HOW DO YOU START WITH A MINI AND MAKE A...
MINI EXCAVATORS

WHAT DOES A GOOD MINI EXCAVATOR MEAN TODAY?
Very simple: the ability to reliably do more.

With these new models, you mini-excavate in XL format:
High digging forces, functional design, more room.
Schaeff offers two models in the 3.5 ton segment.
You have a choice between a machine width of only 1500 mm, which allows for a wide range of potential transport options, or a minimum tail overhang of only 60 mm. Both equipped with high performance genes.

TRADITION MEETS PROGRESS
The Schaeff philosophy – conventional construction, Knickmatik™ cylinder and top-mounted cylinder – was retained. A completely new machine was constructed around these elements, from high performance brand components to the new driver’s cab.

"MADE IN GERMANY"
Machine Engineering Made in Germany – this is our claim:
The XL mini excavators are completely designed and constructed in our plant in Crailsheim, Germany.
MINI CRAWLER EXCAVATORS

3.5 TONS

TC35-2:
- Machine width of 1500 mm for flexible transport options
- Also available with diesel particle filter (DPF)

TC37-2:
- Wide undercarriage for minimum tail overhang of only 60 mm

TC35-2:
- Design for outstanding stability
- Large, two-stage opening side panel offers good visibility and accessibility to the daily maintenance points
- Comfortable, roomy ROPS/TOPS-certified cabs on a standardized, modular operator station offer ideal access and all-around view protected from damage, air-conditioning optional

4.3 inch display for machine status and setting the auxiliary circuit flow rate

Bosch Rexroth LUDV (load independent flow sharing) hydraulics for excellent efficiency and digging performance

Large fuel tank for long operating times

Top-mounted cylinder on the boom protected from damage

TC37-2:
- Bosch Rexroth LUDV (load independent flow sharing) hydraulics for excellent efficiency and digging performance
Operating weight kg
Cab 3490  3470
Canopy 3570  3550
Engine power kW (hp) 22.8 (31.0) 22.8 (31.0)
Engine manufacturer Kubota D1803 M-DI, EU Stage IIIA Kubota D1803 M-DI, EU Stage IIIA
Max. digging depth m
Standard dipperstick 3.33 3.25
Long dipperstick 3.53 3.45

EQUIPMENT
• Machine width 1500 mm
• Digging equipment:
  Dipperstick 1600 mm standard
  Dipperstick 1800 mm optional
• Axial piston variable displacement pump:
Pump capacity 103 l/min
Working pressure 250 bar
• LUDV hydraulics
• Schaeff Fingertip Control
• 2 travel speeds (Auto 2-Speed)

EQUIPMENT
• Machine width 1750 mm
• Tail overhang 60 mm
• Digging equipment:
  Dipperstick 1600 mm standard
  Dipperstick 1800 mm optional
• Axial piston variable displacement pump:
Pump capacity 103 l/min
Working pressure 250 bar
• LUDV hydraulics
• Schaeff Fingertip Control
• 2 travel speeds (Auto 2-Speed)
HOW DOES A PRODUCTIVE MACHINE COME INTO BEING?

Very simple: combine high-performance components with good ideas.

ENGINE AND HYDRAULIC SYSTEM

Compared to current competitors’ models, the mini excavator offers an average 20 % more work capacity, for example, when quickly digging trenches. The LUDV (load independent flow sharing) hydraulics is offered by only a few models in this class. Even for extreme grounds, the bucket digs in powerfully and is completely filled.

ADDITIONAL CONTROL CIRCUIT WITH SCHAEFF FINGERTIP CONTROL

For precise operation of attachment tools, the first electrically proportional additional control circuit comes as standard. With the Schaeff Fingertip Control, the actuation of the hydraulic functions is extremely simple with a thumb wheel on the joystick. With it, the operator can precisely regulate the oil flow from “min.” to “max.”, an advantage when controlling the attachment devices such as clamshell buckets or swing buckets. Also available for second control circuit on left joystick.

SCHAEFF KNICKMATIK®

The Schaeff Knickmatik® with adjustable articulated boom system is ideal for working along walls or embankments. The total articulation angle is an impressive 120°. The swing cylinder does not project over the track and so is protected from damage.

