

HAMMELMANN®



AQUAJET® 140 – HIGH-PRESSURE PUMP UNIT

A new generation of efficiency and reliability

High energy savings

Sturdy industrial engine

Different performance classes

Great operational safety

High mobility

Many applications

THE NEW AQUAJET® 140

- **MORE ENVIRONMENTAL PROTECTION:**
Full-area floor tray protects against contamination.
- **OPERATIONAL SAFETY:**
No pipelines and flexible connections between the fuel filler cap and the tank.
- **VERY GOOD GROUND CLEARANCE**
and the possibility of a 100 km/h approval.
- **GOOD ACCESSIBILITY**
through enlarged side flaps and removable roof element.
- **EXCELLENT SOUND INSULATION**
- **UNSURPASSED VALUE FOR MONEY**
- **OPTIMIZED CENTER OF GRAVITY**
- **REINFORCED PUMP FRAME**
and fully galvanized chassis.
- **NEW ES 4 CONTROL**

THE NEW AND PROVEN COMBINED:



HIGH ENERGY SAVINGS

The AQUAJET® ultra high-pressure pump converts 95% of the shaft power into hydraulic energy



FULL CONTROL

All important operating data is available at a glance. Easy operation, monitoring and nozzle calculation thanks to the innovative ES 4 control - Intuitive and in many languages.



GREAT LONGEVITY

Long lifetime of all high-pressure components, optimal valve and sealing technology, use of top quality materials and precise series production with most modern machines.



HIGH MOBILITY

High-quality tandem chassis with overrun brake and completely galvanized chassis and optional four-point lifting eyes for optimal positioning of the system.



VARIOUS VERSIONS

AQUAJET® high-pressure pump units are available in a wide variety of designs and performance classes and are up to any challenge.





AQUAJET® 140 – AT A GLANCE

The heart of the AQUAJET® 140 series is an HDP 140 3-plunger high-pressure pump. The unit is driven by a sturdy industrial diesel engine from established manufacturers. The well thought-out system brings innumerable advantages and is available in different versions and performance classes. Find the right system for your individual applications!

100



ENERGY SAVINGS THROUGH HIGH EFFICIENCY

- **High efficiency.** Hammelmann high pressure pumps convert 95% of the shaft power into hydraulic energy.
- **Very smooth running** due to low speed at maximum performance.
- **Low diesel consumption** due to modern engines.

SAFE OPERATION

- **Everything under control!** Monitoring, control and nozzle calculation via the Hammelmann ES 4 control unit. Intuitive navigation in many languages. All important operating data at a glance.
- **Easy set-up** due to easily accessible supply and high pressure connections.

THE ENDURANCE RUNNER IN TOP QUALITY

- **Long lifetime of all high-pressure components** due to optimal valve and sealing technology, use of top quality materials and precise series production with most modern machines.
- **Ideal corrosion protection** thanks to high-quality materials.
- **High operational reliability** and long maintenance intervals through the hermetical sealing of the gear end by a patented bellows sealing system.
- **„Dry pump design“:** thanks to the arrangement of all pressurized high pressure components inside the pump housing no water is wasted.
- **Significant operating cost advantage** thanks to the crank section with pressurized lubrication system which is designed for at least 25,000 operating hours under full load.
- **High reliability in continuous duty** due to the performance reserves of the high-pressure pump, drive engine and all components.

STURDY INDUSTRIAL ENGINE

- **Economical industrial engines** in accordance with the current exhaust emission certification stage 5.
- **Ample power reserves:** 160 kW engines for real 140 kW pump performance.

HIGH MOBILITY

- **Low noise pump unit** due to super soundproofing
- **Environmentally safe operation** due to totally enclosed bottom tray made of aluminum.
- **Large fuel reserve.** Minimum of 8 hours operation possible due to the large internal fuel tank
- **High quality tandem chassis** with overrun brake. Chassis is completely galvanized
- **Easy to position** by means of 4 point lifting lugs or central single point lifting device (optional).
- **Very good ground clearance**
- **100 km/h approval possible**



