# HD 9/100-4 CAGE CLASSIC

The HD 9/100-4 Cage Classic ultra high-pressure cleaner stands out thanks to a working pressure of 1000 bar, an hourly flow rate of 900 l and a bypass trigger gun. Removes even extremely stubborn dirt.

Made in Germany

4-6 h

FLAT FREE TIRES

1000 bar

ELECTRIC

| Order no. | 1.812-000.0 |
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- 4-pole air-cooled electric motor

## Technical data

| | | |
|---|---|---|
| **EAN code** | | 4054278303130 |
| **Working pressure** | **bar / MPa** | 1000 / 100 |
| **Flow rate** | **l/h** | 980 |
| **Inlet temperature** | **°C** | 45 |
| **Fuel** | | Electric |
| **Motor rating** | **kW** | 35 |
| **Number of current phases** | **Ph** | 3 |
| **Voltage** | **V** | 380 – 415 |
| **Frequency** | **Hz** | 50 |
| **Pump type** | | Crankshaft |
| **Weight without accessories** | **kg** | 378 |
| **Weight (with accessories)** | **kg** | 392 |
| **Weight incl. packaging** | **kg** | 395.5 |
| **Dimensions (L × W × H)** | | 1395 × 789 × 1088 |

**This machine requires instruction.**

## Scope of supply

**Spray gun:** UHP trigger gun (Dump Gun)

**Stainless steel spray lance:** 750 mm

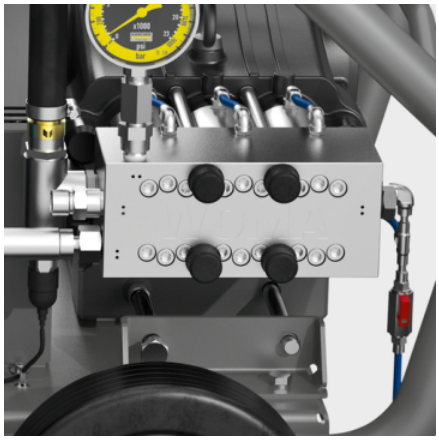
**Flat jet nozzle**

## Equipment

**High-pressure hose length:** 20 m

**Safety valve**

**Elapsed time counter**



### Powerful industrial high-pressure pump

- Plunger made from carbide for a long service life.
- Maintenance-friendly design that makes replacing wear parts such as valves, seals and plungers easy.
- Central valve design for high volumetric effectiveness.

### User-friendly WOMA trigger gun

- Ergonomic handle and lightweight design for ease of operation.
- Reduced trigger forces for effortless working.

### Durable and robust

- Low operation and service costs.
- Prevents any sudden recoil for the user, as the pressure is built up slowly when pulling the trigger gun.

# ACCESSORIES FOR HD 9/100-4 CAGE CLASSIC
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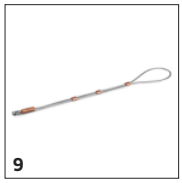
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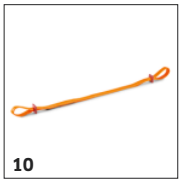
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| | | Order no. | Description | |
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| **ULTRA-HIGH-PRESSURE CLEANERS** | | | | |
| **Attachment kits** | | | | |
| Filter fleece filter housing 100 µm | 1 | 6.414-074.0 | 5 pc. fleece filter bags, 100 µm for filter casing. | ■ |
| Attachment kit for advance pressure pump | 2 | 2.637-017.0 | Booster pump attachment kit for reliable high-pressure pump water supply. The advance pressure pump is installed in the machine. | ☐ |
| Filter fleece, filter casing | 3 | 6.414-073.0 | Filter fleece, 50 µm for filter casing. Contents: Pack of 5. | ☐ |
| Splash guard | 4 | 9.871-040.0 | Splash guard for pushing onto the spray lance. | ☐ |
| **High-pressure hoses** | | | | |
| Pressure hose, 20 m, 1100 bar, M24 × 1.5 | 5 | 9.919-791.0 | Durable, abrasion-resistant and flexible multi-layer steel-reinforced hose with connection size M 24 × 1.5. Suitable for up to 1100 bar working pressure. | ■ |
| Pressure hose, 40 m, 1100 bar, M24 × 1.5 | 6 | 9.919-912.0 | Abrasion-resistant, flexible and thanks to multilayer steel casing also very durable hose with 40 m length. Suitable for up to 1100 bar working pressure. Connection size M 24 × 1.5. | ☐ |
| Pressure hose, 10 m, 1250 bar, M24 × 1.5 | 7 | 9.887-894.0 | The 10 m long high-pressure hose is more abrasion-resistant and long-lasting than the standard hose. Suitable for up to 1250 bar working pressure and the connection size M 24 × 1.5. | ☐ |
| Pressure hose, 20 m, 1250 bar, M24 × 1.5 | 8 | 9.887-895.0 | Abrasion-resistant and extremely long-lasting: The 20 m long high-pressure hose is suitable for up to 1250 bar working pressure and the connection size M 24 × 1.5. | ☐ |
| Metal safety sling | 9 | 9.887-583.0 | Hose sling for securing high-pressure hose at machine. Prevents uncontrolled lashing in the event of malfunctions, thus minimising the risk of injury for the operator. | ☐ |
| Textile safety sling | 10 | 9.920-368.0 | | ☐ |
| Mounting rope, 0.5 m | 11 | 6.025-311.0 | Fastening rope | ☐ |
| Shackles | 12 | 6.025-195.0 | Sturdy shackles for fastening slings for high-pressure hoses at machine. | ☐ |
| **Trigger guns** | | | | |
| UHP trigger gun | 13 | 9.918-187.0 | The bypass trigger gun is suitable for working pressures of up to 3000 bar. The water flows into a bypass when the trigger gun is closed. Connection for high-pressure hose, 9/16" UNF. | ■ |
| Hose connection | 14 | 9.871-969.0 | Hose connection with the connection size M 24 × 1.5 for fastening at the UHP trigger gun. | ■ |

