HIGH PRESSURE CLEANING MACHINES
**High Pressure Cleaner 440**

**Code No. EP44H** with pressure Gauge: Code No. EP45H

- **Discharge:** 3.7L/min
- **Pressure:** 3.9MPa
- **200V Voltage**
- **Self-Priming**

Optional Item:

- **High pressure hose 8m**: EP450, Gun body: EP442
- **High pressure hose 18m**: EP207, Lance assembly: EP273
- **Water tap connecting hose**: EP252, Lance 150mm assembly: EP275
- **Spray gun**: EP430

**With plastic case which can be used as water tank.**

Can be used for gardening sprayer as it is easy to adjust pressure.

Durable glycerin-filled pressure gauge.

**For cleaning fins of air conditioning unit**

**Hot Water Cleaner 15/80H**

- **50Hz**: Code No. HD1508HE
- **60Hz**: Code No. HD1508H

**Hot Water Cleaner 15/100H**

- **50Hz**: Code No. HD1510HE
- **60Hz**: Code No. HD1510H

**Hot & Cold Water**

**Three phase 200V**

**Direct from water tap**

**With suitable water volume and pressure for cleaning fins of air conditioning unit without damage!!**

**Spray Gun Kit (Lance + Gun)**

Ideal for cleaning fins of A/C. By replacing the standard lance with the 150mm lance it is possible to clean fins of room A/C.

Optional Item:

- **Lance assembly**: Ideal for cleaning fins of A/C.
  - Lance assembly length: 360mm
  - Gun body length: 190mm
- **Lance 150mm assembly**: Ideal for cleaning fins of room A/C.
  - Lance 150mm assembly length: 160mm

**Prevention device for burning boiler**

Heating is not activated if there is no water flow.

**Water tap is optional.**

Can be used as hot-water supply system.

**Operation Display**

Easy operation design.

**Heater for freeze protection**

Equipped heater to prevent from freezing.

**Stainless steel boiler**

Includes stainless steel boiler for high thermal efficiency.

**Prevention device for burning boiler**

Heating is not activated if there is no water flow.

**Water tap is optional.**

Can be used as hot-water supply system.

**For cleaning construction equipment, agricultural machines, etc**

**Hot Water Cleaner 15/80H**

- **50Hz**: Code No. HD1508HE
- **60Hz**: Code No. HD1508H

**Hot Water Cleaner 15/100H**

- **50Hz**: Code No. HD1510HE
- **60Hz**: Code No. HD1510H

**Powerful cleaning by hot water up to 80℃!!**

**Optional Item**

- **Water protection cover for smoke stack**: Code No. HD02014
- **Hot water tap for washing**: Code No. HD02015
### High Pressure Cleaner 10/100G

**Code No:** HD1010G

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge</td>
<td>10.0L/min</td>
</tr>
<tr>
<td>Pressure</td>
<td>10.0MPa (102kgf/cm²)</td>
</tr>
<tr>
<td>Pipe cleaning capacity</td>
<td>~ ø 110mm</td>
</tr>
<tr>
<td>Weight</td>
<td>26kg</td>
</tr>
<tr>
<td>High Pressure Hose</td>
<td>Standard: 10m, Max length: 60m</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>3.1L</td>
</tr>
<tr>
<td>Standard Accessories</td>
<td>High Pressure Hose 1/4&quot; × 10m, Dural Gun, Variable Lance, Water Suction Hose 3m</td>
</tr>
</tbody>
</table>

**Varieties of accessories**

- **Unloader Valve**: Protects pump and motor.
- **Plunger pump**: Durable & high performance triple plunger pump.
- **Air relief valve**: For sufficient self suction.

**Features**

- **Compact body with high performance**: Light weight and compact even with engine!!

**Engine Type**

- **Engine** 2.1kW
- **Self-Priming**
- **From water tap**: Optional Item
- **Pipe Cleaning**: Optional Item

**Ideal for**

- Peeling fruit trees with turbo gun!! (Optional Item)

### High Pressure Cleaner 13/150G

**Code No:** HD1315G

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge</td>
<td>13.0L/min</td>
</tr>
<tr>
<td>Pressure</td>
<td>14.7MPa (150kgf/cm²)</td>
</tr>
<tr>
<td>Pipe cleaning capacity</td>
<td>~ ø 110mm</td>
</tr>
<tr>
<td>Weight</td>
<td>33kg</td>
</tr>
<tr>
<td>High Pressure Hose</td>
<td>Standard: 20m, Max length: 100m</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>3.6L</td>
</tr>
<tr>
<td>Standard Accessories</td>
<td>High Pressure Hose 3/8&quot; × 20m, Variable Gun, Water Suction Hose 3m, Residual Water Hose</td>
</tr>
</tbody>
</table>

**Varieties of accessories**

- **Variable Gun**: Standard accessory of Variable Gun for wide range of applications.
- **Unloader Valve**: Durable & high performance triple plunger pump.
- **Air relief valve**: Protects pump and motor.
- **Wheels**: For sufficient self suction.
- **Plunger Pump**: Large wheels for easy transportation.

**Features**

- **Compact body with high performance**: Light weight and compact even with engine!!

