





exvac



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RIVARD

# Introduction

Whether it is your first or your fiftieth, deciding which suction excavator to buy is a major investment decision.

To achieve your return on this investment as rapidly as possible, you need a suction excavator that is out on site and not in the workshop; a suction excavator that has the power and precision to tackle the broadest range of projects; a suction excavator designed with safety in mind, both for your operators and others on site.

**In short, you need an EXVAC.**

It's more than just the metal! To invest with confidence you need to be able to rely on the pedigree of the manufacturer and of their partner. You want to know that when your need arises, we have a solution.

**In short, you need an EXVAC manufactured by RIVARD and supplied and supported by EXVAC Equipment Sales.**

This brochure aims to show you how investment in an EXVAC offers increased productivity as well as a significant technical edge. We realise, however, that words are not enough; you need to see the EXVAC in action.

**In short, your on site EXVAC demo is your next step.**

To book your EXVAC demo, call us today on **01246 768331** or **scan the QR code.**

Investing your time in an EXVAC demo is a decision you won't regret.



# Productivity

With vastly reduced downtime for belt and filter servicing, your EXVAC will spend less time in the workshop. The EXVAC comes with a two-year warranty as standard.



## Turbine suction

- Suction in the EXVAC is generated by a multi-stage turbine rather than multiple fans. The turbine is an industrial, cast-iron, sealed unit. Its pedigree is from the mining industry, so it is built to withstand harsh environments and to operate for sustained periods of time.
- The turbine is 'soft started' using a hydraulic motor with self-tensioning belts. The 'soft start' protects the chassis and drive train from premature wear, and the switch to direct PTO is seamless.



## Build quality

- The EXVAC is manufactured by RIVARD in France. To ensure quality control, RIVARD retains design, manufacturing and build in-house. It has its own platers, electronics engineers, paint shop and more.
- Book an EXVAC demo today and experience the build quality first hand.

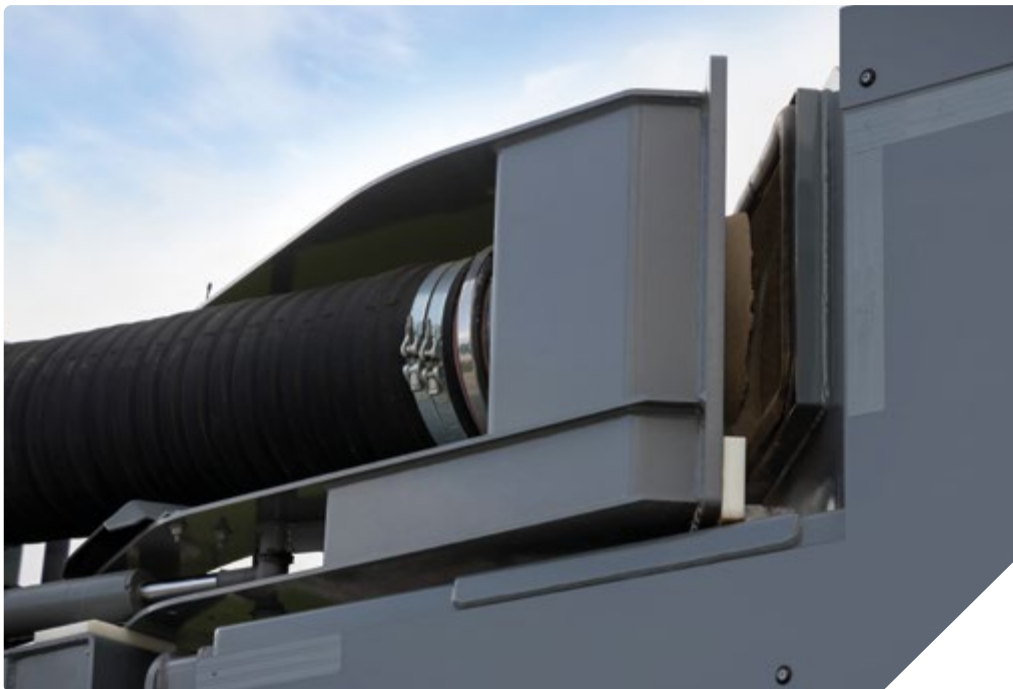
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## Filter system

- The EXVAC has 8 filter cartridges. The filter chamber is sealed and independent from the tank and can be reached via an integral access walkway for inspection and cleaning.
- There is a cleaning tool and compressed air connector located inside the filter chamber. Filters can be cleaned on site rather than back in your workshop reducing downtime.
- Filter cleaning cycles can be configured from the rear monitor and the filter flow rate is shown on the same screen.
- EXVAC filter cartridges are quick to change. All 8 can be replaced within 25 minutes with no need for lifting equipment.



