LEAFLETS RF-PLUS/RF-SEMI







ENVIRONMENTS WITH SPECIFIC REQUIREMENTS



In some environments the products for material handling have to fulfil specific requirements. This could be environments with strict hygiene requirements, aggressive environments, explosive atmospheres and environments being sensitive to static electricity. The products might also have to

fulfil requirements of clean rooms.

As a result of close collaboration and feedback from our customers, we are able to tailor our products to meet their specifications if required.



Stainless highlifter ensures an optimum working height.



Stainless electric highlifter ensures an ergonomically correct working height in special environments.



Hygienic transport with the stainless stacker.

Special environments – special requirements

Aggressive environments

In aggressive environments it is important that the material is corrosion-resistant and resistant to acids, salts and scratches. This requires a material with high chemical and mechanical resistance.

Strict hygiene requirements

In environments with strict hygiene requirements (EN 1672-1 and EN 1672-2), the hygiene zones are typically divided between low, medium and high level.

Explosive atmospheres

In explosive atmospheres it is important that the material conducts away static electricity and that it cannot be a source of ignition. At the same time the product has to fulfil the stipulations of the ATEX-directive.

Environments, sensitive to static electricity

Electro-Static Discharge is important to avoid surface tension and to optimise conductivity (IEC 61340-5-1 and IEC 61340-5-2).

Clean rooms

In clean rooms it is important that the products fulfil the requirements of the cleanliness of the air, meaning the contents of dust particles in the air.

ENVIRONMENTS WITH SPECIFIC REQUIREMENTS





EN 1.4404 steel is used for all fork chassis. For all other parts qualities EN 1.4305 & EN 1.4301 are used.



Trucks for explosive atmospheres have at least one anti-static wheel.



The acid-resistant fork chassis is electrically polished. This ensures the fine and shiny surface.

The requirements for the stainless products are various, and Logitrans offers both RF-PLUS and RF-SEMI products.

RF-PLUS products

The RF-PLUS products are manufactured in stainless steel, which is subsequently electrically polished. The electric polishing gives the steel a strong surface and ensures that the corrosion-related qualities of the steel are rebuilt after the welding process. At the same time it ensures that it is very easy to clean and very resistant to cleaning materials with chlorides.

RF-SEMI products

The RF-SEMI products are perfect for industries, which do not require RF-PLUS products. The hygiene demands on the parts, being in direct contact to e.g. the food, are here severe. These parts are made of stainless steel.

Where parts just have to resist moisture, corrosion-resistant steel is sufficient. Depending on the part in question, we use a polymer plastic coating (autoforese) or chromit treatment (Chromit 3).

Bearings and wheels

All the RF-PLUS trucks have stainless bearings in the wheels. The wheels of RF-SEMI trucks have rubber-sealed ball bearings. The trucks have as standard white nylon wheels, but can also be delivered with polyurethane and vulkollan wheels.

Oil

The stainless trucks must be able to operate in cold stores. Oil of the viscosity class ISO VG 15 is used, as it stays thin at cold temperatures.

All ball bearings and movable parts are lubricated with grease, approved for the food industry: NFS USDA class H1. The hydraulic oil is placed in a closed system.

We also offer tailor-made solutions. Please ask for further information or visit our website www.logitrans.com



In which environment do ye	ou want to use tl	he produc	t?		
Very aggressive, wet environments The product is wet due to liquid dissolutions (acid, base or brine) almost all the time. Cleaning Aggressive cleaning. Cleaning with foam (acid or base) (washing) PH in the cleaning material is much lower or much higher than 7.0	Examples of industries in Preparation processes in: Food and fish industries Slaughterhouses Dairies	n this environm	ent:		
Aggressive, wet environments The product is wet and moist most of the time. Cleaning Aggressive cleaning. Cleaning with foam (acid or base) (washing). PH in the cleaning material is much lower or much higher than 7.0	Examples of industries in Production processes in: Food industry Slaughterhouses Dairies	n this environm	ent:		RF-PLUS
Clean, moist environments The product is moist only occasionally. Cleaning Gentle cleaning when wiping or washing (only forks). Neutral water (PH7), when necessary with gentle cleaning materials.	Examples of industries in this environment: Pharmaceutical industry Food industry		RF-SEMI, HS/EHS RF-SEMI HL/EHL RF-SEMI	EHL RF-PLUS HL RF-PLUS	GL
Clean, dry environments The product is dry all the time. Cleaning Cleaning the products with dry or moist cloth.	Examples of industries in this environment: Pharmaceutical Packaging in the food industry	All Logitrans stainless products	GL RF-SEMI, H HL/EHL		
Environments	Examples industries	Logitrans	products mana	nging these env	vironments

LOGITRANS



Stainless stacker - hygienic handling of goods

Optimum hygiene - with the stainless-semi stacker the risk of bacterial contamination is minimised.

The stainless-semi products are developed for environments where severe hygiene is needed on the surfaces that are in direct contact with the goods being handled, e.g. meat, fish or medicine.

