

SUBSOILERS



SUBSOILERS: AN INNOVATION BECOMING PERFECTION

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, much appreciated by the customers, Vittorio soon became well known in the agricultural mechanisation sector.

In the '72s, 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 in order 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 HAVE CREATED A COMPLETE SYSTEM BECAUSE HAVING THE BEST STEEL IS NOT ENOUGH.

The sticker “ALPEGO INSIDE” on all machines, certifies the **high quality** of Alpego’s products. An union of **first quality materials**, **eco-sustainable coating** process and **certified welding** that guarantees an **exceptional durability and quality over the years**.

HIGH STRENGTH STEEL

All Alpego machines use the best **steel to reduce weight and increase work performance**, this maximizing both consumption and operating costs. This has a great impact on environmental sustainability as well.

CERTIFIED WELDING

For more than twenty years the exceptional durability of Alpego structural components has been guaranteed by the effectiveness of **welds made by highly qualified personnel in accordance with standardized processes certified by the National Welding Institute**.

ECO PAINTING

A unique system of its kind throughout Europe, which allows **each component to be painted with the most suitable process and in full respect for the environment**. The paints used, in fact, are water-based and powder-based and do **not produce emissions of VOC** (Volatile Organic Compounds).



A complete range for all needs

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.

K-DYNO

Rigid mechanic subsoiler
HP 50-130
Page 14



K-EVO

Rigid mechanic subsoiler
HP 120-220
Page 15



MEGA CRAKER KX

Foldable mechanic subsoiler
HP 250-500
Page 20



K-FORCE

Rigid mechanic subsoiler
HP 150-350
Page 16



SKAT K1

Hydropneumatic subsoiler
HP 90-200
Page 24



SKAT K2

Hydropneumatic subsoiler
HP 150-400
Page 25



Why choose Alpego subsoilers?

Three solutions for a single 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.

Benefits of subsoiling

Subsoiling cuts costs compared to conventional tillage



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

Optional realized from Alpego the adjustable side fins enable better crumbling and turnover of the topsoil. They also effectively cut the root systems of weeds or crop residues.

DEK PLOUGHSHARE

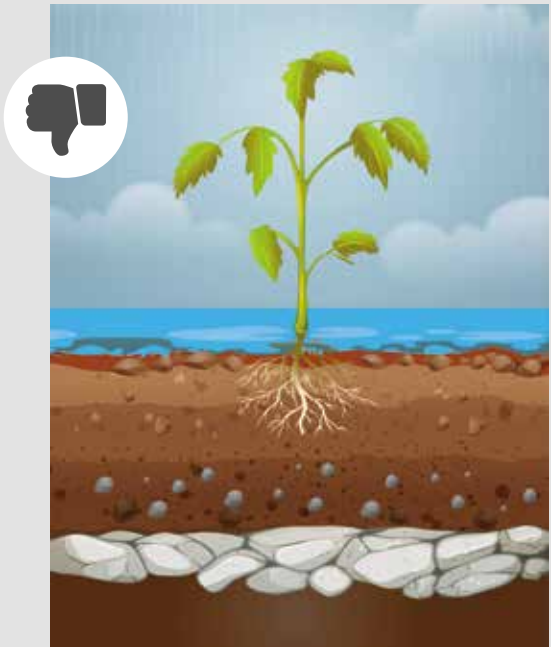
Dek ploughshares are designed to provide surface tillage even with crop residues present. Their conformation ensures effective tillage across the entire width of the machine and is ideal for depths of up to 15 cm.



Alpego subsoilers perform various farming functions, with multiple benefits.

Mattia Trevini
Agronomist

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.

Franter Rollers for Craker

Essential for cutting subsequent tillage needs

Franter rollers, conceived and introduced into the market by Alpego, provide crucial initial surface tillage, for optimal soil levelling. They also reduce the amount of subsequent tillage required, and are a major aid in burying crop residues.



M12 MECHANICAL FRANTER ROLLER

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



H12 HYDRAULIC FRANTER ROLLER

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



H22 HYDRAULIC FRANTER ROLLER

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

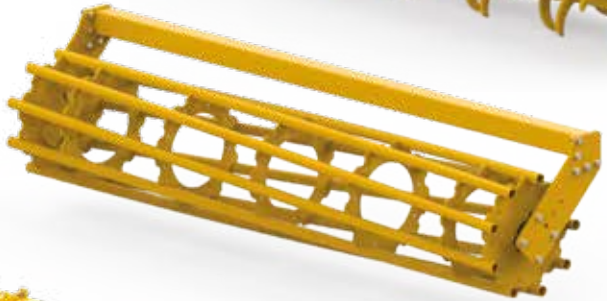
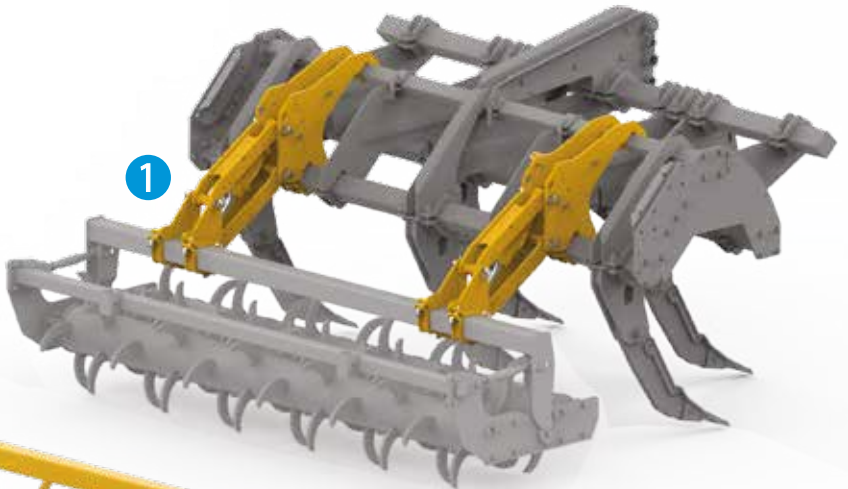


H40 HYDRAULIC FRANTER ROLLER

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

1 MODULAR 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 HYDRAULIC 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

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

4 DR6 DISC ROLLER

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

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 is moved along the shaft to free or lock the accessory on the shank.

