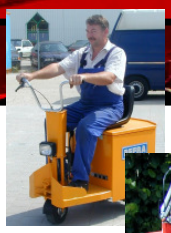
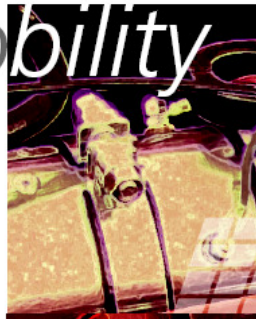
PEFRA®
Elektrofahrzeuge
Anhänger

creating mobility





model 507/ micro

model 507/Micro

EFZ model 507/ Micro
The electrically powered vehicle Model 507 offers latest technology and, with its classic design, represents a very competitive product. The 507 is a product with unmatched standards of quality and safety. With its rigidity and reliability the Micro is often used in the automotive industry, at airport, factories or hospitals. A variety of additional equipment and special editions allows the 507 Micro to be customized to specific working conditions and any operator requirements.

Chassis
The chassis is manufactured using state-of-the-art welding practices and guarantees a very high level of rigidity. The drive unit is well protected in the chassis. The vehicle's powder coating is of the highest quality. Full corrosion protection is available as an option.

Engine
The maintenance-free AC motor with a nominal capacity of 1,0 kW is directly flanged at the differential gear and drives the rear axle. This gives the vehicle liveliness and swift acceleration under all operating conditions.

Electrical equipment
The EFZ 507/micro is equipped with the latest three-phase AC drive technology and a four-quadrant motor controller, which provides an infinitely adjustable engine speed.
A further advantage of the modern electronic control is its long-life cycle.

Battery
The EFZ 507/micro is equipped with a 24 V battery, which is exceptionally robust and easy to maintain.
The battery can be accessed by folding up the driver's seat. This makes maintenance extraordinarily easy.

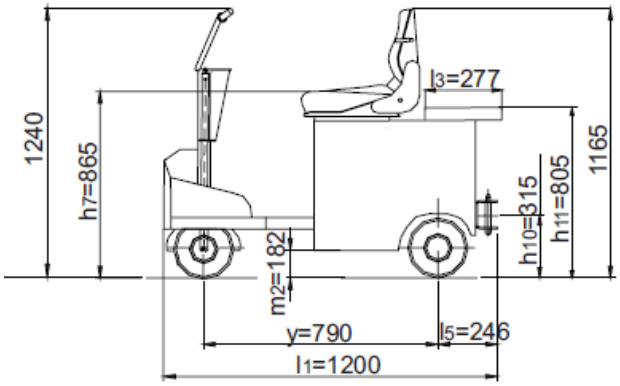
Brake
The very effective, mechanical drum brake acts on the front wheel. The independent spring-storage parking brake is automatically actuated when the accelerator pedal is at the zero position. The motor brake is activated as soon as the driver takes his foot off the accelerator. The drive motor then generates current which is used to charge the battery.

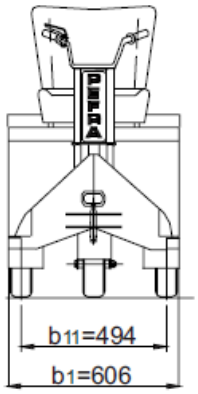
Lighting equipment
As an option, the vehicle can be equipped with full lighting according to the road traffic regulations.
Proprietary lighting for special purposes (e.g. all-around lighting) is also possible.

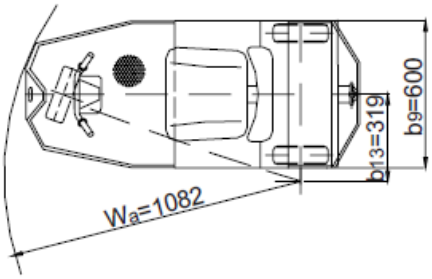
Steering
A key characteristic of the 507 is its extremely high agility, achieved through a large steering angle and advanced steering geometry.

Trailer hitch
Standard equipment for the electric tractor model 507/Micro includes a two-stage trailer hitch with Safety-pin in the rear. (The pin diameter is 25 mm.) Additionally there is a one-stage-towing hitch at the front of the vehicle.

Drivers seat
The seating position is ergonomically optimised. The driver seat has a padded backrest and provides a convenient working-environment. A high level of operational safety is achieved through an unrestricted field of vision.