**Engine Type**

- **Engine** 3.7kW
- **Self-Priming**
- **With Stainless Steel one-touch coupler**
- **From water tap**: Optional Item
- **Pipe Cleaning**: Optional Item

**Ideal for**

- Cleaning water filtration tank, building wall, etc

**Optional Item**

- P.87
**High Pressure Cleaner 12/80G**

**Code No. HD128**

<table>
<thead>
<tr>
<th>Item</th>
<th>12/80G</th>
<th>16/150G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge Capacity</td>
<td>12.0L/min</td>
<td>21.0L/min</td>
</tr>
<tr>
<td>Pressure</td>
<td>7.8MPa (80kgf/cm²)</td>
<td>8.8MPa (90kgf/cm²)</td>
</tr>
<tr>
<td>Pipe cleaning capacity</td>
<td>ø110mm</td>
<td>ø200mm</td>
</tr>
<tr>
<td>Weight</td>
<td>30kg</td>
<td>47kg</td>
</tr>
<tr>
<td>High pressure hose</td>
<td>Standard : 10m Max length:100m</td>
<td>Standard : 20m Max length:100m</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>3.0L</td>
<td>6.0L</td>
</tr>
<tr>
<td>Standard accessories</td>
<td>High Pressure Hose 3/8” ×10m, Variable Gun, Water Suction Hose 3m</td>
<td>High Pressure Hose 3/8” ×20m, Dual Gun, Water Suction Hose 3m, Residual Water Hose 3m</td>
</tr>
</tbody>
</table>

For cleaning water filtration tank, water reservoir, etc.

**Engine type**

- **HD128**
- **HD2109G**
- **HD1615G**

**Variable Gun**

- **Straight Shape**
- **Fan Shape**

Standard accessory of Variable Gun for wide range of applications.

- Straight: For stubborn stains
- Fan: Flushing and cleaning wide range.

**Long life**

Low speed engine and pump assure long life.

**Plunger Pump**

Durable & high performance triple plunger pump.

**Pressure gauge**

Durable glycerin-filled pressure gauge with stable needle easy to read.

**Air relief valve**

Sufficient self suction with air relief valve.

**Wheels**

Large wheels for easy transportation.

**For cleaning pipes models on P94.**

**High Pressure Cleaner 21/90G**

**Code No. HD2109G**

**Engine 4.7kW**

- **Self-Priming**
- **With Stainless Steel one-touch coupler**
- **Optional Item P.87**
- **Pipe Cleaning Optional Item**

**High Pressure Cleaner 16/150G**

**Code No. HD1615G**

**Engine 4.7kW**

- **Self-Priming**
- **With Stainless Steel one-touch coupler**
- **Optional Item P.87**
- **Pipe Cleaning Optional Item**

**Dual Gun**

- **Straight Shape (right)**
- **Fan Shape (15°)**
- **Twisting right**
- **Twisting left**

Two nozzles enable two types of spray, i.e. straight and fan shape.

- Straight spray by twisting right and fan spray by twisting left.

**Plunger Pump**

Durable & high performance triple plunger pump.

**Unloader valve**

Protects pump and motor.

**Air relief valve**

Sufficient self suction.

**Wheels**

Large wheels for easy transportation.

**For cleaning pipes models on P94.**

**High class High Pressure Cleaner at discharging volume & pressure!!**
High Pressure Cleaner 16/200G
Code No. HD1620G

<table>
<thead>
<tr>
<th>Discharge</th>
<th>Pressure</th>
<th>Engine</th>
<th>Self-Priming</th>
<th>With Stainless Steel one-touch coupler</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.0L/min</td>
<td>19.6MPa</td>
<td>5.1kW</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **From water tap Optional Item:** P.87
- **Pipe Cleaning Optional Item:**

- **Discharge Volume:** 16.0L/min
- **Pressure:** 19.6MPa (200kgf/cm²)
- **Pipe Cleaning Capacity:** ~ ø 150mm
- **Weight:** 57kg
- **High Pressure Hose:** Standard: 20m Max length: 100m
- **Fuel Tank Capacity:** 6.0L
- **Standard Accessories:** High Pressure Hose 3/8” × 20m, Dual Gun, Water Suction Hose 3m, Residual Water Hose 3m

- **High performance model with high pressure and moderate discharging volume!**

**Dual Gun**

- **Straight Shape**
  - Twisting right
- **Fan Shape (15°)**
  - Twisting left

Two nozzles enable two types of spray, i.e. straight and fan shape. Straight spray by twisting right and fan spray by twisting left.

- **Plunger Pump**
  - Durable & high performance triple plunger pump.

- **Wheels**
  - Large wheels for easy transportation.

- **Unloader Valve**
  - Protects pump and motor.

- **Air Relief Valve**
  - Sufficient self suction.

- **Durable & high performance triple plunger pump.**
- **Adjustable gun from straight to fan shaped spray. Ideal for cleaning mud at dismantling work sites.**
- **Plunger Pump**
  - Durable & high performance triple plunger pump.
- **Air Chamber**
  - Decreases pulsation of discharge pressure.
- **Foldable Handles**
  - Easy transportation with foldable handles and large wheels.

