

Our new medium and super class hot water high-pressure cleaners not only do a first-class job of cleaning, they are also extremely rugged and simple to operate. The new ECO mode, unique to Kärcher, makes them truly unbeatable. When the machine is set to this mode it operates automatically in the most economical temperature range. This not only saves running costs, it is also good for the environment.

Standard accessories:

- Trigger gun : Easy Press
- Trigger gun with soft grip
- High-pressure hose 10 m Longlife
- Spray lance 1050 mm
- Power nozzle
- Servo Control
- Anti-twist system (AVS)
- Tanks for detergent
- scale inhibitor and fuel can be filled from outside
- Control panel with indicator lamps
- Three piston axial pump with ceramic piston
- Pressure switch control
- Pole reversing plug (three-phase)
- Electronic service control
- Electronic service control with LED display
- 2 detergent tanks
- Dry run cut-out

**Order no.: 1.071-401.0****Technical data**

Power supply Ph/V/Hz	3/400/50
Water flow rate (l/h)	500-1000
Pressure (bar/MPa)	30-200/3-20
Max. temperature (°C)	155-80
Connected load	7.8
Consumption fuel oil (kg/h)	4.8
Fuel tank (l)	25
Fuel tank	-
Weight (kg)	171
Dimensions (L x W x H) (mm)	1330x750x1060
Detergent tank (l)	20
Detergent tank (l)	20-10

Details

Description

The hot water high-pressure cleaners of the new middle- and super-class convince with their 6 main features. 1. Environmental protection Greater efficiency with the new ECO mode, service switch for controlling water hardness, turbo fan, precision detergent metering, optimized burner technology and a high-efficiency pump. 2. User friendliness This is ensured by a central, clearly arranged control panel designed for intuitive operation, a spray lance holder, LED display, an integral, low-friction hose reel for 20 metres hose that swivels through 180°, and much more. 3. Cleaning performance Highly efficient cleaning is guaranteed by patented nozzle technology, ceramic pistons, turbo fan as well as increased pump efficiency. Accessories are optimized for specific applications and designed to exactly suit customer requirements. 4. Mobility The mobility concept features two casters, large rubber-tyred wheels, ergonomic handles, lifting points for handling with a forklift, lashing rings and a recessed tread for tilting the machine to guarantee maximum manoeuvrability. 5. Reliability Guaranteed by flue gas monitoring, a corrosion-proof, flexurally stiff, robust chassis, machine protector system, three-piston axial pump with ceramic pistons, heat resistant flue outlet, and much more. 6. Service friendliness Easy access to all components that require servicing and a service switch to call up operating data at any time for troubleshooting.

Application

For medium-sized shops and automobile business For car washes For chassis washing For engine washing For the pre-wash in car washes General cleaning tasks in the industry, municipalities and agriculture

Features & Benefits

The new ECO mode In the ECO mode the machine operates in the most economical temperature range (60°C) and at the maximum water flow rate. Compared to full-load operation at 80°C, fuel consumption is reduced by up to 20% by optimizing burner operating cycles. Service switch The service switch offers a choice of five settings to suit local water hardness. This allows optimum metered quantities of descaler and corrosion inhibitor to be added. And it prevents the build-up of limescale on the heater coil. Furthermore, operating data (machine service) can be called up at any time. Easy Press and Servo Control The Easy Press trigger gun significantly reduces holding and operating effort. The precise Servo controller allows the user to adjust the water flow rate and operating pressure directly on the trigger gun. Three-piston axial pump The new, optimized pump is characterized by particularly high efficiency and a long service life. Ceramic pistons The three pistons of the axial pump are made of hard, wear-resistant ceramics. This guarantees an exceptionally long wear life. Detergent switch The detergent switch is used to select the exactly metered quantities required from the detergent tanks. In the 'O' position (feed off), the system is rinsed clear with fresh water. 4-pole motor The main features of the 4-pole low-speed motor are its longevity and low noise level. Control panel The controls and LED indicators on the new Kärcher medium and super class hot water high-pressure cleaners are clearly laid out and designed for intuitive operation. Defined lifting points for forklift The new generation of high-pressure cleaners has defined lifting points for handling with a forklift truck – ideal for loading and unloading. Lashing rings Defined rope attachment points for safe transportation in a service vehicle. Manoeuvrability Sturdy large diameter wheels with rubber tyres and casters guarantee trouble-free manoeuvrability. This is enhanced by the ergonomic handles, which are suitable for pushing or pulling the machine. Tilting aid The tilting aid enables the machine to be raised at the front to overcome obstacles such as steps, for example. Flue gas temperature sensor The flue gas temperature sensor inside the flue shuts off the machine when the flue gas temperature exceeds 300°C. This ensures greater safety for both the machine and the operator. Chassis The chassis is made of corrosion-free plastic. It has an all-round bump guard and built-in fuel and detergent tanks. Fine mesh water filter The fine mesh water filter upstream

