

Nilfisk VHP

MC 9P / MC 10P



MC 9P – MC 10P

- Next generation Nilfisk VHP (very high pressure)

Where cleaning demands are industrial, the MC 9P and MC 10P deliver powerful, mobile cold-water-pressure washing, built to handle the toughest cleaning jobs in the harshest conditions.

The MC 9P and MC 10P deliver outstanding cleaning of construction sites, shipyards and industrial facilities where power, mobility, and performance are required to get the job done.

Both offer intuitive user-interface functionality, improved tilting and turning and center crane lift for transferring from one job to the next.



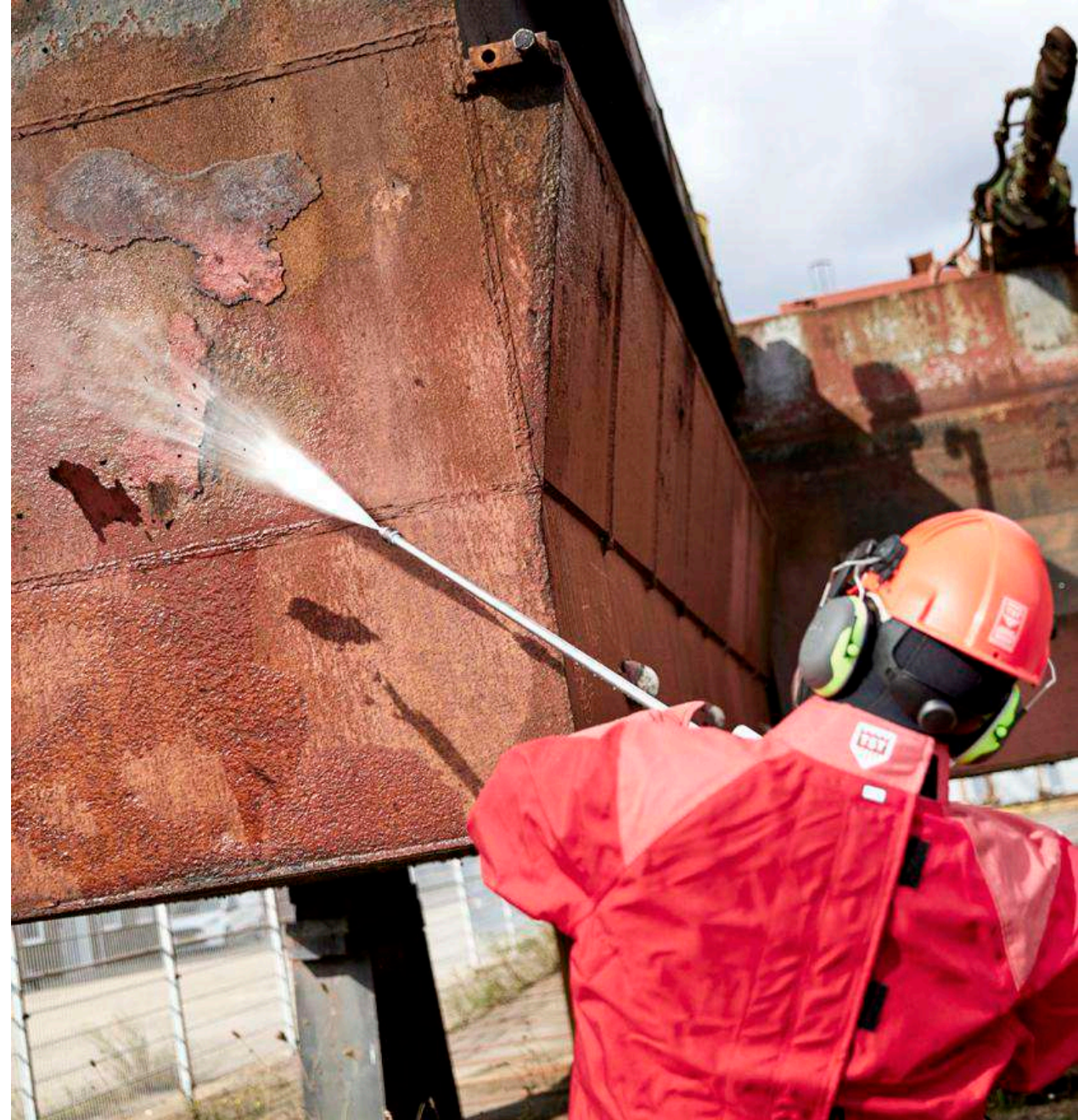
Segments and applications

Marine

From shipyards and deconstruction to off-shore and aboard vessels.