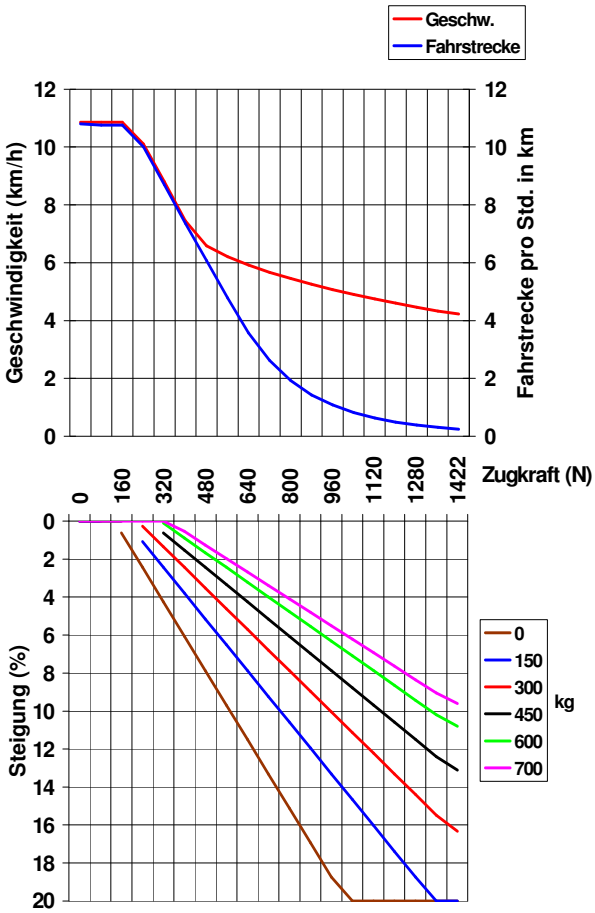


Model 507

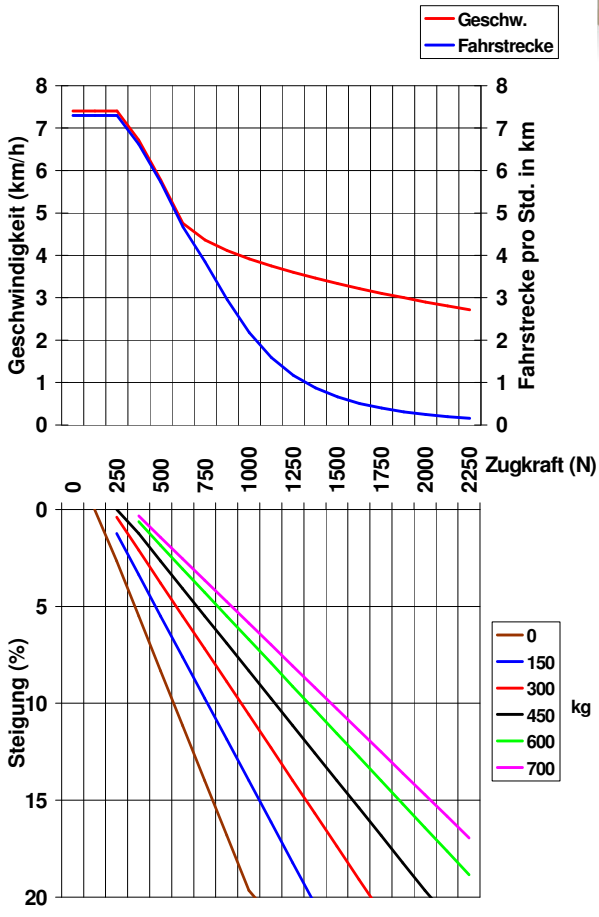
Payload:	30 kg
Towed load: (in the flat)	700 kg
Dimensions of battery-case:	430 x 420 x 330 mm

Technical data of the EFZ 507/Micro

EFZ 507 (i=1:15)



EFZ 507 (i=1:22)



For towed loads in excess of 500 kg (in the plane) the use of braked trailers or electronic speed-regulation to admissible limits is recommended. Reduce load by 30 kg for every 1% of inclination! (Braking distance = max. one third of current speed in km/h at greatest inclination. - Please perform braking test!)

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Electric – Tractor Model 507/Micro

Juli 09	***Typenblatt für Flurförderzeuge*** **Schlepper Mod. 507** **EFZ**	*VDI 2198*
Stand: Monat / Jahr	Benennung / description - nach VDI 3586 - Kurzzeichen / short symbol	Registriervermerk / registrable comment