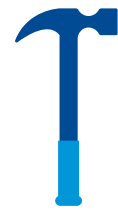
WHAT YOU NEED:



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15"

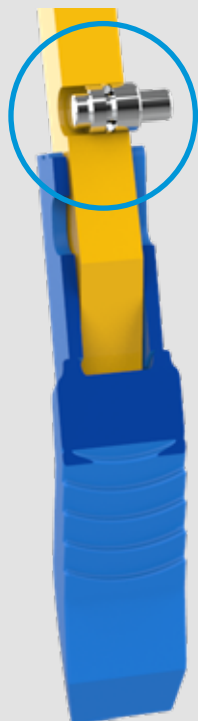


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NO

UNLOCKED



RELEASE



REMOVE



FIT



LOCK



ULTRA-FAST
FITTING
AND
REMOVAL

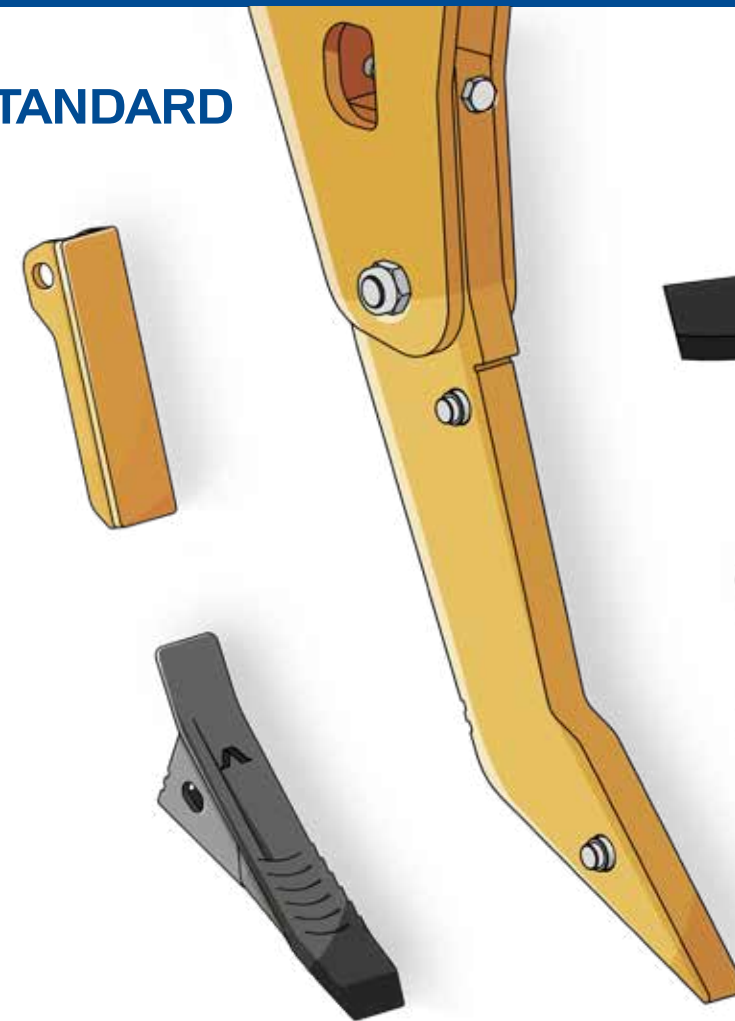
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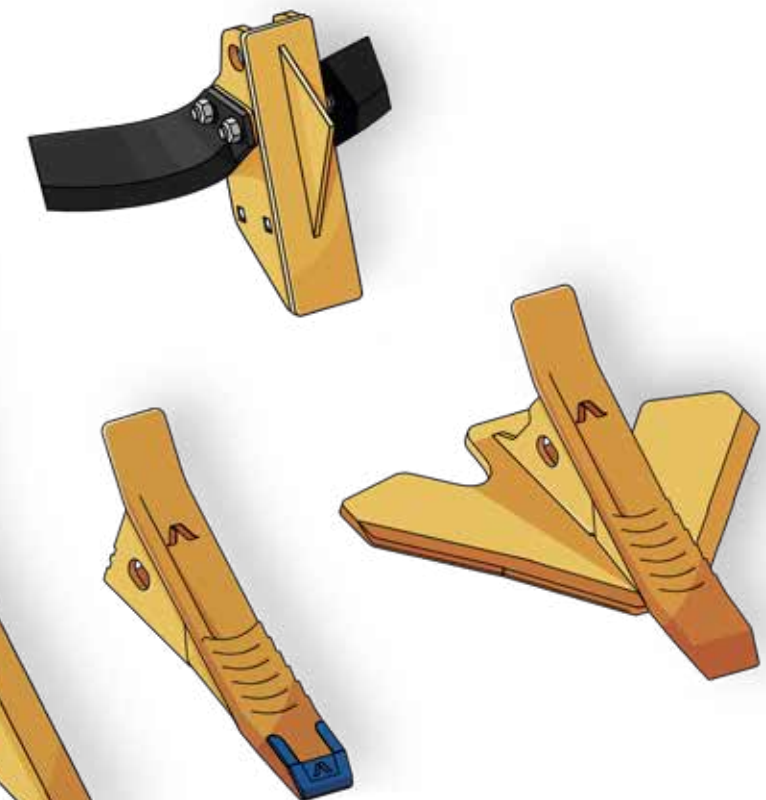
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4

