



WATERKING
DREDGING EQUIPMENT HOLLAND

AMPHIBIOUS EXCAVATORS



ROAD TRANSPORTABLE
HIGH QUALITY EQUIPMENT
THE BEST ADVICE FOR YOUR PROJECT
EQUIPPED WITH THE LATEST INNOVATIONS



WATERKING EQUIPMENT
Dutch roots and glory

THE WATERKING VISION

“What initially started as a passion, has since grown into an innovative company. Quality, service and many years of experience. New ideas, technology and solutions. Nothing is impossible because ingenuity is one of our strengths. Waterking – unique in pushing the boundaries”

INNOVATION DRIVEN BY PASSION AND KNOWLEDGE ABOUT DREDGING

What others deemed impossible, we saw opportunities to create an amphibious excavator with greater freedom of movement and higher capacity. Since its development, Waterking excavators have set the benchmark for the next generation of amphibious machines.

The first Waterking machine was built in 2006. Since 2010, Waterking has been a full-service global organisation in the field of amphibious equipment, dredging equipment and dredging solutions. With more than 25 years of experience, Waterking commands a leading position in the market. Spectacular growth over the past decade means Waterking became a global manufacturer. With our very skilled and highly motivated team we work with great passion and precision.

Our in-house rental fleet plays an important role in our continuous development. We test in areas of performance, efficiency and safety. We always strive for improvements and try to maximise the quality of our products.

Continuous optimisation means Waterking machines are always a step ahead of the latest technical developments. All amphibious excavators and parts comply with applicable emission norms and have been constructed in accordance with the Machine guidelines (2006/42/EC).

“Waterking, always one step ahead in a world where innovation matters”





MACHINES THAT HAVE BEEN DEVELOPED TO OPERATE IN POOR LOAD-BEARING AREAS



AMPHIBIOUS EXCAVATOR RANGE

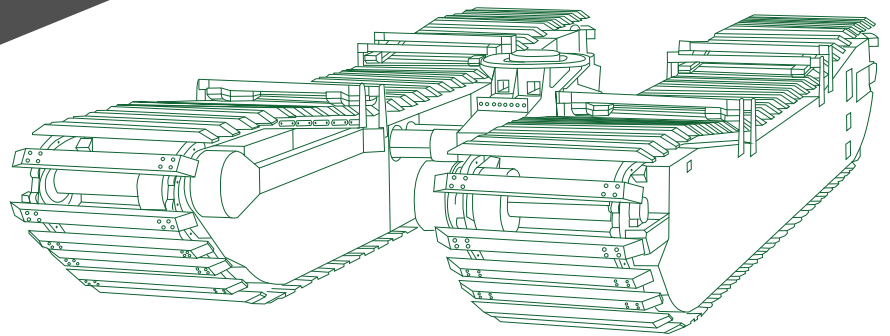
The machines have been developed to operate in poor load-bearing areas. The undercarriage is designed and built to have maximum buoyancy and low ground pressure. The low ground pressure ensures that the surface will have limited damage. Other than that the amphibious excavator can be built with a new or used upper structure of choice. It is also possible to purchase only the undercarriage (this consists two pontoons and a mounting frame).

Waterking is a front-runner in amphibious equipment. All machines are durable, safe and have proven reliability. The amphibious excavators are efficient and they have a strong construction. The undercarriage is made of Cor-Ten steel and the bottom plates and wear strips are made of Hardox. Critical parts of the machine are protected to make sure they can't get damaged by use of the machine.

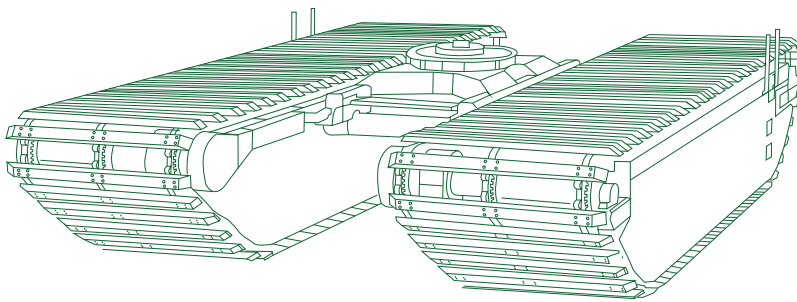
The upper structure is placed at the center of the machine. This has as an advantage that the machine has a working range of 360 degrees and that the machine can be customised and equipped with extra options such as an extra fuel tank. Equipped with heavy duty travel motors the undercarriage has a high tractive force.

