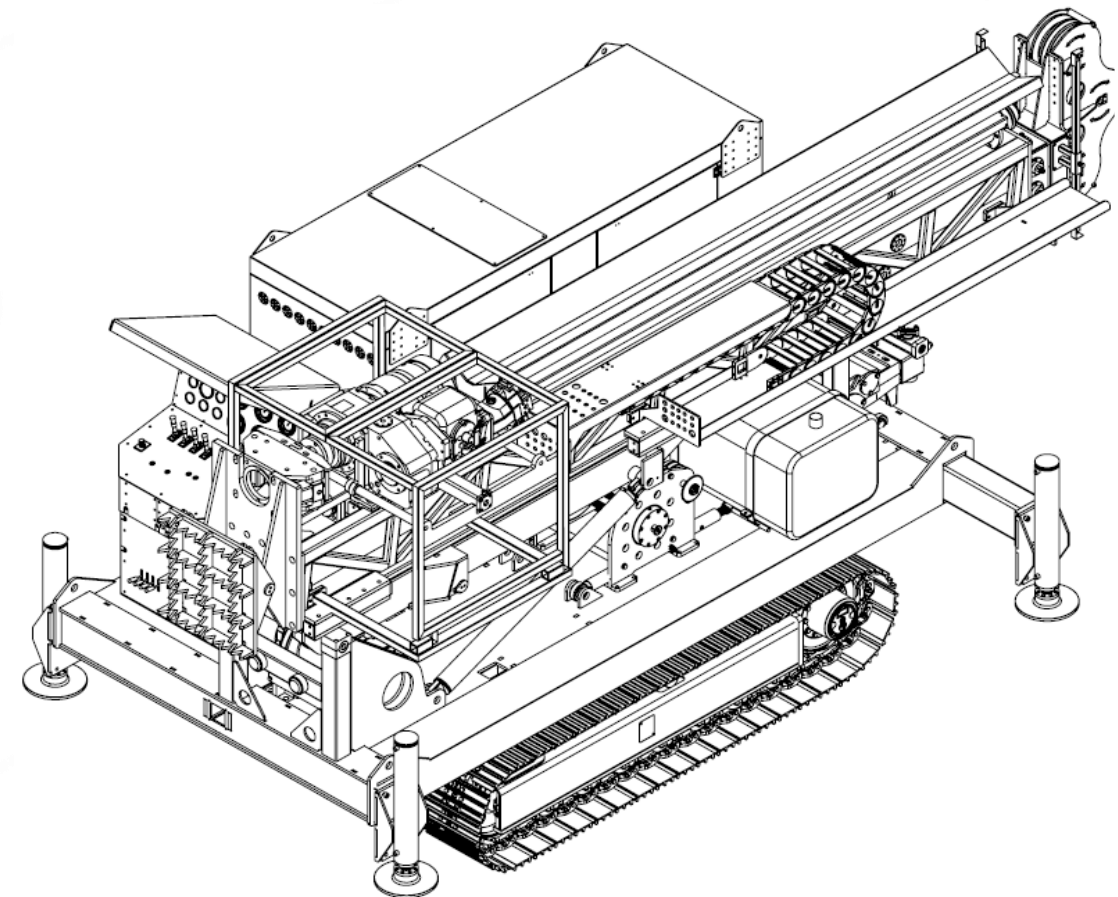


MILENTEK
National Energy Technologies





MİLENTEK ENERGY;

With its technological knowledge and infrastructure and experienced staff in investments in the renewable energy sector and mining sector, it is in an effort to create a safe choice for the investor in line with the nationalization target of our country.

MİLENTEK ENERJİ, which was established in 2016 to operate in the production and sale of drilling machines and equipment, serves the drilling industry with the philosophy of high quality and customer satisfaction with its production facilities located in Ankara and its experienced expert staff.

MİLENTEK ENERJİ, which carries out R&D, production and sales activities in core drilling machines, core drilling equipment and auxiliary drilling equipment, aims to reach the highest production quality level of the sector as a result of the feedback it receives from the contracting wing and its own R&D studies.



MLT-HQ 1500 SERIAL

Everywhere ...