The design focuses on the safety and ergonomic working conditions of the user. As an example, the ergonomically correct handle ensures the user a relaxed hold.

High quality is ensured through an extended test programme and in cooperation with experts in Health and Safety.



HS / EHS STAINLESS-SEMI



Technical Specifications

Optimum safety for the user through

- central location of all control buttons on the handle
- transparent and impact-resistant safety screen on the mast
- location of parking brake

Strong construction ensures a long operating life and low maintenance costs.

Available with manual or electric lifting



The ergonomically correct handle ensures the user a relaxed hold.



Closed forks mean easy cleaning and few hiding places for bacteria.



EHS 1000 RF-SEMI has assisted wheel steering. Easy and hygienic operations.

Product (measured in mm)		HS 1000 RF-SEMI					EHS 1000	RF-SEMI						
Capacity in kg		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
Lifting height	h ₃	1200	1400	1600	2050	2450	1200	1400	1600	2050	2450	2850		
Fork length	1	1150					1150							
Overall height	h ₁	1530	1730	1930	1530	1730	1530	1730	1930	1530	1730	1930		
Overall width	b ₁	654 913				670				930				
Fork span	b ₅	560					560							
Length without forks	1 ₂	390						5	00					
Overall length by 1150 forks	I ₁	1650 1660				1715 1725								
Overall height	h ₄	Without telescopic mast			2490	2890	Without telescopic mast		2490	2890	3290			
Lowered height	h ₁₃	90				90								
Load centre	С	max. 600			max. 600									
Fork width	е	163				163								
Run-in length	۱ _x	1005				1005								
Gangway (pallet: 1200 x 800)	A _{st}	2020*				2200**								
Free lift		190			90	190								
Turning angle of the wheels		180°			180°									
Pump motor					1,1 kW 12 V									
Lifting speed		normal/quick 17/54 mm per pump				with/without load: 0,07 m/s								
Lowering speed irrespective of load		0,21 m/s				0,08 m/s								
Weight in kg (without battery)		193 197 201			255	264	218	222	226	283	292	302		

* Tests show that 1450 mm are enough.

** Tests show that 1530 mm are enough.



RF-SEMI - for the food industry and other environments with strict hygiene demands.



Please ask for specification details or visit our website www.logitrans.com We also offer tailor-made solutions.





Stainless highlifter - hygiene at working height

Focus on optimum hygiene - the stainless highlifters are developed for the use in environments with high hygiene demands. This is done in close cooperation with customers in industries where the trucks are exposed to an aggressive environment and thorough cleaning. With a stainless highlifter the risk of bacterial contamination is minimised.

High flexibility and efficiency - one product can transport and lift a pallet to the right working height.

The design prevents industrial injuries and strain on the user - focus is put on safety and ergonomics.

High quality is ensured through an extended test programme and in cooperation with experts in Health and Safety.

6.0

HL / EHL RF-PLUS / RF-SEMI



Technical Specifications

Loads of 1,500 kg can be transported and lifted up to 470 mm with the highlifter. From 470 mm the lifting capacity is 1,000 kg.

Easy to clean and optimum resistance • acid-resistant and electric polished fork chassis (AISI 316L)

HL RF-PLUS: Stainless handle, legs and pump piston.

EHL RF-PLUS: IP54, stainless battery cover, legs, handle and cylinder housing.

HL RF-SEMI: Stainless handle, pump piston, axles and wheel holder. All other parts have a polymer plastic coating or are chromit-treated.

EHL RF-SEMI: Stainless handle, axles and wheel holder. All other parts have a polymer plastic coating or are chromittreated. Battery indicator extra painted.



RF-PLUS - for the food industry and the pharmaceutical industry with severe demands for hygiene and cleaning.



RF-SEMI - for the food industry in areas, where hygiene demands are not so high, but corrosion resistance important.



ing feet at steering wheel, foot

all control buttons on the handle

Closed forks mean easy cleaning and few hiding places for protection and central location of bacteria.



The manual highlifter is also available in an explosion proof version.

Product (measured in mm)		HL 1004RF-PLUS HL 1004RF-SEMI	EHL 1004RF-PLUS EHL 1004RF-SEMI
Capacity in kg		1500*	1500*
Lifting height	h ₃	800	800
Fork length	Ι	1200	1200
Overall height	h ₁	540	540
Fork span	b ₅	540, 680	540, 680
Length without forks	I ₂	340	445
Overall length	4	1580	1645
Overall height with handle	h ₄	1220	1240
Lowered height	h ₁₃	90	90
Fork width	е	163	163
Turning angle of the wheels		210°	180°
Gangway	A _{st}	1830 (pallet: 1200 x 800)	1890 (pallet: 1200 x 800)
Lifting speed with/without load			0,05/0,08 m/s
Lowering speed normal/quick		10/35 mm per pump	
Lowering speed		Without load 0,093 m/s	With/without load: 0,07/0,05 m/s
Pump motor			1,2 kW 12 V
Weight with 1140 mm forks (without ba	ttery)	125 kg	132 kg

* The capacity changes from 1500 to 1000 kg at the lifting height 470 mm.