Very good ground clearance



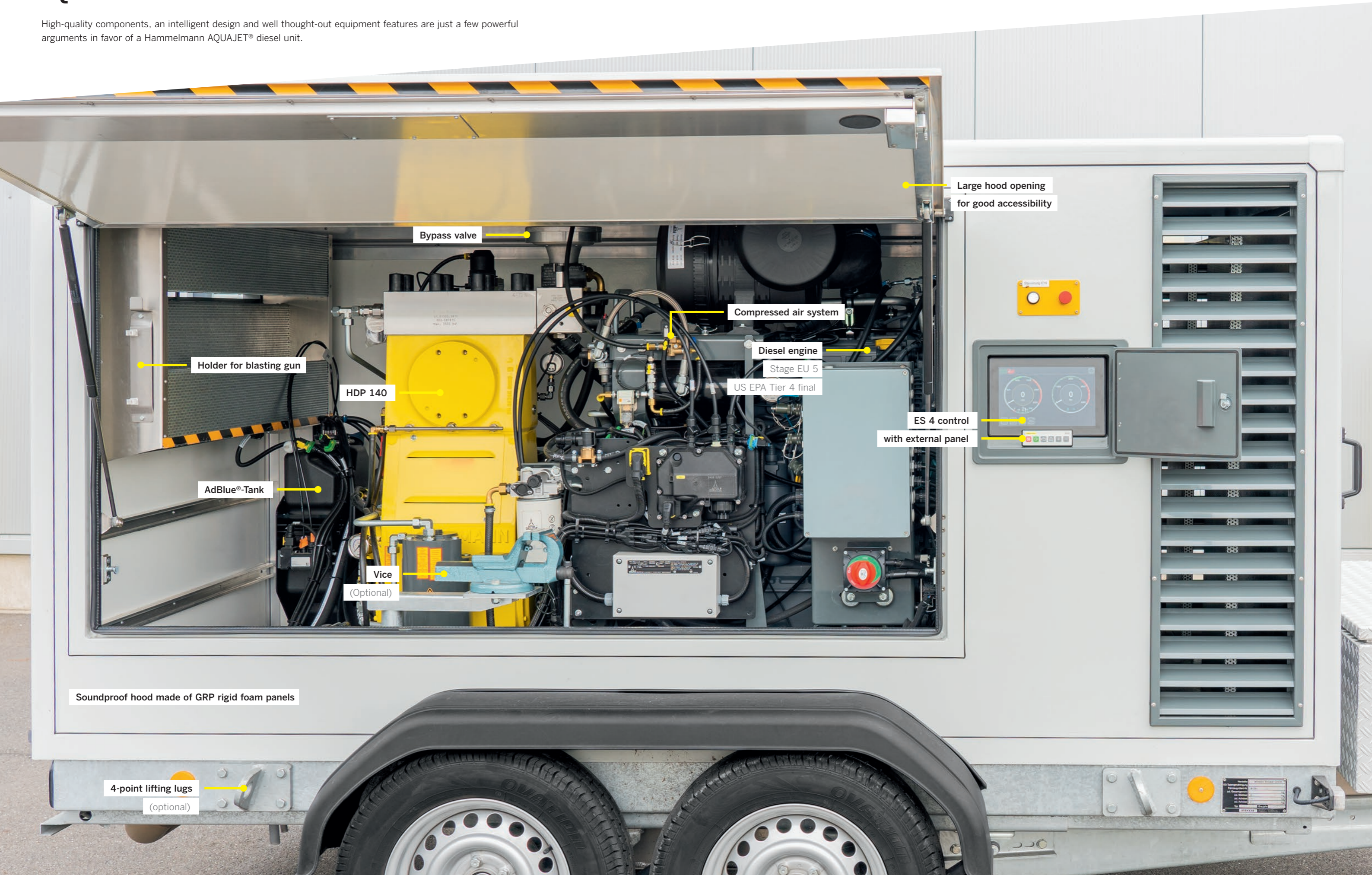
ES 4 – THE CLEVER CONTROL UNIT

- The ES 4 control offers a completely revised user interface and offers improved clarity and usability.
- Splashproof 10" high-resolution anti-glare touch display (1280x800 px).
- Additional keypad suitable for construction sites for operating the most important functions.
- Luminous and easy to use even with gloves.
- Engine speed, working pressure, fuel gauge at a glance.
- Communication via CAN bus - increased reliability because the number of electrical terminal points could be reduced.
- Separate, certified safety control, according to performance level D, machine directive.



AQUAJET® 140 DESIGN

High-quality components, an intelligent design and well thought-out equipment features are just a few powerful arguments in favor of a Hammelmann AQUAJET® diesel unit.