MLT-HQ-1500 is an above ground core drilling rig developed by Milentek Energy to operate smoothly in the toughest field and formation conditions.

Local Production & High Quality ...

Produced at Milentek Energy's Ankara Production Facilities with domestic capital and workmanship, the MLT-HQ-1500 series is one step ahead of the machines in its class with its user-friendly simple design, durable structure and superior production quality.

Do Not Waste Your Time For Details ...

Milentek Energy manufactures and sells core drilling machines as well as equipment groups and drilling machine spare parts used in the field.

Name of Advanced Technology : MLT-HQ-1500

The MLT-HQ-1500 series, which is used continuously in domestic and international exploration fields, has been developed by using new technologies and expert feedback, and the MLT-HQ-1500 drilling machine has emerged with the R&D activities.

Exclusively For You...

The MLT-HQ-1500 drilling machine is produced by customizing it according to the job. In case of demand, it can be produced by changing the capacity; Hydraulic systems and mechanical elements can be adjusted according to the demanded capacity.

MLT-HQ-1500 Depth Capacity

DIAMETER	DRILL CAPACITY
HWL (Outer Dia :88,90 mm)	1.500 mt
BWL (Outer Dia:55,60 mm)	2.800 mt



Hydraulic System

Main Pump

Brand	Danfoss
Max. Flowrate	130 cm ³ /rev
Operating Pressure	350 bar

2nd Pump (MUD PUMP)

Brand	Danfoss
Max. Flowrate	45 cm ³ /rev
Operating Pressure	350 bar

Service Pump

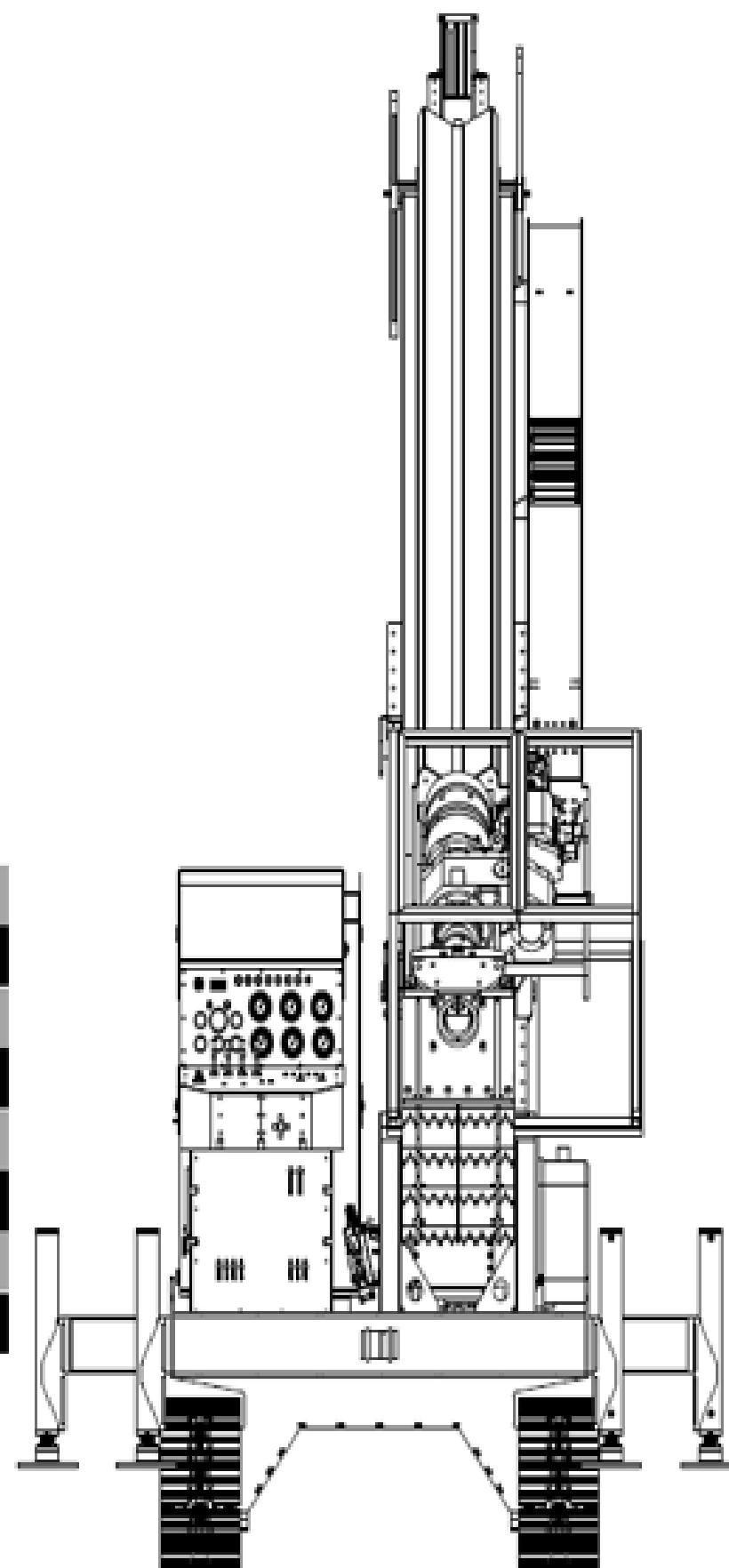
Brand	Danfoss
Max. Flowrate	45 cm ³ /rev
Operating Pressure	350 bar

