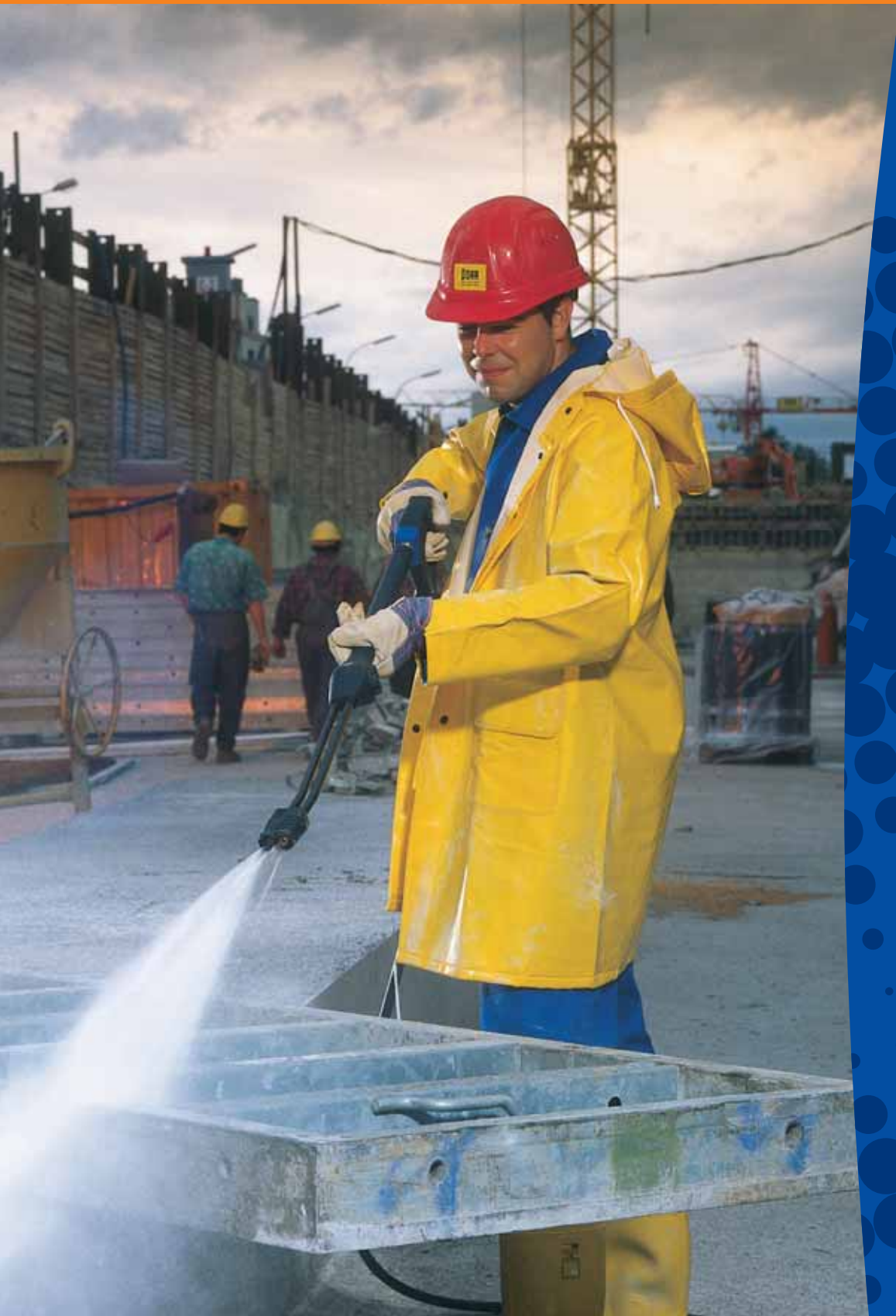


PETROL & DIESEL - WHY COMPROMISE

petrol & diesel driven pressure washers



**Nilfisk
ALTO**

Why Compromise

**Wap
KEW**

TECHNOLOGIES

High level performance and robustness – independent of electricity

Nilfisk-ALTO is not only renowned for its excellent line of electrical powered pressure washers. A wide line of petrol and diesel powered hot and cold water pressure washers also completes our offering to customers in agriculture, building & construction and rental.

