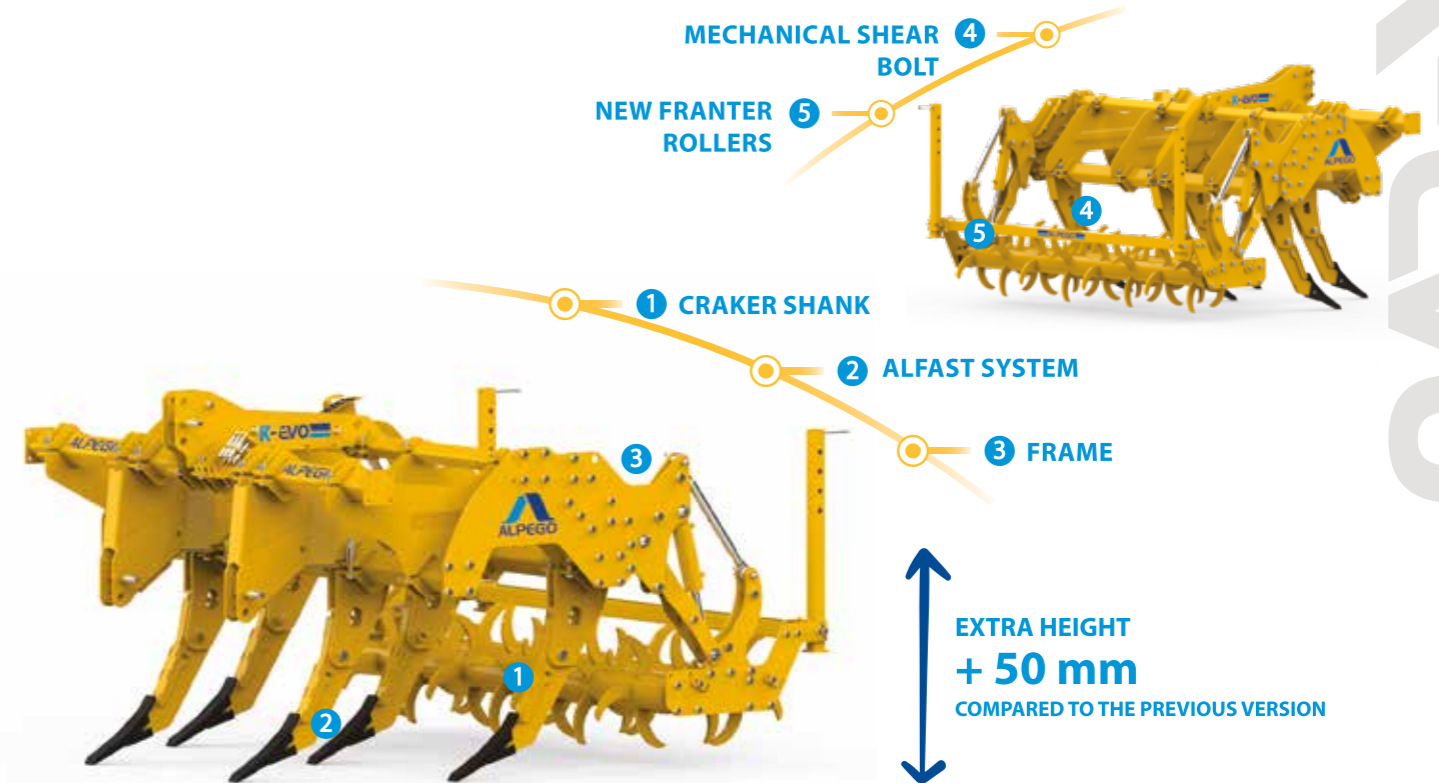
2 linkage / Hardwearing shank guard / Diagonal shank fixing / Two support legs (mounted on roller)

# CRAKER K-EVO

## HIGH-PERFORMING

Fixed mechanical subsoiler  
for depths up to 58 cm

The new K-EVO model subsoiler is intended for professional use, and is complete with ALFAST system. Available in sizes 2.5 - 3 - 3.5 m, recommended for tractors from 120 to 220 HP.



Model	CRAKER K-EVO 5-250	CRAKER K-EVO 7-300	CRAKER K-EVO 7-350
Working width (mm)	2500	3000	3500
Transport width (mm)	2505	3002	3494
Tractor power (HP)	120-180	150-220	150-220
Working depth (mm)	580	580	580
Shanks (no.)	5	7	7
Weight with mechanical Franter roller M12 (Kg)	1345	1560	-
Weight with hydraulic Franter roller H12 (Kg)	1380	1590	-
Weight with hydraulic Franter roller H22 (Kg)	1515	1800	1875

### 1 CRAKER SHANK

Shank 35 mm thick with curved profile to reduce draft force and improve mixing both in-depth on the surface.

### 3 FRAME

All-bolted frame in high strength steel with new design for higher performances.

### 2 ALFAST SYSTEM

TROFEO forged ploughshares and shank guards with ultra rapid fitting and removal system.

### 4 MECHANICAL SHEAR BOLT

Safety bolt fitted on every shank; if the shank hits an obstacle, the bolt shears, protecting the machine's structure.