Power Unit

Brand/Model	Ford/Ecolorq 9L
Engine Type	Turbo, Diesel, Water Cooled
Cylinder Volume/Qty	8.974 cc/ 6 Cylinder
Max. Power	315 hp (235 kW)
Emission Class	Euro 3-4

Rotation Unit

Rotation Motor	Danfoss
Gearbox	4 Gear
Jaw System	Spring
Holding Capacity	20.000 kg
Max. RPM	1.200 rpm
Hydraulic Side Slip	30 cm
Max. Clutch Dia.	117 mm
Lubrication Tandem	Milintek



Tower And Crain Systems

Tower Type	Telescopic
Min. Height	6.270 mm
Max. Height	9.630 mm
Rod Pulling Capacity	6 mt.
Drill Range	45°-90°
Head Group Feeding Range	3.400 mm

Hanger-Pressure Piston

Pressure Capacity	12.200 kg
Towing Capacity	24.000 kg

Main Drum

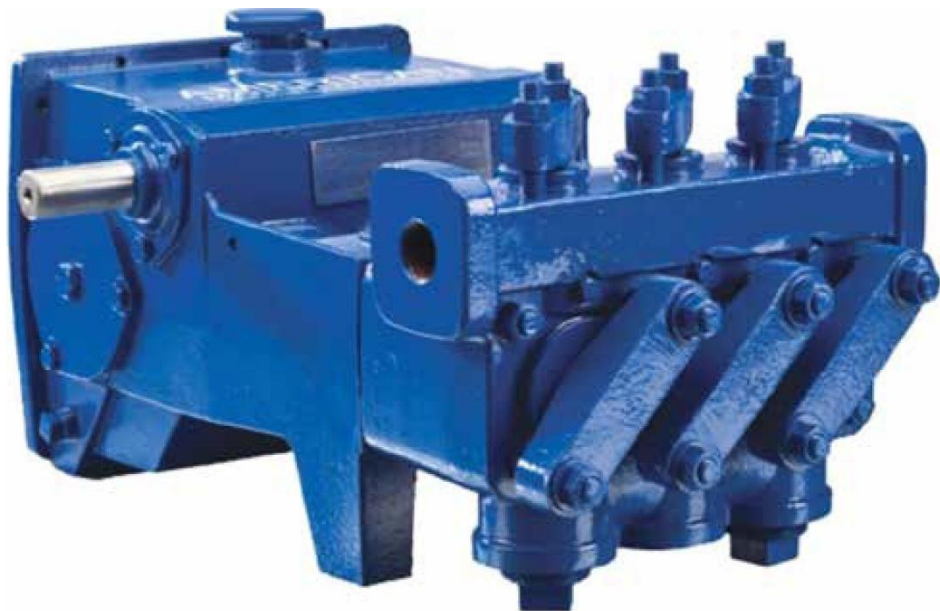
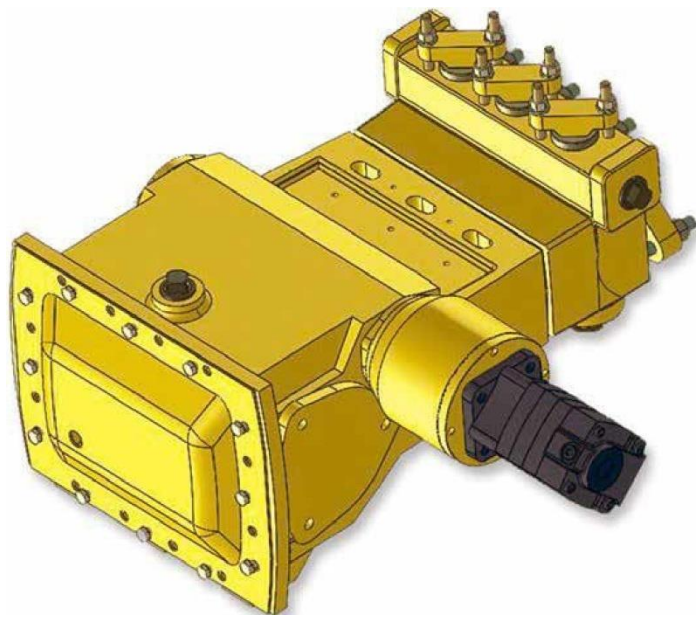
Brand	Branden
Towing Capacity	16.000 kg
Rope Length/Diameter	22 mm / 40 metre