The independence of petrol and diesel powered motors is combined with typical Nilfisk-ALTO robustness and durability to provide long lasting, powerful cleaning solutions for a wide range of applications.

The line of products covers motor powers from 5 to 17 HP depending on the models. The range of performance spans from 140 to 230 bar and 650 to 1290 l/h – and that means bad news for even the most incrustated dirt.

Why compromise





Power, robustness and durability



Nilfisk-ALTO CONTRACTOR MASTER

- Heavy-duty, 4 ceramic piston C3 pump
- Electrical starting system for easy start-up
- Robust steel chassis and frame



Nilfisk-ALTO CONTRACTOR SILENT

- Low noise level thanks to all around cabinet
- Heavy-duty, 4 ceramic piston C3 pump
- Electrical starting system for easy start-up with no strain
- Robust steel chassis and frame



Nilfisk-ALTO CONTRACTOR HEAVY DUTY

- Heavy-duty, 4 ceramic piston C3 pump
- Electrical starting system for easy start-up
- Robust steel chassis and frame
- Additional high pressure for use on concrete and incrustated dirt



Nilfisk-ALTO CONTRACTOR DIESEL

- 03 pump with 4 stainless steel pistons
- Electrical starting system for easy start-up
- Robust steel chassis and frame
- High performance levels for optimal cleaning effect

Technical data:		CONTRACTOR MASTER	CONTRACTOR SILENT	CONTRACTOR HEAVY DUTY	CONTRACTOR DIESEL
Pump pressure	bar/MPa	220/22	200/20	210/21	180/18
Cleaning Impact	kg/Force	6.1	6.9	5.6	6.2
Water flow, Q _{max} / Q _{IEC}	l/h	1120/1010	1290/1200	1050/960	1230/1140
Water flow, Min.	l/h	360	580	490	580
Max. inlet temp.	°C	35			
Water temp. (water/steam)	°C	80/150	100/150	100/150	100/150
Suction height (dry)	m	5	2	5	5
Power consumption	kW	9.1 / 13	12.6/16.9	12.0/16.3	12.0/16.3
Motor type		Honda GX 390, LXE	Mitsubishi S3L2-61SG	Ruggerini MD151S	Ruggerini MD151S
Boiler / Tank	l	20	60 (shared with motor)	20	20
Motor fuel consumption	kg	3.5	3.5	3	3
Boiler fuel consumption (ΔT = 45°C) ¹⁾	kg/h	4.4	5.6	4.4	5.5
Weight	kg	220	510	315	315
Dimensions L x W x H	mm	1050 x 910 x 860	1160 x 910 x 1250	1160 x 910 x 1060	1160 x 910 x 1060
Hp hose	m/Ø	10/DN10	10/DN10	10/DN10	10/DN10

Standard equipment:

Ergo Gun	• Ergo 3000	• Ergo 3000	• Ergo 3000	• Ergo 3000
Ergo 3000 Lance	Tornado	Tornado	Tornado	Tornado
Tornado Plus nozzle	• 500	• 640	• 640	• 640
Full ceramic pistons	•	•	•	•

- Standard accessories

³⁰⁰⁰**ErgoSystem**
Applied Ergonomics



Durability



Powerful and flexible



Nilfisk-ALTO POSEIDON 5-54 DE

- Industrial unit for intense use
- 10 HP diesel engine with electro start and high performance
- Large air filled tyres and mobile design
- Robust, slow running crank shaft pump with gear reduction and ceramic pistons for a long life time

Nilfisk-ALTO POSEIDON 5-67 PE

- Industrial unit for intense use
- Air cooled 13 HP Honda engine for easy start, high performance
- Robust, slow running crank shaft pump with gear reduction and ceramic pistons for a long life time
- Large air filled tyres and mobile design

Nilfisk-ALTO POSEIDON 5-53 PE

- Professional unit for tough use
- Air cooled 11 HP Honda engine for easy start, high performance
- Large air filled tyres and mobile design
- High pressure pump with ceramic pistons for a long life time