HDS 10/20-4 M



of the float tank traps suspended matter and protects the high-pressure pump from impurities. SDS Soft damping system The SDS soft damping system compensates for pressure surges in the high-pressure system and prolongs the life of all high pressure components (e.g. heater coil). Low fuel cut-out The unit shuts down automatically when the tank is empty. Machine Protector Adaptation The new machine protector system protects heater coils against the build-up of limescale. The cleaning agents in the machine protector Advance series are formulated to protect and maintain the whole machine. The practical 1-litre bottles are inserted in their integral holders and the high-pressure cleaner immediately identifies the care product being used. New to the range is a care additive for the high-pressure pump which also protects it against black water contamination (rust in heater coil due to very soft water).

Accessories

Adapter for variable pressure spray lance

Adapter for variable pressure spray lance

For items 4.760-230 and 4.760-362 for mounting accessories to lance, M 24/18 x 1.5

Order no. 4.762-075.0



Anbausatz Fernbedienung

ABS Fernbedienung HDS M-Klasse

Order no. 2.642-157.0



Anbausatz Flammüberwachung

ABS flame guard HDS M/S

A light sensor## monitors the burner flame. The fuel supply is cut off if the flame goes out.

Order no. 2.641-796.0



Anbausatz Münzfernbedienung

ABS Münzfernbedienung HDS M-Klasse

Order no. 2.642-158.0



Anbausätze

ABS accumulator for HDS M/S

The accumulator can be mounted on the HDS machine in order to dampen pressure surges, which conserves the machine's line system.

Order no. 2.641-803.0



Angle vario nozzle 0°-90°

Angle vario nozzle 0-90°

Makes it possible to change the high-pressure jet spray angle from 0°-90° (infinitely variable). This makes it easy to adapt it to all types of dirt and surfaces.

Order no. 4.763-058.0



Angular spray lance

Bathroom and eaves gutter spray lance

With nozzle. Specially shaped for cleaning of eaves gutters and for hygienically cleaning WCs. Stainless steel.

Order no. 4.760-073.0



Automatic, self-winding hose reels

Hose drum, automatic, 20 m, coated

Hose reel, automatic, 20 m, coated

Order no. 2.639-919.0



Swivel holder

ABS swivel holder for 2.639-919.0

Order no. 2.639-931.0



Automatic, self-winding hose reels

Self-winding hose reel with swivel holder, stainless steel, 20 m

Automatic hose reel with swivel holder (high-grade steel)

Order no. 6.391-421.0



ABS hose reel stainless steel

High-grade, automatic steel hose reel. Especially suitable for use in the food industry. The material and finish provide for a corrosion-resistant, watertight capsuled sprung drive. Connection for HP hoses with nipple.

Order no. 2.641-866.0



ABS wall fastening stainless steel

Swivelling wall bracket made of high-grade steel (for 2.641-866). This makes maximum flexibility and convenience possible when working with the HP hose.

Order no. 2.641-867.0



Becher-Schaumlanze

Foam lance

Short and handy foam lance with a 1-litre detergent tank directly at the lance. Due to its compact construction it is perfectly suited for foam cleaning of vehicles. Infinitely detergent dosage, swivel connection M22x1,5, adjustable jet angle.

Order no. 6.394-668.0



Tank 1L

Order no. 6.414-954.0



Boron carbide nozzle

Boron carbide nozzle, for machines as of 1000 l/h

In addition to nozzle packs. Very wear-resistant nozzle with boron carbide chuck for continuous-duty operation.