Large hood opening
for good accessibility

Bypass valve

Compressed air system

Diesel engine

Stage EU 5

US EPA Tier 4 final

ES 4 control
with external panel

Holder for blasting gun

HDP 140

AdBlue®-Tank

Vice

(Optional)

Soundproof hood made of GRP rigid foam panels

4-point lifting lugs

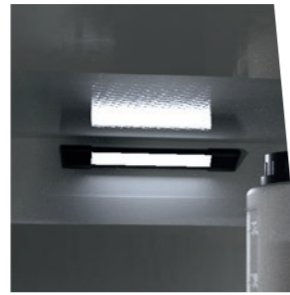
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EQUIPMENT FEATURES



ES 4 CONTROL UNIT

The clever control guarantees full control of all parameters and impresses with a 10" touch display and intuitive operation. The control unit is sturdy enough for construction sites and can be operated with gloves!



LED INTERIOR LIGHTING

Bright LED lights ensure a well-lit interior, even when the sun is already going down.



TIER 5 INDUSTRIAL ENGINE

A powerful 6-cylinder diesel engine from a brand manufacturer is the driving force of the system and offers a lot of smoothness and high power reserves.



ADBLUE®-SYSTEM

85% less nitrogen oxides, more environmental protection and lower fuel consumption.



FULLY GALVANIZED CHASSIS

The rugged and fully galvanized chassis guarantees optimal mobility.



LARGE SET OF TIRES

The large tires ensure good driving characteristics, higher ground clearance and better suspension of the system.



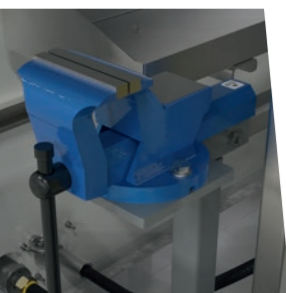
STORAGE BOX

[OPTIONAL]
The high-quality aluminum storage box on the drawbar offers plenty of space for accessories.



FROST PROTECTION SYSTEM

[OPTIONAL]
With the frost protection system, you can easily protect your system when the temperatures drop below freezing point.



VICE

[OPTIONAL]
Perfect for assembly work on-site, like changing of the water tools.



4-POINT LIFTING LUGS

[OPTIONAL]
The 4-point lifting lugs allow the pump unit to be easily and precisely positioned at the place of use.



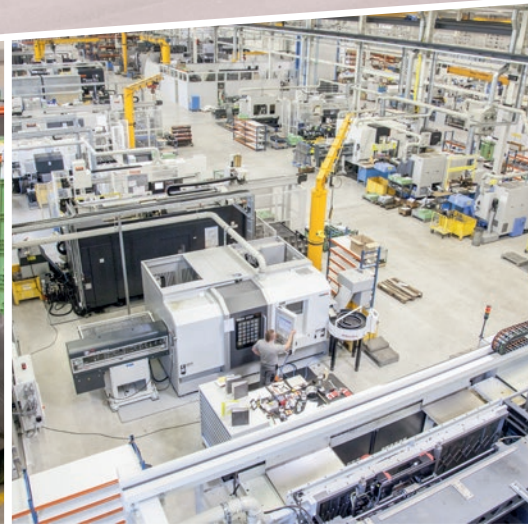
TECHNICAL DETAILS

Type	Plunger Ø	Operating pressure	Flow rate	Engine power	Pump performance	
AQUAJET®	144	17,5 mm	up to 3200 bar	up to 23 l/min.	160 kW	140 kW
	144	20,0 mm	PRESSURE LEVEL 1 up to 2600 bar	up to 30 l/min.		
			PRESSURE LEVEL 2 up to 2800 bar	up to 26 l/min.		
	143	28,0 mm	up to 1800 bar	up to 42 l/min.		
142	30,0 mm	up to 1240 bar	up to 61 l/min.			
	33,0 mm	up to 1030 bar	up to 75 l/min.			

AVAILABLE VERSIONS

Version	Length	Width	Height	Weight
Road going	4677 mm	1905 mm	2000 mm	from 2,75 t
Road going › High Version ‹	4677 mm	1905 mm	2465 mm	from 2,80 t
Basic unit › Incl. fuel tank ‹	2200 mm	1440 mm	2000 mm	from 2,30 t
10"-Container	2990 mm	2440 mm	2720 mm	from 5,00 t

DIMENSIONS AND WEIGHTS DEPEND ON THE DESIGN AND EQUIPMENT SELECTED.
DETAILED SPECIFICATIONS ARE AVAILABLE ON REQUEST.



CERTIFICATES

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018
- ISO 50001:2018
- Achilles Certificate
- ASME Certificate
- SIR Certificate
- Others



The free Hammelmann app

For iOS, Android and your browser

Water Jetting Calculator: hammelmann.com/app

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