

The best soil

 **PÖTTINGER**

For optimising your yield



For optimising your yield



Soil is key in terms of ensuring food production and the well-being of society. It is the basis for agriculture and forestry, it is also one of the world's most important, yet limited resources.

Soil is the essence of our life since it provides the basis for high quality nutrition for us and our livestock. Healthy soil is one of the key provisions for optimising your yield.

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Focussing on soil health



Expert opinions



Prof. Dr. Yves Reckleben
Professor of Agricultural
Engineering

"Due to advancements in seed breeding, the yield level of cereals is reaching its limit. The potential lies in tillage and sowing technology."



Prof. Dr. Thomas Ebertseder
Professor of Crop Production

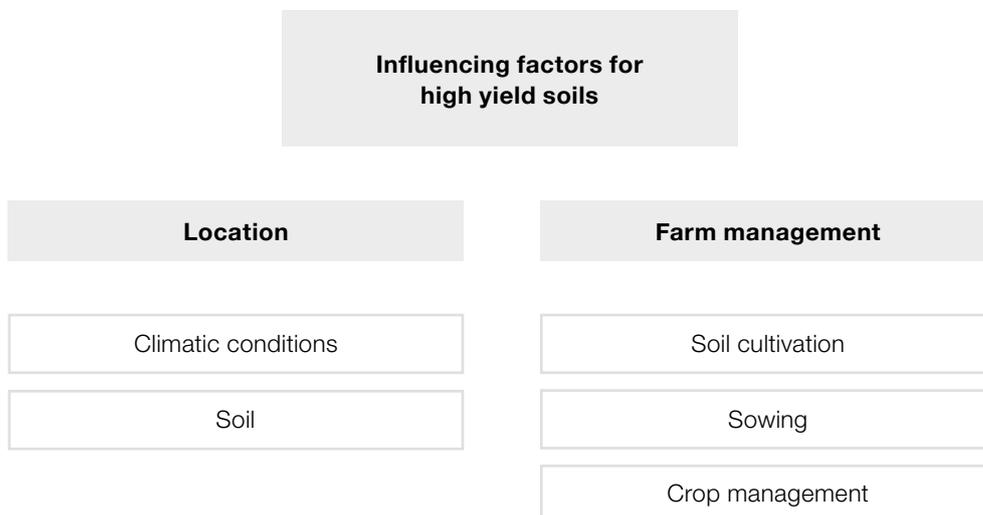
"The increasing weather extremes and especially pronounced dry phases require reduced tillage that saves water. Due to the slower decomposition rate of straw, this also present major challenges to seed drill technology."

Success factors for the best soil



The location

Part of the success of a farming business depends purely on its location. The achievable yield is a result of precipitation, climate and soil quality. Each location has its own climatic characteristics, which farmers are able to turn to their advantage with some ingenious farm management.



Healthy soil is no coincidence



Farm management

How well you manage, plan and make decisions, influences your soil and consequently the potential return you can create.

Soil cultivation

Your soil is where the plant is located and is therefore a key success factor in arable farming. Site specific soil cultivation is therefore essential. By applying different forms of soil cultivation, the farmer actively influences the soil structure. The clean incorporation of harvest residues and uniform mixing of the soil as well as good quality tilth are the aims of soil cultivation.

Sowing

There are many factors involved in sowing. The optimum sowing time depends on the type of plant, the duration of sunshine, and temperature. These factors influence, among other things, the choice of variety in crop production and crop rotation. Only exact and uniform seed placement combined with optimum covering of the seed guarantees homogeneous seed germination.

Crop management

In order to ideally support the plant, phytosanitary measures and fertiliser need to be taken into consideration.

Improving yield



Advanced working methods



Optimum ground tracking

Optimum ground tracking is an essential part of soil cultivation. Maintaining the working depth as well as optimum consolidation and levelling are essential for ideal soil cultivation. PÖTTINGER meets these requirements with its range of machines.

Incorporate harvest residues uniformly

Our stubble cultivators and disc harrows with large clearances ensure blockage-free operation. The result is a smooth, level and uniform surface. That is how you create the perfect conditions for seedbed preparation.

Reduce passes

Driving over the field frequently harms and stresses the soil. Combining working steps reduces the number of passes. We solve this with machines such as our TERRADISC MULTILINE compact disc harrow, our implement-mounted VITASEM seed drill together with the LION power harrow and our TERRASEM mulch seed drill.