Order no. 6.415-084.0



Connector

Nozzle union / Screw union

For connecting HP nozzle and accessories directly to trigger gun (with nozzle union) – 1 x M 22 x 1.5 / 1 x M 18 x 1.5

Order no. 4.402-022.0



Coupling

Double pipe union

For connecting and extending HP hoses. 2 x M 22 x 1,5 connections, brass with rubber protector

Order no. 4.403-002.0



Dirt blaster – changeover to low pressure cleaning agent intake

Dirt blaster - changeover to low pressure cleaning agent intake

Dirt blaster – rotating pencil jet – 10x cleaning power. Ceramic nozzle and bearing ring for long service life. Changeover to detergent intake (low pressure) max. 300 bar/30 MPa, 85 °C

Order no. 4.763-949.0



Dirt blaster – non-changeover

Dirt blaster - non-changeover

Dirt blaster – rotating pencil jet – 10x cleaning power. Ceramic nozzle and bearing ring for long service life. Max. 300 bar/30 MPa, 85 °C

Order no. 4.763-250.0



Doppelstrahlrohr

Double spray lance 960 mm

Infinitely adjustable control of the working pressure directly on the handle with full water quantity. Suitable above all for agriculture (e.g. cleaning stalls).

Order no. 6.394-665.0



Dreckfräser - umschaltbar auf Flachstrahl

Dirt blaster - changeover to fan jet

Dirt blaster – rotating pencil jet – 10x cleaning power. Ceramic nozzle and bearing ring for long service life. Changeover to high-pressure fan jet max. 300 bar/30 MPa, 85 °C

Order no. 4.763-955.0



Drum and tank cleaning

ABS barrel cleaner

The BC 14/12 is an spray system for the efficient interior cleaning of containers and barrels, specially oak barrels with a volume of between 225 and 600 litres. One cleaning cycle is completed within 36 seconds and every spot in the container is covered by a water jet. After cleaning is finished the BC 14/12 can easily and conveniently take up the dirty water. The transformer included with the BC 14/12 makes it possible to use it worldwide (110 - 240 V, 50 - 60 Hz). The nozzle kits included make possible use with high-pressure cleaners with a water volume of 600 to 1400 l / h. Electrical components are protected in accordance with IP 55.

Order no. 2.641-740.0



Easy Foam Set

Easy foam set

HP foam system for use with. HD/HDS units for cleaning and disinfecting. Foam nozzle for connection to lance and HP chemical injector with precision 0-5% metering valve. The machine specific nozzle kit has to be ordered separately.

Order no. 2.640-693.0



Easy Press high-pressure gun with holding power reduction (Kärcher patent)

Easy Press high-pressure gun with soft grip insert

Easy Press HP trigger guns, for HP hoses NW 6 / NW 8 with swivel diameter 11 mm

Order no. 4.775-463.0



Fine-mesh water filter

Fine mesh water filter, 100 µm, R 1"

Mounts to machine inlet, 100 µm

Order no. 2.638-270.0



Fine mesh water filter, 80 µm, R 3/4" + 1", with adapter

Mounted to machine inlet, 80 µm, with adapter R 3/4" / 1"

Order no. 4.730-102.0



Flexible spray lance

Jet pipe flexible

Infinitely variable adjustment of the angle of the spray lance from 20° - 140°. Especially suitable for cleaning difficult-to-reach areas such as roof gutters, car roofs, undercarriages or wheel cases.

Order no. 6.394-654.0



Flue pipe

Connection piece, oval - round, HDS 891 ST

Adapter piece

Order no. 4.656-080.0



Abgasstutzen

Order no. 4.656-149.0



Foam nozzle mounting kit

Anbausatz Schaumdüse

For applying foam detergent in metered quantities in sanitary and food areas, or where long reaction time is necessary, mounts to spray lance in place of HP nozzle

Order no. 2.637-926.0



Food industry version

High-pressure hose, 10 m, DN 8, AVS trigger gun connection, food industry, grey

Food industry version, AVS connection in the trigger gun. grey NW 8/155 °C/250 bar

Order no. 6.390-704.0



High-pressure hose, 20 m, DN 8, AVS trigger gun connection, food industry, grey

Food industry version, AVS connection in the trigger gun. grey NW 8/155°C/250 bar

Order no. 6.390-705.0



Geka coupling

Geka coupling with hose liner, R 3/4"
with hose liner

Order no. 6.388-455.0



Geka coupling with female thread, R 1"
with female thread

Order no. 6.388-458.0



Geka-Kupplung mit Schlauchleiste 1"