STANDARD



OPTIONAL



PLOUGHSHARES AVAILABLE:

TROFEO PLOUGHSHARE



TROFEO PLUS
PLOUGHSHARE



ALFAST PLOUGHSHARE



ALFAST PLUS
PLOUGHSHARE



TROFEO PLOUGHSHARE

Trofeo ploughshare with exclusive design, variable thickness and reinforced tip, with forged special steel structure, everything for an increase in duration of 20%. Available in PLUS version with hardwearing tungsten carbide plate. Available for K-DYNO / KX / K1 / K2

ALFAST PLOUGHSHARE

New ALFAST (patented) Trofeo ploughshare in forged special steel with ultra-quick mounting system. Also available in PLUS version with hardwearing tungsten carbide plate. Available for K-EVO and K-FORCE

New technical features

Technique and design



NEW FRAME DESIGN

All-bolted frame with new design for higher performances. New side plate design for faster roller mounting. The high strength steel used provides the optimal trade-off between light weight and resistance. (STANDARD)



NEW REFLECTIVE SIDE TABLES AND LIGHTS KIT

New-design reflective side tables kit complete with LED lights installed above the rear roller. (OPTIONAL)



NEW TELESCOPIC CLOD-RESTRICTING SIDE BOARDS

New hydraulically retracted clod-restricting side boards, designed not to project when not in use, easily disabled when not required for simple jobs with no operator safety problems. (OPTIONAL)



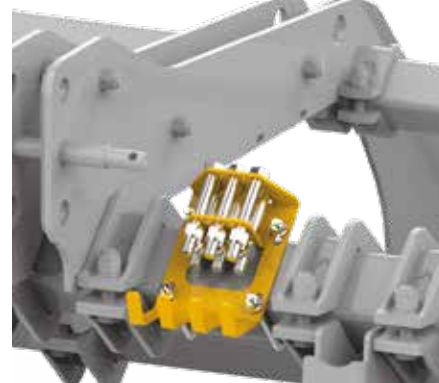
DEPTH GAUGE

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)



ANGLE GAUGE

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



NEW BOLT HOLDER

New spare bolt holder integrated in frame. (STANDARD)

Technical characteristics

Details that make a difference



MECHANICAL SHEAR BOLT IN TRACTION

Solution introduced from Alpego mechanical safety shear bolt fitted on every shank; if the shank hits an obstacle, the bolt shears, protecting the machine's structure.



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.