## Additional productivity features:

- The curved base of the EXVAC tank minimises residues when tipping. This reduces the likelihood of mud accumulating in the corners which leads to corrosion. Operatives have less need to manually clean the tank relative to conventional rectangular designs.
- The EXVAC design incorporates integral safe-access walkways for inspection and maintenance
- Suction excavators are prone to repeated blockages at the point where the suction hose enters the tank. The EXVAC avoids this risk of downtime thanks to its patented suction arm which allows the top of the suction hose to decouple from the tank at a touch of a button. This allows your operatives to inspect and remove blockages on site rather than back in the workshop.

# Versatility

The EXVAC has class leading suction, power and precision to tackle the broadest range of projects.



## Tank design

- The EXVAC tank has a curved base which ensures effective tipping with minimal residues.
- The tank lid is integrated into the tank and can be opened gradually during tipping. This means offloading is more accurate and controlled.
- The EXVAC 32t has a large 10.5m<sup>3</sup> capacity tank, not including the filter chamber.



## Boom design and control

- The EXVAC boom is articulated, with five hydraulic points of movement. It has a bore of 250mm and a 180° range.
- The boom rotates using a hydraulic ram rather than a slew motor, providing smoother and more controlled movement. This sensitivity is even further enhanced by the potentiometer in your operative's remote control unit.



## Turbine power and practicality

- The EXVAC multi-stage centrifugal turbine generates a greater negative pressure than traditional fan systems. This power enables you to operate at greater distances, heights and depths.
- The high-volume air flow is intentionally engineered to be turbulent, facilitating the breaking up of solids in excavated materials. This helps to minimise blockages and maintain productivity.



## Additional versatility features:

- Waist level storage racks allow ergonomic removal of suction pipes and extensions
- The EXVAC excels in excavating solids, sludge or liquids
- Filters can be cleaned on site to avoid lost time
- The high level of negative pressure enables work with lower turbine speeds and consequently reduces fuel costs

# Safety

With EXVAC, safety is designed in as standard; there's no need for extras. Here are just some of the safety features that protect your operatives, other contractors on site, and the general public at large.



## Safe tipping

- The opening of the lid on the EXVAC tank is controlled by your operative during the tipping cycle. This enables more regulated and accurate tipping with minimal debris and dust spillage.
- As the EXVAC can tip without opening the lid, the risk of hitting overhead lines is mitigated.
- The EXVAC can tip with the boom in the open or closed position providing a more controlled tipping envelope and saving time.



## Rear screen ensures safe operation

- Your operative can control all functions from a screen at the rear of the EXVAC, creating a contained and safe working environment.
- The screen transforms into a front-facing camera when the EXVAC is operating in hydrostatic mode to provide the operative with full visibility of potential hazards.





## Safe access to key areas of the suction excavator

- Safe walkways were incorporated at the design stage, not as an afterthought.
- When used in conjunction with a safety harness, all walkways have three points of contact to ensure your operatives' safety.
- Walkways allow access to the upper filter chamber for access and cleaning, to the tank for inspection, and to the boom/tank coupling so any blockages can quickly be cleared on site.



## Additional safety features:

- The EXVAC turbine provides a quieter, less distracting work environment for your operatives.
- The responsiveness of each ram in the boom can be regulated from the rear screen (more than 50 speed settings) giving your operative even greater control when working in hazardous areas.
- A range of sensors alert your operative to potential hazards. For example, the boom sensor prevents the EXVAC being driven from site if the boom is not parked.
- You will not leave site without the remote control as the EXVAC will alert you in the cab if it is not safely secured in its cradle.