CRAWLER UNIT

Rubber track 300 mm with 4 track rollers at the bottom and 1 support roller on top. Two-stage automatically switching travel drive (Auto 2-Speed).
HOW CAN PERFORMANCE BE INCREASED SEPARATELY FROM TECHNOLOGY?

Very simple: with a workplace that makes the driver better.

**ROOMY CAB**

The new XL cab (ROPS/TOPS-certified) offers room and comfort like the “big ones”. For quick entry, the console can be raised for more space to get in the cab. The footwell offers place enough – even for shoe sizes 15 and larger. In general, the workplace can be individually arranged to the size of the driver. The generous glass surfaces allow optimal visibility of the attachment tools and the work environment. Quick change of cab to canopy.

**Canopy version**

The machines are also available in canopy versions. With safety equipment such as the lockable storage compartment.
XL EASE OF USE

WHAT DOES USER-FRIENDLY MEAN?
Very simple: the combination of intuitive control and safe working.

WELL PROTECTED
With Schaeff-specific construction features, damage is avoided right from the start: Because of the upper position of the top-mounted cylinder, no damage will occur, for example, if there is contact with the bucket or between the piston rod and the loading edge when loading trucks. The Knickmatik™ cylinder was deliberately placed on the left so it is protected from damage in case of a collision. The boom can be swiveted to both sides at fill digging depth.

HYDRAULIC HOSES
The hydraulics on the working device are well protected by the boom, or are located very closely along the boom.

TRANSPORT
Because of the automatic swing brake, locking the upper carriage for transport is impossible to forget.

ERGONOMICS
Particular focus was placed on ergonomics in all models; for example, the blade lever offers an integrated travel speed controller (regardless of this, the travel speed is automatically controlled – Auto 2-speed). This feature makes leveling and digging much easier.

DISPLAY
4.3” display with tank level, operating hour counter, temperature display and hydraulic pressure setting. An optical signal for faulty functions.
WHAT DOES DAILY SERVICE COME DOWN TO?

Very simple: minimizing time and effort.

Downtimes and service costs are reduced overall. To save time during daily service, easy access and combined service points are key elements.

The two-piece engine hood opens upward widely so daily inspection points are directly accessible or can be monitored through gauge glasses or, on most models, are already visible from outside. Direct fueling from canisters is easily possible at working height. The fuel tank has an ample capacity of 68 l. All locks (including the ignition) can be operated with just one central key.
HIGH STANDARD

RIGHT FROM THE START, INSIDE AND OUT

ENGINE / FUEL SYSTEM
- Efficient direct injection diesel engine
- Hydromounts for diesel engine for optimum sound and vibration insulation
- Air filter with safety cartridge
- Fuel filling ports at working height

SAFETY CAB
- ROPS (Roll-Over Protective Structure)
- TOPS (TIP-Over Protective Structure)
- Weight-dependent adjustable comfort seat
- Safety belt
- Hydraulic pilot control with adjustable handrests
- Cab heating with windshield defroster
- Front windshield opening system with gas-dampened support
- Battery main switch
- 12 V connection
- Cabling for loudspeakers and antenna, radio plug-in compartment
- Side mirror
- Accelerator pedals
- Stow and store possibilities for tools, mobile phone and beverages

UNDERCARRIAGE
- Auto 2-Speed
- Rubber track 300 mm
- 4 track rollers at the bottom, 1 support roller on top
- Automatic swing brake (transport security)

HYDRAULIC SYSTEM
- LUDV (load independent flow sharing)
- Pressure accumulator for emergency lowering
- Straight-ahead driving function
- Automatic swing brake (transport security)

SAFETY SYSTEM
- Engine safe-start device in left control console

WORK EQUIPMENT
- Additional control circuit up to end of dipperstick
- Cab/canopy-mounted working floodlight
- LUDV (load independent flow sharing) hydraulics

SAFETY CAB
- ROPS (Roll-Over Protective Structure)
- TOPS (TIP-Over Protective Structure)
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- Stow and store possibilities for tools, mobile phone and beverages