Nilfisk-ALTO POSEIDON 5-47 PE

- Professional unit for tough use
- Air cooled 9 HP Honda engine for easy start, high performance
- Large air filled tyres and mobile design
- High pressure pump with ceramic pistons for a long life time

Nilfisk-ALTO POSEIDON 3-36 PE

- Entry level unit
- Air cooled 5.5 HP engine for easy start, high performance
- High pressure pump with ceramic pistons for a long life time
- Large air filled tyres, very mobile

Nilfisk-ALTO POSEIDON 2-31 PE

- Entry level unit
- Air cooled 5 HP engine for easy start, high performance
- High pressure pump with ceramic pistons for a long life time
- Large air filled tyres, very mobile

		POSEIDON 5-54 DE	POSEIDON 5-67 PE	POSEIDON 5-53 PE	POSEIDON 5-47 PE	POSEIDON 3-36 PE	POSEIDON 2-31 PE
Technical data:							
Pump pressure	bar	195/19.5	230/23	200/20	190/19	140/14	140/14
Cleaning impact	kg/Force	5.4	6.7	5.3	4.7	3.6	3.1
Water flow, Q _{IEC}	l/h	950	1100	930	840	750	650
Water flow, Q _{max}	l/h	1000	1150	1030	900	840	700
Suction capacity (primed)	m	1	1	0.5	0.5	1.5	1
Pump inlet temperature	°C	70	70	60	60	60	60
Motor power	HP	10	13	11	9	5.5	5
Motor type		Yanmar Yanmar L100AE	Honda Gx 390	Honda Gx 340	Honda Gx 270	Honda Gx 160	Honda GC 160
Fuel consumption	l/h	3.1	4	3.3	2.8	1.7	1.55
Motor / Pump	RPM	3300/1500	3400/1550	3300	3400	3200	3400
Weight	kg	110	68	60	53	38	35
Dimensions L x W x H	mm		800 x 565 x 1010	800 x 565 x 1010	800 x 565 x 1010	800 x 565 x 1010	800 x 565 x 1010
Reduction gear		•	•				
HP hose	m/Ø	10/DN8	10/DN8	10/DN8	10/DN8	10/DN8	10/DN8
Standard equipment:							
Ergo Gun		• Ergo 1000	• Ergo 1000	• Ergo 1000	• Ergo 1000	• Ergo 1000	• Ergo 1000
Ergo 3000 lance		Tornado	Tornado	FlexoPower	FlexoPower	FlexoPower	FlexoPower
Nozzle size		• 0530	• 0550	• 0500	• 0450	• 0500	• 0400
Motor throttle control		•	•	•	•	•	•
Detergent injection (on / off)		•	•	•	•	•	•
Electric start		•	•	•	•	•	•
Ceramic pistons		•	•	•	•	•	•
Pressure control		•	•	•	•	•	•

• Standard accessories



Accessory solutions to increase your efficiency ...



Powerspeed VARIO-lance

The rotating effect of this lance will work its way quickly and effectively through incrustrated and dried dirt.



Ideal floor and table cleaning equipment:

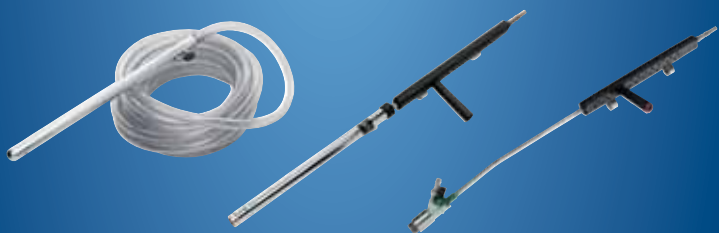
The **POWER SCRUB** is a floor and table cleaner with double nozzle system on a rotating cross bar, which ensures a quick and efficient cleaning of all floors.

Suitable for floor cleaning both out and indoors. Cleaning width respectively 30, 40 and 50 cm. The 500S is in Stainless steel, and very suitable for the food industry.