### 5 NEW FRANTER ROLLERS

New FRANTER rollers M12/H12/H22 (Ø 140/220 mm)  
Choice of two-point linkage (forward/rear)

### EQUIPMENT

Cat. 2 and 3 linkage / Diagonal shank fixing / Clamp shock absorber on the front shanks / Two support legs (mounted on the roller)

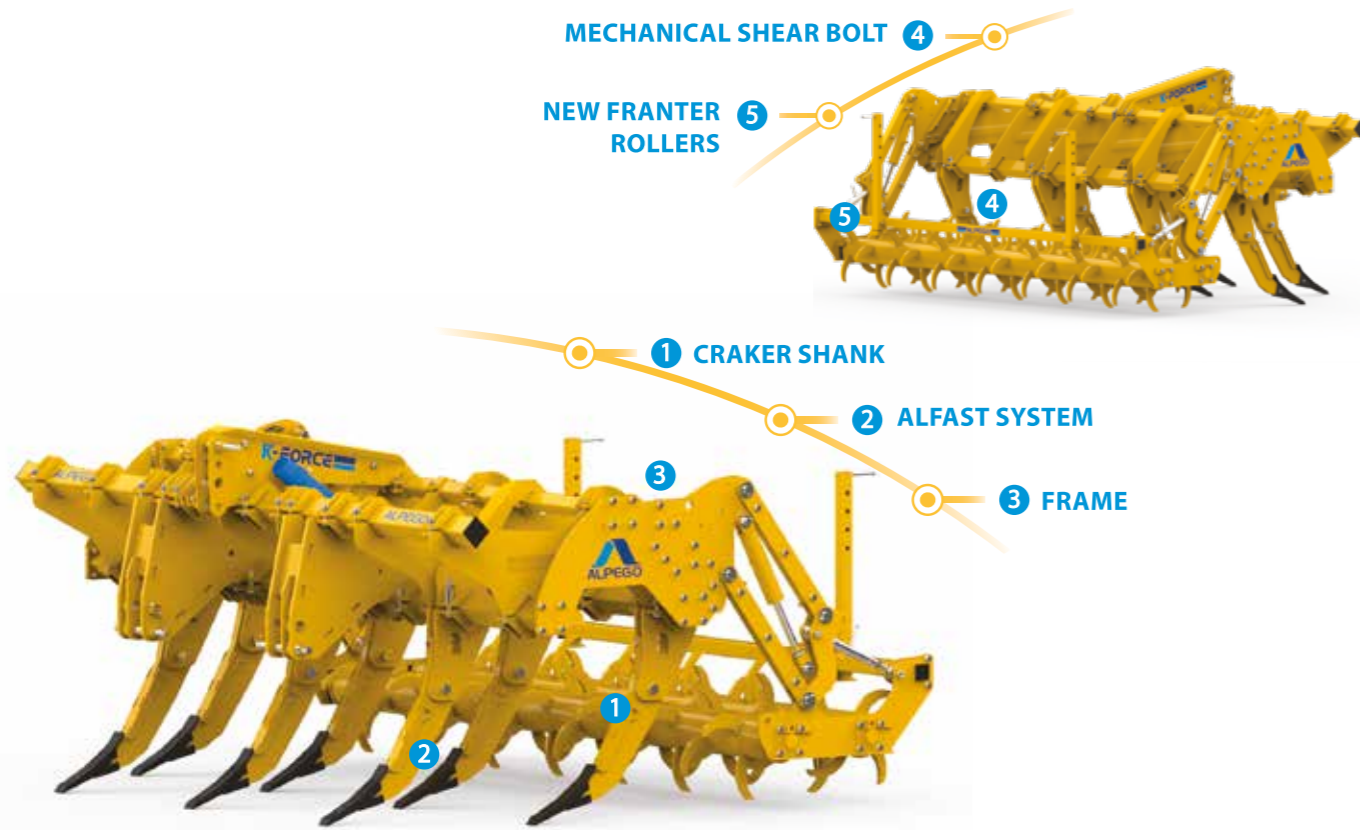
# CRAKER K-FORCE

## TOP OF THE RANGE

Fixed mechanical subsoiler  
for depths up to 65 cm

The new K-FORCE model subsoiler is intended for super-professional use, and is complete with ALFAST system and hydraulically adjusted roller as standard. Available in sizes 3-3.5-4m, recommended for tractors from 150 to 350 HP.

Mechanical subsoiler  
K-FORCE



Model	CRAKER K-FORCE 7-300	CRAKER K-FORCE 7-350	CRAKER K-FORCE 9-400
Working width (mm)	3000	3500	4000
Transport width (mm)	3002	3495	3996
Tractor power (HP)	150-310	150-310	175-350
Working depth (mm)	650	650	650
Shanks (no.)	7	7	9
Weight with hydraulic Franter roller H22 (Kg)	2200	2290	2645
Weight with hydraulic Franter roller H50 (Kg)	2230	2335	2680
Weight with Cage Roller G6 (Kg)	1985	2030	-
Weight with Disc Roller DR6 (Kg)	2290	2420	-

### 1 CRAKER SHANK

Shank 35 mm thick with curved profile to reduce draft force and improve mixing both in-depth on the surface.