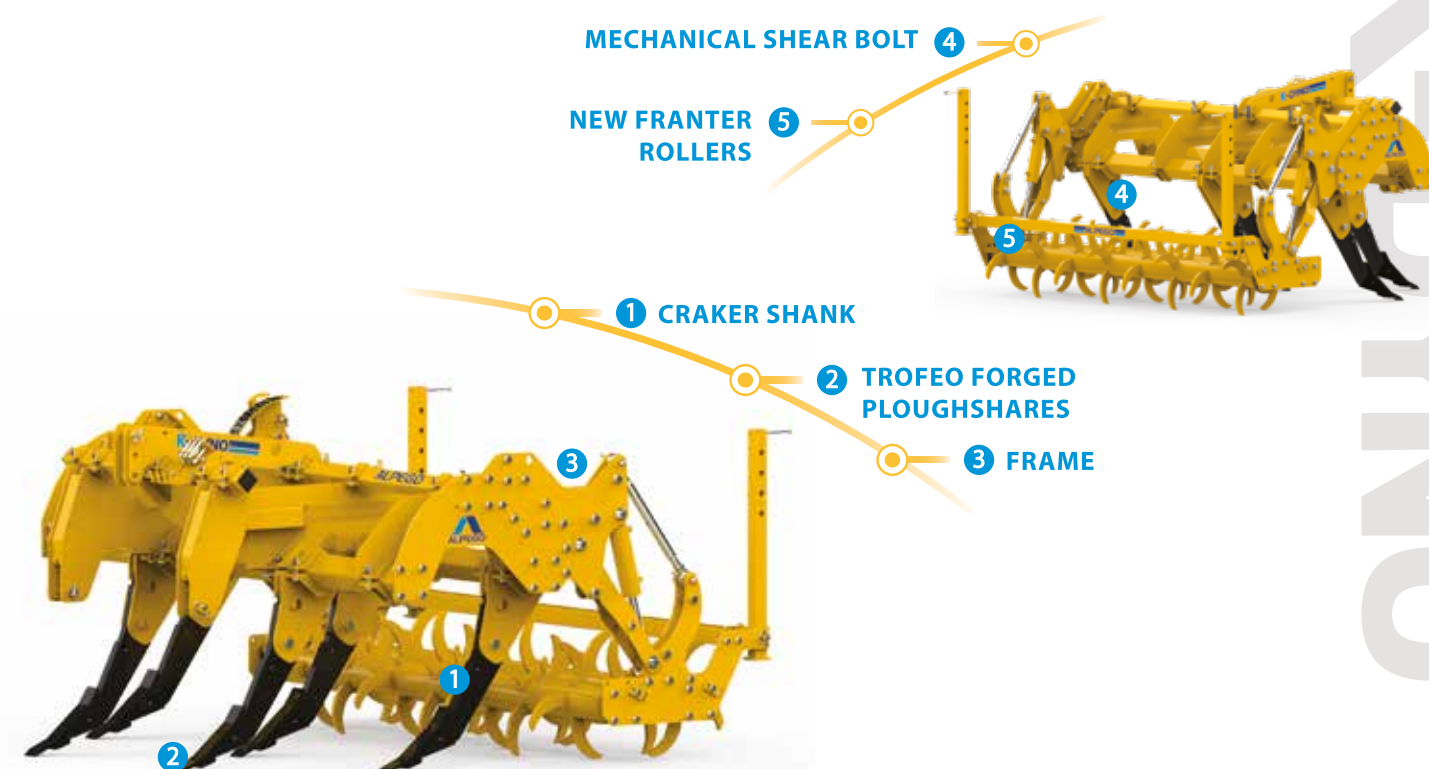
CLAMP SHOCK ABSORBER SYSTEM

The spacer allows use of a longer screw, improving its elasticity and reducing the risk of failure. Standard on models: K-EVO / K-FORCE / KX.

K-DYNO

Rigid mechanic subsoiler
for tractors up to 130 HP
and working width up to 3m

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 and 3 m, it is recommended for use with tractors from 50 to 130 HP.



	K-DYNO3-160	K-DYNO5-200	K-DYNO5-250	K-DYNO7-250	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)	550	550	550	550	550
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.

2 TROFEO FORGED PLOUGHSHARES

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

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

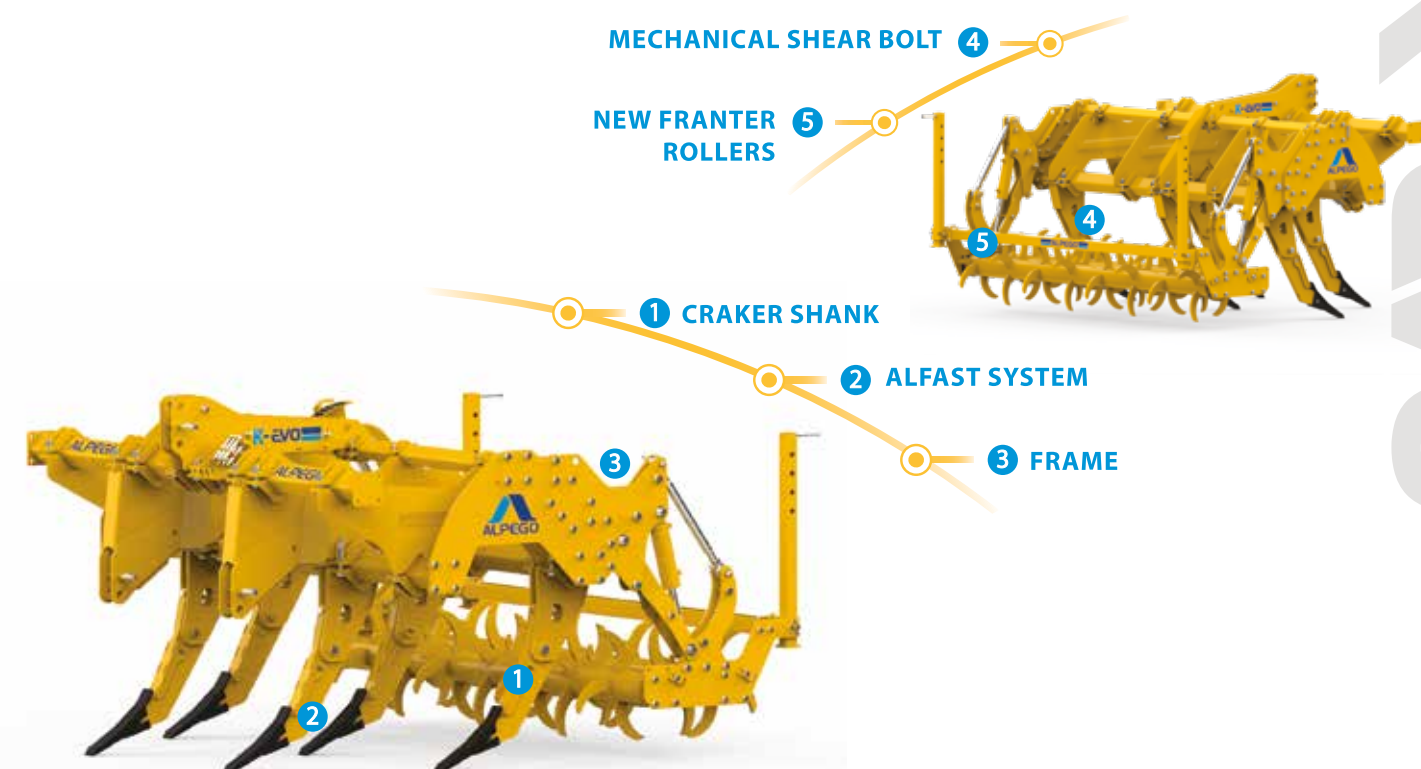
6 EQUIPMENT

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

K-EVO

Rigid mechanic subsoiler
for tractors up to 220 HP
and working width up to 3,5m

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, it is recommended for use with tractors from 120 to 220 HP.



	K-EVO 5-250	K-EVO 7-300	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)	550	550	550
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.