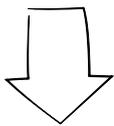
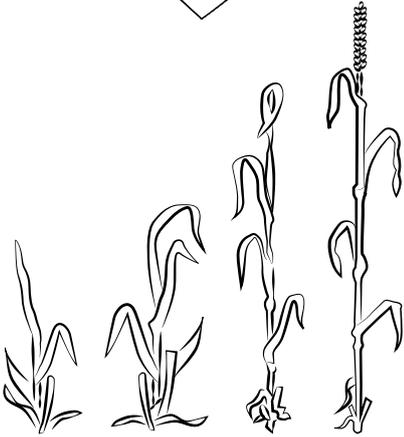
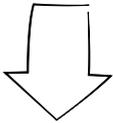
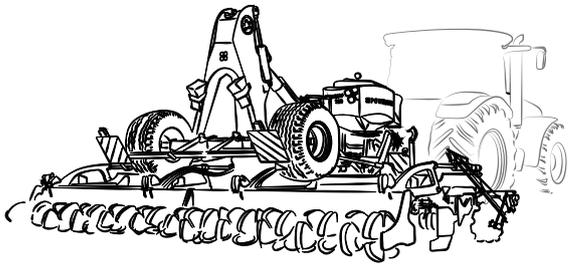
Our recommendation:

Our trailed machines ensure ground pressure is spread evenly across the soil.

Choosing the right tyres for the tractor as well as matching the tyre pressures to the load, tare weight and driving speed of the farm machinery conserves the soil; lower tyre pressures mean wider tyres and a larger surface contact area with the soil for more even weight distribution.

Best soil - best seed





Reduce passes

- + Conserves soil
 - + Optimum ground tracking
 - + Uniform depth
 - + Incorporate harvest residues uniformly
 - + Perfect crumbling effect
 - + Levelling and consolidation
 - + Optimisation of soil moisture
 - + Seedbed: as fine as necessary,
as coarse as possible
 - + Best sowing conditions
 - + Best sowing quality
 - + Homogeneous seed germination
 - + Uniform crop growth
 - + Reduced spraying
 - + Higher yields
-
- = More profit

Perfect incorporation



COST EFFECTIVENESS

Save fuel

The TRACTION CONTROL system transfers the weight of the plough to the tractor.

Force is then applied as a permanent load to the rear wheels of the tractor. Wheel slip is reduced as a result, saving you fuel while protecting the soil.

Likewise, an optimum pulling point adjustment system generates less landside pressure and therefore less wear. Again, you reduce your fuel consumption.

Extended service life with PÖTTINGER Original Parts

Our DURASTAR Premium wear parts offer impressive performance with special carbonizing and armouring. As a result, you benefit from extended service and longer replacement intervals.

Reliability

Ploughs with real backbone

Our ploughs stand for high strength and durability under high loads.

The reinforcement bars inside the box section beam and the beam link ensure high strength and uniform distribution of forces.

Cultivation using a plough achieves a clean finish that is free of residual materials. Inverting the soil also incorporates fertiliser, harvest residues and volunteers. Ploughing arable land makes an important contribution to weed control whilst fighting pests and disease.



Testimonial: H. Olivier Gabriel von Buschwiller, France

"Having purchased my SERVO 45 S PLUS in 2012, I have come to particularly appreciate the innovative spirit of PÖTTINGER. Their ploughs with TRACTION CONTROL achieve a constant load on the rear axle of the tractor, I would recommend this equipment for every plough. I am also very satisfied with the quality of the wear parts, the price/performance ratio is right. I would always recommend PÖTTINGER machines to my neighbours."

Safety at work

Tidy results

Your aim when ploughing is to ensure complete incorporation of the organic residues.

Our mouldboards and skimmers offer impressive strength and reliability. We offer different versions to suit your soil types. That is how you achieve the best possible result.

Convenience

SERVOMATIC

Quick adjustment of your plough

Front furrow width and pulling point are adjusted separately with ease and precision. The two functions do not influence each other. No compensation or re-adjustment is required, a few simple adjustments and the plough is set correctly the first time. This saves you time and avoids costly errors.