WORKING DEPTH

Amphibious excavators can be used on land as well as on water. This means it is possible to easily cross swamps, moats, lakes and other waterways. The machine starts to float if activities are carried out in water deeper than 1.0-1.8 meters (depending on the model).



• WK 150 NG-A



- WK 20 NG-A
- WK 90 NG-AW | NG-AS
- WK 100 NG-AS
- WK 150 NG-5
- WK 220 NG-5
- WK 250 NG-5
- WK 300 NG-5
- WK 350 NG-5

SPARE PARTS



Waterking has an excellent after-sales department and offers 24/7 worldwide support from the Netherlands or via one of our dealers. All components for undercarriages can be supplied very quickly.



ADDITIONAL PONTOONS

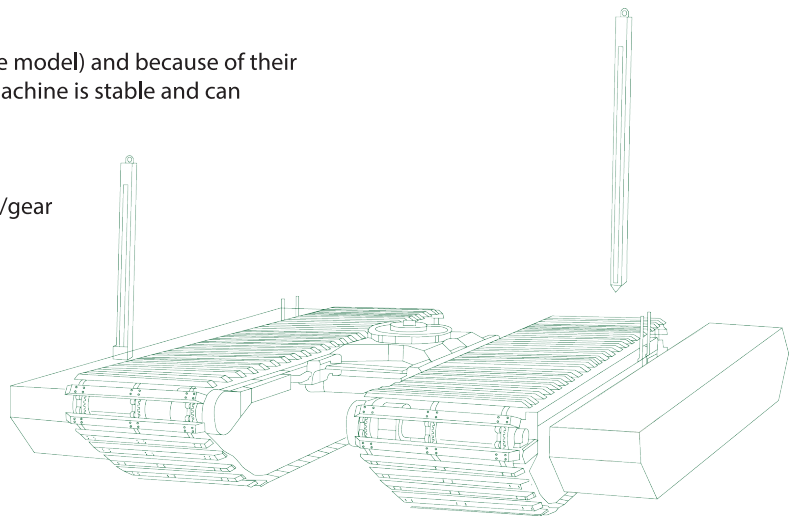


The amphibious excavators can be equipped with additional pontoons. The pontoons provide extra stability and buoyancy of the amphibious excavator. By adding pontoons to the machine it is possible to work in water with a depth between 4-6 meters.

The additional pontoons are built to fit the model of the undercarriage of choice. The pontoons are designed and built in the Netherlands. Waterking always uses high quality material and therefore the pontoons are made of Cor-Ten steel. The pontoons are extra long, high and wide for extra buoyancy.

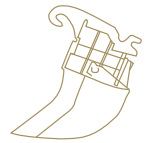
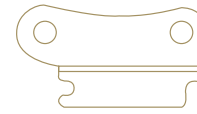
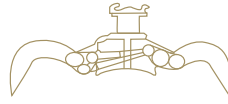
The spud poles measure 20 x 20 - 30 x 30 cm (depending on the model) and because of their strong robust appearance the spud poles make sure that the machine is stable and can use more force while working. The spud poles are designed to go through the pontoon instead of being mounted on the back. This makes the entire structure of the machine and the pontoons stronger. The spuds are equipped with a rack/gear and are operated with an hydraulic motor.

The pontoons are built with integrated steps to have easy access to the cabin. The steps and deck of the additional pontoons are covered with an anti skid-surface. The coupling system is easy in use and due to several locks the pontoons are heavily anchored.





ACCESSORIES AND OPTIONS



Accompanying accessories can be purchased at Waterking.
 The accessories can be built into or attached to the amphibious excavator.
 Waterking examines what is needed to perform your activities and offers advice about the suitable accessories.