### 2 ALFAST SYSTEM

TROFEO forged ploughshares and shank guards with ultra rapid fitting and removal system.

### 3 FRAME

All-bolted frame in high strength steel with new design for higher performances.

### 4 MECHANICAL SHEAR BOLT

Safety bolt fitted on every shank; if the shank hits an obstacle, the bolt shears, protecting the machine's structure.

### 5 NEW FRANTER ROLLERS

New H22 FRANTER rollers (Ø 220 mm) Choice of two-point linkage (forward/rear) Optionals: Modular parallelogram kit.

### EQUIPMENT

3/4N and 3 USA/4 USA linkage / Diagonal shank fixing / Clamp shock absorber on all shanks / Two support legs (mounted on roller)



# MEGA CRAKER KX

The machine for  
professionals

Folding subsoiler with hydraulic closing system, available with 9 and 11 shanks, with transport width of just 2.50 m. The particularly rugged structure allows use in combination with very high powered tractors.

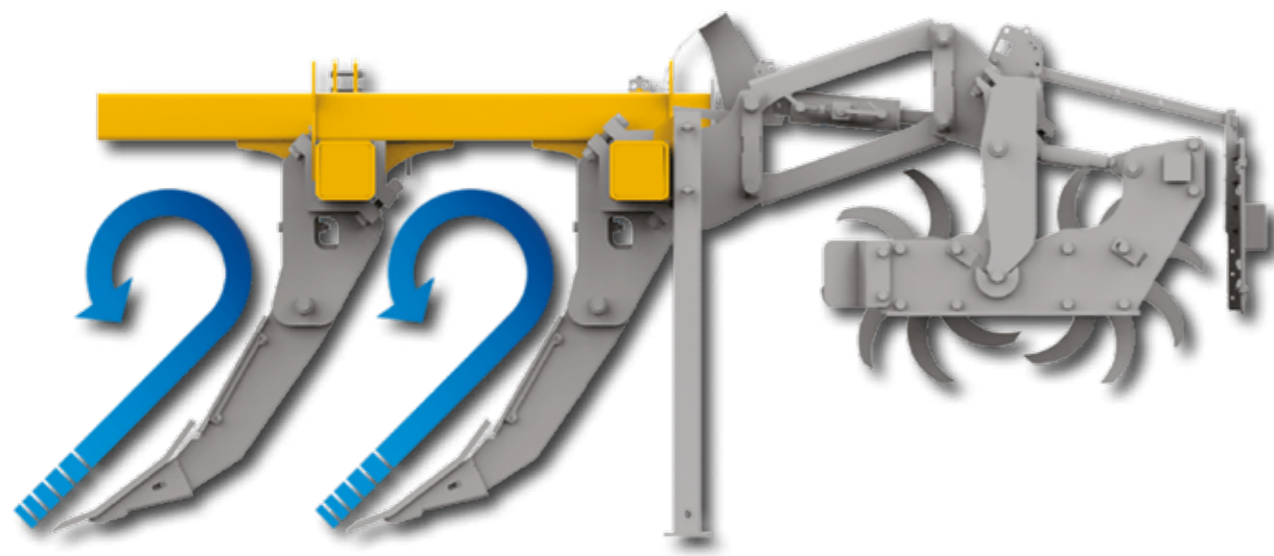
Folding subsoiler  
Mega Craker KX



**FOLDING FRAME**  
(Patented) 255 cm hydraulic folding frame with working width 4 m - 5 m.



**HYDRAULIC CIRCUIT**  
Mega Craker KX subsoilers are equipped with roller with parallelogram system using a working depth control with a cross hydraulic circuit.



**BRIDGE SOLUTION**  
Special frame solution introduced by Alpego to increase the clearance, which in contrast to conventional frames guarantees good soil flow at maximum working depth (up to 65 cm.)



# MEGA CRAKER KX

TOUGH

Folding mechanical subsoiler for depths up to 65 cm

Folding subsoiler model Mega Craker KX, top-of-the-range professional machine equipped as standard with double franter roller with hydraulic adjustment. Made entirely from high-tensile steel, designed for ultra-high powered tractors from 200 to 500 HP and available in 2 different working widths, 4 – 5 m.