Wireline Drum

Towing Capacity	1.500 kg
Rope Length/Diameter	6 mm / 1,500 m

MUD PUMP

Pump Type	Horizontal Tripleks 3 Piston
Work Cycle	Continually: 740 rpm, Max:925 rpm
Pump Capacity	150 L / min
Max. Pressure	80 bar



DRIVING SYSTEM

Brand/Model	Valuepart
Speed System	Dobule Speed System
Speed Values	1.8 km/h - 3.1 km/h
Max. Load	13.000 kg





MLT-HQ 1500 DIMENSIONS

Closing Dim. (Transportation)

Heigth	2.575 mm
Length	6.200 mm
Width*	3.200 mm

45 ° Slope Tower (Full Open)

Heigth	7.110 mm
Length*	7.030 mm
Width	3.200 mm

90 ° Vertical Tower (Full Open)

Heigth	9.680 mm
Length*	7.030 mm
Width	3.200 mm

MLT-HQ 1500 WORK AND ENVIRONMENTAL SAFETY EQUIPMENT

Emergency Stop and Warning Button

In MLT-HQ-1500, "Emergency Stop Buttons" are placed at easily accessible critical points in order to increase effective use and emergency response standard.

In addition, there is an audible warning button on the back of the machine to provide the fastest warning to the operator in case of an emergency.

Morset Protection Cage

The MLT-HQ-1500 morset protection cage is used to prevent personnel from accidental contact with the morset and to maximize safety.

The sensor system, which can be optionally added to the product, warns the operator audibly when the protection cage is opened. Thus, with its extension piece in inclined drillings, it provides the necessary protection even when the tower is in a 45° tilted position.

Morset Protection Cover

The morset cover on the top of the morset of the MLT-HQ-1500 drill rig is designed to prevent any adverse events that may be caused by the morset rotating at high speed.

The housing cover, which has a hinged connection, can be easily taken to the side by removing the pin in case of intervention to the morset. While the machine is drilling, the cover must be closed.

Foldable Front & Side Platforms

There are folding platforms on the front and sides of the MLT-HQ-1500 for the personnel to work comfortably and safely.

Platforms provide convenience in situations where machine intervention is required, and they do not take up extra space by folding easily when not needed or in case of transportation.

Lighting System

Optionally, 4 state-of-the-art LED lamps can be added to the tower of the MLT-HQ-1500. Thus, better field vision is provided in night works and higher efficiency is obtained compared to standard lamps.