ACCESSORIES

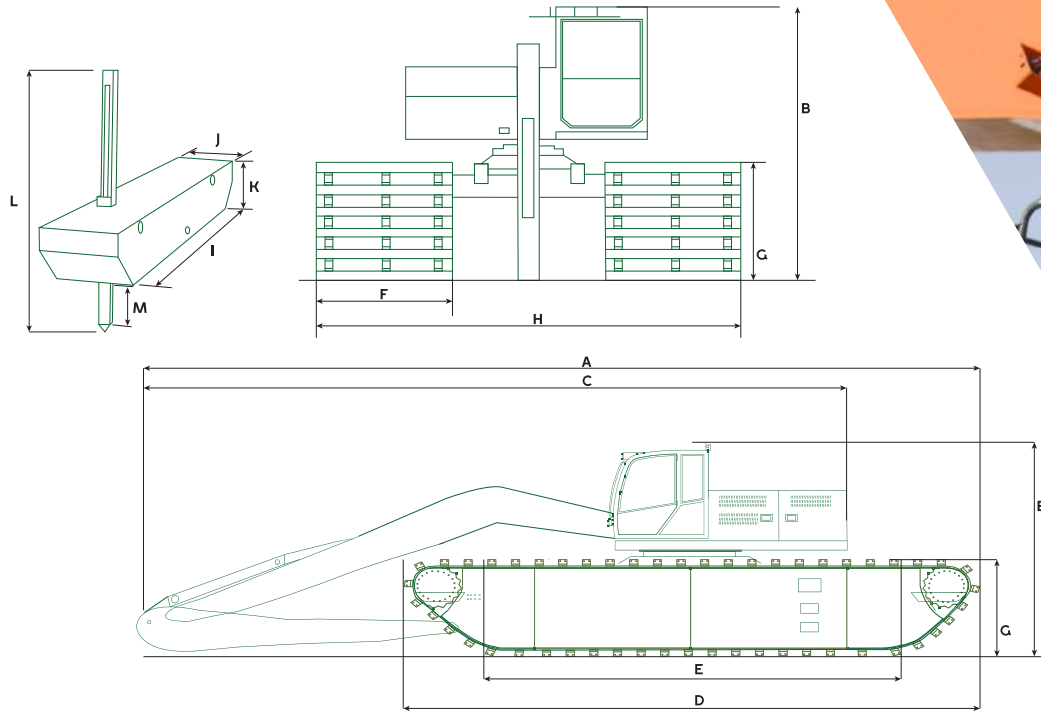
- Demolition and sorting grab (rotating)
- Mechanical tree cutter
- Quick coupler
- Hydraulic powerpack
- Additional pontoons
- Dredging pump with cutterhead
- Various buckets
- Vibration block

OPTIONS

- Extra work light
- Central lubrication
- Several hydraulic functions
- Platform with fuel tank
- GPS/GPRS
- Various types of booms (6.0-18.5 M)
- Upper structure: (new or used)
 Doosan | Caterpillar | Takeuchi | Hitachi | Yanmar | Volvo
 JCB | Komatsu | Kato | Hyundai | Liebherr | Kobelco







EXCAVATOR CLASS

SPECIFICATIONS

WK 20 NG-A
 Hitachi ZX 19 U-5A
WK 90 NG-AW
 Takeuchi TB290
WK 100 NG-AS
 Yanmar SV 100
WK 150 NG-A
 Hitachi ZX 150-5B
WK 220 NG-5
 Doosan DX 225 LC-3 SLR
WK 250 NG-5
 Hitachi ZX 250 SLR
WK 300 NG-5
 Doosan DX 300 LC-5 SLR
WK 350 NG-5
 Komatsu PC 360 LC10 SLF