High Pressure Cleaner 30/50G
Code No. HD3005G

<table>
<thead>
<tr>
<th>Discharge</th>
<th>Pressure</th>
<th>Engine</th>
<th>Self-Priming</th>
<th>With Stainless Steel one-touch coupler</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.0L/min</td>
<td>4.9MPa</td>
<td>2.9kW</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Pipe Cleaning Optional Item:**

- **Discharge Volume:** 30.0L/min
- **Pressure:** 4.9MPa (50kgf/cm²)
- **Pipe Cleaning Capacity:** ~ ø 250mm
- **Weight:** 51kg
- **High Pressure Hose:** Standard: 20m Max length: 50m
- **Fuel Tank Capacity:** 3.7L
- **Standard Accessories:** High Pressure Hose 3/8” × 20m, Turbine Gun, Water Suction Hose 3m, Residual Hose 3m

- **Wash out stubborn dirt with big volume of discharging water!!**
Cleaning construction machines, animal shack, chicken shelter, automobile, and inside of pipes. (Pipe Cleaning Hose optionally required)

**Compact**
Small sized - 34kg, soundproof cleaner.

**Automatic air venting function**
After starting the engine, pull the trigger of the gun so that air in the pump and hose is expelled.

**Pressure gauge**
Durable & easy to read glycerin filled pressure gauge.

**Fuel tank**
Made from aluminum plated steel - prevent rust.

**Engine**
2.9kW - High powered engine.

**Easy maintenance**
Loosen just two knobs to remove the front panel for maintenance.

**Soundproof high pressure cleaner suitable for works at night in residential area!!**

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### High Pressure Cleaner 8/100GS

**Code No. HD0810S**

- **Engine type**: Self-Priming
- **Soundproof**: Noise 64dB

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge volume</td>
<td>8.0L/min</td>
</tr>
<tr>
<td>Pressure</td>
<td>10.0MPa (102kgf/cm²)</td>
</tr>
<tr>
<td>Engine</td>
<td>1.6kW</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td></td>
</tr>
<tr>
<td>High pressure hose</td>
<td>Standard: 10m</td>
</tr>
<tr>
<td>Weight</td>
<td>34kg</td>
</tr>
<tr>
<td>Standard Accessories</td>
<td>Variable Gun, High Pressure Hose 1/4&quot; × 10m, Water Suction Hose 3m, Residual Hose 3m, Carry Handle</td>
</tr>
</tbody>
</table>

*Noise level: Average volume measured at 7 meters away.*

### High Pressure Cleaner 13/100GS

**Code No. HD1310S3**

- **Engine type**: Self-Priming
- **Soundproof**: Noise 63dB

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge volume</td>
<td>13.0L/min</td>
</tr>
<tr>
<td>Pressure</td>
<td>10.0MPa (102kgf/cm²)</td>
</tr>
<tr>
<td>Engine</td>
<td>2.9kW</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td></td>
</tr>
<tr>
<td>High pressure hose</td>
<td>Standard: 20m</td>
</tr>
<tr>
<td>Weight</td>
<td>47.5kg</td>
</tr>
<tr>
<td>Standard Accessories</td>
<td>Variable Gun, High Pressure Hose 3/8&quot; × 20m, Water Suction Hose 3m, Residual Water Hose 3m</td>
</tr>
</tbody>
</table>

*Noise level: Average volume measured at 7 meters away.*

### Soundproof high pressure cleaner suitable for works at night in residential area!!

**Easy to start by simply turning the start key!!**
## High Pressure Cleaner 15/150GS

**Code No.** HD1515S

<table>
<thead>
<tr>
<th>Item</th>
<th>15/150GS</th>
<th>23/80GS</th>
<th>20/100GS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge volume</td>
<td>15.0L/min</td>
<td>22.0L/min</td>
<td>20.0L/min</td>
</tr>
<tr>
<td>Pressure</td>
<td>14.7MPa (150kgf/cm²)</td>
<td>10.0MPa (102kgf/cm²)</td>
<td>10.0MPa (102kgf/cm²)</td>
</tr>
<tr>
<td>Pipe cleaning capacity</td>
<td>ø150mm</td>
<td>ø200mm</td>
<td>ø150mm</td>
</tr>
<tr>
<td>Weight</td>
<td>60kg</td>
<td>60kg</td>
<td>60kg</td>
</tr>
<tr>
<td>Power</td>
<td>4.0kW</td>
<td>4.0kW</td>
<td>4.0kW</td>
</tr>
<tr>
<td>High pressure hose</td>
<td>Standard: 20m Max length: 100m</td>
<td>Standard: 20m Max length: 100m</td>
<td>Standard: 20m Max length: 100m</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>6.0L</td>
<td>6.0L</td>
<td>6.0L</td>
</tr>
<tr>
<td>Standard Accessories</td>
<td>Turbine Gun, High Pressure Hose 3/8” × 20m, Water Suction Hose 3m, Residual Hose 3m</td>
<td>Turbine Gun, High Pressure Hose 3/8” × 20m, Water Suction Hose 3m, Residual Hose 3m</td>
<td>Turbine Gun, High Pressure Hose 3/8” × 20m, Water Suction Hose 3m, Residual Hose 3m</td>
</tr>
</tbody>
</table>

**Engine type:** Soundproof: Noise 63dB

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## High Pressure Cleaner 23/80GS

**Code No.** HD2308S

<table>
<thead>
<tr>
<th>Item</th>
<th>23/80GS</th>
<th>20/100GS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge volume</td>
<td>16.0L/min</td>
<td>20.0L/min</td>
</tr>
<tr>
<td>Pressure</td>
<td>19.6MPa (200kgf/cm²)</td>
<td>10.0MPa (102kgf/cm²)</td>
</tr>
<tr>
<td>Pipe cleaning capacity</td>
<td>ø200mm</td>
<td>ø200mm</td>
</tr>
<tr>
<td>Weight</td>
<td>92kg</td>
<td>92kg</td>
</tr>
<tr>
<td>Power</td>
<td>5.5kW</td>
<td>5.5kW</td>
</tr>
<tr>
<td>High pressure hose</td>
<td>Standard: 20m Max length: 100m</td>
<td>Standard: 20m Max length: 100m</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>10.0L</td>
<td>10.0L</td>
</tr>
<tr>
<td>Standard Accessories</td>
<td>Turbine Gun, High Pressure Hose 3/8” × 20m, Water Suction Hose 3m, Residual Hose 3m</td>
<td>Turbine Gun, High Pressure Hose 3/8” × 20m, Water Suction Hose 3m, Residual Hose 3m</td>
</tr>
</tbody>
</table>