TRANSPORT WIDTH 2.50 M



- 1 CRAKER SHANK**  
Shank 35 mm thick with curved profile to reduce draft force and improve mixing both in-depth on the surface. (With forged TROFEO ploughshare)
- 2 FRAME**  
High performance all-bolted frame in high strength steel. Hydraulic closure with transport width 2.50 m.
- 3 MECHANICAL SHEAR BOLT**  
Safety bolt fitted on every shank; if the shank hits an obstacle, the bolt shears, protecting the machine's structure.
- 4 FRANTER ROLLERS**  
H40 FRANTER rollers (Ø 220 mm) with extra large supports. Hydraulic tilling depth corrector with parallelogram.
- 5 TROFEO FORGED PLOUGHSHARES**  
TROFEO ploughshares have exclusive design, variable thickness and reinforced tip, with forged special steel structure, all to ensure higher performance.
- EQUIPMENT**  
Category 3/4, 3/4 USA and 4N USA linkage / TROFEO quick-fitting ploughshares / Hard-wearing shank guard / Reflective side tables with rear lights

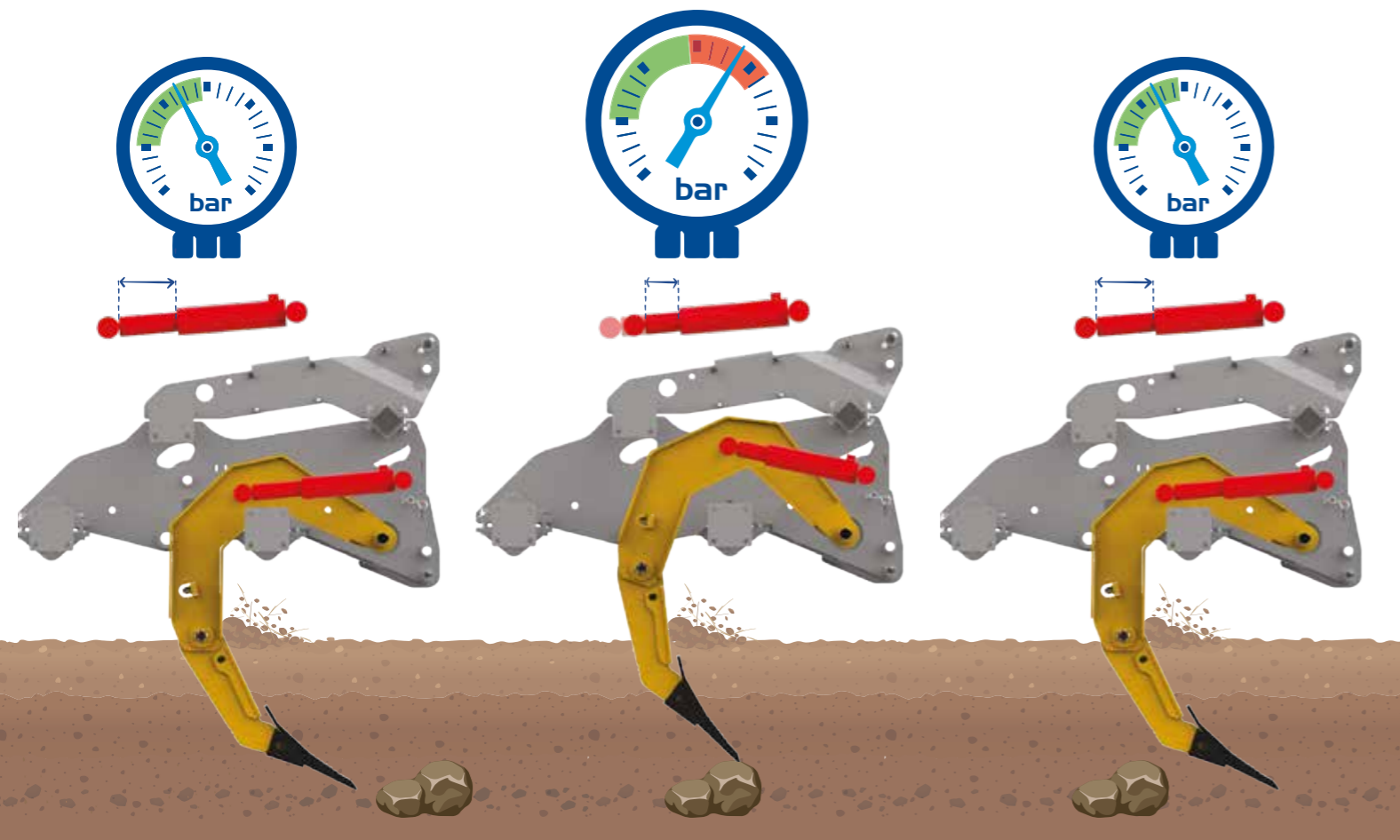
Model	MEGA CRAKER KX 9-410	MEGA CRAKER KX 11-500
Working width (mm)	4100	5000
Transport width (mm)	2500	2500
Tractor power (HP)	200-400	300-500
Working depth (mm)	650	650
Shanks (no.)	9	11
Weight with hydraulic Franter roller H40 (Kg)	3310	3700