Hose reels

There's nothing you can't reach: high-pressure hoses at up to 70 metres enlarge the radius of any appliance. Thanks to the hose drum your working space is always clean and tidy.



Surface treatment and cleaning

The right treatment for any surface. From basic mechanical cleaning using the wash brush to quick and powerful stripping of rust and paint using the wet sandblasting kit.

Wet-/ Sand blasting

The mix of water and sand: An efficient way to remove rust and paint from metallic surfaces.

Soft blasting

Thanks to the special ARMEX Powder, less abrasive than sand, this kit enables the removal of graffiti from glass, metal or painted surfaces without any scratching or marking



Foam injector

Allows the injection of detergent under low pressure via connection at the outlet of the machine.

Foam lance

Ensures a thick and consistent application of foam across surfaces for an increased chemical effect.



Sand filters

Use of sand filters on the pressure washer's water inlet will avoid dirt and other particles getting into the pump and causing premature wear of parts. An essential accessory for maintaining the working life of the pressure washer.

The Nilfisk-ALTO Ergo 3000 System optimises ergonomics, user-friendliness and adaptability of the pressure washer for users.

Intensive use of a pressure washer can be tiring for hands, arms and shoulders. So the parts of the pressure washer handled most - the spray gun, lance and couplings, were studied and engineered to reduce operator fatigue and thereby increase operating efficiency.

Ergo 1000 Spray Gun. A new ergonomic spray gun based on tried and tested technology, the Ergo 1000 gun combines optimal serviceability with robustness and simplicity.

Various accessories and attachments can be used to optimise the pressure washer for a specific cleaning task... and with the Ergo system described on next page, it is possible to change accessories in seconds, even without tools.

Ergonomics

Ergo¹⁰⁰⁰System Applied Ergonomics **Ergo³⁰⁰⁰System** Applied Ergonomics

Ergo 3000 is the user-friendly equipment system for the 3rd millennium. Optimal comfort, reduced operator fatigue, and maximum efficiency!

The system includes the high pressure couplings, the spray gun, and 3 different types of lance along with the high pressure nozzle.

Ergo 3000 Quick-Couplers If you have ever struggled to connect or disconnect a threaded high pressure hose connection, or a hot one, you will appreciate this coupler system.

Ergo 3000 Lances Durable, comfortable and lightweight, they are manufactured with corrosion-resistant stainless steel pipes and an insulating grip designed to fit the operator's hand.

Ergo 3000 Sidebar For operators who prefer a sidebar, this accessory is designed for left or right-handed operators. And it can be positioned for operators with long or short arms.

Ergo 3000 Spray Gun The heart of the Ergo system, and the ultimate in spray gun ergonomics. The high pressure hose can swivel and rotate around the axis of the lance so it's not resisting your movements. And the quick-coupling system allows the changing of lances or accessories in a few seconds, without tools. To minimise the operator's fatigue, the two strongest fingers, instead of the two weakest ones activate the trigger.

Ergo 1000 Spray Gun. A new ergonomic spray gun based on tried and tested technology, the Ergo 1000 gun combines optimal serviceability with robustness and simplicity.

Tornado Plus nozzles You have to use it to see how much more powerful it is. The patented design focuses the impact of the water jet but does not narrow the cleaning pattern.



①



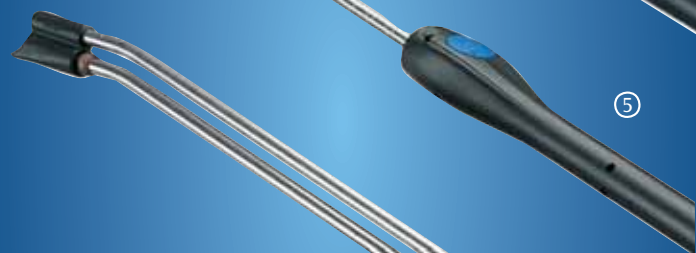
②



③



④



⑤



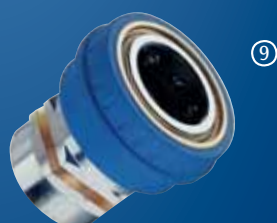
⑥



⑦



⑧



⑨

① Ergo 1000 spray gun

- Large, robust design
- Quick bayonet coupling system for easy connection of accessories
- Innovative new Vario Press function (Ergo 1000 VP) situated within the trigger guard.
- Optimal serviceability – immediate access to valve seats through the hose coupling area