Advanced Engine Cabinet

There are acoustic (non-combustible) sponges inside the cabin to reduce engine noise, which is optionally available in the MLT-HQ-1500 series. It is ensured that the sound is minimized to the environment and employees.

The fire cannon, which is also standard in the MLT-HQ-1500 series; While performing the first response by exploding in the event of a possible fire, it also warns the employees with the sound it makes.



MLT-HQ 1500 WORK AND ENVIRONMENTAL SAFETY EQUIPMENT

User Friendly Control Panel

Analogue and digital displays placed on the MLT-HQ-1500 are positioned at key points in the cabin that do not allow the operator to distract. In this way, the operator can follow all the indicators at the same time..

It is aimed to increase efficiency with the MLT-HQ-1500's Compact Control Panel, which was developed with feedback from the field..

Radio Control (RF)

With the optional remote control in the MLT-HQ-1500 series, the mobilization of the machine is provided in difficult and dangerous conditions. With this control, the movement and speed of the machine are controlled.

In addition, there are functions such as emergency stop, speed increase, speed decrease and horn on the control.

Multi Functional Control Display

With the optional control screen on the MLT-HQ-1500, the operator can see all the important values on a single screen. This screen, which prevents any value from being overlooked, also offers the user the opportunity to set many parameters.

Motor

- Heat
- Oil pressure indicator
- Motor RPM
- Motor time
- Sudden fuel consumption
- Avarage fuel consumption
- Start - stop
- RPM increase
- RPM decrease
- Battery statement
- Maintainance period adjustment

Machine

- Shase angle warning
- Tower angle warning
- Morset position & speed
- Rotation cycles

Hydraulic System

- Hydraulic oil level
- Oil temperature
- Pressure on lines (optional)

The system gives an alarm when there is an abnormal change in these values.



MLT-HQ 1500 WORK AND PERSONAL SAFETY EQUIPMENT

Morset Protection Cage

The MLT-HQ-1500 morset protection cage is used to prevent accidental contact with the morset by personnel and to maximize safety.

Morset Housing Cover

The morset cover on the top of the morset of the MLT-HQ-1500 drilling rig is designed to prevent any adverse conditions that may be caused by the morset rotating at high speed.

Folding Front and Side Platforms

There are folding platforms on the front and sides of the MLT-HQ-1500 for comfortable and safe working of the personnel. Side platforms are fragmented, they can also be used partially.

Drum Crane Protection Cage

The drum crane of the MLT-HQ-1500 is covered with a sliding cover system for a possible work accident and personnel safety.

Foot Lock Enclosure

Foot locks of MLT-HQ-1500 are protected against possible impact and negativities.

Hydraulic Pump, Suction Valve and Battery Cabinet Housing

MLT-HQ-1500's hydraulic pumps, hose installation, suction valves and battery system are protected against impacts and negativities.

Mud Pump Coupling Cage

The mud pump coupling housing of the MLT-HQ-1500 is used to protect personnel against the dangers of high-speed rotating motor.

Fuel Tank Upper and Lower Housing

The fuel tank of the MLT-HQ-1500 is protected from the top and bottom against possible impacts. It has a top design that the personnel can be on when necessary.