Order no. 6.388-465.0



Hard surface cleaner FR 30 ME

FR 30 ME hard surface cleaner

A rotating nozzle beam with Kärcher Power nozzles has an area coverage up to 10 times larger than conventional methods. Stainless steel version. Ceramic bearings. Integral vacuum connection. Machine specific nozzle kit has to be ordered separately. Max. 250 bar / 1100 l/h / 80 °C

Order no. 2.640-355.0



Hard surface cleaner FR 50

FR 50 hard surface cleaner

A rotating nozzle beam with Kärcher Power nozzles has an area coverage up to 10 times larger than conventional methods. Stainless steel version. Ceramic bearings. Integral detergent valve. Machine specific nozzle kit has to be ordered separately. Max. 250 bar / 1800 l/h / 80 °C

Order no. 2.640-679.0



HKF 50 spray head, brass

HKF 50 spray head , brass

Depth of immersion 850 mm. Interior cleaning head for barrels and containers with bungholes of 50 mm and more. Can be directly connected to the high-pressure cleaner. Electric motor drive. Operation is possible both vertically and horizontally

Order no. 3.631-039.0



HKF 50 spray head, stainless steel

Spray head HKF 50, stainless steel

Motor-driven interior cleaning head for the industrial container cleaning of small barrels (barrels of 200 - 500 l)

Order no. 3.631-009.0



HP detergent injector

Detergent injector for high and low pressure (without nozzle)

Metering of cleaning agents. Separate from the machine (high pressure and low pressure). Dosage of up to 15%

Order no. 3.637-001.0



Detergent injector for high pressure

Cleaning agent dosage at high pressure 3 - 5 %

Order no. 3.637-170.0



HP nozzle spray angle 0°

HP nozzle spray angle 0°

Solid jet for very stubborn dirt and stains.

Order no. 2.884-536.0



Inno Foam Set

Inno foam set

HP foam system for use with mobile and stationary HD/HDS units for cleaning and disinfection. Twin spray lance with foam nozzle and changeover to HP jet for clear rinsing etc., HP chemical injector with precision 0-5% metering valve. The machine specific nozzle kit has to be ordered separately.

Order no. 2.640-692.0



Longlife 400

High-pressure hose Longlife 400, 10 m DN 8, AVS trigger gun connection

with patented AVS connection in trigger gun (pivot-mounted)

Order no. 6.389-856.0



High-pressure hose Longlife 400, 20 m DN 8, AVS trigger gun connection

with patented AVS connection in trigger gun (pivot-mounted)

Order no. 6.390-208.0



Longlife 400 with unions on both sides

High-pressure hose 1.5 m, DN 8, including connecting parts

with union on both sides, M22 x 1.5 with anti-kink protection. For connecting hose reels with M22 x 1.5 union.

Order no. 6.390-178.0



Longlife food industry version

High-pressure hose Longlife 400, 10 m, DN 8, AVS trigger gun connection

Longlife HP hose for use in the food industry. Außendecke## animal-grease-resistant, non-colour-bleeding material. With patented AVS connection in the pistol (pivot mounted)

Order no. 6.391-885.0



Longlife food industry version

High-pressure hose Longlife 400, 20 m, DN 8, AVS trigger gun connection

Longlife HP hose for use in the food industry. Außendecke## animal-grease-resistant, non-colour-bleeding material. With patented AVS connection in the pistol (pivot mounted)

Order no. 6.391-886.0



Machine-specific nozzle kit for HSC##

Nozzle pack for hard surface cleaners (machine-specific) 850 - 1,100 l / h

Machine-specific nozzle kit Kärcher power nozzle for hard surface cleaners

Order no. 2.640-442.0



Machine-specific nozzle kit with order no. 3.637-170

Machine-specific nozzle kit for order no. 3.637-170 750-1000 l/h

For HD/HDS 750 - 1000 l/h. Consists of nozzle insert + HP power nozzle + union

Order no. 4.769-047.0



Nozzle insert with order no. 3.637-001

Nozzle insert to order no. 3.637-001, Low pressure for machines up to 1100 l/h

For low pressure with machines up to 1.100 l/h

Order no. 4.769-001.0



Nozzle insert to order no. 3.637-001, High pressure for machines up to 1100 l/h

For high pressure with machines up to 1.100 l/h

Order no. 4.769-003.0



Hot water middle class

HDS 10/20-4 M



Nozzle kit for HKF 50 spray head (3.631-009.0 / 3.631-039.0)

