

SPIDERJET®-M - MAGNET 3000 BAR

13.H.1 – 08/2022

The SPIDERJET®-M is a mobile high pressure water cleaning device with two-wheels electric motor drive. The SPIDERJET®-M adheres to the work surface using permanent magnets. Jetted water and removed solids can be sucked up by an ancillary vacuum system.



- The rotating spray bar fitted is driven by the reaction force of the water jets.
- The leak-free rotary joint with dynamic high pressure seal ensures a long service life.
- Direct suction (dry vacuuming) allows working with high pressure water without the effluent (jetted water and removed solids) getting into the environment.
- Maximum manoeuvrability via two independent, electrical drives.
- Portable control panel for one-man operation. (⇒ manoeuvring, working speed, switching the high pressure water ON/OFF)
- The mobile control unit controls and monitors all functions necessary for operation and transmits these to the cleaning unit via a control cable.
- Two fall arresters safeguard against falls from vertical or inclined surfaces.
- The special nozzle arrangement gives a homogeneous removal pattern over the complete working width.
- The (rotational) speed of the spray bar can be set by adjusting the nozzles' angle to attack.
- Ideal surface preparation.

APPLICATIONS

- Cleaning, paint removal and de-coating of horizontal, vertical or inclined surfaces made of steel (ferromagnetic).
- Convex work surface with min. radius of 10 m.
- Concave work surface with min. radius of 10 m.
- Not suitable for use in explosive areas.

EXAMPLES OF USE

- Cleaning and paint removal from ships' outer surface.
- Removal of marine growth from ships' hulls.
- External and internal cleaning of large oil storage tanks on oil refineries.



CODE NO.

Spiderjet®-M

00.00078.0074

Spiderjet®-M
with radio control

00.00078.0075

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SPIDERJET[®]-M - MAGNET 3000 BAR

13.H.2 – 08/2022

TECHNICAL DATA

Operating pressure:	max. 3000 bar
Working width:	374 mm
Flow rate:	50 l/min
Rotary speed max.:	3000 min ⁻¹
Reaction force max.:	500 N
Pump power max.:	200 kW
Surface coverage:	up to 70 m ² /h
Travel speed:	7 m/min
Turning circle:	< 2 m
Sealing system rotating joint:	hydrodynamic sealing system

<u>Drive mode:</u>	
└ HP tool:	reaction force powered
└ Travel drive:	electrical

Number of nozzles:	16 pieces - M 10
Nozzle design:	"P" or "T" *

<u>Connection:</u>	
└ Suction hose:	i/d 100 mm
└ Water high pressure:	M 30 x 2
└ Mains electric supply to control panel:	230 ±10 V 16 A, 50/60 Hz

Tension on control cable, suction and high pressure hose:	max. 20 kg (<u>support at 10 m</u>)
Control cable length:	50 m

Dimensions (L x W x H):	797 x 1171 x 479 mm
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Weight (without accessories):	115 kg
└ with radio control:	250 kg

Radio remote control



Construction



	<p>The SPIDERJET-M can <u>also be used as a vacuum version</u>.</p> <p>This requires the HAMMELMANN Vacuum unit 1900, code no. 00.05480.0016. (see illustration „construction“ above)</p>
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	<p>If necessary, the magnets can be disassembled.</p> <p>NOTE! Disassembling of magnets is at user's own risk. Incorrect handling can lead to very serious injuries.</p>
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* Nozzle calculation with „Water Jetting Calculator“: www.water-jetting-calculator.com/nozzlecalculation

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SPIDERJET[®]-M - MAGNET 3000 BAR

13.H.3 – 08/2022

ACCESSORIES (PART OF SUBASSEMBLY)

Description	Code no.
<p>CONTROL PANEL / CABLE TROLLEY</p> <p>Dimensions (L x W x H): 1165 x 600 x 627 mm</p> <p>Weight: 90 kg</p>	<p>00.05150.0024</p>
<p>SAFETY ARRESTER</p> <p>Fall protection with automatic rope retraction device</p> <p>Rope length: 32 m</p> <p>Weight: approx. 20 kg</p>	<p>04.04060.0004</p> <p>(2 pieces required: 1 x right & 1 x left)</p>