■ Included in the scope of supply. ☐ Available accessories.

# ACCESSORIES FOR HD 9/100-4 CAGE CLASSIC
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| | | Order no. | Description | |
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| **ULTRA-HIGH-PRESSURE CLEANERS** | | | | |
| **Trigger guns** | | | | |
| Adapter for pressures of up to 1500 bar when using the dump gun | 15 | 9.918-624.0 | Adapter for bypass trigger gun for pressures of up to 1500 bar. Connection for high-pressure hose, M24 × 1.5. | ■ |
| Bypass pipe | 16 | 9.918-623.0 | Bypass pipe for rerouting the bypass water from the bypass trigger gun. | ■ |
| Shoulder support | 17 | 9.918-752.0 | Sturdy shoulder support that must be used from a recoil force of more than 150 N. | ☐ |
| DSA 1500 M24X1.5 24°DK | 18 | 9.872-437.0 | Necessary connection element (M 24 × 1.5) for installation of high-pressure hose at UHP trigger gun. The hose remains rotatable relative to the trigger gun. Suitable for up to 1500 bar working pressure. | ☐ |
| **Spray lances** | | | | |
| Spray lance | 19 | 9.891-183.0 | Spray lance with connection size 9/16" UNF. Suitable for up to 1,500 bar working pressure. | ■ |
| Nozzle pipe | 20 | 9.891-182.0 | Spray lance with connection size 9/16" UNF. Suitable for up to 1500 bar working pressure. | ☐ |
| Spray lance | 21 | 9.891-184.0 | Spray lance with connection size 9/16" UNF. Suitable for up to 1,500 bar working pressure. | ☐ |
| | 22 | 9.891-207.0 | | ☐ |
| | 23 | 9.891-185.0 | Spray lance with connection size 9/16" UNF. Suitable for working pressures of up to 1500 bar . | ☐ |
| Spray lance handle | 24 | 6.025-300.0 | Spray lance handle. | ☐ |
| Spray lance handle, 90° | 25 | 9.871-675.0 | Side handle for spray lance. 90° angle to spray lance axis. Flexible and individually adjustable. | ☐ |
| **Couplings and connectors** | | | | |
| Hose connector | 26 | 9.877-911.0 | For connecting and extending high-pressure hoses with connection M 24 × 1.5. | ☐ |
| Pressure screw | 27 | 9.883-492.0 | Thrust screw with connection size M26 × 1.5. | ☐ |
| Pressure ring | 28 | 9.883-570.0 | Thrust collar with connection size 9/16" UNF. | ☐ |

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# ACCESSORIES FOR HD 9/100-4 CAGE CLASSIC 1.812-000.0