2 ALFAST SYSTEM

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

6 EQUIPMENT

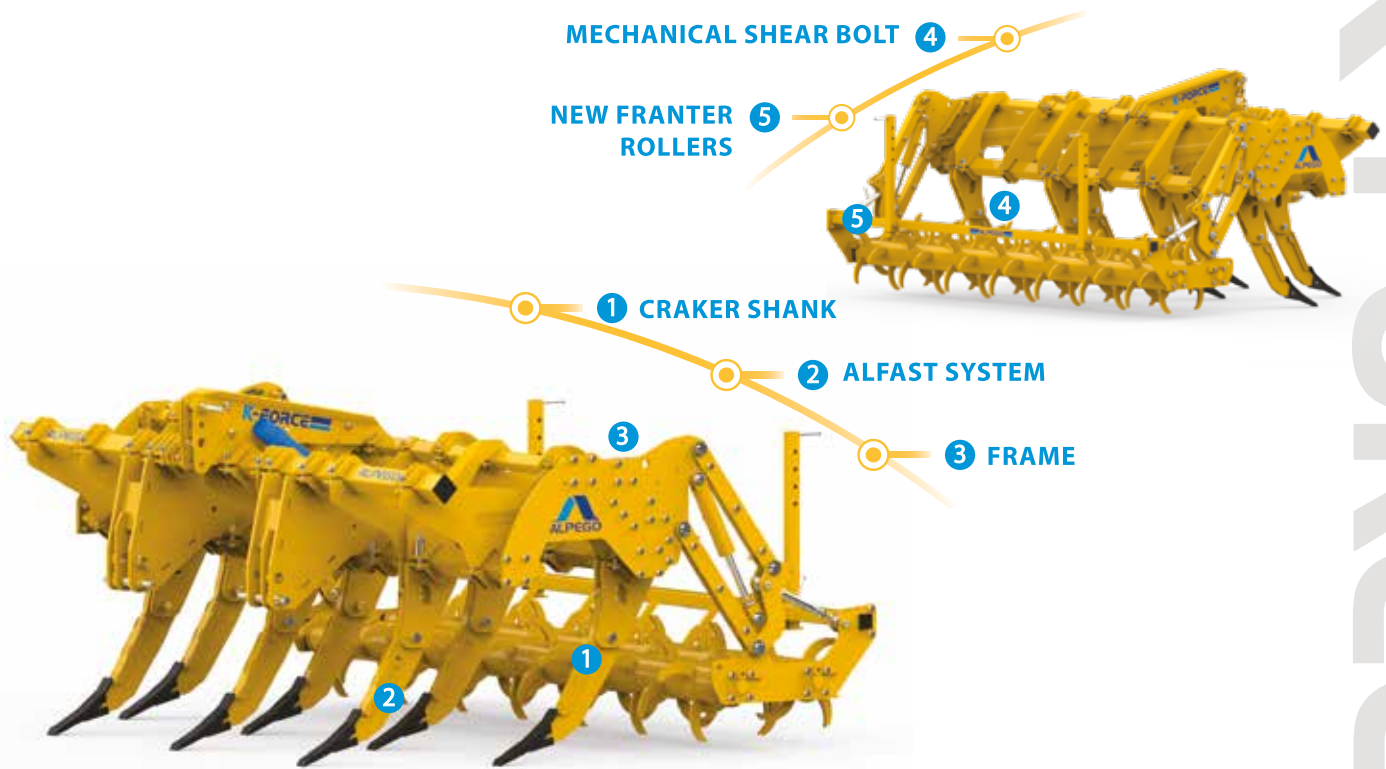
Cat. 2 and 3 linkage / Diagonal shank fixing / Clamp shock absorber on all shanks / Two support legs (mounted on roller)

K-FORCE

Rigid mechanic subsoiler
for tractors up to 350 HP
and working width up to 4m

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 and 4 m, it is recommended for use with tractors from 150 to 350 HP.

Mechanic subsoiler
K-FORCE



	K-FORCE 7-300	K-FORCE 7-350	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

Ploughshares and hardwearing 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

6 EQUIPMENT

Cat. 3/4N and 3 USA/4 N 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.



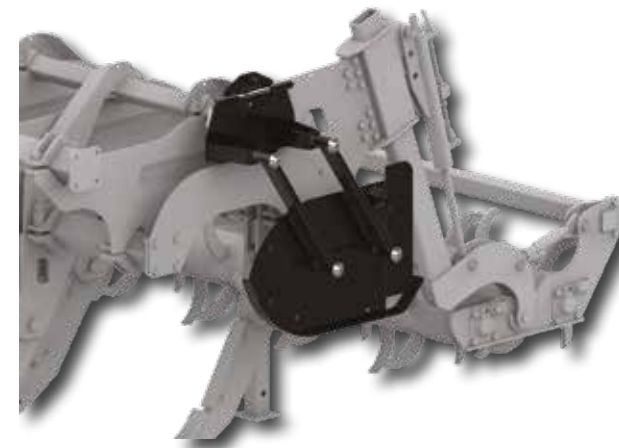
FOLDING FRAME

(Patented) hydraulic folding frame with working width 4 m - 5 m.



BRIDGE SOLUTION

Designed to guarantee a good flow of the soils at the max. working depth (up to 65 cm.)



CLOD-RESTRICTING SIDE BOARDS

Device which restricts clods inside the working width of the machine, so they are not flung out onto ground just tilled, or ground awaiting tilling.



HYDRAULIC CIRCUIT

The foldable Mega Crackers KX are complete with a working depth control with a cross hydraulic circuit. Broad adjustment possibility thanks to the new parallelogram.



MEGA CRAKER KX

Foldable mechanic sulsoiler
for tractors up to 500 HP
and working width up to 5m

The subsoiler hydraulically foldable Mod. Mega Craker KX is a heavy-duty and super-professional implement. It is supplied standard with a hydraulically adjustable double franter roller. Completely made of high-strength steel it has been designed for very large tractor from 200 to 500 HP and it is available in 2 working widths: 4 and 5m.