Double handle for exact control of the spray head

Double handle. Precise control of the spray head

Order no. 2.863-036.0



Cone for plugging into bungholes

Cone for plugging into bungholes

Order no. 4.132-002.0



Screw plug for using a spray head with one nozzle

Screw plug for using a spray head with one nozzle

Order no. 5.411-061.0



Nozzle 030 for dual nozzle operation HKF 50

Nozzle for dual-nozzle operation

Order no. 6.415-444.0



Nozzle kits for Inno/Easy Foam Set

Nozzle kit 110 for Inno/Easy Set 1000 - 1,300 l/h

Optimal adaptation to different machine outputs for economic use.

Order no. 2.640-689.0



Nozzle pack for wet blasting attachment

Nozzle pack for wet blasting attachment 055

Nozzle pack for wet-blasting nozzle for items 28 / 29 Consisting of wet-blasting nozzle and nozzle insert – only in conjunction with wet-blasting attachment 4.762-010/ -022

Order no. 2.637-903.0



Nozzle protector for steam nozzle

Nozzle protector (rubber)

Nozzle protector for steam nozzles 4.766-023 and 4.766-024.

Order no. 5.394-059.0



Nozzle union

Nozzle union

With protector for high-pressure and Power nozzles M 18 x 1.5

Order no. 5.401-210.0



Pipe cleaning hose, ID 6

Pipe cleaning hose, NW 6, 20 m

Especially flexible high-pressure hoses for inner pipe cleaning (thread connection for nozzle R 1/8).

Order no. 6.390-028.0



Pipe cleaning hose, NW 6, 30 m

Especially flexible high-pressure hoses for inner pipe cleaning (thread connection for nozzle R 1/8).

Order no. 6.390-029.0



Pipe cleaning hose, ID 6

Pipe cleaning hose, NW 6, 20 m, 200 bar

Especially flexible high-pressure hoses for inner pipe cleaning (thread connection for nozzle R 1/8).

Order no. 6.390-030.0



Pipe cleaning nozzle

Pipe cleaning nozzle

For the clean, environmentally-friendly cleaning of blocked drains and pipes. Nozzle orifices are positioned so that the nozzle pulls itself and the hose into the pipe. Brass nozzle with connection M 22 x 1.5 outer thread - for mounting directly on the HP hose. 4 x 45° toward the rear, Ø 24 mm

Order no. 5.763-012.0



Pipe cleaning nozzle

For the clean, environmentally-friendly cleaning of blocked drains and pipes. Nozzle orifices are positioned so that the nozzle pulls itself and the hose into the pipe. Brass nozzle with connection M 22 x 1.5 outer thread - for mounting directly on the HP hose. 8 x 45° toward the rear, Ø 24 mm

Order no. 5.763-013.0



Rotating pipe cleaning nozzle

With female thread, different spraying directions for environment-friendly cleaning of blocked drains and pipes. Nozzle orifices are positioned so that the nozzle pulls itself and the hose into the pipe. With R 1/8" connection to the pipe cleaning hose. 4 rotating jets

Order no. 6.415-440.0



Power nozzle spray angle 15°

Power nozzle, spray angle 15°

Fan jet nozzle for stubborn dirt and stains.

Order no. 2.883-390.0



Power nozzle spray angle 25°

Power nozzle spray angle 25°

Fan jet nozzle for large-area coverage and stubborn dirt and stains.

Order no. 2.883-400.0



Power nozzle spray angle 40°

Power nozzle spray angle 40°

Fan jet nozzle for large-area coverage – suitable for sensitive surfaces

Order no. 2.884-525.0



Push-on washing brush

Push-on washing brush, M18 x 1.5

General-purpose cleaning on all surfaces. With clamp for mounting directly to spray lance. Connection M 18 x 1.5.