Excavator class	2	7 - 9	7 - 10	13 - 16	20 - 23	24 - 27	28 - 32	33 - 36
Total weight - ton	4	16	16	26	38	42	45	49
Reach - m	3.72	6.5 - 10.0	6.5 - 10.0	9.0 - 13.0	10.0 - 15.5	10.5 - 18.5	11.5 - 20.0	11.5 - 20.0
A Overall length	5.50	10.50	10.60	12.35	14.75	16.70	16.40	16.93
B Height of excavator	3	3.35	3.35	3.50	3.87	3.95	4.27	4.50
C Upper structure overall length	3.50	8.10	8.72	9.33	12.75	14.50	14.50	15.05
Counter weight clearance	1.70	1.52	1.45	1.58	1.85	1.83	2.24	2.52
Min. ground clearance	0.6	0.85	0.72	0.66	1.00	0.98	1.40	1.40
D Pontoon length - m	4	7.70	8.40	10	10	11	11	11.5
E Pontoon ground length	2.35	4.90	5.40	6.92	6.72	7.75	7.02	7.02
F Pontoon width - m	0.62	1.30	1.20	1.51	2	2	2	2
G Pontoon height - m	1.20	1.44	1.30	1.58	1.50	1.50	1.92	2.20
H Undercarriage width - m	1.5 - 2.5	3.3 - 4.5	3.0 - 4.2	3.5 - 4.7	6.0	6.0	6.3	6.3
Undercarriage weight - ton	2	10	10	14	20	22	24	26
Undercarriage	Adjustable	Adjustable	Adjustable	Adjustable	Fixed	Fixed	Fixed	Fixed
Ground pressure kg/cm ²	0.137	0.112	0.129	0.126	0.127	0.121	0.162	0.176
Chain	2 ps. 6"	2 ps. 6"	2 ps. 6"	2 ps. 6"	3 ps. 6"	3 ps. 6"	3 ps. 6"	3 ps. 6"
Tracks - m	0.60	1.28	1.12	1.42	2.00	2.00	2.00	2.00
Bucket-l	44 - 100	200 - 400	200 - 400	300 - 700	500 - 1200	650 - 1500	650 - 1500	650 - 1500
Transport amount trailer	1	1	1	1	2	2	3	3
I Additional pontoon length - m	3.75	7.75	8.00	9.85	9.60	10.60	10.60	10.60
J Additional pontoon width - m	0.45	1.19	1.10	1.20	1.50	1.50	1.50	1.50
K Additional pontoon height - m	1.10	0.82	0.86	1.05	1.05	1.05	1.42	1.50
Additional pontoon weight (each incl. spud pole) - ton	1.00	2.25	2.68	2.75	3.66	3.80	4.07	4.20
L Spud pole length	4	4	4	5	6	6 - 8	6 - 8	6 - 8
M Spud pole stroke length	2.75	3.03	2.99	3.8	4.8	4.8	4.43 - 6.43	4.35 - 6.35

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AMPHIBIOUS EXCAVATOR SPECIFICATIONS

PONTOON

TRACKS | POLYTRACK

CHAIN

WATERTIGHT BEARING BLOCK

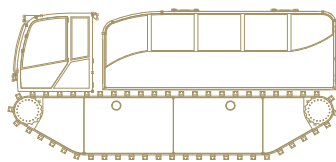
PROTECTED TENSIONING CYLINDER



AMPHIBIOUS TRANSPORTERS

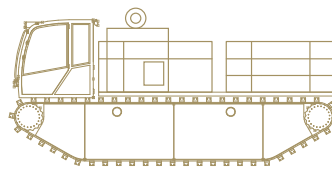
Amphibious transporters have been specially designed to work in swamp areas and river deltas. Transporters consist of an undercarriage and an upper structure with cabin, engine and platform. The machine can be custom-made to suit your needs. The structure is also inter-changeable. Transporters are multi-functional and can be used for a wide range of purposes.

These include:



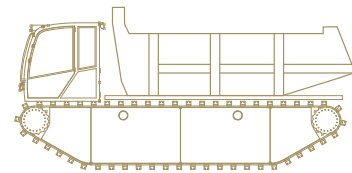
1

Passenger transport



2

Equipment transport



3

Dumper for soil transport

OTHER OPTIONS ARE:

- ~ Drilling platforms
- ~ Possible to convert to amphibious excavator

The undercarriage of transporters is the same as that of amphibious excavators. The transporter has a lot of traction and is able to extract itself from riverbeds, while the pontoons have sufficient buoyancy and low ground compression.

TRANSPORT OF THE AMPHIBIOUS TRANSPORTER

The upper structure (cabin and engine) can be transported separate from the undercarriage (pontoons). With a hydraulic system the side plateau will fold up so that the machine complies with the (max.) transport width. These side plateaus are folded down while working to enlarge the deck surface for work purpose.

The assembly of the machine is very easy. After placing the pontoons the upper structure can simply be mounted and all can be done within one hour.