**Engine type:** Soundproof: Noise 63dB

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## High Pressure Cleaner 20/100GS

**Code No.** HD2010S

<table>
<thead>
<tr>
<th>Item</th>
<th>20/100GS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge volume</td>
<td>16.0L/min</td>
</tr>
<tr>
<td>Pressure</td>
<td>19.6MPa (200kgf/cm²)</td>
</tr>
<tr>
<td>Pipe cleaning capacity</td>
<td>ø200mm</td>
</tr>
<tr>
<td>Weight</td>
<td>92kg</td>
</tr>
<tr>
<td>Power</td>
<td>5.5kW</td>
</tr>
<tr>
<td>High pressure hose</td>
<td>Standard: 20m Max length: 100m</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>10.0L</td>
</tr>
<tr>
<td>Standard Accessories</td>
<td>Turbine Gun, High Pressure Hose 3/8” × 20m, Water Suction Hose 3m, Residual Hose 3m</td>
</tr>
</tbody>
</table>

**Engine type:** Soundproof: Noise 63dB

---

## For cleaning middle sized water filtration tank, building wall, etc

**High Pressure Cleaner 15/150GS**

**High Pressure Cleaner 23/80GS**

**High Pressure Cleaner 20/100GS**

For cleaning big sized water filtration tank, building wall, etc

**High Pressure Cleaner 16/200GS**

**High Pressure Cleaner 30/100GS**

**Patent**

**Soundproof high class model!!**

**Easy maintenance**

Loosen just two knobs to remove the front panel for maintenance.

**Automatic air venting function**

After starting the engine, pull the trigger of the gun so that air in the pump and hose is expelled.

---

**Oil alarm lamp / Hour meter**

Oil alarm lamp shows low volume of engine oil and automatically stops the engine. Hour meter tells the time to maintain the machine.

**Slow - down function**

When idling, automatically sets the engine at low speed and suppresses the noise.

---

**For cleaning big sized water filtration tank, building wall, etc**

**High Pressure Cleaner 16/200GS**

**High Pressure Cleaner 30/100GS**

**Patent**

**Waterproof & Powerful model!!**

**Easy maintenance**

Loosen just two knobs to remove the front panel for maintenance.

**Automatic air venting function**

After starting the engine, pull the trigger of the gun so that air in the pump and hose is expelled.

---

**Oil alarm lamp / Hour meter**

Oil alarm lamp shows low volume of engine oil and automatically stops the engine. Hour meter tells the time to maintain the machine.

**Slow - down function**

When idling, automatically sets the engine at low speed and suppresses the noise.

---

**Engine type:** Soundproof: Noise 64dB

---

**Noise level:** Average volume measured at 7 meters away.
### High Pressure Cleaner 12/80GP

**Code No. HD1208P**

- **Discharge Volume**: 12.0L/min
- **Pressure**: 7.8MPa (78kgf/cm²)
- **Engine**: 2.1kW
- **Self-Priming**: With Stainless Steel one-touch coupler
- **Weight**: 30kg
- **Standard Accessories**:
  - High Pressure Hose 3/8” × 10m, SUS Cleaning Hose 1/4” × 20m,
  - Water Suction Hose, Variable Nozzle (removability), Hand Gun (Variable nozzle)

### High Pressure Cleaner 16/150GP

**Code No. HD1615P1**

- **Engine**: 4.7kW
- **Self-Priming**: With Stainless Steel one-touch coupler
- **Discharge Volume**: 21.0L/min
- **Pressure**: 8.8MPa (90kgf/cm²)
- **Pipe Cleaning Capacity**: ø200mm ~ ø150mm
- **Weight**: 60kg
- **Standard Accessories**:
  - Dual Gun, High Pressure Hose 3/8” × 20m, Water Suction Hose 3m, Residual Water Hose 3m, 3/8” Pipe Cleaning Hose (screw type) × 20m, 3/8” Nozzle, Hose reel.

---

**Washing - Pipe cleaning with 2way Hand gun!!**

**A High End cleaner for pipe cleaning!!**
# High Pressure Cleaning Machines

## High Pressure Cleaner 16 / 200GP

<table>
<thead>
<tr>
<th>Code No.</th>
<th>HD1620P1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge</td>
<td>16.0L / min</td>
</tr>
<tr>
<td>Pressure</td>
<td>19.6MPa (196kgf/cm²)</td>
</tr>
<tr>
<td>Engine</td>
<td>3.1kW</td>
</tr>
<tr>
<td>Self-Priming</td>
<td>Dual gun, Plunger Pump, Unloader valve, Air relief valve</td>
</tr>
<tr>
<td>Standard Accessories</td>
<td>3/8” Pipe cleaning hose, 3/8” Nozzle with reverse jet</td>
</tr>
</tbody>
</table>