# SKAT technical characteristics

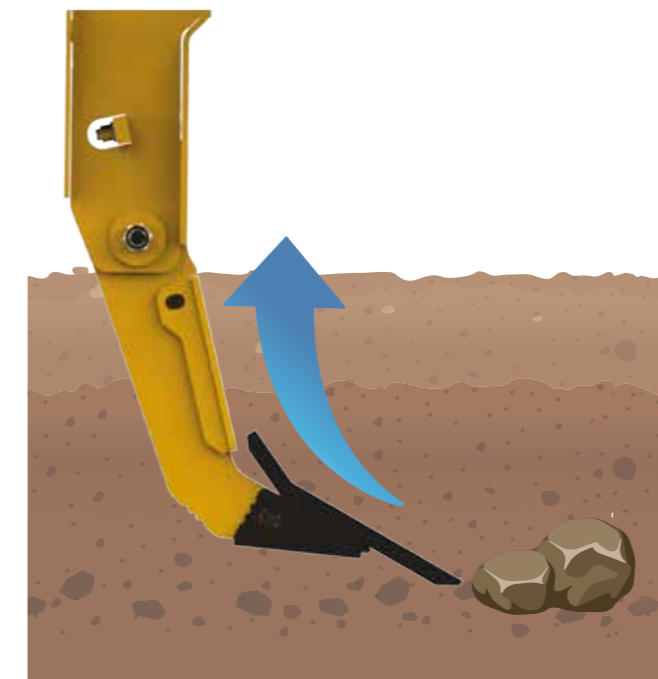
## Hydro-pneumatic system

### HYDRAULIC NO STOP

The system, comprising a nitrogen accumulator with regulator valve and a series of cylinders, one on each shank, enables the shanks to absorb shocks and stresses and return to place gradually, avoiding damage to the frame structure.



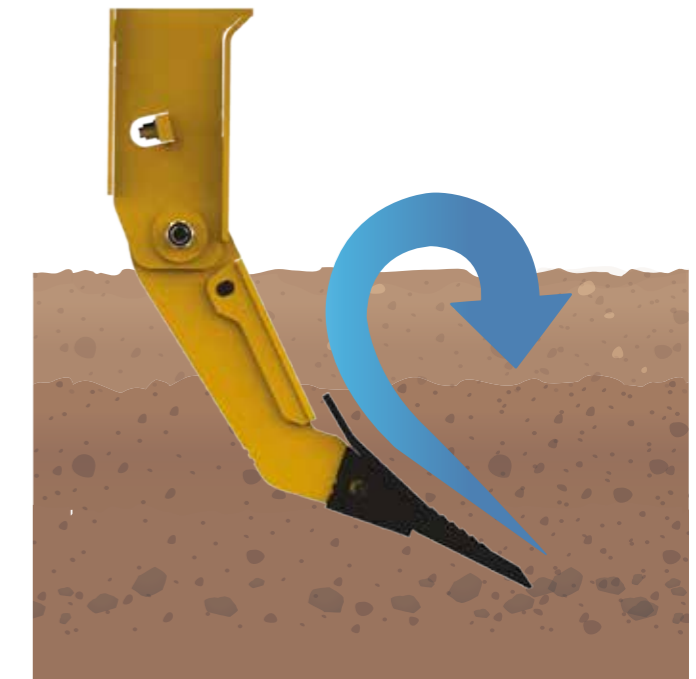
### ROCK SHANK (for very stony ground)



#### ROCK SHANK

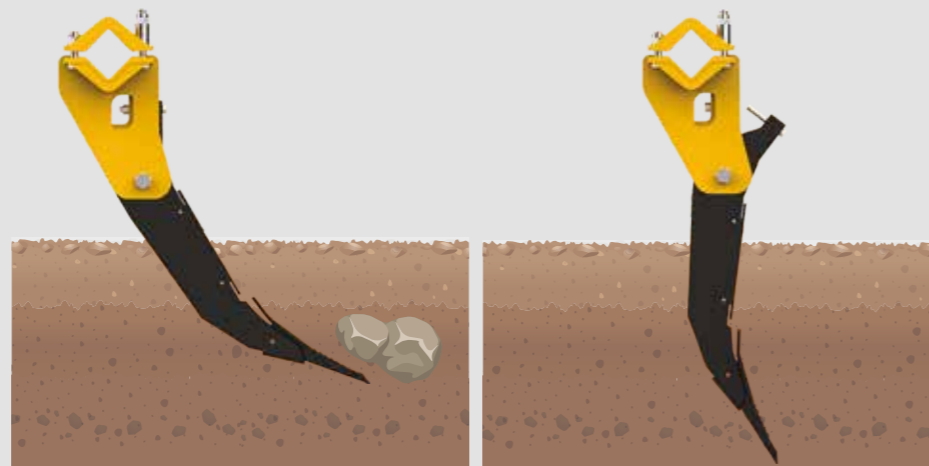
Rock shank with reinforced hardwearing ploughshares, to overcome obstacles in very stony ground. The unusual angle prevents stones from being dragged to the surface.

### CRAKER SHANK (for heavy ground)



### SHEAR BOLT

In addition to the hydraulic NO STOP system, each shank is fitted with an easily replaceable shear bolt which breaks in case of excessive stresses to safeguard the machine's structure.