Ergonomic handle ensures the user a relaxed hold

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available as optional extra (EHL).





Stainless Logitilt - when lifting and tilting hygienically

Optimum hygiene - with the stainless-semi Logitilt the risk of bacterial contamination is minimised.

The stainless-semi products are developed for environments where severe hygiene is needed on the surfaces that are in direct contact with the goods being handled, e.g. meat, fish or medicine.

The design focuses on the safety and ergonomic working conditions of the user - the Logitilt can tilt boxes and crates up to 90°. The user does not have to bend down or stretch up to reach the components in the bottom of the crate or box - this applies to both standing and sitting work positions.

The ergonomically correct handle of the Logitilt ensures the user a relaxed hold.

High quality is ensured through an extended test programme and in cooperation with experts in Health and Safety.



LOGITILT LT-TE STAINLESS-SEMI



Technical Specifications

The Logitilt can carry, lift and tilt crates and boxes up to 90° , and the working height can be varied.

The handle can be turned to the side and locked, so that the user has free access to the contents of the crate or box.

Easy to clean and optimum resistance

- acid-resistant and electric polished fork chassis
- strong surface
- corrosion resistant

Long operating life and low maintenance costs

- strong construction
- AISI316L steel used on the fork chassis



For the food industry in which hygiene and ergonomically correct working positions are important factors.



Foot protectors, parking brake, safety valve and emergency stop offer the operator optimum safety.







Closed forks mean easy cleaning and few hiding places for bacteria.



The handle can be turned to the side and locked, so that the user has free access to the contents of the crate or box.

Product (measured in mm)		LT 1000TE RF-SEMI
Capacity in kg		1000
Height, tilted	ht	750-950
Lifting height	h ₃	275
Fork length	I	800
Overall height with handle	h ₁₄	1090
Overall height	h ₁	680
Overall width	b ₁	780
Fork span	b ₅	560
Fork width	е	163
Overall length by 800 mm forks	I ₁	1410
Length without forks	I2	590
Run-in length	I _x	665
Overall height	h ₄	h _t + I
Lowered height	h ₁₃	85
Load centre	c ₁	max. I/2
Load centre	c ₂	min. 200 - max. 420
Pump motor		0,8 KW 12V
Lifting speed lift/tilt		4 s/14 s
Lowering speed lift/tilt		3 s/11 s
Weight by 800 mm forks (without batte	ry)	176 kg



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Stainless pallet truck - hygienic pallet transport

Optimum hygiene - with a stainless pallet truck the risk of bacterial contamination is minimised. The stainless products were developed in cooperation with a Creamery for use in environments where the hygiene demands are severe and where the truck is exposed to an aggressive environment and thorough cleaning.

The design prevents industrial injuries and strain on the user - focus is put on safety and ergonomic working conditions of the user. The ergonomically correct shape of the handle ensures a relaxed hold for the user.

High quality is ensured through an extended test programme and in cooperation with experts in Health and Safety.







GL STAINLESS-PLUS / -SEMI



Technical Specifications

The stainless pallet truck is available in a stainless-plus and a stainless-semi version

- RF-PLUS: Acid-resistant fork chassis. All other parts stainless steel
- RF-SEMI: Acid-resistant fork chassis. Stainless handle, wheel forks, lifting arm and thrust plate. The push rod has a polymer plastic coating and the pump is chromit-treated.

Easy to clean and optimum resistance

- acid-resistant and electric polished
- fork chassis
- strong surface
- corrosion resistant

Long operating life and low maintenance costs

- strong construction
- AISI316L steel used on the fork chassis



 $\mathsf{RF}\text{-}\mathsf{PLUS}$ - for the food industry and the pharmaceutical industry with strict hygiene and sanitation requirements.



RF-SEMI - for the food industry in areas, where hygiene demands are not so high, but corrosion resistance important.



efficient cleaning.



Closed forks mean easy cleaning and few hiding places for bacteria.



The pallet truck is also available in an explosion proof version.

Product (measured in mm)		GL 2081RF-PLUS	GL 2081RF-SEMI	
Capacity in kg		2000	2000	
Lifting height	h ₃	200	200	
Fork length	I	810, 970, 1140, 1220	810, 970, 1140, 1220, 1520	
Overall height	h ₁	530	530	
Fork span	b ₅	520, 680	520, 680	
Length without forks	I2	340	340	
Overall length	4	1480	1480	
Fork width	е	160	160	
Wheelbase	у	1170	1170	
Overall height	h ₁₄	1220	1220	
Lowered height	h ₁₃	85	85	
Load centre	с	1/2	1/2	
Ground clearance	m ₂	38	38	
Turning angle of the wheels		230°	230°	
Fork wheels - single		Ø80 x 90	Ø80 x 90	
Fork wheels - tandem		Ø80 x 70	Ø80 x 70	
Steering wheel		Ø200 x 50	Ø200 x 50	
Weight		68 kg (520 x 1140)		











Wheels with rubber-sealed bearings.

user a relaxed hold. in the pharmaceutical industry

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