### Dual Gun
- Straight Shape
- Fan Shape

### High Pressure Cleaner 30 / 50GP

<table>
<thead>
<tr>
<th>Code No.</th>
<th>HD3005P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge</td>
<td>30.0L / min</td>
</tr>
<tr>
<td>Pressure</td>
<td>4.9MPa (50kgf/cm²)</td>
</tr>
<tr>
<td>Engine</td>
<td>2.9kW</td>
</tr>
<tr>
<td>Self-Priming</td>
<td>Dual gun, Plunger Pump, Unloader valve, Air relief valve</td>
</tr>
<tr>
<td>Standard Accessories</td>
<td>3/8” Pipe cleaning hose, 3/8” Nozzle with reverse jet</td>
</tr>
</tbody>
</table>

### High Pressure Cleaner 60 / 50GP

<table>
<thead>
<tr>
<th>Code No.</th>
<th>HD605</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge</td>
<td>60.0L / min</td>
</tr>
<tr>
<td>Pressure</td>
<td>4.9MPa (50kgf/cm²)</td>
</tr>
<tr>
<td>Engine</td>
<td>5.9kW</td>
</tr>
<tr>
<td>Self-Priming</td>
<td>Dual gun, Plunger Pump, Unloader valve, Air relief valve</td>
</tr>
<tr>
<td>Standard Accessories</td>
<td>3/8” Pipe cleaning hose, 3/8” Nozzle with reverse jet</td>
</tr>
</tbody>
</table>

## High Pressure Cleaner 16 / 200GP

- For cleaning drain pipes in buildings
- Made-to-order: No
- Discharge: 16.0L / min
- Fuel tank capacity: 6.0L
- Pressure: 19.6MPa (196kgf/cm²)
- Engine: 3.1kW
- Self-Priming: With Stainless Steel one-touch coupler

### Dual Gun
- Straight Shape
- Fan Shape

### Standard Accessories
- Item: 3/8” Pipe cleaning hose (screw type) × 20m
- Code No.: HD03244
- Item: 3/8” Nozzle with reverse jet
- Code No.: HD257

## High Pressure Cleaner 30 / 50GP

- For cleaning large sized drain pipes
- Made-to-order: No
- Discharge: 30.0L / min
- Fuel tank capacity: 3.7L
- Pressure: 4.9MPa
- Engine: 2.9kW
- Self-Priming: With Stainless Steel one-touch coupler

### Standard Accessories
- Item: Turbine Gun, High Pressure Hose 3/8” × 20m, Water Suction Hose 3m, Residual Water Hose 3m, Pipe Cleaning Hose 3/8” × 30m, Hose Reel

## High Pressure Cleaner 60 / 50GP

- For cleaning manholes, drain pipes, etc
- Made-to-order: Yes
- Discharge: 60.0L / min
- Fuel tank capacity: 6.0L
- Pressure: 4.9MPa
- Engine: 5.9kW
- Self-Priming: With Stainless Steel one-touch coupler

### Standard Accessories
- Item: Turbine Gun, High Pressure Hose 3/8” × 20m, Water Suction Hose 3m, Residual Water Hose 5m, Pipe Cleaning Hose 1/2” × 60m, Hose Reel

## Large Volume of Water, 30L/min!!

- Ideal for cleaning large diameter pipes.
- Compact, but powerful.
- Adjustable gun from straight spray to fan shaped spray.

## High capacity for cleaning pipes and wash out!!

- Sufficient self suction.
- Protects pump and motor.
- Air relief valve

## Special Features
- High capacity for cleaning pipes and wash out!!
- Large water volume by powerful engine.
- Suitable for demolishing building and house with far distance spray turbine gun to cover the dust.
HIGH PRESSURE CLEANING MACHINES

**For cleaning stubborn stain, peeling tree barks, etc**

**Turbo Gun**

- Straight spray nozzle of high pressure water circles to powerful conical spray.

  - When peeling off tree barks with Turbo Gun, use the gun pressure over 7.8MPa (80kgf/cm²)

**Ideal for cleaning stubborn stain!!**

**For keeping dust down at site of building demolition**

**Turbine Gun**

- Changeable from straight spray to conical spray by shift lever.

**For cleaning a wide range!!**

**Hand Gun**

- Spray can be changed from straight to fan shape without stages.

  - Pressure is changeable. (High / Low)

  - Nozzle and Gun integrate unit. (Hand gun for pipe cleaning refer to P89)

**Short gun to clean in narrow space!!**

**Variable Gun**

- Spray can be changed from straight to fan shape without stages.

**Applicable Model**

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Quick Coupler</th>
<th>Stainless Steel One-Touch Coupler</th>
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**Applicable Model**

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</table>
HIGH PRESSURE CLEANING

DRAIN CLEANING MACHINES

PIPE INSPECTION CAMERAS, INDUSTRIAL ENDSSESPS.

For general cleaning

Dual Gun

Two nozzles for spray with straight or fan shape.
Straight spray by twisting right and fan shape spray by twisting left.

For general cleaning

Fan Shape Spray Gun

Trigger gun and Lance separate into two parts.
Pressure is changeable by pressure adjustment handle.
At low pressure, detergent can be mixed into the spray.