# Low Cost of Ownership

We believe that the EXVAC has a far lower cost of ownership than traditional fan-powered suction excavators, both on a day-to-day basis and in the long-term. With fifty fan-powered suction excavators in our sister-company's fleet, we have years of data on their maintenance and service costs.





## What is your cost savings potential? How much can an EXVAC boost your productivity?

Work out your annual benefit using our table below:

Feature	EXVAC	Fan-powered Suction Excavators
Belt Replacement	<ul style="list-style-type: none"> <li>• Every 5 years</li> <li>• Replacement time - &lt; 1 hour               <ul style="list-style-type: none"> <li>- Self-adjusting hydraulic belt reduces wear</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Replacement time - &gt; 8 hours</li> </ul>
Hydraulic ram (for boom movement)	<ul style="list-style-type: none"> <li>• Replacement time – 1 hour</li> <li>• Easy to access for servicing and replacement cost a fraction of a slew motor.</li> </ul>	<ul style="list-style-type: none"> <li>• Use a slew motor rather than hydraulic ram</li> <li>• Replacement time - &gt; 12 hours</li> </ul>
Standard Warranty	<ul style="list-style-type: none"> <li>• Two years or 1,000 hours</li> </ul>	<ul style="list-style-type: none"> <li>• One year</li> </ul>
Filters	<ul style="list-style-type: none"> <li>• Quantity – 8</li> <li>• Can be cleaned on site</li> <li>• Access via dedicated walkway</li> <li>• Service replacement of all 8 filter cartridges - 25 minutes</li> <li>• Sensor alerts when high level of liquid or dust in the filter chamber</li> </ul>	<ul style="list-style-type: none"> <li>• Quantity – 40 or 42</li> <li>• Have to be cleaned in the workshop</li> <li>• Service replacement of all filters – &gt; 8 hours</li> </ul>
Detachable boom	<ul style="list-style-type: none"> <li>• Safe and easy access to blockage pinch point</li> </ul>	<ul style="list-style-type: none"> <li>• Time consuming and complex blockage removal</li> </ul>
Tank	<ul style="list-style-type: none"> <li>• Rounded base</li> <li>• Internal anti-abrasion deflectors</li> <li>• Tank rests on two rubber side rails to minimise stress on chassis</li> <li>• These features lead to reduced corrosion and longer periods between maintenance</li> </ul>	<ul style="list-style-type: none"> <li>• The square base can be prone to trapping mud leading to corrosion and reduced tank life</li> <li>• Refabricating tank – 5 working days (minimum)</li> </ul>
Safe access walkways	<ul style="list-style-type: none"> <li>• All areas of the EXVAC can be quickly and safely accessed by 3-point walkways integrated into the design</li> </ul>	<ul style="list-style-type: none"> <li>• Fabricated step system</li> </ul>
Industrial Turbine	<ul style="list-style-type: none"> <li>• Robust, designed for use in heavy industry</li> <li>• Up to 30% lower fuel consumption</li> </ul>	<ul style="list-style-type: none"> <li>• Use fans rather than a turbine</li> </ul>
Rear suspension load alerts	<ul style="list-style-type: none"> <li>• Integrated payload weight sensors as standard</li> </ul>	

# Pedigree



The Manufacturer:

**RIVARD**

**RIVARD has been manufacturing specialist construction vehicles for over seventy years; a pedigree unrivalled by any of its suction excavator competitors. In 2022, it delivered its 10,000th vehicle.**

RIVARD has a workforce of over 300 employees. It retains key design and manufacturing activities in-house to maintain high quality levels.

RIVARD is ISO 9001 accredited for quality management systems as well as ISO 14001 and ISO 45001 for environmental management and safety management systems respectively.