Order no. 4.762-016.0



Rollover nozzle holder

Rollover nozzle holder

Changes from solid to fan jet with flick of the wrist. Knurled nut for changeover to low pressure detergent intake, without nozzles (order machine-specific Kärcher Power nozzle separately)

Order no. 4.764-012.0



Rotary coupling

Rotary coupling

Reliably prevents high-pressure hose twisting. Connection M 22 x 1.5 m. protector

Order no. 4.401-076.0



Rotating coupler

Reliably prevents high-pressure hose twisting. Connection M 22 x 1.5 m. protector

Order no. 4.401-091.0



Rotating spray lances

Jet pipe packaged only for replacement

Order no. 4.760-660.0



Jet pipe packaged only for replacement

Order no. 4.760-664.0



Jet pipe packaged only for replacement

Order no. 4.760-663.0



Rotating spray lances

Jet pipe packaged only for replacement

Order no. 4.760-661.0



Jet pipe packaged only for replacement

Order no. 4.760-662.0



Rotating washing brush

Rotating washing brush for machines > 800 l/h

Driven by water jet. Gently removes fine dust and traffic film from all surfaces. Temperature resistant up to 80 °C, M 18 x 1.5 (replaceable brush element).

Order no. 4.762-283.0



Rotating washing brush for machines > 800 l/h

Driven by water jet. Gently removes fine dust and traffic film from all surfaces. Temperature resistant up to 80 °C. M 18 x 1.5. (replaceable brush element)

Order no. 4.762-287.0



Servo Control

Servo control

Water quantity and pressure control directly on the trigger gun

Order no. 4.775-470.0



Shut-off cock

Shut-off cock

Mounts to machine's high-pressure outlet. The shut-off cock simplifies handling of pipe cleaning hose using the shut-off cock's "on-off" functions which can be easily controlled on the machine.

Order no. 4.580-160.0



Spacer (including nozzle union)

Spacer (incl. nozzle union)

Guarantees constant safety clearance, e.g. for tyres and bodywork. Helps prevent damage to sensitive surfaces. Mounts directly to lance.

Order no. 5.394-294.0



Special hoses

High-pressure hose, 1.5 m DN 8, connection to hose reel

Order no. 6.388-886.0



Spray lance

Jet pipe packaged only for replacement

Order no. 4.760-667.0



Steam nozzle

Steam nozzle 40080

Order no. 2.885-042.0



Steam nozzle .

50° flat jet for cleaning and thawing operations in steam mode, e.g. thawing sand and gravel, de-icing formwork, dewaxing vehicles.

Order no. 4.766-023.0



Suction filter

Suction filters with non-return valve

With non-return valve, brass

Order no. 4.730-012.0



Suction filter without non-return valve

Without non-return valve, brass

Order no. 4.730-019.0



Water filter

Order no. 6.414-956.0



Teleskopstrahlrohr

Telescopic jet pipe

Order no. 6.394-690.0



Undercarriage spray lance

Underbody lance

Mobile. For effective and convenient cleaning of underbodies, chassis and wheel arches. Stainless steel. Without HP nozzle.

Order no. 4.760-245.0



Variable pressure spray lance

Variable pressure spray lance, 1,040 mm

With integrated pressure gauge for infinitely variable pressure control directly on the spray lance. Nozzle union M 24 x 1.5. Addition of cleaning agent at low pressures.

Order no. 4.760-230.0



Variable pressure spray lance, 670 mm

With integrated pressure gauge for infinitely variable pressure control directly on the spray lance. Nozzle union M 24 x 1.5. Addition of cleaning agent at low pressures.

Order no. 4.760-362.0



Water supply hose

Water supply hose

NW 13 R1" / R 3/4", up to 30 °C

Order no. 4.440-038.0



Water supply hose

Water supply hose

NW 19 R1" / R 3/4", up to 85 °C, for pick-up

Order no. 4.440-207.0



Water supply hose

NW 19 R1" / R1", up to 85 °C

Order no. 4.440-270.0



Wet blasting attachment (without nozzle)

Wet blasting attachment with flow control (without nozzle)

Adds abrasive to high-pressure jet. For removing paint, rust, scaling. Mounts to spray lance instead of the of high-pressure nozzle. With flow control.

Order no. 4.762-010.0



Wet blasting attachment without flow control (without nozzle)

Adds abrasive to high-pressure jet. For removing paint, rust, scaling. Mounts to spray lance instead of the of high-pressure nozzle. Without flow control.

Order no. 4.762-022.0



Y-Verteiler

Y-Verteiler

Order no. 4.405-048.0

