



LASER CLEANING
BY NOVOFLOW

HAND-HELD LASER CLEANING MACHINE

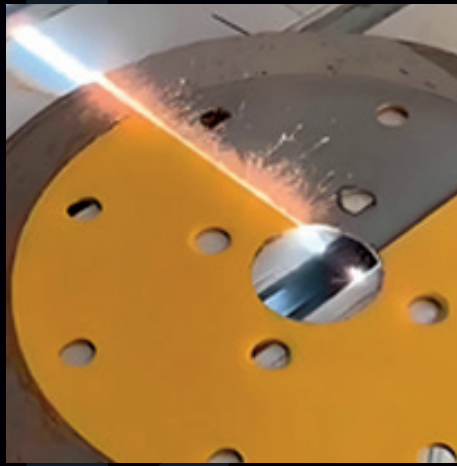


★ WORLD FIRST ★





rust removal

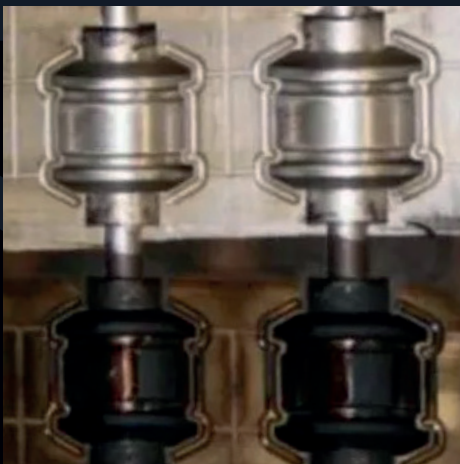


paint removal

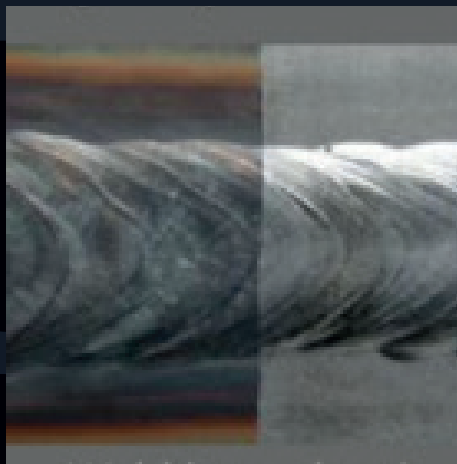


oxidation layer removal

INNOVATIVE, ENVIRONMENTALLY FRIENDLY, VERSATILE AND EFFICIENT



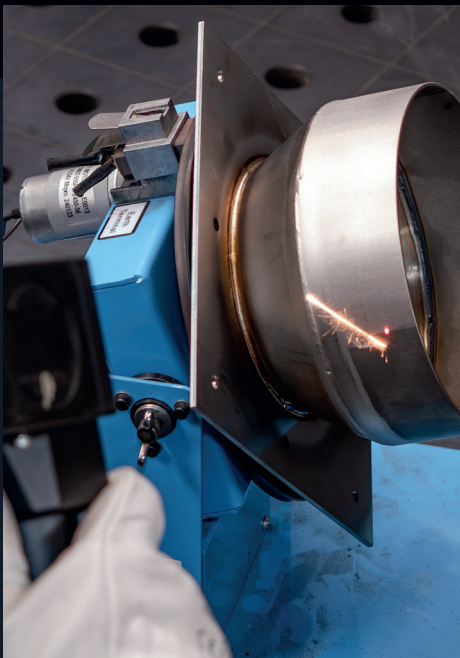
oil removal



weld seam cleaning



wood cleaning



ADVANTAGES OF LASER CLEANING

- thorough, environmentally friendly cleaning without chemicals
- precise cleaning in hard-to-reach areas
- wide range of applications on various materials with a wide variety of contaminants
- time and cost efficient
- easy to use for professionals and non-experts after instruction
- durability and reliable performance