## RIVARD in the UK & Ireland: **EXVAC Equipment Sales**

**EXVAC Equipment Sales Ltd is a member of the LMD Vacuum Excavation Group of Companies.**

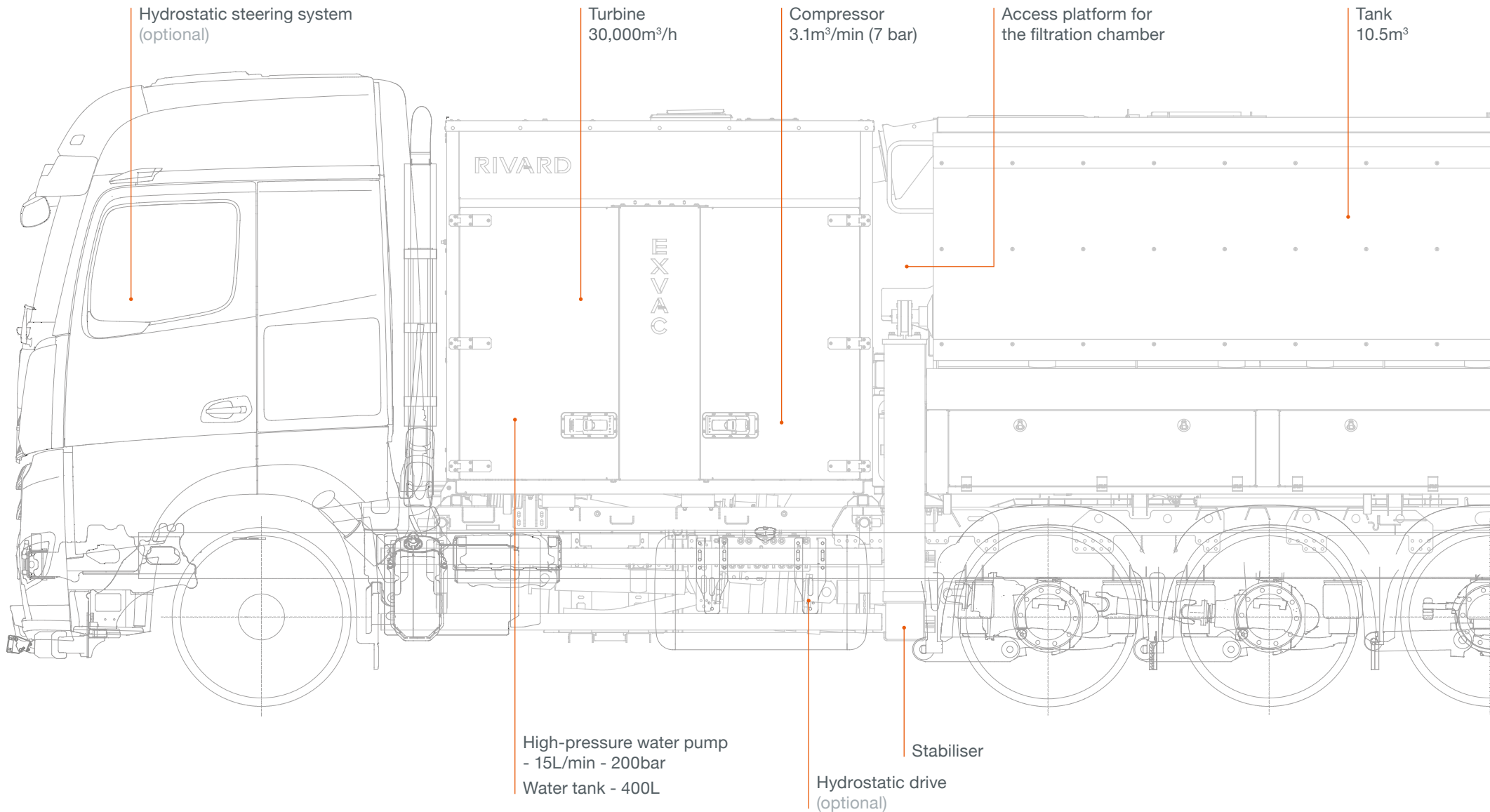
LMD has practical day-to-day experience of successfully building and operating a 50-vehicle suction excavation fleet. It has operated, maintained and repaired all major European suction excavator brands. It has joined forces with RIVARD to deliver the next generation of suction excavators to the UK & Ireland.

EXVAC Equipment Sales has mobile on site technical teams to provide you with support and maintenance, as well as sharing extensive workshop facilities with LMD.

Our goal is to optimise your suction excavator fleet's productivity and performance.