TRANSPORT
WIDTH 2,50 M.



1 CRAKER SHANK

2 FRAME

3 MECHANICAL
SHEAR BOLT

TROFEO FORGED
PLOUGHSHARES

FRANTER
ROLLERS

	KX 9-410	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

1 CRAKER SHANK

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

2 FRAME

High performance all-bolted frame in high strength steel. Patented 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.

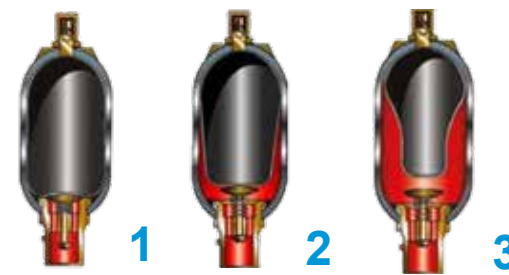
6 EQUIPMENT

Category 3³/₄°, 3³/₄° USA and 4N USA linkage / TROFEO quick-fitting ploughshares / Hardwearing shank guard / Reflective side tables with rear lights

SKAT

Hydro-pneumatic subsoiler range

The Alpego SKAT range of hydro-pneumatic subsoilers is available in widths of 2.5 - 3 - 3.5 and 4 m and a power range from 90 to 400 HP.



NITROGEN ACCUMULATOR

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)



CRAKER SHANK (for heavy ground)

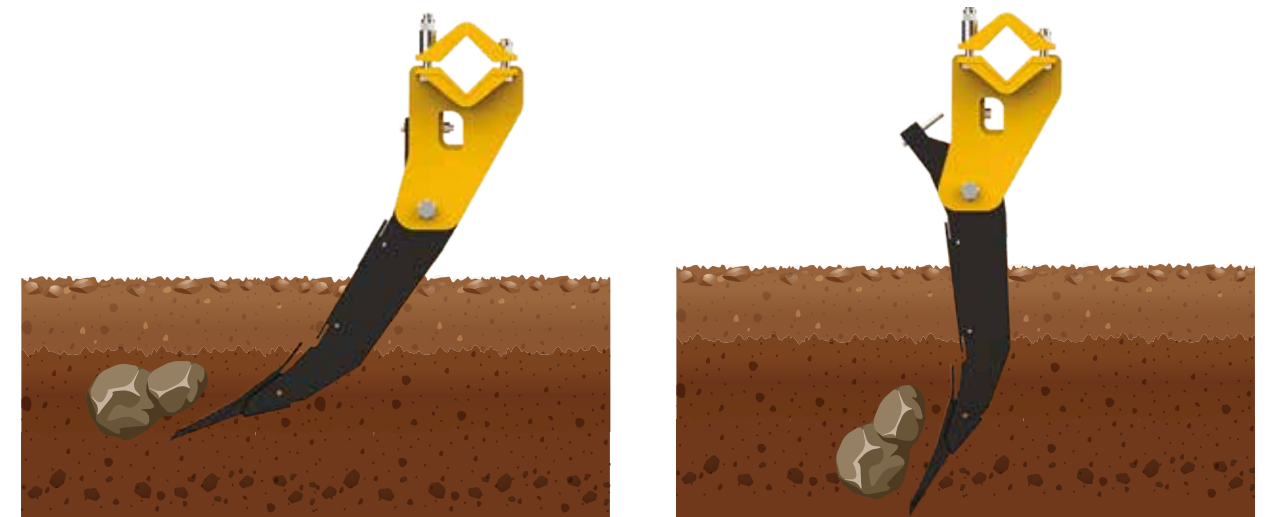


ROCK SHANK

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

Suitable on heavy soils without too many stones. When combined with the SKAT hydro-pneumatic system, they provide excellent elasticity, meaning a longer machine lifetime and less stress on the tractor.



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.

FRANTER ROLLERS FOR SKAT RANGE:



M10 MECHANICAL FRANTER ROLLER

M10 franter roller with mechanical depth adjustment (Ø 140 mm)
Featured on the following models:
SKAT K1

H10 HYDRAULIC FRANTER ROLLER

H10 franter roller with hydraulic depth adjustment (Ø 140 mm)
Featured on the following models:
SKAT K1

H20 HYDRAULIC FRANTER ROLLER

H20 franter roller with hydraulic depth adjustment (Ø 195 mm)
Featured on the following models:
SKAT K1 / SKAT K2