Herstellerangaben und Ausführungsmerkmale / manufacturers specifications

Kennzeichen / characteristics	1.1	Hersteller (Kurzbezeichnung)	manufacturer		PEFRA AG	
	1.2	Typenzeichen des Herstellers	type identifier		507/Micro	
	1.3	Antrieb Elektro, Diesel, Benzin, Treibgas, Netzelektro	propulsion electric, Diesel, petrol, gas, mains		Elektro / electric	
	1.4	Bedienung Hand, Geh, Stand, Sitz	operation hand, seated, standing		Sitz / seat	
	1.5	Tragfähigkeit/Last	payload	Kg	30	
	1.7	Nennzugkraft	nominal tractive power	F (N)	140	
	1.9	Radstand	wheel base	y (mm)	790	
Gewichte / weights	2.1	Eigengewicht (inklusive Batterie)	deadweight (incl. battery)	kg	370	
	2.2	Achslast mit Last vorne/hinten	axle load front/rear loaded	kg	128 / 332	
	2.3	Achslast ohne Last vorne/hinten	axle load front/rear unloaded	kg	100 / 270	
		Anhängelast	towed load	kg	700	
Räder, Fahrwerk / wheels, chassis	3.1	Bereifung; Vollgummi, Superelastik, Luft, Polyurethan	tyres; solid rubber, super-elastic, pneumatic, polyurethane		Superelastik / super-elastic	
	3.2	Reifengröße, vorn	tyre size front		3.00-4	
	3.3	Reifengröße, hinten	tyre size rear		3.00-4	
	3.5	Räder, Anzahl vorn/hinten (x = angetrieben)	number of tyres front/rear (x = driven)		1 / 2 X	
	3.6	Spurweite, vorne	wheel track front	b_{10} (mm)	-	
	3.7	Spurweite, hinten	wheel track rear	b_{11} (mm)	494	
Grundabmessungen / basic dimensions	4.7	Höhe über Schutzdach (Kabine)	height over cabin	h_6 (mm)	-	
	4.8	Sitzhöhe/Standhöhe	height over seat	h_7 (mm)	865	
	4.9	Höhe ohne Kabine	height without cabin	mm	1240	
	4.12	Kupplungshöhe	height of pin coupling	h_{10} (mm)	315	
	4.13	Ladehöhe ohne Last	loading height (unloaded)	h_{11} (mm)	805	
	4.16	Ladeflächenlänge	length of loading bed	l_3 (mm)	277	
	4.17	Überhanglänge	excess length	l_5 (mm)	246	
	4.18	Ladeflächenbreite	width of loading bed	b_9 (mm)	600	
	4.19	Gesamtlänge	length over all	l_1 (mm)	1200	
	4.21	Gesamtbreite	width over all	b_1/b_2 (mm)	606	
	4.32	Bodenfreiheit Mitte Radstand	ground clearance	m_2 (mm)	182	
	4.35	Wenderadius	turn radius	w_a (mm)	1082	
	4.36	Kleinster Drehpunktabstand	smallest distance to pivotal point	b_{13} (mm)	319	
Leistungsdaten / power data	5.1	Fahrgeschwindigkeit mit/ohne Last	max. speed loaded/unloaded	Km/h	9 / 11	7 / 7
	5.5	Zugkraft mit/ohne Last (1 Std.)	towing power loaded/unloaded (1 h)	N	170 /310	360 / 500
	5.6	Max. Zugkraft mit/ohne Last (5 min.)	max. traction force loaded/unloaded (5 min.)	N	1940 / 2080	3000/3140
	5.7	Steigfähigkeit mit/ohne Last (30 min.)	climbing ability loaded/unloaded (30 min.)	%	3 / 9	5 / 14
	5.8	Max. Steigfähigkeit mit/ohne Last (5 min.)	max. hill-climbability loaded/unloaded (5 min.)	%	10 / 20	15 / 20
		Getriebe	transmission rate	i	1:15	1:22
	5.10	Betriebsbremse	brake		elektrisch & mechanisch / electrical & mechanical	
E-Motor / engine	6.1	Fahrmotor, Leistung s_2 60 min	Engine power s_2 60 min	kW	1,0	
	6.3	Batterie nach DIN 43531/35/36 A, B, C, nein	battery type after DIN 43531/35/36 A,B,C, no			
	6.4	Batteriespannung, Nennkapazität K_5	voltage, capacity K_5	V/Ah	24 / 180	
	6.5	Batteriegewicht	battery weight	kg	164	
	6.6	Energieverbrauch nach VDI – Zyklus	energy consumption after VDI-cycle	kWh/h	-	
Sonstiges / others	8.1	Art der Fahrsteuerung	type of motor controller		AC - Inverter	
		Batterietrogmaße	dimensions of battery-case	mm	430 x 420 x 330	
		Fahrleistung (pro Batt. u. 50% Last)	traction power (per batt. and 50% load)	km	25	
	8.4	Schallpegel, Fahrerohr	sound pressure level	dB (A)		
	8.5	Anhängekupplung, Art/Typ DIN	pin coupling	∅ 25	Steckbolzenkupplung / pin coupling	

We offer a variety of additional equipment in order to solve your transporting tasks

Additional equipment to our EFZ model 507/Micro

Electrical equipment:

- Light equipment A (1 headlight and 2 reflectors)
- Light equipment B (1 headlight, 2 reflectors, tail- and flashing lights)
- Light equipment according to the Road Traffic Licencing Regulations (StVZO)
- All around light
- Combidisplay with service hour meter, battery status indicator and deep-discharge protection
- Internal battery-charger with helix cable combined with electrical immobiliser

Tyre equipment:

- Air-tyres 3.00-4 / foam-filled
- Flat-proof super elastic tyres 3.00-4
- Flat-proof super elastic tyres 3.00-4 light-coloured and non-tracking

Superstructural- and attachment parts:

- Rear-view mirrors left and right (fastened to the handlebars)
- Automatic trailer hitch according to the Road Traffic Licencing Regulations (StVZO)

Others:

- Special varnish
- UVV inspection booklet
- Technical Inspection Agency (TÜV) inspection with registration document

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