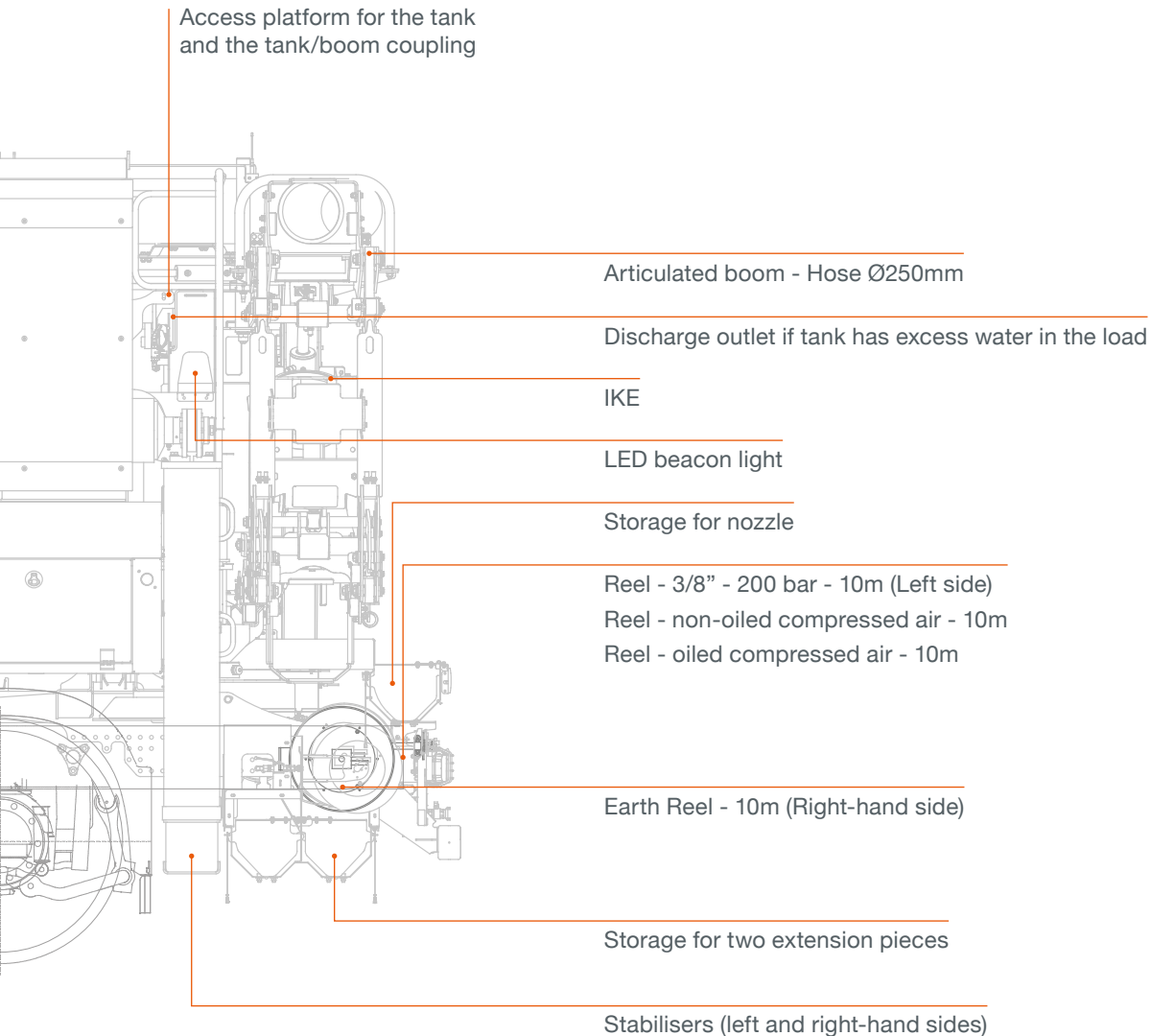


# EXVAC Specifications\*





\*Based on a Mercedes AROCS chassis.  
EXVAC can also be supplied on a Volvo  
or Renault chassis.  
Specifications are indicative only.



### Vehicle Dimensions

Parameter	Size
Length	11,090 mm
Height	3,658 mm
Width	2,500 mm

### Weight Distribution

Element	Total Weight
Authorised maximum weight	32,000 kg**
Unladen weight	27,120 kg
Capacity	10.5m <sup>3</sup>

\*\*A 26t EXVAC is also available



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