Applicable Model | Code No. | Quick Coupler | Stainless Steel One-Touch Coupler
---|---|---|---
10/100G | HD22032 | — | —
12/80G-GP | HD03175 | HD03008 | —
8/100GS, 13/150G, 13/1000G | HD09003 | HD10002 | —
15/150GS, 16/150G-GP | HD206 | HD4002 | —
16/200G-GP-GS | HD249 | HD6002 | —
23/80GS, 21/90G-GP | HD232 | HD8002 | —
20/100GS | HD12005 | HD12006 | —
30/50G-GP | — | HD26011 | —
30/100GS | HD13015 | HD13001 | —

For general cleaning

Variable Lance

10/100G: Code No. HD22036

Install to Trigger gun.
Spray can be changed from straight to fan shape without stages.
Pressure is changeable. (High / Low)

For absorbing water by connecting directly to a tap

Hose (Direct connection to water tap)

Code No. HD013


For general cleaning

Trigger Gun

10/100G: Code No. HD22035

Install to Trigger Lance.

Sizes for connecting Trigger Gun and Variable Lance are M22 and BSPT 1/4".
Please check the connection portion sizes of your gun and Lance.

Quick Coupler Joint M22 (HD00135)

1/4" Pipe Cleaning Hose
1/4" PU Pipe Cleaning Hose
1/4" SUS Pipe Cleaning Hose
1/4" PS Pipe Cleaning Hose

For discharging residual water and pebbles in tank

Residual Water Treatment Kit

Creates pressure difference by spraying high pressure water upward and suck out residual water.

---|---|---|---
12/80G-GP | HD03013 | 23/80GS, 21/90G-GP, 20/100GS | HD08006
15/150GS, 16/150G-GP | HD04005 | 20/100GS | HD15002
13/100GS, 16/200G-GP-GS | HD06005 | 60/50G-GP | —

87
### High Pressure Cleaning

**Machines**
- Pipe Inspection Cameras
- Industrial Endoscopes
- Drain Cleaning Machines
- Cleaner
- Maintenance

**Maintenance**
- Drain Cleaning Machines
- Pipe Inspection Cameras
- Industrial Endoscopes
- High Pressure Cleaning

---

#### 1/4” High Pressure Hose

<table>
<thead>
<tr>
<th>Length</th>
<th>Applicable Model</th>
<th>Code No.</th>
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**With SUS One Action Coupler**
- Standard
- Optional

**With Quick Coupler**
- Standard
- Optional

---

#### 3/8” High Pressure Hose

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<thead>
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<th>Applicable Model</th>
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<td>50m</td>
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<td>HD03006</td>
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</tbody>
</table>

**With SUS One Action Coupler**
- Standard
- Optional

**With Quick Coupler**
- Standard
- Optional

---

**Hose for connection between body and gun, pipe cleaning hose**

**Hose for connection between cleaner unit and gun, pipe cleaning hose**

---

**Refer to P78**

---

### Hose for connection between body and gun, pipe cleaning hose

**1/4” High Pressure Hose**

- With Stainless One-touch Coupler
- With Quick Coupler
- High Pressure Hose for High Pressure Cleaner 440

---

### Hose for connection between cleaner unit and gun, pipe cleaning hose

**3/8” High Pressure Hose**

- With Stainless One-touch Coupler
- With Quick Coupler

---

**With Quick Coupler**
- Standard
- Optional
Easy to operate water supply/stop

1/4˝ Hand Gun for Pipe Cleaning Hose

1/4˝ Connect to Pipe Cleaning Hose. Can be used as a Hand gun with Variable Nozzle.

For Hand Gun of 1/4˝ Pipe Cleaning Hose

Variable Nozzle  (Removable)

Connect to Hand Gun of 1/4˝ Pipe Cleaning Hose.

To operate water supply/stop by feet

Foot Valve

Quick Coupler : Code No. HD20324
Stainless Steel One-touch Coupler : Code No. HD20325

Connect between High Pressure Hose and Pipe Cleaning Hose.

For foot operation allowing both hands free for working !!

For Hand Gun of 1/4˝ Pipe Cleaning Hose

Variable Nozzle  (Removable)

Connect to Hand Gun of 1/4˝ Pipe Cleaning Hose.

Prevention of high pressure hose twisting

Balance Joint

Quick Coupler : Code No. HD03173
Stainless Steel One-touch Coupler : Code No. HD03174

To prevent high pressure hose from twisting. Allows smooth rotation even when pressure is applied.

No more twisting!
Smooth rotation – even under pressure

Application Model

All Models  ※ Except for some models

※ High pressure cleaner 440, Hot water cleaner, 30/50G・GP, and 60/50GP not applicable.

Application Model

All Models  ※ Except for some models

※ High pressure cleaner 440 not applicable.

Variable Nozzle

Removable

Connect with Quick Coupler

Connect with Quick Coupler

Connect with Stainless Steel One-touch Coupler

Connect with Stainless Steel One-touch Coupler

1/4˝ Connect to Pipe Cleaning Hose

1/4˝ Connect to Pipe Cleaning Hose

With Quick Coupler

With Quick Coupler

With Stainless Steel One-touch Coupler

With Stainless Steel One-touch Coupler

<table>
<thead>
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<th>Applicable Model</th>
<th>Quick Coupler</th>
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<td>20/100G</td>
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<td>HD12011</td>
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</table>

 ※ Except 30/100GS, 30/50G・GP, 60/50GP, and Hot Water Cleaner.
Hose for cleaning drain pipes (Nozzle with reverse jet)

### 1/4” Pipe Cleaning Hose
- **Nylon + nylon**
- Nylon tube with nylon cover - 2 layered structure.
- Resin covered hose prevents pipes and couplers from getting damaged.
- With 4 series snake nozzle applicable to bent pipes.