CLEANING TASKS

- General wash down
- Ballast tank cleaning
- De-rusting of deck mounted twist lock
- Cargo hold cleaning
- De-rusting of hatch covers



Segments and applications

Building & Construction

CLEANING TASKS

- Formwork cleaning
- Scaffolding cleaning
- Cleaning & roughening of surfaces
- Drain cleaning
- Sludge & mud cleaning
- General wash down
- Roadwork paint stripping



Segments and applications

Industry

CLEANING TASKS

OIL & GAS AND PROCESSING PLANTS

- De-rusting
- Wash down
- Tube cleaning
- Drain cleaning
- Sludge & mud cleaning

OTHER :

- Printing presses
- Vehicle bodywork paint rooms
- Runway cleaning



Which product is best for which use?

CLEANING

Applications

- Higher need for vehicular transport.
- Reduced size preferred
- 50/60 Hz variants
- 3-Phase 400/440V
- Ideal for heavy cleaning tasks in any environment



MC 9P

SURFACE PREPARATION

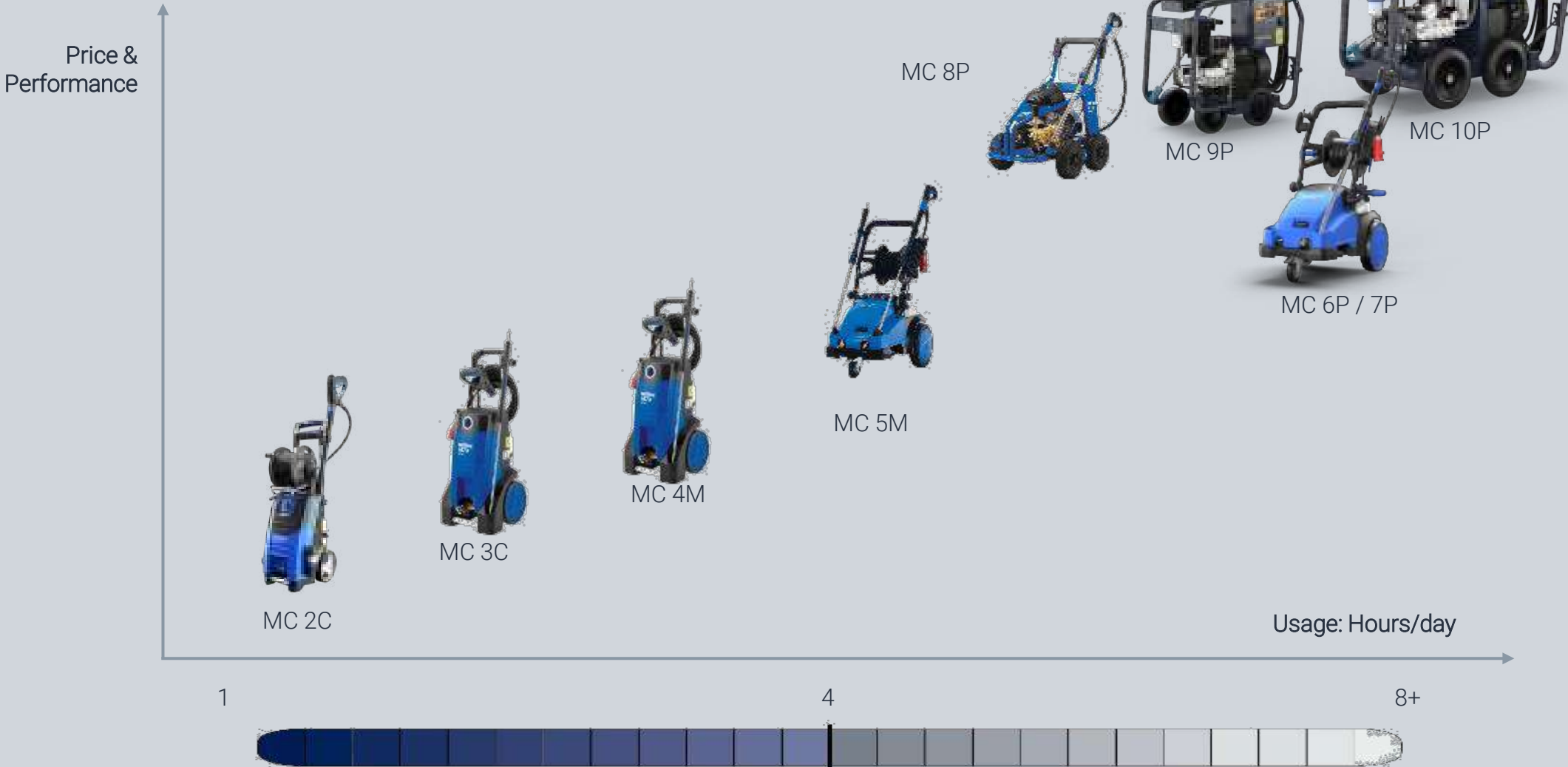
Applications

- Less needed but flexible transport option
- Large wheels for great movement
- 50/60 Hz variants
- 3-Phase 400/440V
- Ideal for heavy cleaning tasks and surface preparation in any environment