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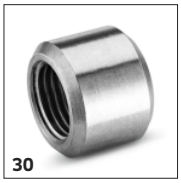
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| | | Order no. | Description | |
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| **ULTRA-HIGH-PRESSURE CLEANERS** | | | | |
| **Couplings and connectors** | | | | |
| Pressure screw | 29 | 9.883-669.0 | Pressure screw, connection size 1 1/8" UNF. | ☐ |
| Pressure ring | 30 | 9.883-670.0 | Pressure ring, connection size 9/16" UNF. | ☐ |
| Grease for stainless steel threaded joints | 31 | 6.280-180.0 | Grease for stainless steel screw connections. | ☐ |
| **Abrasive blaster** | | | | |
| Replacement nozzle for abrasive blaster | 32 | 6.025-346.0 | Replacement nozzle for abrasive spray head made from boron carbide. Colour blue. | ☐ |
| F98 nozzle set, 0.60 mm | 33 | 9.886-550.0 | | ☐ |
| Nozzle F98 for abrasive blaster | 34 | 6.025-256.0 | 0.6 mm | ☐ |
| Suction lance | 35 | 6.025-258.0 | For the suction of spray agents. | ☐ |
| Mounting tool for nozzle set | 36 | 6.025-257.0 | For F98 nozzles. | ☐ |
| Abrasive | 37 | 6.025-309.0 | 25 kg, 0.5–1.00 mm, garnet sand. | ☐ |
| | 38 | 6.025-310.0 | 25 kg, 0.7–1.40 mm, garnet sand. | ☐ |
| Abrasive sprayer | 39 | 9.872-250.0 | Abrasive spray head for wet sand blasting. Nozzle size: 3 × 0.6. Only includes spray head. Without hose and lance. | ☐ |
| Abrasive material hose | 40 | 6.025-308.0 | Abrasive hose. | ☐ |
| **NOZZLES** | | | | |
| **Plug-in nozzles F4/F19** | | | | |
| Nozzle carrier F4/F19 | 41 | 9.872-008.0 | Nozzle carrier for nozzle F4 / F19. Suitable for working pressures of up to 1,500 bar. | ■ |
| O-ring | 42 | 6.025-168.0 | For nozzle carrier F4/F19. | ■ |

■ Included in the scope of supply. ☐ Available accessories.

# ACCESSORIES FOR HD 9/100-4 CAGE CLASSIC 1.812-000.0

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| | | Order no. | Description | |
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| **NOZZLES** | | | | |
| **Plug-in nozzles F4/F19** | | | | |
| Flat jet nozzle F19, 1,1 mm, 20 ° | 43 | 6.025-466.0 | Plug-in flat jet nozzle F19 with a diameter of 1.10 mm and 20°. Suitable for working pressures of up to 1,500 bar. | ■ |
| Round jet nozzle F4, 0,9 mm | 44 | 6.025-470.0 | Plug-in round jet nozzle F4 with a diameter of 0.90 mm. Suitable for working pressures of up to 1,500 bar. | ☐ |
| Round jet nozzle F4, 1 mm | 45 | 6.025-198.0 | Plug-in round jet nozzle F4 with a diameter of 1.00 mm. Suitable for working pressures of up to 1,500 bar. | ☐ |
| Round jet nozzle F4, 1,1 mm | 46 | 9.885-951.0 | Plug-in round jet nozzle F4 with a diameter of 1.10 mm. Suitable for working pressures of up to 1,500 bar. | ☐ |
| Round jet nozzle F4, 1,2 mm | 47 | 6.025-199.0 | Plug-in round jet nozzle F4 with a diameter of 1.20 mm. Suitable for working pressures of up to 1,500 bar. | ☐ |
| Round jet nozzle F4, 1,3 mm | 48 | 6.025-196.0 | Plug-in round jet nozzle F4 with a diameter of 1.30 mm. Suitable for working pressures of up to 250 bar with water flow rate of 900 l/h. | ☐ |
| Flat jet nozzle F19, 1,2 mm, 20 ° | 49 | 6.025-207.0 | Plug-in flat jet nozzle F19 with a diameter of 1.20 mm and 20°. Suitable for working pressures of up to 1,500 bar. | ☐ |
| Flat jet nozzle F19, 1,4 mm, 20 ° | 50 | 6.025-211.0 | Plug-in flat jet nozzle F19 with a diameter of 1.40 mm and 20°. Suitable for working pressures of up to 1,500 bar. | ☐ |
| Flat jet nozzle F19, 1,5 mm, 20 ° | 51 | 6.025-203.0 | Plug-in flat jet nozzle F19 with a diameter of 1.50 mm and 20°. Suitable for working pressures of up to 1,500 bar. | ☐ |
| Flat jet nozzle F19, 1,1 mm, 30 ° | 52 | 6.025-467.0 | Plug-in flat jet nozzle F19 with a diameter of 1.10 mm and 30°. Suitable for working pressures of up to 1,500 bar. | ☐ |
| Flat jet nozzle F19, 1,2 mm, 30 ° | 53 | 6.025-208.0 | Plug-in flat jet nozzle F19 with a diameter of 1.20 mm and 30°. Suitable for working pressures of up to 1,500 bar. | ☐ |
| Flat jet nozzle F19, 1,3 mm, 30 ° | 54 | 6.025-469.0 | Plug-in flat jet nozzle F19 with a diameter of 1.30 mm and 30°. Suitable for working pressures of up to 1,500 bar. | ☐ |
| Flat jet nozzle F19, 1,4 mm, 30 ° | 55 | 6.025-212.0 | Plug-in flat jet nozzle F19 with a diameter of 1.40 mm and 30°. Suitable for working pressures of up to 1,500 bar. | ☐ |
| Flat jet nozzle F19, 1,5 mm, 30 ° | 56 | 6.025-204.0 | Plug-in flat jet nozzle F19 with a diameter of 1.50 mm and 30°. Suitable for working pressures of up to 1,500 bar. | ☐ |

■ Included in the scope of supply. ☐ Available accessories.