### BOLTED FRAME

High performance all-bolted frame. New side plate design for faster roller mounting. The high strength steel used provides the optimal trade-off between light weight and resistance. Standard on models: S1 / S2



# SKAT S1

## CUTTING-EDGE

Hydro-pneumatic subsoiler for depths up to 55 cm

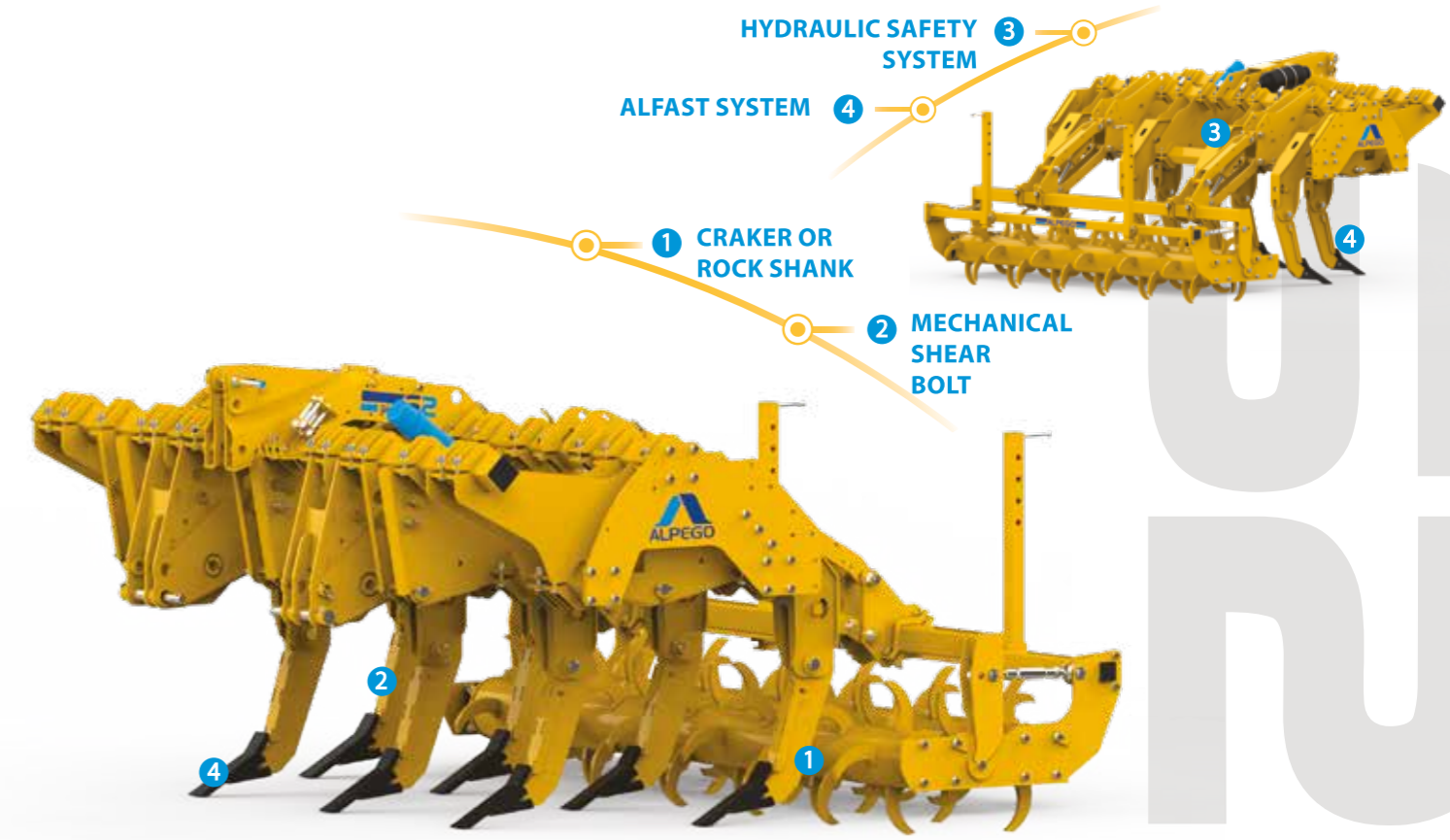
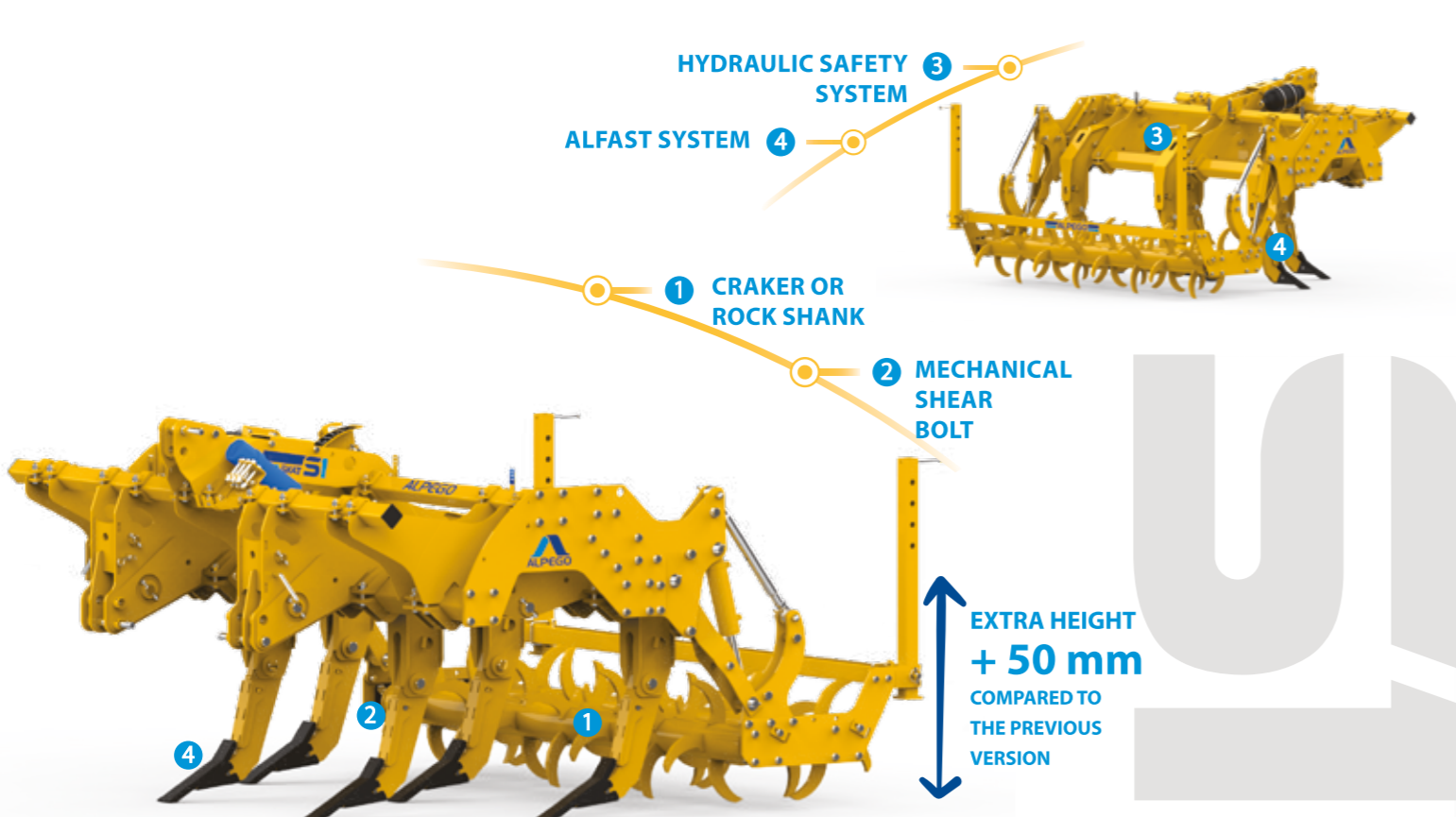
S1 hydro-pneumatic subsoiler, professional machine available with two front rollers with mechanical or hydraulic adjustment. Constructed in high-tensile steel and available in 3 different working widths of 2.5 - 3 - 3.5 m, it is ideal for tractors from 120 to 250 HP.