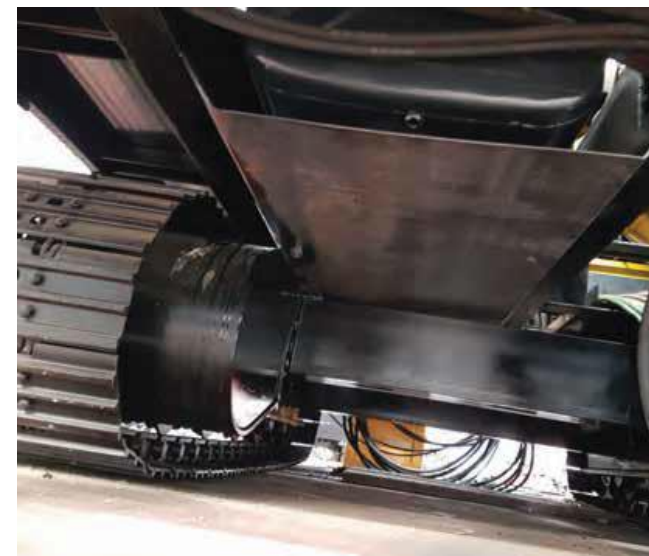
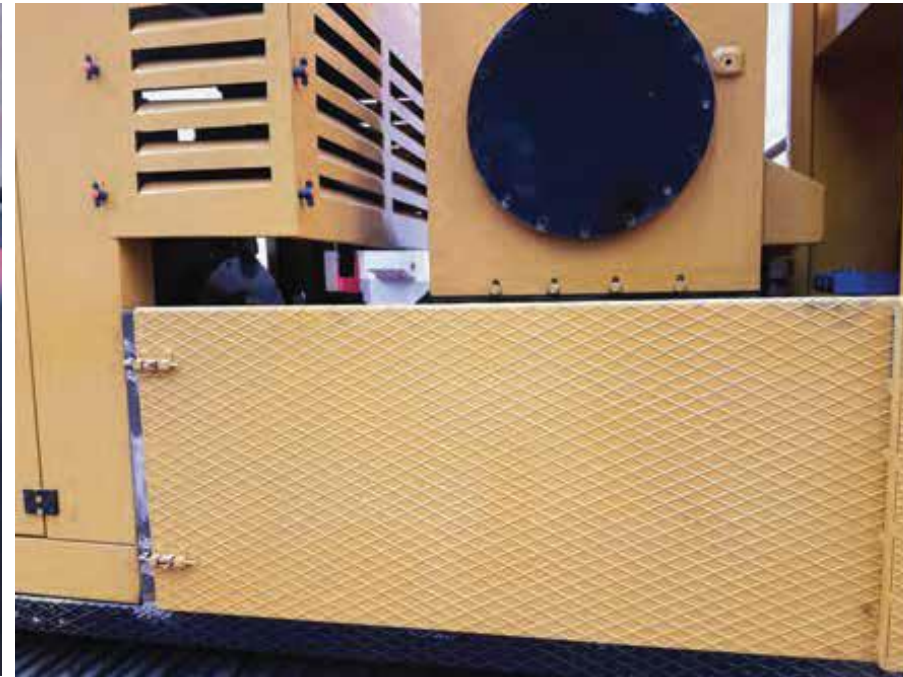
Enhanced Engine Cabin

In the MLT-HQ-1500 series, the internal parts of the engine cabin have been strengthened to be minimally affected by the vibration and vibration.

Exhaust Housing

The exhaust system of the MLT-HQ-1500 is covered with a breathable cage, thus protecting the personnel against a possible danger.

MLT-HQ 1500 WORK AND PERSONNEL SAFETY EQUIPMENT



METRAJ CALCULATION

ABOUT THAT PROCESS

Based on our discussions, the calculation information for the drilling capacity of the machine we have specified for the MLT HQ - 1500 drilling machine is below.

H DIA. ACCORDING TO MORSET HANG POWER, IT CAN BE 1547 MT

P DIA. ACCORDING TO MORSET HANG POWER, IT CAN BE 1161 MT

Our committed punching capacity: 1547 meters (HQ diameter)

Calculation of 1547 mt HQ diameter set :

3 Meter HQ Diameter tool weight: 34.9 kg

1547 Meter HQ Diameter tool weight: 17.995 kg

Features of hanger printing cylinder and morset to be used in the machine we produce:

Morset suspension strength at least: 18,000 kg

The hanger-press roller we use: 120*80*3250 mm

Suspension side piston area: 113cm²

Suspension-pressure pump working pressure: 210 bar

Suspension strength: $210 * 113 = 23,730$ kg (It is above the hanger strength.)

Maximum rotation moment to be used in the machine we produce: 5322 Nm

Diesel engine power to be used in the machine we produce: 235kw/h 2200 rpm

When the above values are examined, it is seen that we have reached the drilling capacity we have committed. The technical specifications of the components we use above are also available in their catalogues.

In these conditions, we have stated that the MLT HQ 1500 drilling machine has a capacity of 1547 meters in HQ diameter, and we submit your application for your information, taking into account the above calculations.



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