Airing the soil



Cost-effectiveness

For an extended service life

The high-quality coating of the DURASTAR points and wings ensures a significantly longer service life. High-quality steel and tungsten carbide for the DURASTAR PLUS points extend the service life up to six times. That saves money and time.

High output

Our SYNKRO cultivator models deliver as promised in the field.

In a single pass:

- SYNKRO TEGOSEM cover crop sowing unit
- SYNKRO MULTILINE stubble cultivator with mounted seed drill

Reliability

Reliable operation thanks to NOVA overload protection

The NOVA overload protection system is equipped with newly developed horizontal coil springs. When obstacles are encountered, uninterrupted working is guaranteed by safe tripping and the large movement arc, leaving large stones and rocks in place. This protects both the cultivator and tractor thanks to the cultivators high clearance frame.

Efficient cultivation

Being able to adjust the height and angle of the points and wings ensures optimum penetration and excellent mixing performance.

Stubble cultivators

The mixing in of residue from the harvest increases the fertility of the soil and protects from erosion. The capillary effect is interrupted by the stubble cultivator to retain moisture. Our SYNKRO stubble cultivators are available in two and three-row versions. The choice of a wide range of rear rollers create ideal germination conditions for volunteers and weeds.



Testimonial: The Gassner Family, Bad Kreuzen, Austria

"We operate an organic farm with suckler cows and pig fattening with 20 hectares of grassland and 11 hectares of arable land. We were impressed with the SYNKRO 3020 stubble cultivator because we can use it in combination with the TEGOSEM cover crop sowing unit. The stubble cultivator is ruggedly built and produces very good working results. What convinced us was easy adjustment of the working depth of the SYNKRO"

Working results

Consistently level finish

The proven geometry of the points and wings on our SYNKRO stubble cultivators ensures good incorporation of harvest residues and organic matter. Intensive mixing of soil and straw is also guaranteed.

PÖTTINGER offers the right rear roller to match your operating conditions. You then achieve uniform levelling and perfect consolidation.

Convenience

Always the right working depth

Adjusting the depth using the rear roller enables the working depth to be adjusted quickly and easily using a straightforward pin-in-hole system. A hydraulic system is also available as an option. The adjustable edging boards ensure smooth joins between passes.

Revitalising the soil



Cost effectiveness

Low draft tillage

We have optimized the ratios between shape, size, angle and penetration of our discs. This enables you to work with a relatively low power requirement.

For an extended service life

The large diameter discs are made of heat-treated special steel for a long service life. You benefit from extended replacement intervals as a result.

Output

Our TERRADISC models deliver as promised in the field.

In a single pass:

- TERRADISC T TEGOSEM cover crop sowing unit
- TERRADISC MULTILINE compact disc harrow combined with seed drill

Reliability

Clever tillage tools

Our sealed, twin-race taper bearing hubs are completely maintenance-free.

The generously dimensioned discs have a diameter of 58 cm. The aggressive disc angle ensures reliable penetration and excellent mixing. A disc spacing of 12.5 cm guarantees reliable movement of the surface. A large clearance between the disc and clamping bracket means large quantities of organic matter can easily pass through.

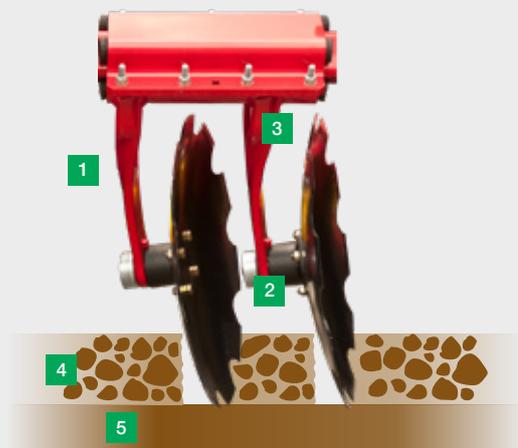
When obstacles are met, you are guaranteed uninterrupted operation due to the smooth movement of the rubber mounted disc assemblies.

Disc harrows

The TERRADISC compact disc harrow is designed specifically for stubble cultivation and seedbed preparation. The compact design and aggressive disc angle ensure reliable penetration and excellent mixing in of harvest residues.