# SKAT S2

## STRONG

Hydro-pneumatic subsoiler for depths up to 65 cm

S2 model hydro-pneumatic subsoiler, super-professional, rugged machine available with two front rollers with hydraulic adjustment. Constructed entirely in high strength steel and available in no less than 3 different working widths of 3 - 3.5 and 4 m, it is ideal for tractors from 130 to 400 HP.



Model	SKAT S1 5-250	SKAT S1 7-300	SKAT S1 7-350
Working width (mm)	2500	3000	3500
Transport width (mm)	2505	3002	3495
Tractor power (HP)	120-200	130-230	130-250
Working depth (mm)	550	550	550
Shanks (no.)	5	7	7
Weight with mechanical Franter roller M12 (Kg)	1325	1660	-
Weight with hydraulic Franter roller H12 (Kg)	1340	1670	-
Weight with hydraulic Franter roller H22 (Kg)	1510	1880	1990

Model	SKAT S2 7-300	SKAT S2 7-350	SKAT S2 9-400
Working width (mm)	3000	3500	4000
Transport width (mm)	3002	3495	3996
Tractor power (HP)	200-335	200-335	270-400
Working depth (mm)	600	600	600
Shanks (no.)	7	7	9
Weight with hydraulic Franter roller H22 (Kg)	2396	2515	2820

**1 CRAKER OR ROCK SHANK**  
35 mm shank available in two different types to suit many needs.

**3 HYDRAULIC SAFETY SYSTEM**  
The system, comprising a nitrogen accumulator with regulator valve and a series of cylinders, one on each shank, enables the shanks to absorb shocks and stresses and return to place gradually, avoiding damage to the frame structure.

**4 ALFAST SYSTEM**  
TROFEO forged ploughshares and shank guards with ultra rapid fitting and removal system.

**EQUIPMENT**  
Cat. 2/3 linkage / Two support legs (mounted on the roller)

**2 MECHANICAL SHEAR BOLT**  
Safety bolt fitted on every shank; if the shank hits an obstacle, the bolt shears, protecting the machine's structure.