<table>
<thead>
<tr>
<th>Applicable Model</th>
<th>Length</th>
<th>Cock</th>
<th>Code No.</th>
<th>Quick Coupler</th>
<th>Stainless Steel One-touch Coupler</th>
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</table>

### 1/4” PU Pipe Cleaning Hose
- **Polyurethane + polyurethane**
- Polyurethane tube with polyurethane cover - 2 layered structure.
- Flexible and tractable - no bending tendency.
- Resin covered hose prevents pipes and couplers from getting damaged.
- With 4 series snake nozzle applicable to bent pipes.

<table>
<thead>
<tr>
<th>Applicable Model</th>
<th>Length</th>
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<th>Code No.</th>
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Hose for cleaning drain pipes (Nozzle with reverse jet)

### 1/4” SUS Pipe Cleaning Hose
- **Nylon + stainless steel mesh**
- Nylon tube with stainless steel mesh cover - 2 layered structure.
- Smooth operation for stainless steel covered hose.
- With 4 series snake nozzle applicable to bent pipes.

<table>
<thead>
<tr>
<th>Applicable Model</th>
<th>Length</th>
<th>Cock</th>
<th>Code No.</th>
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</table>

### 1/4” PS Pipe Cleaning Hose
- **Polyurethane + stainless steel mesh + nylon**
- Polyurethane tube with stainless steel mesh & nylon cover - 3 layered structure.
- Smooth passing in tube for stainless steel mesh layer.
- Less resistance and higher thrust than Stainless Steel Pipe Cleaning Hose.
- With 4 series snake nozzle applicable to bent pipes.

<table>
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<tr>
<th>Applicable Model</th>
<th>Length</th>
<th>Cock</th>
<th>Code No.</th>
<th>Quick Coupler</th>
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<td>16/150G + GP</td>
<td>10m</td>
<td>●</td>
<td>HD04028</td>
<td>HD04032</td>
<td></td>
</tr>
<tr>
<td>13/100GS</td>
<td>10m</td>
<td>●</td>
<td>HD06033</td>
<td>HD06037</td>
<td></td>
</tr>
<tr>
<td>16/200G + GS + GP</td>
<td>20m</td>
<td>●</td>
<td>HD06034</td>
<td>HD06038</td>
<td></td>
</tr>
<tr>
<td>8/100GS</td>
<td>10m</td>
<td>●</td>
<td>HD10031</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13/150G</td>
<td>20m</td>
<td>●</td>
<td>HD10032</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21/90G + GP</td>
<td>20m</td>
<td>●</td>
<td>HD08027</td>
<td>HD08031</td>
<td></td>
</tr>
<tr>
<td>23/80GS, 20/100GS</td>
<td>20m</td>
<td>●</td>
<td>HD08028</td>
<td>HD08032</td>
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</tr>
</tbody>
</table>
Drain Pipe Cleaning Hose (Hose only)

1/4" Pipe Cleaning Hose (screw type)

Nylon tube with nylon cover - 2 layered structure. Resin covered hose prevents pipes and couplers from getting damaged. Please use with nozzles on P92.

<table>
<thead>
<tr>
<th>Diameter Hose</th>
<th>Length</th>
<th>Cock</th>
<th>Code No.</th>
<th>Stainless Steel One-touch Coupler</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø 9.5mm</td>
<td>10m</td>
<td>●</td>
<td>HD03238</td>
<td>HD03209</td>
</tr>
<tr>
<td></td>
<td>10m</td>
<td>●</td>
<td>HD03206</td>
<td>HD03210</td>
</tr>
<tr>
<td></td>
<td>20m</td>
<td>●</td>
<td>HD03239</td>
<td>HD03211</td>
</tr>
<tr>
<td></td>
<td>20m</td>
<td>●</td>
<td>HD03208</td>
<td>HD03212</td>
</tr>
</tbody>
</table>

1/4" SUS Pipe Cleaning Hose (screw type)

Nylon tube with stainless steel mesh cover - 2 layered structure. Smooth operation for stainless steel covered hose. Please use with nozzles on P92.

<table>
<thead>
<tr>
<th>Diameter Hose</th>
<th>Length</th>
<th>Cock</th>
<th>Code No.</th>
<th>Stainless Steel One-touch Coupler</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø 9.0mm</td>
<td>10m</td>
<td>●</td>
<td>HD03240</td>
<td>HD03217</td>
</tr>
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<td></td>
<td>10m</td>
<td>●</td>
<td>HD03214</td>
<td>HD03218</td>
</tr>
<tr>
<td></td>
<td>20m</td>
<td>●</td>
<td>HD03241</td>
<td>HD03219</td>
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<td></td>
<td>20m</td>
<td>●</td>
<td>HD03216</td>
<td>HD03220</td>
</tr>
</tbody>
</table>

1/4" PU Pipe Cleaning Hose (screw type)

Polyurethane tube with polyurethane cover - 2 layered structure. Flexible and tractable - no bending tendency. Resin covered hose prevents pipes and couplers from getting damaged. Please use with nozzles on P92.