MC 10P

Which product is best for which use?



Which product is best for which use?

MC 6P



- > 6 hrs/day
- 3-phase
- 2x detergent
- 1450 RPM motor
- 4-piston pump
- Ceramic pistons
- Delayed auto start/stop
- Inlet temp 80°C
- Pump-oil tank with level sensor
- Manual mode (bypass) with sleep function
- Flow activation
- High-pressure variant (250 bar)

MC 7P



- > 6 hrs/day
- 3-phase
- 2x detergent
- 1450 RPM motor
- 4-piston pump (C3)
- Ceramic pistons
- Delayed auto start/stop
- Inlet temp 80°C
- Pump-oil tank with level sensor
- Manual mode (bypass) with sleep function
- Flow activation

MC 8P



- 1-6 hrs/day
- 3-phase
- 1450 RPM motor
- 3-piston pump
- Ceramic pistons
- Delayed auto start/stop
- Inlet temp 50°C
- High flow
- 4-wheel tough design
- Stainless-steel frame version
- Pressure activation

MC 9P



- > 6 hrs/day
- 3-phase
- 1460-1760 RPM motor
- Plunger pump
- Ceramic pistons
- Dry shut off
- Inlet temp 35°C
- High flow
- High working pressure
- 4-wheel tilt design
- Anti corrosion frame treatment
- Onboard storage
- Narrow design
- Crane lifting point

MC 10P



- > 6 hrs/day
- 3-phase
- 980-1765 RPM motor
- Plunger pump
- Tungsten carbide pistons
- Dump gun
- Inlet temp 35°C
- High flow
- High working pressure
- 4-wheel tilt design
- Anti corrosion frame treatment
- Onboard storage
- Crane lifting point

Product variations

VHP product concept: This range has two main models and several performance options

MC 9P

- The small and nimble powerhouse
 - 350/1260
 - 500/960



MC 10P

- Heavy duty, maximum performance
 - 500/1800
 - 800/960
 - 1100/900



Product features

A powerful HPW built for effectively dealing with tough types of dirt in heavy duty working environments



Key features:

- New centered crane lift concept
- Compact design for increased accessibility
- Intuitive and ergonomic accessory storage
- Increased mobility with new wheel design + “tilt & turn” handling
- Interface clustering – access all machine functions on only two sides
- Simplified machine layout and plumbing route
- Full CB/CE certification (By SLG)



Additional features :

- Full range of pressure levels from 350 to 1100 bar
- Pneumatic wheel accessory option for MC-10P for soft surfaces. Can be added to front and rear.
- Industrial design & branding according to Next Gen guidelines
- Improved serviceability

Product summary – MC-9P

Storage: Dedicated hose storage. Removable for ease of service - no tools needed. Protects components below from dirt and water - and ensures the hose stays within the bumper frame. Drain holes in front.

Maneuverability: Secondary handle area for assisted pulling and turning.

Water inlet: Placed high for user convenience and colored for interaction point identification. Inlet filter placed directly between water inlet and WBT for shortest possible plumbing route.

Water Break Tank: Compact WBT (same as on MH range), with simplified plumbing and design-integrated components. Fitted to motor with a bracket.

Storage: Dedicated spray gun storage on side of machine. Gun is protected behind the bumper frame while still ensuring easy access. Colored nozzle protector for user convenience.

Hoist point: Centered lifting bracket - exchangeable to accommodate different balance points on the same platform due to variation in components. Colored for intuitive interface decoding.

Maneuverability: Main handle for optimal “Tilt & Turn” handling. Removable handle for easy mounting/dismounting of MPU. Colored for intuitive main touch point identification.

Storage: Dedicated power cable storage. Cable protected between bumper frames when stored.

Maneuverability: Secondary handle area for pushing/ pulling.

Safety: Robust wheel brake to lock the machine in position. Colored for intuitive touch point identification.