CANOPY
- ROPS (Roll-Over Protective Structure)
- TOPS (TIP-Over Protective Structure)
- FOPS as standard
- Weight-dependent adjustable comfort seat
- Safety belt
- Hydraulic pilot control with adjustable handrests
- 12 V connection
- Accelerator pedals
- Lockable storage compartment under the operator’s seat
- Stow and store possibilities for tools, mobile phone and beverages

GOOD OPTIONS

OPTIMIZE YOUR MINI EXCAVATOR FOR USE

- Crane loading wire-rope harness
- Weatherproof roof
- Prepared installation for radio plug-in module (radio plug-in compartment, antenna, 2 loudspeakers)
- Theft prevention system
- Switches and cabling for rotating beacon
- Additional work headlight and rotating beacon
- Load hook
- Load-retaining valve
- Bio-degradable hydraulic oil
- FOPS and front guard
- Fire extinguisher
- Travel motion alarm
- Auto idle
- Float position dozer blade
- DPF (diesel particle filter) – only TC 35-2
- Air-conditioning
- Electric refueling pump
- Control circuit, hydraulic quick-attach system
- 2nd additional control circuit, electrically proportional
- Comfort seats
- Overload warning device
- Large range of buckets and quick-attach systems
- Special color options
- Brand-It labeling service

… further optional equipment available on request.
THE SCHAEFF ADVANTAGE

HOW DOES A MINI EXCAVATOR FIND ITS PLACE AT YOUR COMPANY?

Very simple: with our additional services.

PAINTING SERVICE — STATE YOUR COLORS
So one matches the other: we paint with exactly your company colors.

BrandIt* — THE SERVICE FOR YOUR LOGO ON THE MACHINE.
At Schaeff, your company takes a prominent place. Our engine hoods offer plenty of room for your logo and therefore, your market entry. As desired, with our support. Talk about our BrandIt* service with your Schaeff partner.
FACTORY-TESTED SPARE PARTS

WHAT KEEPS YOUR SCHAEFF MINI EXCAVATOR READY TO OPERATE OVER THE LONG TERM?

Very simple: the original.

Schaeff spare parts ensure sustainable performance and efficiency for your machine. Order processing and service are fast: Schaeff dealers can order over 100,000 parts, from safety belts and control components to axles and filter elements. More than 95% of the parts are shipped within 24 hours.

Contact your local Schaeff partner. There you will find further information and can order factory-tested spare parts.

Manufacturing compact construction machines is our competence and our great passion. We have dedicated ourselves to this task for over 75 years – over 30 of them at our Crailsheim, Germany, location.

Our ideas have written the history of construction machines; for instance, the Knickmatik® or the top-mounted cylinder. And still today, our expertise determines the market. Our great skill also pays off for our customers: through extremely productive and reliable construction machines.

COMPACT PORTFOLIO

MADE IN CRAILSHEIM

Mini crawler excavators
15 models. Operating weights from 1.5 to 5.0 tons

Midi crawler excavators
4 models. Operating weights from 5.65 to 12.5 tons

Compact wheeled excavators
3 models. Operating weights from 7.4 to 11.0 tons

Compact wheel loaders
5 models, bucket capacities from 0.5 to 1.8 cubic meters
**ELECTRICAL SYSTEM**
- Nominal voltage: 12 V
- Battery: 12 V / 71 Ah
- Generator: 12 V / 40 A
- Starter: 2.0 kW
- Lighting system: 1 work light front left on the cab / canopy (auxiliary headlamps optional)
- Cold-starting aid: Glow plugs

**TRANSMISSION**
- Two-stage hydrostatic travel drive with axial piston variable displacement motor and reduction gear, fully enclosed. Automatic change-over between speed range I and II. "Straight-Travel" function.
- Brake valve for downhill drive. Manual switching via button on dozer lever
- Travel speed, forward and reverse: 0 – 2.4/4.2 kph

**ENGINE**
- Manufacturer, model: Kubota, D1803 M-DI, EU Stage IIIA
- Type: 3-cylinder diesel engine
- Combustion: 4-stroke cycle with direct fuel injection (DI)
- Bore x stroke: 87 x 102 mm
- Displacement: 1826 cm³
- Power rating acc. to ISO 14396 @ 2200 rpm: 22.8 kW (31.0 HP)
- Torque max. @ 1400 rpm: 114 Nm
- Air filter with safety cartridge and maintenance switch