<table>
<thead>
<tr>
<th>Diameter Hose</th>
<th>Length</th>
<th>Cock</th>
<th>Code No.</th>
<th>Stainless Steel One-touch Coupler</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø 10.0mm</td>
<td>10m</td>
<td>●</td>
<td>HD03221</td>
<td>HD03225</td>
</tr>
<tr>
<td></td>
<td>10m</td>
<td>●</td>
<td>HD03222</td>
<td>HD03226</td>
</tr>
<tr>
<td></td>
<td>20m</td>
<td>●</td>
<td>HD03223</td>
<td>HD03227</td>
</tr>
<tr>
<td></td>
<td>20m</td>
<td>●</td>
<td>HD03224</td>
<td>HD03228</td>
</tr>
</tbody>
</table>

Drain Pipe Cleaning Hose (Hose only)

1/4" PS Pipe Cleaning Hose (screw type)

Polyurethane tube with stainless steel mesh & nylon cover - 3 layered structure. Smooth passing in tube for stainless steel mesh layer. Less resistance and higher thrust than Stainless Steel Pipe Cleaning Hose. Please use with nozzles on P92.

<table>
<thead>
<tr>
<th>Diameter Hose</th>
<th>Length</th>
<th>Cock</th>
<th>Code No.</th>
<th>Stainless Steel One-touch Coupler</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø 9.0mm</td>
<td>10m</td>
<td>●</td>
<td>HD03222</td>
<td>HD03233</td>
</tr>
<tr>
<td></td>
<td>10m</td>
<td>●</td>
<td>HD03230</td>
<td>HD03234</td>
</tr>
<tr>
<td></td>
<td>20m</td>
<td>●</td>
<td>HD03243</td>
<td>HD03235</td>
</tr>
<tr>
<td></td>
<td>20m</td>
<td>●</td>
<td>HD03232</td>
<td>HD03236</td>
</tr>
</tbody>
</table>
Reverse jet nozzle for cleaning drain pipes

1/4" Reverse Jet Nozzle M type

1/8" screw

Shorter and bigger diameter than M2 type for resistant to curves.

stainless steel

Applicable Model  | Code No.  | No. of Backward Holes |
-----------------|----------|-----------------------|
12/80G · GP      | HD00152  | 4                     |
10/100G, 13/100G, 16/200G · GP · GS | HD38123 | 4 |
8/100G, 13/150G  | HD27005  | 4                     |
15/150G, 16/150G · GP | HD04050 | 5 |
23/80GS, 21/90G · GP, 20/100GS | HD08050 | 5 |

Reverse jet nozzle for cleaning drain pipes

1/4" Reverse Jet Nozzle T type

1/8" screw

Sharp head design good for clogging.

stainless steel

Applicable Model  | Code No.  | No. of Backward Holes |
-----------------|----------|-----------------------|
12/80G · GP      | HD00154  | 4                     |
10/100G, 13/100G, 16/200G · GP · GS | HD38123 | 4 |
8/100G, 13/150G  | HD27007  | 4                     |
15/150G, 16/150G · GP | HD04051 | 4 |
23/80GS, 21/90G · GP, 20/100GS | HD08052 | 5 |

Reverse jet nozzle for cleaning drain pipes

1/4" Serially Connected Nozzle M type

1/8" screw

Turn 360°.

Shorter and bigger diameter than M2 type for resistant to curves.

stainless steel

Applicable Model  | Code No.  | No. of Backward Holes |
-----------------|----------|-----------------------|
12/80G · GP      | HD00156  | 4                     |
10/100G, 13/100G, 16/200G · GP · GS | HD38125 | 4 |
8/100G, 13/150G  | HD27009  | 4                     |
15/150G, 16/150G · GP | HD04053 | 4 |
23/80GS, 21/90G · GP, 20/100GS | HD08054 | 5 |

Reverse jet nozzle for cleaning drain pipes

1/4" Serially Connected Nozzle M2 type

1/8" screw

Turn 360°.

Longer, and smaller diameter than M type for thin pipes.

stainless steel

Applicable Model  | Code No.  | No. of Backward Holes |
-----------------|----------|-----------------------|
12/80G · GP      | HD00157  | 4                     |
10/100G, 13/100G, 16/200G · GP · GS | HD38126 | 4 |
8/100G, 13/150G  | HD27010  | 4                     |
15/150G, 16/150G · GP | HD04054 | 4 |
23/80GS, 21/90G · GP, 20/100GS | HD08055 | 5 |

Reverse jet nozzle for cleaning drain pipes

1/4" Serially Connected Nozzle M type (pin type)

1/8" screw

Turn in 2 directions. (180°)

Easy to turn the direction.

stainless steel

Applicable Model  | Code No.  | No. of Backward Holes |
-----------------|----------|-----------------------|
12/80G · GP      | HD00158  | 4                     |
10/100G, 13/100G, 16/200G · GP · GS | HD38127 | 4 |
8/100G, 13/150G  | HD27011  | 4                     |
15/150G, 16/150G · GP | HD04055 | 4 |
23/80GS, 21/90G · GP, 20/100GS | HD08056 | 5 |

Reverse jet nozzle for cleaning drain pipes

1/4" Rotating Nozzle

1/8" screw

Clean pipes with rotating.

stainless steel

Applicable Model  | Code No.  | No. of Backward Holes |
-----------------|----------|-----------------------|
8/100G, 12/80G · GP | HD00155  | side 2 · back 2       |
10/100G, 13/100G, 13/150G, 15/150G, 16/150G · GP · GS | HD38128 | 4 |
8/100G, 13/150G  | HD27006  | 4                     |
15/150G, 16/150G · GP | HD04056 | 4 |
23/80GS, 21/90G · GP, 20/100GS | HD08053 | side 2 · back 3       |