# ACCESSORIES FOR HD 9/100-4 CAGE CLASSIC 1.812-000.0

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| | | Order no. | Description | |
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| **NOZZLES** | | | | |
| **Screw nozzles F21** | | | | |
| Nozzle carrier F21 | 57 | 9.878-291.0 | Nozzle carrier for sapphire nozzle F21. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Dummy nozzle F21 | 58 | 6.025-237.0 | F21 screw-on dummy nozzle. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,35 mm | 59 | 9.886-208.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.35 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,4 mm | 60 | 9.886-209.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.40 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,45 mm | 61 | 6.025-220.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.45 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,55 mm | 62 | 9.886-211.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.55 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,6 mm | 63 | 9.886-212.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.60 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,65 mm | 64 | 6.025-221.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.65 mm. Suitable for working pressures of up to 2,500 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,7 mm | 65 | 6.025-222.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.70 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,75 mm | 66 | 9.886-213.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.75 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,8 mm | 67 | 9.886-214.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.80 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,85 mm | 68 | 9.886-215.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.85 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,9 mm | 69 | 9.886-216.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.90 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,95 mm | 70 | 9.886-217.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.95 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |

☐ Available accessories.

# ACCESSORIES FOR HD 9/100-4 CAGE CLASSIC
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| | | Order no. | Description | |
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| **NOZZLES** | | | | |
| **Screw nozzles F21** | | | | |
| Round jet nozzle F21, Saphir, 1 mm | 71 | 9.886-218.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 1.00 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 1,1 mm | 72 | 9.886-219.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 1.10 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,3 mm | 73 | 9.886-207.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.30 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| Round jet nozzle F21, Saphir, 0,5 mm | 74 | 9.886-210.0 | Screw-on F21 sapphire round jet nozzle with a diameter of 0.50 mm. Suitable for working pressures of up to 3,000 bar. | ☐ |
| **PROTECTIVE CLOTHING** | | | | |
| HD Overall size M | 75 | 6.547-055.0 | High-pressure protective suit for safe working with high-pressure water jets of up to 1000 bar. Particularly lightweight design which feels comfortable to wear and provides excellent freedom of movement. | ☐ |
| High-pressure protective suit, size L | 76 | 6.547-056.0 | | ☐ |
| HD Overall size XL | 77 | 6.547-057.0 | | ☐ |
| **ROTARY NOZZLES** | | | | |
| **Single-jet rotary nozzles** | | | | |
| Orbimaster, 1 mm | 78 | 9.886-666.0 | High area performance due to orbital movement of the water stream. Rotor and seat made of hard metal, casing made of high-strength stainless steel. Easy rotor replacement. Suitable for hot water operation up to 100°C. Self-propelling. Low weight. | ☐ |
| Repair kit Orbimaster, 1 mm | 79 | 9.884-069.0 | Repair kit Orbimaster, comprising rotor, fitting and O-ring. Suitable for our single rotary nozzle (Order No. 9.886-666.0). Can be used up to 1,500 bar water pressure. | ☐ |
| **Multi-jet rotary nozzles** | | | | |
| Nozzle carrier head TD06 | 80 | 9.886-875.0 | 6-jet nozzle carrier head for F21 nozzle. Suitable for working pressures of up to 3,000 bar. 30° spray angle, includes guard and flow conditioner. | ☐ |
| Nozzle carrier head TD08 | 81 | 9.886-879.0 | 6-jet nozzle carrier head for F21 nozzle. Suitable for working pressures of up to 3,000 bar. 25° spray angle, includes guard and flow conditioner. | ☐ |
| Nozzle carrier head TD10 | 82 | 9.918-067.0 | 4-jet nozzle carrier head for F21 nozzle. Suitable for working pressures of up to 3000 bar. 45° spray angle, includes guard and flow conditioner. | ☐ |
| Nozzle body | 83 | 9.917-677.0 | Rotary transmission lead-through with infinitely variable speed control. Includes protective pipe. | ☐ |
| Nozzle carrier head TD09 | 84 | 9.899-828.0 | 6-jet nozzle carrier head for F21 nozzle. Suitable for working pressures of up to 3,000 bar. 35° spray angle, includes guard and flow conditioner. | ☐ |

☐ Available accessories.