**DOZER BLADE**
- Independent of drive train, sensitive control via separate hand lever
- Width x height: 1500 x 360 mm
- Dozer cut below ground: 300 mm
- Dozer lift above ground: 430 mm
- Slope angle: 35°

**SWING SYSTEM**
- Internally geared ring gear
- Swing speed: 0 – 9 rpm

**SWING BRAKE**
- Hydrostatic drive, also acts as wear-resistant brake. Additional spring-loaded multi-disc brake. Considered as transport security

**FLUID CAPACITIES**
- Fuel tank: 68 l
- Hydraulic system (incl. tank): 45 l

**KNICKMATIK®**
- Lateral parallel adjustment of boom arrangement at full dig depth
- Angle of articulation / lateral adjustment left: 57° / 400 mm
- Angle of articulation / lateral adjustment right: 60° / 570 mm

**OPERATING DATA, STANDARD EQUIPMENT**
- Operating weight according to ISO 6016: Cab with 400 mm bucket, quick-attach system, rubber tracks, including driver, full fuel tank: 3570 kg
- Operating weight according to ISO 6016: Canopy with 400 mm bucket, quick-attach system, rubber tracks, including driver, full fuel tank: 3490 kg
- Transport weight: Cab, tank half full, with quick-attach system, w/out bucket: 3360 kg
- Transport weight: Canopy, tank half full, with quick-attach system, w/out bucket: 3280 kg
- Total length (travel position): 3150 mm
- Total length (trailer transport position): 5004 mm
- Total height (top of canopy/cab): 2482 / 2500 mm
- Total height (travel position): 3570 mm
- Total width (undercarriage): 1500 mm
- Total length of uppercarriage: 1500 mm
- Uppercarriage tail swing: 1295 mm
- Uppercarriage front swing: 1595 mm
- Working envelope, bucket heaped (also with 600 mm bucket):
  - 180°: 2890 mm
  - 360°: 3190 mm
- Swing clearance: 550 mm
- Reach max.: 5365 / 5575* mm
- Digging depth max.: 3335 /3535* mm
- Loading height approx.: 3200 / 3390* mm
- Highest reachable height: 4675 / 4775* mm
- Bucket rotation angle: 187°
- Bucket digging force acc. to ISO 6015:
  - 25,700 N
- Stick digging force acc. to ISO 6015:
  - 15,700 N
- Specific ground pressure:
  - Excavator cpl. with rubber crawlers: 0.29 daN/cm²
  - * with dipperstick 1800 mm (optional)
- ** Dimensions apply to machine standing on level ground, but can be increased by tilting the machine using the blade.

**UNDERCARRIAGE**
- Torsion-proof welded design. Crawler unit carriers in sloped design for dirt outlet. Maintenance-free crawler-type undercarriage. Idler suspension with hydraulic crawler-chain tensioning. Support roller at the top
- Width rubber tracks: 300 mm
- Total length (undercarriage): 2090 mm
- Number of rollers per side: 4 at the bottom, 1 on top
- Track width: 1200 mm
- Gradeability: max. 60%
- Drawbar pull 1st / 2nd speed range: 3560 / 2110 daN

**STEERING**
- Independent individual control of crawler chains, also counterwise. Sensitive actuation via manual levers, combined with pedals, foot rest on pedal console

**SPECIFICATIONS**
HYDRAULIC SYSTEM

Pump capacity, max. 103 l/min
Working pressure 250 bar
Single-stage, load-sensing controlled variable displacement axial piston pump
LS-control and load independent flow distribution (LIFD) for all working movements and travel drive
Simultaneous independent control of all functions
All excavator movements servo-controlled, ISO
All functions are proportionally controllable
Powerful hydraulic oil cooler
Full flow filtration through return filter
Cylinders for boom, dipper arm and articulation with end position damping at both ends
Bucket retract function with end-position damping
Additional control circuit as standard: Schaeff ‘Fingertip’ control (electro proportional) for additional control circuit for work attachments on right joystick, including holding function for continuous operation, actuation via rollers
Additional control circuit with bypass for pressure-reduced return quantity