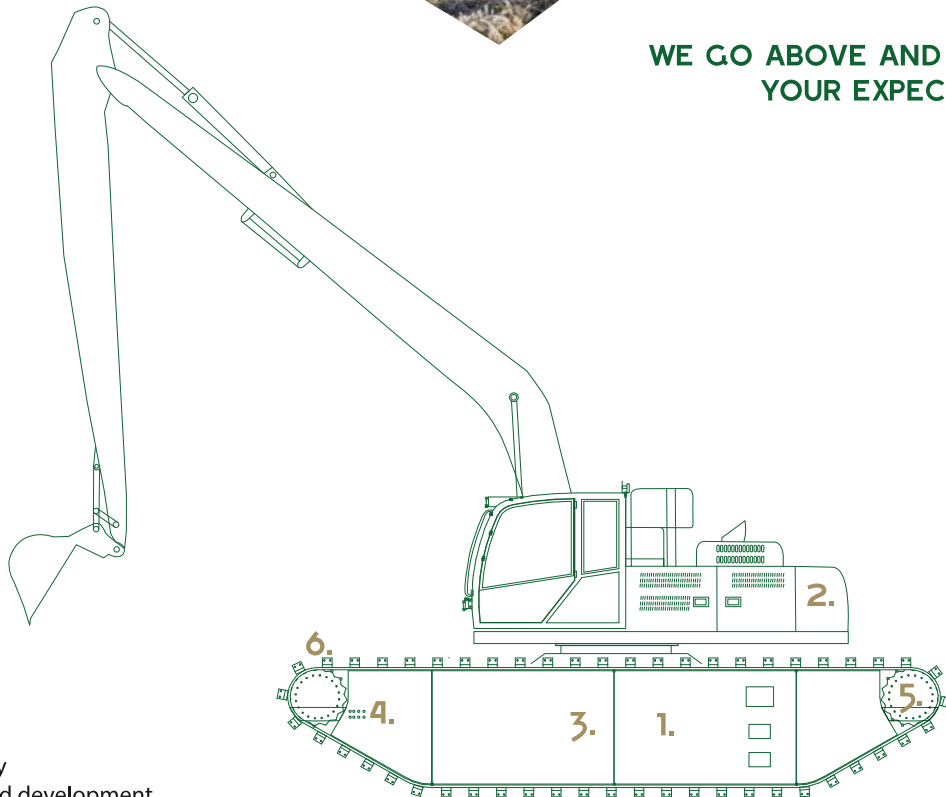




WHY WATERKING

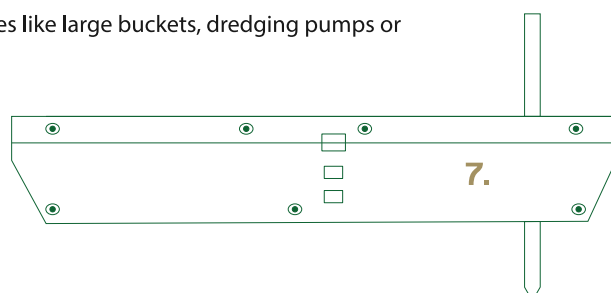


WE GO ABOVE AND BEYOND
YOUR EXPECTATIONS



We continue to lead the way
when it comes to quality and development.
A few examples of how we differ from our competitors:

- 1.** Our amphibious machines are constructed using **Cor-Ten steel** and **Hardox**.
This means they are eight times better protected against corrosion than other amphibious machines.
- 2.** **Choice of upper structure;** Doosan, Caterpillar, Komatsu, Hitachi, Volvo, Takeuchi, Yanmar, JCB, Hyundai etc.
It is possible to mount used upper structures as well as your own machines on our undercarriages
- 3.** Our undercarriages have up to **50% less ground pressure** than those of our competitors. Our pontoons are wider, which helps to create greater stability and buoyancy.
- 4.** The amphibious undercarriages are **equipped with a tensioning cylinder**, therefore tracks can be tightened faster and more efficiently. The tensioning cylinder is protected, which means there is less chance of damage and corrosion.
- 5.** Heavy-duty travel motors, which are the most **powerful travel motors** in their class. This helps to offer greater tractive force.
- 6.** **Third generation** tracks with rounded edges, to ensure easy steering and reduction of damage to the surface.
- 7.** **Larger additional pontoons**, which make it easier to use accessories like large buckets, dredging pumps or powerpacks without affecting stability





