



6.4.1 HOOK LIFT TRAILER PH trailer



Hook lift trailer thanks to its design of a single axle chassis and a very functional construction is an universal vehicle for works on forest areas (or other closed areas, e.g. agricultural areas). The trailer has been designed particularly for technological containers suitable for being transported on means of transport equipped with a hook lift, e.g. containers for bulk materials, wood chips, seedlings, etc.)

The PH trailer has been designed to work with tractors equipped with:

- a pick up hitch (for 1-axle trailers)
- hydraulic connectors – for powering the hook lift system
- a pneumatic connector – for brakes
- an electric socket – for trailer's lighting.

PH trailer can also be used for transportation and emptying of trash containers or pickup of short wood 1,0 – 2,0 m from the harvesting area on forest areas and its transportation in specially designed stake containers to wood landings. Loading and reloading of wood is done by an external loading device (hydraulic crane with a timber grapple).

A single-axle chassis improves the handling capabilities of the set tractor – trailer, and the low pressure reinforced tires together with bogie suspension guarantee a stable ride off- and on-road. Due to a lateral stability towing the trailer should be performed only on flat terrain or slopes up to 20% angle.

TECHNICAL PARAMETERS

Parameter	Unit	PH-12	PH-10	PH-8
Payload	kg	12 000	10 000	8 000
Maximum gross weight (with cargo and full equipment)	kg	16 540	14 270	11 650
Trailer's curb weight (only chassis)	kg	3 240	2 970	2 350
Trailer's curb weight (with a container 1300 kg)	kg	4 540	4 270	3 650
Required minimum hitch load capacity	kN			
- chassis only		793	727	575
- empty chassis (container)		1218	1151	787
- fully loaded trailer		2966	2573	2095
Chassis dimensions:	mm			
length		6000	6000	6000
width		2466	2466	2466
height: without container		2315	2315	2315
Tyres		500/60-22,5 or 520/50-17	500/60-22,5 or 520/50-17 or 500/50-17	520/50-17 or 500/50-17
Tire pressure	MPa	0,36±0,24	0,36±0,24	0,36±0,24
Number of wheels	pcs	4	4	4
Chassis		Bogie		
Wheelbase	mm	1240		
Brake		Pneumatic single or double line		
Electric system	V	12		
Maximum transport speed	km/h	30		
Recommended tractor:				
- force on hitch	kN	3000	3000	2100
- power	kW	130	130	90
Hydraulic pressure required	MPa	min 16		
Oil in hydraulic system		HIPOL 6		



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6.4.1

The hydraulic system assembled on the trailer is powered from the hydraulic system of a tractor and allows for loading and unloading of special technological containers in any place independently from external devices. The loading/unloading area's slope should not exceed an angle of 5°.

Applies to Polish regulations:

Przyczepy PH są „urządzeniami transportu bliskiego” w rozumieniu Rozporządzenia R.M. z dnia 7 grudnia 2012r. w sprawie rodzajów urządzeń technicznych podlegających dozorowi technicznemu, stąd przy ich eksploatacji obowiązują przepisy Ustawy z dnia 21 grudnia 2000r. o dozorze technicznym (Dz.U. nr 122, poz. 1321 z późn. zm.).