Safety: Tilt-stop incorporated into frame design for safety during handling.

Optimal Mobility
New wheelbase design with four large wheels. Easy to maneuver with the “Tilt & Turn” principle.

Interface clustering: All machine functions are clustered onto only two sides (Side and front) to ensure easy access and a good overview.



Product summary – MC-9P

Walk-around view

Hose tray / lifting point



Brake



Storage of cable, lance and hose



Water inlet / gun storage

Product summary – MC-10P

Storage: Dedicated hose storage. Removable for ease of service - no tools needed. Protects components below from dirt and water - and ensures the hose stays within the bumper frame. Drain holes in front.

Maneuverability: Secondary handle area for assisted pulling and turning.

Water Break Tank: Compact WBT (same as on MH range), with simplified plumbing and design-integrated components.

Water inlet: Placed high for user convenience and colored for interaction point identification. Inlet filter placed directly behind front plate.

Storage: Dedicated spray gun storage on side of machine. Gun is protected behind the bumper frame while still ensuring easy access. Colored nozzle protector for user convenience.

Serviceability: New vertical mounting plate for optimal access to booster pump and water filter. New rupture disc safety valve for quick and low-cost maintenance.

Hoist point: Centered lifting bracket - exchangeable to accommodate different balance points on the same platform due to variation in components. Colored for intuitive interface decoding.

Maneuverability: Main handle for optimal “Tilt & Turn” handling. Removable handle for ease mounting/dismounting of motor. Colored for intuitive main touch point identification.

Maneuverability: Secondary handle area for pushing/pulling.

Storage: Dedicated power cable storage. Cable protected between bumper frames when stored.

Safety: Robust wheel brake to lock the machine in position. Colored for intuitive touch point identification.

Safety: Tilt-stop incorporated into frame design for safety during handling.

Optimal Mobility
New wheelbase design with four large wheels. Easy to maneuver with the “Tilt & Turn” principle. Pneumatic wheel available as optional accessory for use on soft surfaces. Can be added to both front and rear.

Interface clustering: All machine functions are clustered onto only two sides (side and front) to ensure easy access and a good overview.



Product summary – MC-10P

Walk-around view



Brake, tilt stop and handles



Storage of cable, lance and hose



Water inlet / gun storage

Hose tray / lifting point

Product summary – MC-10P



360° walk-around view



Hose tray / lifting point / twin wheels



Storage of cable, lance and hose



Brake, tilt stop and handles



Water inlet / gun storage

MC 9P - MC10P

Product specifications

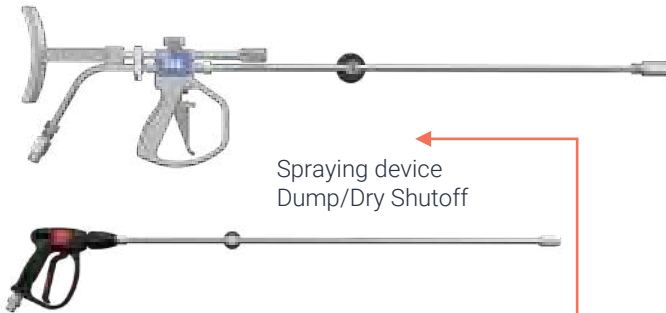
		MC 9P-350/1260 400/3/50	MC 9P-350/1260 440/3/60	MC 9P-500/960 400/3/50	MC 9P-500/960 440/3/60	MC 10P- 500/1800 400/3/50	MC 10P- 500/1680 440/3/60	MC 10P-800/990 400/3/50	MC 10P- 800/1170 440/3/60	MC 10P- 1100/870 400/3/50	MC 10P-1100/900 440/3/60
Material		107147021	107147022	107147024	107147025	107147030	107147031	107147032	107147033	107147034	107147035
Pump: (Marketing)											
Maximum allowable working pressure [bar]	bar	360	360	500	500	500	500	860	860	1100	1100
Maximum allowable working pressure [MPa]	Mpa	36	36	50	50	50	50	86	86	110	110
Rated Working pressure [bar]	bar	360	360	500	500	500	500	800	800	1000	1000
Rated Working pressure [MPa]	Mpa	36	36	50	50	50	50	80	80	100	100
Q = Qmax [l/h]	l/h	1260	1260	960	960	1800	1680	990	1170	870	900
Impact force	kg/Force	9,7	9,7	8,7	8,7	16,3	15,2	11,3	13,4	11,1	11,5
Recoil force	N	93,9	93,9	84,3	84,3	158,1	147,6	110,0	130,0	108,1	111,8
Hydraulic control system		Dry shot off	Dry shot off	Dry shot off	Dry shot off	Dry shot off	Dry shot off	Dump Gun	Dump Gun	Dump Gun	Dump Gun
Nozzle type		Fan-jet 15°	Fan-jet 15°	Fan-jet 15°	0°-jet	Fan-jet 15°	0°-jet	Fan-jet 15°	0°-jet	0°-jet	0°-jet
Nozzle size		1505	15045	1503	0003	15055	00050	15025	0003	0002	0002
Pump inlet temperature °C	°C	35	35	35	35	35	35	35	35	35	35
Motor: (Marketing)											
Motor Power [kW] (approx.)	kW	18	18	18	18	30	30	30	30	30	30
V/~ /Hz/amps	V/~ /Hz/A	400/3/50/32	440/3/60/29	400/3/50/32	440/3/60/29	400/3/50/58	440/3/60/55	400/3/50/59,3	440/3/60/55	400/3/50/59,3	440/3/60/59,3
Volt	V	400	440	400	440	400	440	400	440	400	440
Phase	~	3	3	3	3	3	3	3	3	3	3
Expected Current (A)	A	32,0	29,0	32,0	29,0	58,0	55,0	59,3	55,0	59,3	59,3
Motor / Pump rpm		1460	1760	1460	1760	1470	1765	980	1175	980	1175
Accessories:											
Hose type	type	DN12	DN12	DN12	DN12	DN12	DN12	DN12	DN12	DN12	DN12
Hose length	m	15	15	15	15	20	20	20	20	20	20
VHP couplings with swivel	type	1/2" BSPP-F	1/2" BSPP-F	1/2" BSPP-F	1/2" BSPP-F	1/2" BSPP-F	1/2" BSPP-F	M24 -F	M24 -F	M24 -F	M24 -F
Spray gun	type	dry shut-off	dry shut-off	dry shut-off	dry shut-off	dry shut-off	dry shut-off	Dump gun	Dump gun	Dump gun	Dump gun

