BRIEF DESCRIPTION WITH TECHNICAL DATA OF EACH UNIT

MANUAL PRE-WASH ZONE

High-pressure supply unit 4.0 kW, 15 l/min, 120 bar

- High-pressure piston pump, CAT type, with control unit
- Mounted on a rubber base for vibration damping
- Steel support console, primed and painted, incl. dosing pump
- Water system separator with pre-tank, inlet fittings and level control

Swivel console (boom)

- For mounting the lance (gun)
- Mounting console with 360° radius
- Centrally installed at the manual pre-wash station
- Stainless-steel design

The investor must provide the mounting point as proposed by the supplier.

High-pressure lance, length 1,050 mm

- Lance length 1,050 mm with hand gun
- Twist end piece
- Nozzle spray angle: 30°
- High-pressure hose, length 3.5 m, with swivel connection
- Operation without pressure surges

Rest basket

- For placing the hand lance
- Free-standing version
- Stainless-steel design
- Integrated drain
- Integrated sensor for activating the supply unit

ASSISTANCE WITH VEHICLE ENTRY

Entry plate

- To facilitate vehicle entry onto the conveyor chain or conveyor belt
- Steel design, hot-dip galvanized, black/yellow paint finish
- 2 entry rollers, height above floor: 80 mm

- Safety frame supplied during construction works

DOUBLE CONVEYOR CHAIN SYSTEM

Double conveyor chain type "i", 10 pull rollers, length 16,825 mm

- Wheel width up to 330 mm, height above floor 50 mm, spacing between rollers 3,250 mm
- All in galvanized finish, including cover mesh and cover elements
- Frequency-controlled drive up to 14 m/min
- Double, closed link chain “Made by CHRIST”
- Installation frame for the construction-phase floor build-up of the car wash hall

Cover mesh for the uncovered part of the conveyor system / per running meter

Standard mesh to cover the uncovered part of the conveyor chain trench:

- Dimensions: 1,000 mm x 500 mm
- Walkable (not drive-over) design
- Anti-slip design

SOAKING SYSTEMS

Soaking frame, ALU-eloxal construction, unlit

- For stationary installation above the vehicle conveyor system
- Control sensors for vehicle detection and height monitoring
- Foam unit with reactor and separate dosing pump
- Self-supporting plastic structure
- Decorative colored front foil with lettering of choice

Medium-pressure pre-wash, stainless-steel design, unlit, 170 l/min, 15 bar, incl. 11.0 kW supply unit, without cleaning filter

- Stainless-steel frame construction, unlit, without lettering
- Medium-pressure nozzle unit (nozzles of various shapes)
- 11.0 kW supply unit (centrifugal pump)
- No filter unit (treated water via the treatment plant)

UNDERBODY WASHING SYSTEMS

Front/rear and underbody washing device, above-floor installation, 100 l/min, 15 bar, without supply unit

- For medium-pressure cleaning of the front and rear of the vehicle and, in the “Underbody wash” program, for cleaning the underbody
- Medium-pressure system installed on the floor of the car wash hall, switchable design
- Utility supply via the conveyor-chain trench

Valve block for automatic switching between medium pressure for pre-wash and pressure for underbody washing

- If both functions are selected simultaneously (program selection), the distribution of power between two consumers may be noticeable.

TECHNOLOGY OF MAIN WASH UNITS (STAND-ALONE WASH UNITS)

ROTEX-3 brush portal, 3-brush rollers

- Stainless-steel frame clad with plastic elements, RAL color selectable by the investor (brush segment/logo position and all material options)
- 2 vertically mounted side rollers for cleaning the front, sides and rear of the vehicle, with pneumatic opening at the start
- 1 horizontal roof roller with vehicle contour tracking at the rear
- Electric roller travel; brush wetting via wide-strip nozzles

ROTEX-2 contour wash frame, 2 wash rollers (brush segments in separate position and in all material options)