② Ergo 3000 spray gun

- Low activation and holding force on trigger
- 360 degree flexo swivel for hose with locking device adding comfort in any working position
- Swivel couplings on hose avoid hose drilling
- Quick bayonet coupling system for easy connection of accessories
- Vario Press version available

③ Ergo 3000 Vario Press spray gun

- Easy to regulate water pressure and flow close to the working place

④ Universal 3000 Lance

- Lightweight and simple high pressure lance
- Stainless steel piping
- Ergonomic casing for optimal holding positions
- Available in different versions; curved and straight

⑤ FlexoPower 3000 Lance

- Lightweight and simple lance
- Pressure regulation at nozzle head allowing work with low pressure detergent and rinsing
- Stainless steel piping
- Ergonomic casing for optimal holding positions
- Available in different lengths

⑥ Tornado 3000 Lance

- Robust stainless steel double pipe lance
- Pressure regulation at lance
- Separate low pressure nozzle with optimal rinsing effect that gives possibility for using low pressure detergent
- Available in different lengths

⑦ Sidebar

- New optional accessory for additional comfort in working posture
- Soft grip - Flexible solution: adaptable to left or right handed use, long or short reaches

⑧ Tornado Plus Nozzle

- Patented nozzle construction
- 75% more efficient spray profile through high level of water concentration

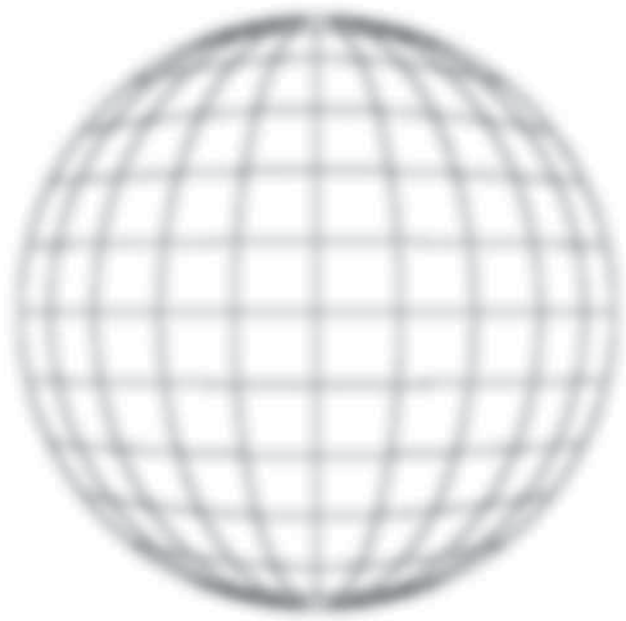
⑨ Ergo 3000 high pressure couplings

- Quick and easy connection of hose and machine
- Protective cover shield against heat transfer
- Security against hose removal when hose is under pressure



Professional Petrol/Diesel pressure washers

The performance, the cleanliness, the advantages



- Full power: 140 to 230 bar operating pressure
- High performance: water flow rate of 650 to 1290 l/h
- Robust, reliable long-life
- Absolutely economical with regard to purchase and maintenance



Nilfisk-ALTO (division of Nilfisk Advance A/S) is the number one professional cleaning equipment company with a turnover of 630 million € and 3800 employees. We are located in all main European countries, US and Asia with our head-quarters in Denmark and production facilities in Germany, Denmark, Hungary, Singapore, China, Italy and the US.

We supply quality high pressure washers, vacuum cleaners and floor care equipment to agriculture, automotive and industrial companies, cleaning contractors and private consumers.

Nilfisk-ALTO is a product driven company with focus on innovation and growth. We believe in developing and maintaining long lasting relationships with our customers, suppliers and employees.

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Why Compromise