**1 CRAKER OR ROCK SHANK**  
35 mm shank available in two different types to suit many needs.

**3 HYDRAULIC SAFETY SYSTEM**  
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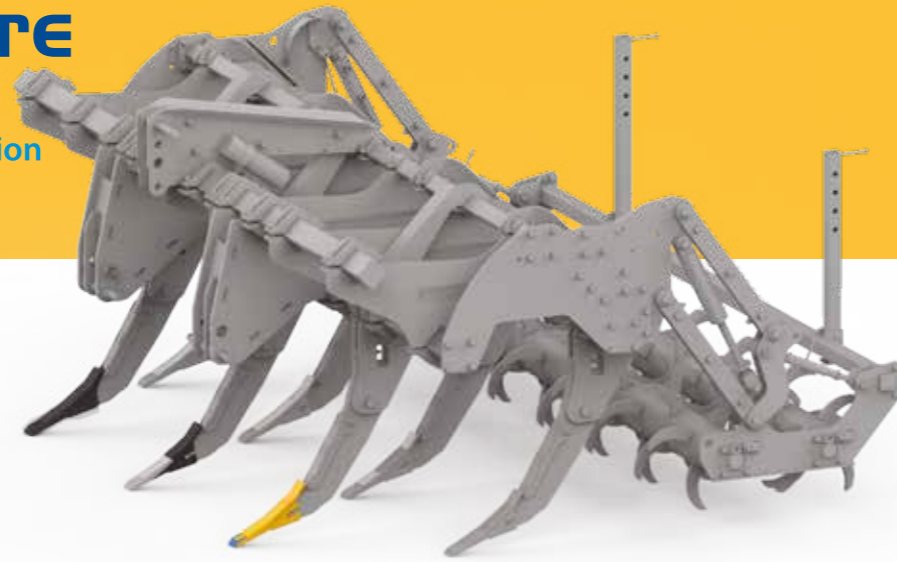
**4 ALFAST SYSTEM**  
TROFEO forged ploughshares and shank guards with ultra rapid fitting and removal system.

**EQUIPMENT**  
Cat. 3/3 USA and 4N linkage / Two support legs (mounted on the roller)

**2 MECHANICAL SHEAR BOLT**  
Safety bolt fitted on every shank; if the shank hits an obstacle, the bolt shears, protecting the machine's structure.

# Choosing the ploughshare

The right ploughshare for every situation



## TROFEO



Trofeo ploughshare, with an exclusive design, variable thickness and reinforced tip and forged special steel structure, increases the useful life by 20%. The grooves in the upper face of the ploughshare fill with soil and consequently reduce wear thanks to the soil-soil contact.

## TROFEO WEARPROOF



WEARPROOF ploughshare with special hard-wearing surface treatment to guarantee a prolonged life and optimal working performance for much longer than the standard version.

## TROFEO PLUS



TROFEO PLUS ploughshare with a special Tungsten carbide plates positioned on the tip. This ploughshare is recommended for use in very tough, heavy-duty conditions. The plate enables the tip to preserve its effective length over time, ensuring greater maintenance of the working depth compared to standard ploughshares.

Ploughshares	K-DYNO	K-EVO	K-FORCE	MEGA CRAKER KX	S1	S2
TROFEO		ALFAST	ALFAST		ALFAST	ALFAST
TROFEO WEARPROOF		ALFAST	ALFAST		ALFAST	ALFAST
TROFEO PLUS		ALFAST	ALFAST		ALFAST	ALFAST

# Choosing the accessory

The right accessory for every situation



CLOD-SHATTERING FINS



ALFAST CLOD-SHATTERING FINS



DEK PLOUGHSHARE



PAIR OF REAR WHEELS



NEW TELESCOPIC CLOD-RESTRICTING SIDE BOARDS



CLOD-RESTRICTING KIT



REFLECTIVE SIDE TABLES KIT WITH FIXED REAR LIGHTS



FRAME SUPPORT LEG KIT

Accessories and rollers	K-DYNO	K-EVO	K-FORCE	MEGA CRAKER KX	S1	S2
Clod-shattering fins		ALFAST	ALFAST		ALFAST	ALFAST
DEK ploughshare		ALFAST	ALFAST		ALFAST	ALFAST
Pair of rear wheels				-		
Telescopic clod-restricting side boards				-		
Clod-restricting kit	-	-	-		-	-
Reflective side tables kit with fixed rear lights						
Frame support leg kit				-		
M12 Mechanical Franter Roller			-	-		-
H12 Hydraulic Franter Roller			-	-		-
H22 Hydraulic Franter Roller	-			-		
H40 Hydraulic Franter Roller	-	-	-		-	-
H50 Hydraulic Franter Roller	-	-		-		
G6 Cage Roller	-	-		-		
DR6 Disc Roller	-	-		-		

Accessory

Standard

- Not available



### FIXED POWER HARROWS

40 - 320 HP



### FOLDING POWER HARROWS

320 - 500 HP



### SUBSOILERS

50 - 500 HP



### ROTARY CULTIVATORS AND STONE BURIERS

50 - 500 HP



### SEED DRILLS

75 - 320 HP



### FRONT HOPPERS

90 - 500 HP



### CULTIVATORS

110 - 270 HP



### FLAIL MOWERS

40 - 160 HP