“WATERKING THINKS IN POSSIBILITIES AND OFFERS SOLUTIONS”

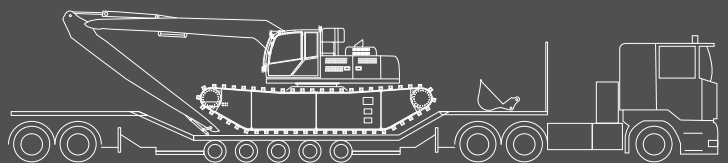


TRANSPORT OF THE AMPHIBIOUS EXCAVATOR

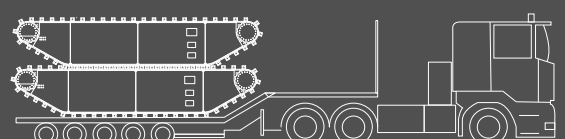
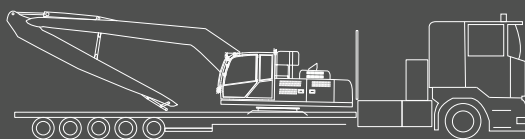
The amphibious excavators are easy to transport. The advantage of excavators with an adjustable undercarriage is that they can be transported in total without disassembling the machine. Pontoons can be extended and retracted, as demonstrated by the WK 20 - 90 - 100 and 150.

Amphibious excavators with a fixed undercarriage can be assembled and dismantled within one and a half hours. There are no special permits required. The height, width and length of machines comply with transport norms.

ADJUSTABLE



FIXED



PRODUCTION AND SERVICE

DESIGNED AND MANUFACTURED IN-HOUSE
24/7 WORLDWIDE AFTER SALES SUPPORT
HIGH QUALITY STANDARDS
COMPREHENSIVE TESTING

Quality and service are of high importance to us. Waterking is committed to your request and closely monitors its progress from the very first moment of contact with you as our customer. We offer ideas and advice while guaranteeing quality and reliability.

PRODUCTION PROCESS

Together we examine what is needed to perform your activities. We can create a new design if your specific preferences require Waterking's standard products to be modified. All our equipment is designed and manufactured in-house. Waterking offers advice and explores all the possibilities with great care and attention. The intended use, user requirements and budget are taken into account. Each Waterking machine is customised to suit customer requirements, meaning each product is unique.

QUALITY CONTROL

Waterking performs comprehensive testing to guarantee the performance and reliability of our machines.

- ~ Waterking possesses its own testing location, where all our machines are monitored after being constructed. This involves performing stability tests, examining the performance of separate components and carrying out a general quality check
- ~ Each product is thoroughly checked in accordance with set protocols and checklists to monitor the quality of all our products

We offer a wide range of possibilities when it comes to worldwide service and maintenance. We also offer on-site training every time an amphibious excavator is purchased. Our operator will assist and inform you about the possibilities of the machine: Assembly and disassembly, specific work instructions and maintaining the machine. Our excellent after-sales department offers 24/7 worldwide support from the Netherlands or via one of our dealers. All components for undercarriages can be supplied from stock and components for all types of upper structure can be supplied very quickly.





ADVICE AND SUPPORT

WE HAVE THE KNOWLEDGE TO BUILD,
ADVICE AND EXECUTE

Deltas, marshes and swamp areas are vulnerable and complex landscapes with limited weight-bearing capacity. This means tailor-made solutions, consideration and creativity are needed when performing activities. That is why Waterking is regularly asked to start and supervise projects abroad.

KNOWLEDGE, ADVICE AND EXECUTION

We work closely with contractors and local governments when performing nature conservation projects, sand extraction projects and maintenance dredging activities. With the experience we have gained over the past 25 years, we can offer tailor-made advice. We can also help to create plans of action, project plans and budgets. We offer advice on the suitability of materials and technical possibilities, and use professional and technical knowledge to offer support when performing activities. Waterking offers guidance when purchasing equipment, and can arrange all transport and export documents required.

WE OFFER

- ~ Support with the startup of new projects
- ~ Advice about intended equipment
- ~ Mediation and support when purchasing equipment
- ~ Transport, import and export support
- ~ Machine training
- ~ Maintenance
- ~ Project supervision





ALWAYS ONE STEP AHEAD
IN A WORLD WHERE INNOVATION MATTERS



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