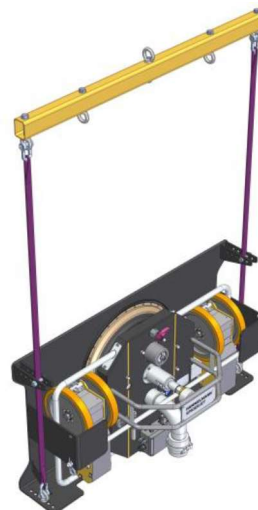
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SPIDERJET[®]-M - MAGNET 3000 BAR

13.H.4 – 08/2022

ACCESSORIES (OPTIONAL)

Description	Code no.
<p>VACUUM SYSTEM - 660</p> <p>System for extraction and pre-filtering of extracted HP water</p> <p>Weight: approx. 1860 kg</p>	<p>00.05480.0019</p> <p>(further information: see chapter 13.K)</p>
<p>SUCTION HOSE</p>	<p>see chapter 13.K</p>
<p>TRANSPORT DEVICE for SPIDERJET[®]-M</p> <p>Weight: approx. 108 kg</p>	<p>00.06034.0010</p>



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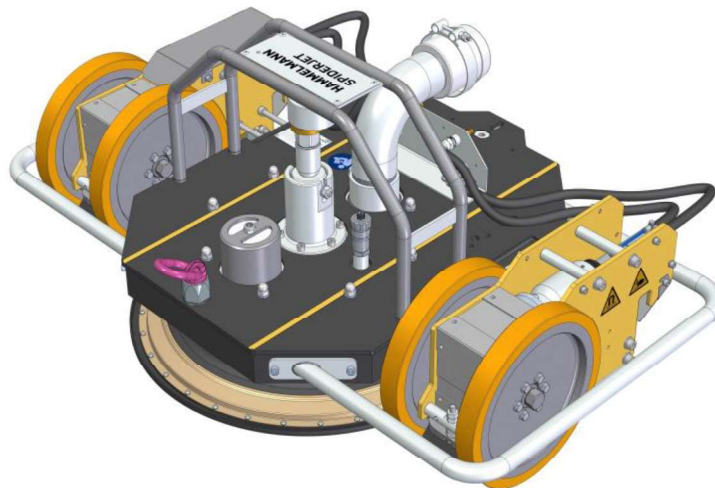
SPIDERJET[®]-M - ATEX

3000 BAR

13.H.5 – 08/2022

The SPIDERJET[®] M ATEX is a mobile high pressure water cleaning device with two-wheels electric motor drive. The device is designed for use in hazardous zones in accordance to ATEX directive II 3 G Ex h IIC T4 Gc.

The SPIDERJET[®] M ATEX is attached to the work surface with permanent magnets. The vacuum system immediately retrieves all waste water and removed solids and allows for further processing.



- The rotating spray bar fitted is driven by the reaction force of the water jets.
- Leak-free rotary joints with dynamic high-pressure seals ensure long service intervals.
- Direct suction (dry vacuuming) allows working with high pressure water without the effluent (jetted water and removed solids) getting into the environment.
- Maximum manoeuvrability via two independent, electrical drives.
- Portable control panel for one-man operation.
(⇒ manoeuvring, working speed, switching the high pressure water ON/OFF)
- Two fall arresters safeguard against falls from vertical or inclined surfaces.
- The special nozzle arrangement gives a homogeneous removal pattern over the complete working width.
- Variable speed adjustment of the nozzle bar by changing the nozzle angle.
- Ideal surface preparation.

CODE NO.	
SPIDERJET [®] -M ATEX	00.00078.0082
SPIDERJET [®] -M ATEX with remote control	00.00078.0072

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SPIDERJET[®]-M - ATEX

3000 BAR

13.H.6 – 08/2022

APPLICATIONS

- Cleaning, paint removal and de-coating of horizontal, vertical or inclined surfaces made of steel (ferromagnetic).
- Drives with self-adjusting camber adapt to the surface to be cleaned.
- Convex work surface with min. radius of 10 m.
- Concave work surface with min. radius of 10 m.
- Suitable for use in explosive areas:
Ex zone II 3 G Ex h IIC T4 Gc.