Hydraulic power to the couplings (additional control circuit 1):

<table>
<thead>
<tr>
<th>P in bar</th>
<th>Q [lpm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to approx. 100 bar</td>
<td>62 lpm</td>
</tr>
<tr>
<td>@ 210 bar</td>
<td>20 lpm</td>
</tr>
<tr>
<td>Max. working pressure</td>
<td>210 bar</td>
</tr>
</tbody>
</table>

Diagram shows P/Q provided on couplers:

P/Q characteristic curve for additional control circuit 1

TC35-2

CAB (STANDARD)

Spacious, sound-insulated full-vision steel cab, FOPS*** (acc. to ISO 3449), ROPS and TOPS (acc. to ISO 12117) certified
Very good all-round visibility, lean vertical support members
Safety glass
Front window supported by pneumatic springs, slideable under cab roof
Fixed window part without frame which obstructs the forward view
Door with large access on left hand side
Foldable console on left hand side for large entry access
Sliding window on right-hand side
Matching locks of head and ignition
Central connector for electrical cable
Wiper washer with wiper for windshield
Sun visor, interior light, coat hook
Operator’s seat (standard version), imitation leather:
Longitudinal and back tilt adjustment
Continuous weight adjustment as per operators weight
Safety belt
Armrests height adjustable without tools
Preparation for antenna, loudspeakers and radio
Large storage compartment under the operator’s seat
Heating (water) with 2-speed fan and 4 adjustable exhaust nozzles
Temperature controller in cab
Storage pocket behind the operator’s seat
Storage compartment for mobile phone (near 12V outlet)
1 left-hand outside rear-view mirror, foldable in front of windshield
1 working floodlight front left
FOPS (acc. to ISO 3449), ROPS and TOPS (acc. to ISO 12117) certified
Operator’s seat (standard version), imitation leather:
Safety belt
Large storage compartment under the operator’s seat
Storage pocket behind the operator’s seat
Display, fuel gauge, hour meter and warning lights
Very good ergonomics
Ergonomically arranged dozer blade lever
Fast / slow switch on dozer blade lever
Yellow beacon, radio, immobilizer (anti-theft device), working floodlights prepared for optional installation
*** FOPS-approved only with skylight guard (optional)

CANOPY

Robust steel pipe construction. 4 support members for the best all-round visibility
1 working floodlight front left
FOPS (acc. to ISO 3449), ROPS and TOPS (acc. to ISO 12117) certified
Operator’s seat (standard version), imitation leather:
Safety belt
Large storage compartment under the operator’s seat
Storage pocket behind the operator’s seat
Display, fuel gauge, hour meter and warning lights
Easy and quick change of cab to canopy and vice-versa
Yellow beacon, radio, immobilizer (anti-theft device), working floodlights prepared for optional installation
Reduction weight canopy 80 kg

CRANE TRANSPORT

Crane lifting beam for cab and canopy

SOUND LEVEL VALUES

Noise emission ambience L_{eq, cab / canopy} 95 / 95 dB (A)
Noise emission cab L_{Aeq, cab / canopy} 78 / 79 dB (A)
Sound level values measured in compliance with Directive 2000/14/EC and EN474.

VIBRATION VALUES

Effective values of acceleration for whole body less than 0.5 m/s²
Effective values of acceleration for hand-arm less than 2.5 m/s²
Vibration values in compliance with Directive 2006/42/EC and EN474
DIMENSIONS

Fig. 1, 2:
Excavation within the entire width of the machine

Fig. 3:
Working envelope
**LIFTING CAPACITIES**

<table>
<thead>
<tr>
<th>Bucket hinge height</th>
<th>Dipperstick 1600 mm</th>
<th>Load radius from center of ring gear</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.0 m</td>
<td>2.5 m</td>
</tr>
<tr>
<td>2.0 m</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>1.0 m</td>
<td>– 1.40</td>
<td>1.77 1.01</td>
</tr>
<tr>
<td>0.0 m</td>
<td>– 1.30</td>
<td>1.81 0.93</td>
</tr>
</tbody>
</table>

<table>
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<th>Bucket hinge height</th>
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<td>–</td>
<td>–</td>
</tr>
<tr>
<td>1.0 m</td>
<td>– 1.37</td>
<td>1.77 1.01</td>
</tr>
<tr>
<td>0.0 m</td>
<td>– 1.20</td>
<td>1.97 0.91</td>
</tr>
</tbody>
</table>

All values in tons (t) were determined acc. to ISO 10567 and include a stability factor of 1.33 or 87% of the hydraulic lifting capacity. All values were determined with quick-attach system but without bucket.