Soil movement

- 1 Perfect soil entry thanks to aggressive disc angle
- 2 Blockage-free operation thanks to large clearances
- 3 Extended service life with tempered and forged parts
- 4 Worked soil – uniform and level finish following fully consistent movement of the soil
- 5 Unworked soil



Working results

Intensive mixing

The proven PÖTTINGER TWIN ARM system: two solid forged carrier arms are welded to a very wide clamping bracket. This ensures that the discs always retain their position and angle.

A uniform and level finish is achieved for both shallow as well as deep tillage. Our TWIN ARM system ensures perfect soil penetration. Intensive mixing of the soil takes place reliably even in hard, dry conditions with high levels of harvest trash.

Convenience

Easy work

Adjust the working depth hydraulically by using the rear rollers and swing clips. These are easily accessed from both sides of the machine without risk.

The edging discs on rigid models are folded away hydraulically for transport. .

Preparing the soil



Cost-effectiveness

Combined efficiently with seed drill technology

You can easily mount our VITASEM mechanical seed drill and AEROSEM pneumatic seed drill on our LION power harrows. The centre of gravity is positioned in front of the rear roller, extremely close to the tractor. The additional weight of the seed drill on the roller provides even better consolidation of the seedbed. Combining the LION with a seed drill results in a compact and short unit. The VITASEM mechanical seed drill is also available as an independent linkage-mounted version.

For an extended service life

Using the DURASTAR tines you can benefit from an up to 60 % longer service life thanks to a special coating.

Reliability

Anti-wrap protection for the tines

The forged, full-length tine carriers are an integrated design. This is the best solution to protect against crop wrapping around the tines. The tines actively work the soil away from the gear trough.

Reliability guaranteed: no stones can become trapped between the rotor and the gear trough.

The best tilth, excellent mixing and levelling are the basis for successful planting. A power harrow working together with a seed drill is a high output and cost-effective combination delivering perfect sowing results. PÖTTINGER offers you tailor-made systems for every type of soil and every size of operation.

The best crumbling effect

- 1** No stones can become trapped - the tine carrier is integrated into the casing
- 2** Worked soil
- 3** Unworked soil



Working results

Intensive crumbling

The tines on the LION power harrow are especially shaped for intensive crumbling and mixing.

The shape of the gear trough prevents stones from becoming trapped and directs the soil to flow between the tines.

You are guaranteed the best crumbling effect thanks to the interaction of the tines and the levelling board.

Convenience

Uniform seedbed

The rear levelling board is standard and is set automatically with the depth of the rear roller - no readjustment is necessary. Thanks to the linear movement of the roller frame, the gap between the tines and the levelling board is consistent over the whole working depth range. This ensures a uniform seedbed.

Fine tilth seedbed



Cost effectiveness

Fuel-saving seedbed preparation

Our FOX and FOX D compact combinations deliver low draft, fuel-saving seedbed preparation. Thanks to their compact and lightweight design, offering a low power requirement option.

Wear to the soil engaging parts and the maintenance required is very low. On the FOX D, the discs are mounted via rubber elements so that they can move when encountering stones or foreign objects. The spring tines on the FOX 300 are configured in two rows for a fine, crumbly tilth.

Reliability

The FOX with many talents

This lightweight linkage-mounted machine is ideal for use in light to medium soils with reasonable levels of harvest residues.

Combined with a seed drill, the FOX compact combination demonstrates yet another possibility. The result is a cost-effective sowing combination.

Compact combinations

Our FOX compact combinations are available with spring tines or discs (FOX D). Our compact combinations offer you low draft, fuel-saving seedbed preparation. Combined with a PÖTTINGER seed drill, this implement becomes a cost-effective seed drill combination.



Testimonial: Dawid Skrzypczak. Parzęczewo, Poland

"Our family farm breeds fattening cattle and I farm 55 hectares, most of it arable land. I have several PÖTTINGER machines on my farm and each one does a first class job. I have been working with the FOX D compact combination for more than 4 years. I really appreciate the very good seedbed preparation, consolidation and overall performance. My FOX is equipped with 410 mm diameter discs, the discs slices through, cutting and mixing perfectly, even with high levels of organic matter. The machines are smooth running and easy to operate.

Working results

Perfect incorporation

The adjustable spring tines and the rubber-mounted discs on the FOX D ensure a consistent working depth and perfect mixing of the soil.