TECHNICAL DATA

Operating pressure:	max. 3000 bar
Working width:	374 mm
Flow rate:	50 l/min
Rotary speed max.:	3000 min ⁻¹
Reaction force max.:	500 N
Surface coverage:	up to 70 m ² /h
Travel speed:	6.5 m/min
Turning circle:	< 2 m
Nominal power:	0.46 kW
Air consumption at nominal power:	17 l/s
Air brake pressure:	min. 3 bar
Sealing system rotating system:	hydrodynamic sealing system
Number of nozzles:	16 pieces - M10
Düsentyp:	“P” or “T”
Drive mode:	
└ HP tool:	reaction force powered
└ Travel drive:	pneumatically
Connection:	
└ Suction hose:	i/d 100 mm
└ Water high pressure:	M 30 x 2
└ Mains electric supply to control panel:	230 ±10 V 16 A, 50/60 Hz
Tension on control cable suction high pressure hose:	max. 20 kg (support at 10 m)
Compressed air control line:	30 m
Dimensions (L x W x H):	797 x 1171 x 479 mm
Weight (without accessories):	115 kg
└ with radio control:	250 kg

* Nozzle calculation „Water Jetting Calculator“: www.water-jetting-calculator.com/nozzlecalculation

EXAMPLES OF USE

- Cleaning and paint removal from ships' outer surface.
- Removal of marine growth from ships' hulls.
- External and internal cleaning of large oil storage tanks on oil refineries.

Construction



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SPIDERJET[®]-M - ATEX

3000 BAR

13.H.7 – 08/2022

EXPLANATION EX-PROTECTION: **Ex-Zone II 3 G Ex h IIC T4 Gc**

- II = Equipment group II = high level of protection (dust and gas atmospheres)
- 3 = Equipment category 3 = normal level of safety – operation possible in zone 2/22
- G = Type of explosive atmosphere = dust-air mixtures
- Ex = The device complies with one or more ignition protection types (marking as of december 2004)
- h = Non-electrical ignition protection type = constructive safety “c”, ignition source monitorin “b” and / or liquid encapsulation “k” (EN ISO 80079-36 / EN ISO 80079-37)
- IIC = Explosion group = permissible gases depending on temperature class (e. g. hydrogen)
- T4 = Temperature class < 135°C
- Gc = Equipment protection level (EPL) = gases, fog, vapors treten wahrscheinlich nicht auf, und wenn, dann nur selten oder kurzzeitig



Operation of the bypass control in the Ex-area is **only permitted with an isolating switch amplifier**, which is installed **outside** the hazardous area.

Isolating switch amplifier 00.06700.0400 for installation in the bypass control line.

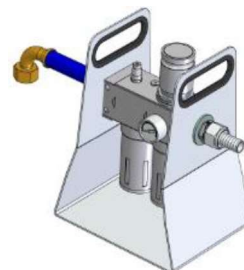
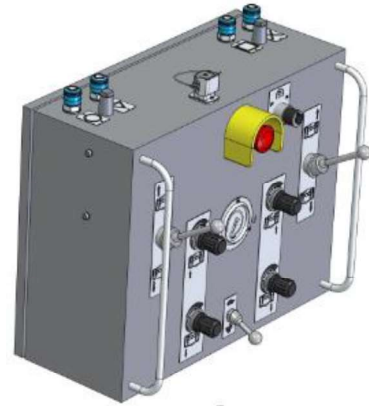
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SPIDERJET[®]-M - ATEX 3000 BAR

13.H.8 – 08/2022

ACCESSORIES (PART OF SUBASSEMBLY)

Description	Code no.
<p>CONTROL PANEL</p> <p>Dimensions (L x W x H): 500 x 400 x 210 mm</p> <p>Air connection: M30 x 2 DKL Connection: Bypass cable</p> <p>Weight: approx. 30 kg</p>	<p>00.05150.0023</p>
<p>SAFETY ARRESTER</p> <p>Fall protection with automatic rope retraction device</p> <p>Rope length: 32 m</p> <p>Weight: approx. 20 kg</p>	<p>04.04060.0004</p> <p>(2 pieces required: 1 x right & 1 x left)</p>
<p>MAINTENANCE UNIT</p> <p>Weight: approx. 6 kg</p>	<p>00.00888.0004</p>



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SPIDERJET[®]-M - ATEX 3000 BAR

13.H.9 – 08/2022

ACCESSORIES (OPTIONAL)

Description	Code no.
<p>VACUUM SYSTEM - 660</p> <p>System for extraction and pre-filtering of extracted HP water</p> <p>Weight: approx. 1860 kg</p>	<p>00.05480.0019</p> <p>(further information: see chapter 13.K)</p>
<p>SUCTION HOSE</p>	<p>see chapter 13.K</p>
<p>TRANSPORT DEVICE for SPIDERJET[®]-M</p> <p>Weight: approx. 108 kg</p>	<p>00.06034.0008</p>