- Self-supporting steel frame, hot-dip galvanized and clad with plastic parts
- 2 vertically mounted wash rollers for contour-following cleaning of the front, sides and rear of the vehicle; pneumatic opening
- Electric roller travel; brush wetting via wide-strip nozzles

Synchronous wheel washing system (integrated in ROTEX systems)

- For cleaning wheels and rims with brushes
- Installation kit for synchronous movement of wheel brushes with the conveyor chain
- 2 brushes with water supply, travel 1,000 mm; electric drive for rotating wheel-brush holders (reversible rotation direction for improved detail cleaning)
- Can be installed in all ROTEX systems

Brush segments for ROTEX-3, 3 rollers

- Brush segments made of polyethylene material
- Slightly profiled at the top of the roller
- Includes mounting material
- Color palette: as requested and subject to the available color range

Brush segments for ROTEX-2, 2 rollers

- Brush segments made of polyethylene material
- Slightly profiled at the top of the roller
- Includes mounting material
- Color palette: as requested and subject to the available color range

CARE AND PROTECTION AREA

Frame for applying preservation agent or drying agent (unlit – ALU profile frame)

- For applying a chemical preservation or drying agent
- Aluminum frame, painted grey RAL 7047, without lettering and without lighting
- Spray nozzle system, stainless-steel piping

DRYING AREA

Main system dryer AEROFLEX 3, 2 × 5.5 kW (adjustable and rotating roof), 2 × 7.5 kW (side)

- Modular blow-off element; steel, hot-dip galvanized construction, painted RAL
- Roof nozzle with two directly mounted fans for improved blow-off performance
- Roof nozzle adjustable to the vehicle shape, with a front and rear waviness up to 25° to achieve an optimal blow-off angle
- 2 stationary side nozzles installed on a separate part of the drying element
- Motor power: roof fans 2 × 5.5 kW, side fans 2 × 7.5 kW

Exit safety device

- Safety device that shuts down the transport system if a vehicle does not leave the lane in time, thereby endangering itself and the following vehicle
- Photo sensor system for exit monitoring
- Installed after the drying zone

Wrong-entry protection

- Required safety measure to prevent incorrect entry into the car wash hall
- Dual photo sensor with direction-of-interruption detection system
- Audible alarm with key reset
- Installed on the exit side of the hall

Exit traffic light, red/green, LED, wall-mounted

- Visual signal granting the driver permission to exit after the wash is complete
- Green light = please drive out

- Yellow light = please do not drive out yet; wait for the green light
- Installed on the wall or on a hanging console

CONTROL TECHNOLOGY

Control cabinet with operator panel for track lengths up to 19 m of conveyor chain

- Painted control cabinet with main switch 400 V
- PLC control, mounting plates with contactors, protective switches and all other electronic and power equipment
- The PLC tracks the vehicle from entry and, in a controlled and time-synchronized manner, switches individual aggregates during the wash process
- External IP65 control panel (wall-mounted) for lane control and program selection

WASH-OFFICE software package for the investor's PC

- Diagnostics, parameter entry for configuring the selected programs, and operational monitoring with fault/stop reports

Minimum requirements for the investor-provided PC:

- Intel Pentium 3.2 GHz, 512 MB RAM
- 40 GB disk, CD-ROM, ports: 1× serial (9-pin Sub-D), 2× USB
- Windows 2000, monitor, keyboard, mouse

SUPPLY UNITS

Water system separator 400 l, supply pump 3.0 kW, 280 l/min, 3.5 bar

- Fresh-water tank 400 liters (DIN 1988-4 / DIN EN 1717)
- Valve/fitting assembly with associated installation
- Supply pump 3.0 kW, 280 l/min, 3.5 bar
- Cabinet with associated chemical components (contactor), protective and monitoring units

Independent dosing station, free-standing

- For dosing pumps
- Hot-dip galvanized frame as the structure
- Installed in the technical/mechanical area of the car wash hall
- All pipe connections to the units in the car wash
- Media containers installed directly under the supporting structure

Supply lines for water, electricity and air. Overhead guides above the lane made of stainless sheet metal, per running meter of the conveyor chain