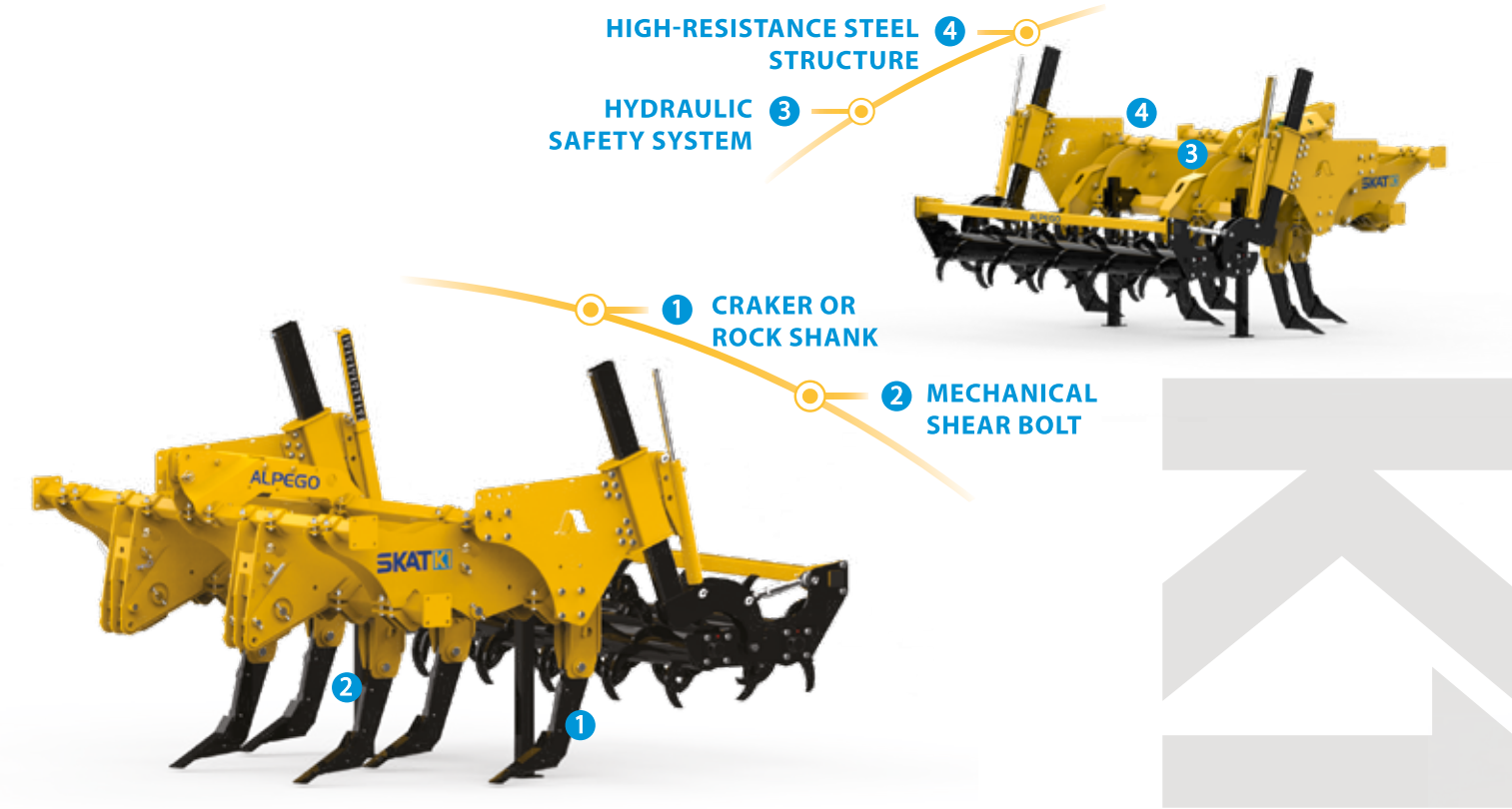
Hydropneumatic subsoiler
for tractors up to 200 HP
and working width up to 3 m

Skat K1 model hydro-pneumatic subsoiler, professional machine available with two franter rollers with mechanical or hydraulic adjustment. Constructed in high strength steel and available in 2 different working widths of 2.5 - 3 m, it is ideal for tractors from 90 to 200 HP.



Hydropneumatic subsoiler
for tractors up to 400 HP
and working width up to 4 m

Skat K2 model hydro-pneumatic subsoiler, super-professional, rugged machine available with two franter rollers with hydraulic adjustment. Constructed entirely in high strength steel and available in no less than 3 different working widths of 3 - 3.5 - 4 m, it is ideal for tractors from 130 to 400 HP.



	K1 5-250	K1 7-300
Working width (mm)	2500	3000
Transport width (mm)	2416	2972
Tractor power (HP)	90-200	110-200
Working depth (mm)	500	500
Shanks (no.)	5	7
Weight with mechanical Franter roller M10 (Kg)	1310	1640
Weight with hydraulic Franter roller H10 (Kg)	1290	1630
Weight with hydraulic Franter roller H20 (Kg)	1450	1840

1 CRAKER OR ROCK SHANK

For optimal adaptation to working conditions, Alpego offers two different types of shank for this machine.