Blockage-free operation is ensured by the frame height and the generous spacing between the gangs.

Convenience

Compact design

The compact and lightweight design of the FOX enables you to use it on its own with a working width of 3 metres with tractors starting from 75 hp.

Our compact combination is designed for efficiency. Either solo or in combination with an implement-mounted seed drill. It is also possible to integrate our compact combination into a slurry application rig.

Uniform seed placement



Cost effectiveness

All-round operation

Regardless of whether you are sowing large or small seeds, the 3 in 1 metering system enables completely flexible operation of the VITASEM.

The funnel-shaped outlets from the seed hopper ensure accurate seed flow right down to the last grain. As a result, only small residual quantities remain in the hopper. The unique metering funnel delivers a consistent flow of seed, regardless of the hopper level.

Reliability

Blockage-free sowing

A coulters row offset of 30 cm ensures blockage-free sowing, even if there is a lot of organic matter.

The large DUAL DISC coulters can cut right through surface trash with a coulters pressure of up to 50 kg, forming a uniform, clean seed slot. This works even with high levels of harvest trash during mulch drilling.

A coulters pressure of up to 25 kg is possible for single-disc coulters.

Thanks to the funnel-shaped outlets on the VITASEM, reliable seed placement in each seed slot is guaranteed even on inclines.

Mechanical seed drills

Our seed drills meet the highest demands in functionality, reliability and performance.

Unique metering systems, uniform seed placement and convenient operation are among the trademarks of our mechanical seed drills.



Working results

Uniform seed germination

Precision placement of the seed is obtained by forming a well defined seed slot and ensuring uniform depth of the seed.

The large diameter DUAL DISC coulters cut right through surface trash to form a uniform, tidy seed slot. The concave discs on the single disc coulters open up the soil. The cast coulters element on the inside clears the organic matter away from the seed slot. This ensures uniform seed germination.

Convenience

Easy operation

All VITASEM models feature straightforward calibration and easy adjustment. The coulters pressure can be adjusted centrally.

Our 3 in 1 metering system with two independent metering wheels avoids multiple adjustments. The metering gearbox is oil filled with infinite adjustment and offering smooth consistent operation.

Precision work



Cost effectiveness

Precise and reliable

IDS controls automatic seed rate reduction in the metering system during tramlining and half width switching. The seed rate is reduced accordingly and the excess seed is returned to the distributor head via a unique funnel system. A high volume fan supplies the necessary air flow between the standard metering system and the PCS.

Large selection: Suffolk coulters, single-disc coulters, DUAL DISC coulters, whilst press wheels control consolidation and working depth. DUAL DISC equipped AEROSEM models have offer separate coulters pressure and depth adjustment.

Thanks to PCS (Precision Combi Seeding) it is possible to combine standard drilling (cereals) and precision drilling (maize) in a single machine.

Reliability

Blockage-free sowing

A coulters row offset of 30 cm ensures blockage-free sowing, even if there is a lot of organic matter.

The large DUAL DISC coulters cut right through surface trash with a coulters pressure of up to 50 kg. They form a uniform, clean seed slot, even with high levels of harvest trash during mulch drilling.

A coulters pressure of up to 25 kg is possible for single-disc coulters.

Pneumatic seed drills

Our generation of pneumatic seed drills for drilling seed and single-seed placement. The unique AEROSEM seed drill concept unites the drilling of cereals and maize. Precision universal metering and perfect coulters systems guarantee exact placement of the seed.

Section Control – partial width switching

- IDS partial width section switching from a working width of 1 metre or 8 rows.
For 3.0 m and 12.5 cm – 3 width sections.
For 3.0 m and 15 cm – 2 width sections.
- Save seed
- Reduce overlap on wedge-shaped fields
- Uniform plant spacing where seed rows overlap



Working results

Precision drilling for the highest yields

IDS controls all outlets via the BUS system. This opens up completely new capabilities in coulters pipe and tramline switching. Choose any of the following: Row spacing, tramline width, track width, custom tramline, half width switching left and right.

Our advanced coulters systems form the basis for perfect germination conditions.

Convenience

Easy operation

The AEROSEM is mounted on the rear roller and is supported by a top link. As a result the packer roller and seed drill form a compact unit and enable parallel guidance of the machine. Changing the working depth of the power harrow can be done without making any further adjustment on the seed drill.