LASER CLEANING DEVICES DETAILS

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type	PULSE LASER – SINGLE/MULTI									
model	NF-LC-S 100	NF-LC-S 200	NF-LC-S 200	NF-LC-M 200	NF-LC-S 300	NF-LC-M 300	NF-GTS 500	NF-LC-MW 300	NF-LC-S 500	NF-LC-M 500
item number	2129	2557	2128	2126	2130	2131	2559	2132	2133	2134
laser power	100 W	200 W			300 W		500 W	300 W	500 W	
cooling type	air-cooled							water-cooled		
spot mode	single			multi	single	multi			single	multi
max. pulse energy mj	1,5	2	5	2	5	15	12,5	1,5	15	
working distance / scan width	working distance 185 - 438 mm / scan width 105 - 300 mm, depending on the field mirror model*									
20 µm flash rust (m²/h)	3,6	7,2	8,6	9,4	11,2	13,9	11,2	13	13,9	
20 µm oil pollution (m²/h)	4,3	8,6	10,3	11	12,3	15,3	12,3	14,3	15,3	
20 µm colour / lacquer (m²/h)	2,7	4,8	5,3	6,8	8,6	10,5	8,6	10,1	10,5	
5 µm galvanised sheet (m²/h)	3,2	6,4	7,5	8,9	9,4	low	9,4	10,8	low	
floor or wall surfaces (m²/h)	3,6	6,8	7,2	1,2	9	16,2	9	12	16,2	
car paint (m²/h)	0,4	0,9	1	0,9	1,5	2,2	1,5	2	2,2	
aluminium oxide layer (m²/h)	1,8	3,6	4,5	5,2	---	---	---	7	---	
hot rolled steel oxide layer (m²/h)	0,2	0,45	---	0,6	---	---	---	1,1	---	
voltage	0,5 kW	1 kW			1,5 kW		3 kW	2 kW	3 kW	
connected load	230 V / 50 Hz									
dimension	60 x 26 x 50 cm	75 x 25 x 63 cm	63 x 29 x 50 cm		89 x 26 x 73 cm			95 x 61 x 103 cm		
weight	29 kg	54 kg	34 kg		56 kg		54 kg	158 kg	177 kg	

typ	PULSE LASER – SINGLE/MULTI		CONTINUOUS LASER (CW)		
model	NF-LC-S 1000	NF-LC-M 1000	NF-LC-CW 1500	NF-LC-CW 2000	NF-LC-CW 3000
item number	2560	2233	2136	2137	2138
laser power	1000 W		1500 W	2000 W	3000 W
cooling type	water-cooled		water-cooled		
spot mode	single	multi	continuous		
max. pulse energy mj	15	50	CW (wavelength) 1070 nm +/- 3 nm)		
working distance / scan width	working distance 185 - 438 mm/scan width 105 - 300 mm, depending on the field mirror model*		working distance 400 - 800 mm/scan width 5 - 300 mm, depending on the focus lens**		
20 µm flash rust (m²/h)	27,8		18	24	36
20 µm oil pollution (m²/h)	37,8		24	32	48
20 µm colour / lacquer (m²/h)	18		13,5	18	27
5 µm galvanised sheet (m²/h)	low		12	17	25
floor or wall surfaces (m²/h)	30,2		18	24	36
car paint (m²/h)	4		X		
aluminium oxide layer (m²/h)	---		---		
hot rolled steel oxide layer (m²/h)	---		O		
voltage	6 kW		7 kW	9 kW	14 kW
connected load	230 V / 50 Hz		230 V / 50 Hz		380 V / 50 Hz
dimension	95 x 61 x 103 cm		123 x 74 x 150 cm		
weight	177 kg		173 kg	180 kg	228 kg

The data was measured in the laboratory under automatic conditions as a reference.

The heat generation of the continuous wave (CW) laser is significantly higher and appears grey after cleaning, which differs from the cleaning effect of the pulsed cleaner.

X = leads to destruction of the component
 --- = not very efficient
 O = low effect

subject to technical changes

PULSE LASER – SINGLE/MULTI

field mirror model* (standard F254)	F160	F210	F254	F330	F420
working distance mm	185	240	285	345	438
scan width mm	105	130	150	175	200

CONTINUOUS LASER (CW)

focus lens** (standard F800)	F400	F600	F800
working distance mm	400	600	800
scan width mm	150	225	300

AREAS OF APPLICATION

- metalworking companies
- automotive industry
- bodywork processing
- aerospace
- construction
- precision engineering
- repair
- manufacturing ...

MATERIALS

- stainless steel
- steel
- aluminium
- copper
- brass
- titanium
- alloys such as inconel, monel, hastelloy

In addition to our laser cleaning devices, we also offer a wide range of accessories, PPE and safety equipment. Plus, we provide the best service, support and, if necessary, quick repairs.

Are you looking for certified training to become a qualified laser safety officer? No problem, we are happy to help. Please contact us for more information!



LASER CLEANING
BY NOVOFLOW



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