In case of mounted-on work attachments, the deadweights of the work attachments must be deducted from the permissible operating loads.

Working equipment: Rubber tracks

**WORK ATTACHMENTS**

**BUCKETS**

- Bucket, QAS 300 mm wide, capacity 54 l, 67 kg
- Bucket, QAS 400 mm wide, capacity 78 l, 78 kg
- Bucket, QAS 500 mm wide, capacity 103 l, 89 kg
- Bucket, QAS 600 mm wide, capacity 129 l, 98 kg
- Bucket, QAS 700 mm wide, capacity 155 l, 109 kg
- Ditch-cleaning bucket, QAS 1000 mm wide, capacity 145 l, 135 kg
- Ditch-cleaning bucket, QAS 1300 mm wide, capacity 191 l, 164 kg
- Swing bucket, QAS 1000 mm wide, capacity 145 l, 194 kg
- Swing bucket, QAS 1300 mm wide, capacity 191 l, 229 kg

**GRABS**

- Clamshell grab GL 1250, grab swing brake, set of shells 250 mm wide, capacity 45 l
- Clamshell grab GL 1350, grab swing brake, set of shells 350 mm wide, capacity 65 l
- Clamshell grab GL 1450, grab swing brake, set of shells 450 mm wide, capacity 85 l
- Clamshell grab GL 1600, grab swing brake, set of shells 600 mm wide, capacity 115 l

**EJECTOR**

- Ripper tooth / QAS (1 tooth) Cutting unit
- Hydraulic hammer Quick-change adapter for hydraulic hammer
- Augers Bolt-on load hook for bucket rod

**OTHER WORK ATTACHMENTS**

- Load hook integrated in quick-attach system
- Further work attachments available on request
## OPTIONAL EQUIPMENT

### BOOM OPTIONS
- Monobloc boom, with extended dipperstick 1800 mm

### HYDRAULIC SYSTEM
- Schaeff 'Fingertip' control (electro proportional) for 2nd additional control circuit for work attachments on left joystick, actuation via rollers (boom with standard dipperstick)
- Quick couplings for work attachments
- Quick couplings for supplementary set “Clamshell grab opening/closing”
- Hose-rupture / load-retaining valve for boom
- Float position - front dozer blade
- Supplementary set “Clamshell grab opening / closing”, for standard dipperstick
- Biodegradable hydraulic oil / ester-based HLP 68 (Panolin)
- Hose-rupture / load-retaining valve for dipperstick

### OPERATOR’S STAND
- Operator’s seat (comfort version), hydraulic damping, extra-high backrest, longitudinal-horizontal suspension, mechanical lumbar support
- Operator’s seat (premium version), air damping, extra-high backrest, longitudinal-horizontal suspension, seat and backrest heating, mechanical lumbar support

### CAB
- Rain guard
- Lighting package: Cab-mounted working floodlight front right and rear right, boom-mounted working floodlight, yellow beacon
- Fire extinguisher, ABC powder 2 kg
- Back-up alarm, signal-horn (can be switched off)
- Air-conditioning
- FOPS - skylight guard
- Radio set installation kit
- Guard for front window
- Guard for front window

### OTHER OPTIONAL EQUIPMENT
- Mechanical quick-attach system
- Quick-attach system, mechanical (genuine Lehnhoff system), type MS03
- Canopy with working floodlight (weight reduction: 80 kg)
- Immobilizer
- Crane loading wire-rope harness
- Biodegradable hydraulic oil / ester-based HLP 68 (Panolin)
- Safety package: hose-rupture / load-retaining valves for boom and dipperstick cylinders, fire extinguisher, immobilizer, motion alarm
- Electric refueling pump
- Further optional equipment available on request
- Battery master switch
- Special colour options

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**Schaeff**, a Yanmar brand

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