The infinitely adjustable seed metering gearbox is filled with high viscosity oil for smooth uniform seed flow, even at low speeds.

The optional electric metering system offers additional convenience with calibration performed at the press of a button using the seed library.

Perfect sowing



Cost effectiveness

Exact ground tracking

Because each drill unit is attached via a 3-point linkage to the packer frame, each unit is free to follow the ground contours in the direction of travel.

A four-way hinge between the coulter rail and the packer ensures precise ground tracking controlled by the movement of the packer.

The coulter arms are equal length on each coulter rail, ensuring exactly the same coulter pressure can be applied.

Direct fertilisation in a single pass

Using direct fertilisation enables you to apply fertiliser at the same time as the sowing the seed. This provides you with optimum growth conditions following germination of the seed with no nitrogen emission losses. The DUAL DISC precision coulter on the TERRASEM FERTILIZER deposits the fertiliser between the seed rows behind the disc harrow.

Reliability

Exact seed drilling

The TERRASEM metering system is designed for really precise seed distribution. It guarantees exact seed placement with different types of seed (from rape to maize), even in the most difficult working conditions, between 0.6 kg and 350 kg per hectare.

Low disturbance

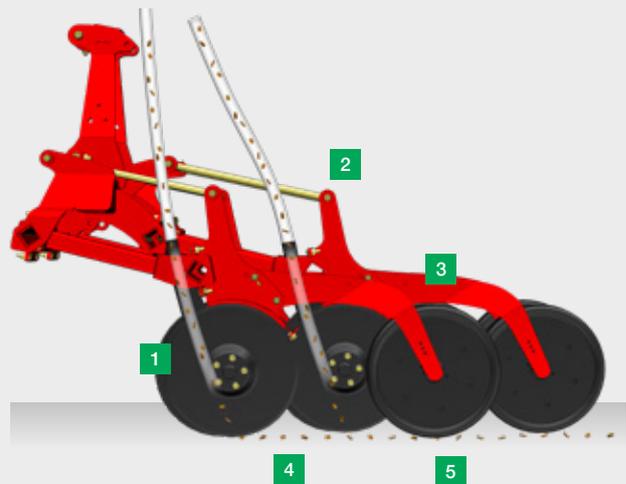
Our new low draft WAVE DISC is designed especially for low disturbance systems. The special geometry of this disc does not move the soil to the side, but instead loosens the soil in strips, which prevents smearing of the seed slot walls. A row spacing of 16.7 cm is recommended for regions with extremely heavy, wet and sticky soil conditions.

Mulch seed drills

Our TERRASEM mulch drilling concept combines soil preparation, consolidation and drilling in a single machine. The effective compact disc harrow or low disturbance WAVE DISC, the unique tyre packer and the perfect coulters ensure an optimum working result.

Uniform seed placement

- 1 Max. 120 kg pressure on all coulters
- 2 Parallel linkage for exact placement depth
- 3 Consistent coulters pressure thanks to equal-length coulters arms
- 4 Coulters rows offset by 320 mm for blockage-free operation
- 5 Exact depth control and consolidation



Working results

For the best consolidation

On TERRASEM mulch seed drills, soil preparation is taken care of by a two-gang disc harrow with smooth or scalloped discs. Our disc harrow works reliably on heavy soil even with large quantities of harvest trash. The wide mounting of the disc arm prevents the discs from moving sideways. That is how you obtain a consistently level surface.

The impressive tyre packer is fitted with 425 mm wide tyres.

Convenience

NONSTOP protection against stones

The discs are mounted on a thick-walled box section beam using rubber elements to enable the discs to ride over stones with two discs are located on each disc arm.

The twin race taper bearing hubs are sealed and completely maintenance-free.



More Success with PÖTTINGER

- A family-owned company since 1871.
Your reliable partner.
- Specialist for tillage, seed drills,
hay and harvesting machines.
- Future-safe innovation for outstanding working results.
- Roots in Austria - at home throughout the world.

Are you already looking after your soil?

- Soils are the essence of our life since they provide the basis for nutrition for us and our livestock.
- Healthy soil is one of the key provisions for optimising your yield.
- Trust in PÖTTINGER. Harvest success.

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