2 MECHANICAL SHEAR BOLT

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

3 HYDRAULIC SAFETY SYSTEM

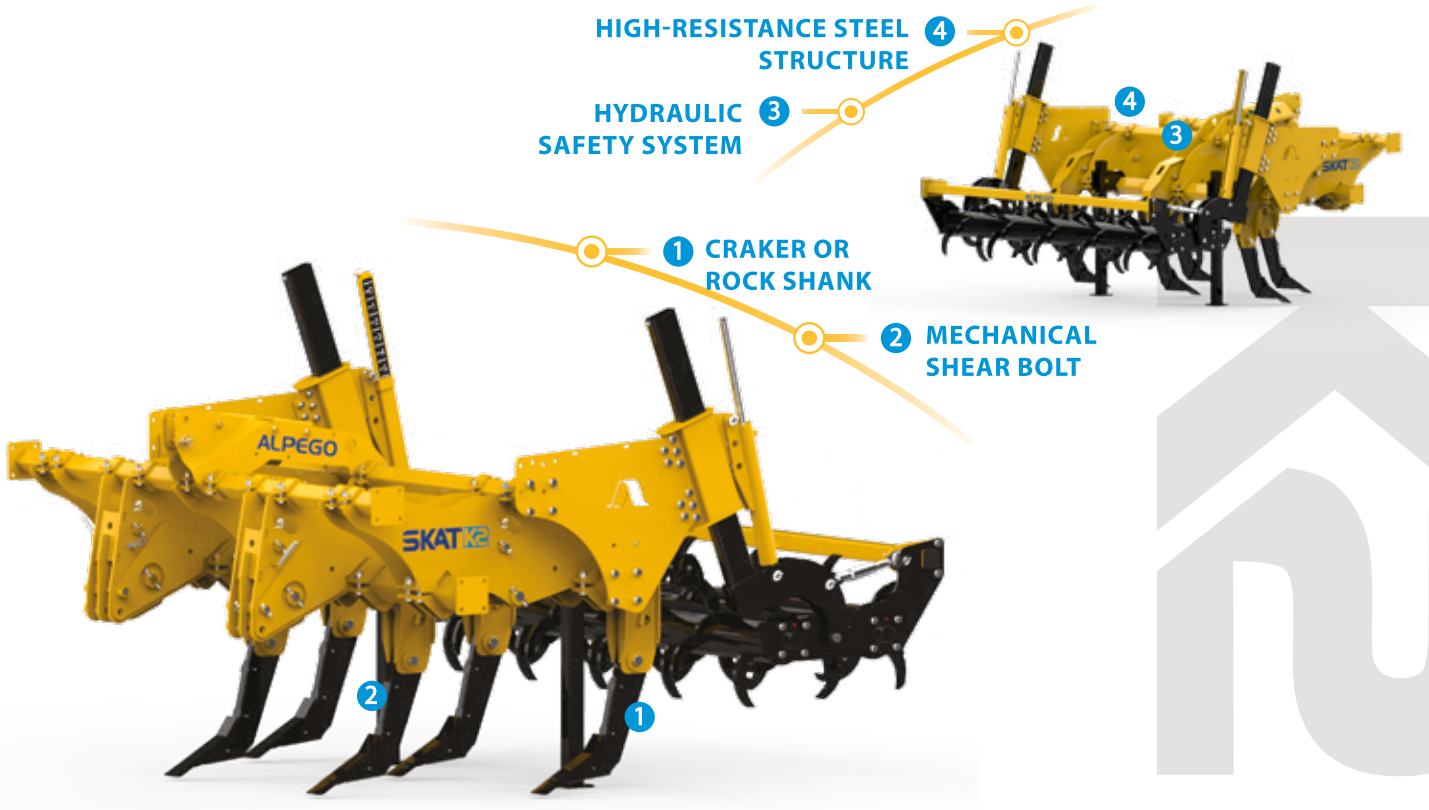
The system, comprising a nitrogen accumulator with regulator valve and a series of cylinders, one on each shank, enables the shanks to absorb shocks and stresses and return to place gradually, avoiding damage to the frame structure.

4 HIGH-RESISTANCE STEEL STRUCTURE

Frame made of high quality steel to ensure maximum resistance.

5 EQUIPMENT

Category2° linkage / TROFEO quick-fit ploughshares (Craker shanks only) or hardwearing Rock version ploughshares / Hardwearing shank guard



	K2 7-300	K2 7-350	K2 9-400
Working width (mm)	3000	3500	4000
Transport width (mm)	2972	3410	3906
Tractor power (HP)	150-400	155-400	200-400
Working depth (mm)	600	600	600
Shanks (no.)	7	7	9
Weight with hydraulic Franter roller H20 (Kg)	2370	2630	2770

1 CRAKER OR ROCK SHANK

For optimal adaptation to working conditions, Alpego offers two different types of shank for this machine.

2 MECHANICAL SHEAR BOLT

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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 HIGH-RESISTANCE STEEL STRUCTURE

Frame made of high quality steel to ensure maximum resistance.

5 EQUIPMENT

Category 3°/4°N and 3° USA linkage / TROFEO quick-fit ploughshares (Craker shanks only) or hardwearing Rock version ploughshares / Hardwearing shank guard

Choosing the options

The correct option for any situation

Foldable subsoilers
Mega Craker KX



CLOD-SHATTERING FINS



CLOD-SHATTERING FINS
ALFAST



DEK PLOUGHSHARE



PLUS PLOUGHSHARE



PAIR OF REAR WHEELS



NEW TELESCOPIC
CLOD-RESTRICTING SIDE
BOARDS



SOIL-RESTRAINING SIDE
PLATES



REFLECTIVE SIDE TABLES
AND LIGHTS KIT

Accessories and rollers	K-DYNO	K-EVO	K-FORCE	MEGA CRAKER KX	SKAT K1	SKAT K2
Clod-shattering fins		ALFAST	ALFAST			
DEK ploughshare		—	—			
PLUS ploughshare	TROFEO	ALFAST	ALFAST	TROFEO	TROFEO	TROFEO
Pair of rear wheels				—		
Telescopic clod-restricting side boards				—	—	—
Soil-restraining side plates	—	—	—			
Reflective side tables and lights kit						
Mechanic Franter roller M12			—	—	—	—
Hydraulic Franter roller H12			—	—	—	—
Hydraulic Franter roller H22	—			—	—	—
Hydraulic Franter roller H40	—	—	—		—	—
Hydraulic Franter roller H50	—	—		—	—	—
Cage roller G6	—	—		—	—	—
Disc roller DR6	—	—		—	—	—
Mechanic Franter roller M10	—	—	—	—		—
Hydraulic Franter roller H10	—	—	—	—		—
Hydraulic Franter roller H20	—	—	—	—		

 Option  Standard  Not available





Alpego S.p.a con Socio Unico
Via Giovanni e Giuseppe Cenzato, 9
36045 - Lonigo (VI) Italy
Tel: 0444 646100
Mail: info@alpego.com
www.alpego.com

010A00406 Depliant Ripuntatori GB
Rev.00 20/04/2021

RIGID POWER HARROWS

40 - 320 HP



FOLDABLE 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



MULCHERS

40-160 HP



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