Certified quality and safety

Machine directive 2006/42/EC

3rd party certified by SLG to meet following standards

EN 1829-1 High pressure washer jet machine (+350 bar)



Spraying device
Dump/Dry Shutoff

Safety device for excessive pressure



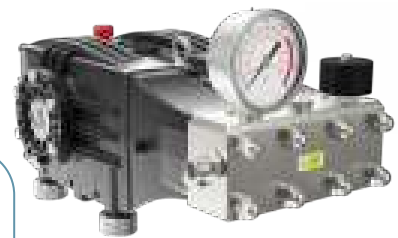
EN 809 - Pump units



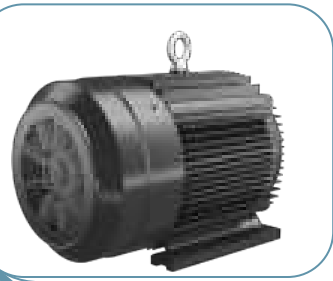
EN 60204-1 Safety of electrical machinery



EN 1829-2 High pressure hoses, hose lines and connectors (+350 bar)



EN 60204-1 Safety of electrical machinery



Pressure gauge

Personal Protection Equipment

Living up to safety requirements is essential

- The use of VHP machinery requires safety training and equipment
- Nilfisk offers a range of products that meets safety requirements, supplied by industry leaders in PPE



Personal Protection Equipment

Living up to safety requirements is essential



Description	Material
TST Jacket w/ hand prot. 2000Bar S/M	106404561
TST Jacket w/ hand prot. 2000Bar L/XL	106404562
TST Jacket w/ hand prot. 2000Bar 2XL/3XL	106404563
TST Trousers 2000Bar S/M	106404564
TST Trousers 2000Bar L/XL	106404565
TST Trousers 2000Bar 2XL/3XL	106404566



Personal Protection Equipment

Living up to safety requirements is essential



Description	Material
VHP PPE SAFETY HELMET W/EAR MUFF-FACE	700799091
VHP PPE Safety Balaclava	700799082
VHP PPE Safety Goggles	700799093
VHP PPE Hand protection 2000bar - set	106404736
VHP PPE Gaiters 2000 bar	700799024

Personal Protection Equipment

Living up to safety requirements is essential



Description	Material
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VHP PPE S.GEAR APRON STANDARD 2000BAR	700799071
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VHP PPE S.GEAR HOSE PROTECT DIA36x750mm	700799097
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VHP PPE S.GEAR HOSE PROTECT DIA36x1400mm	700799107
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Hose Protection