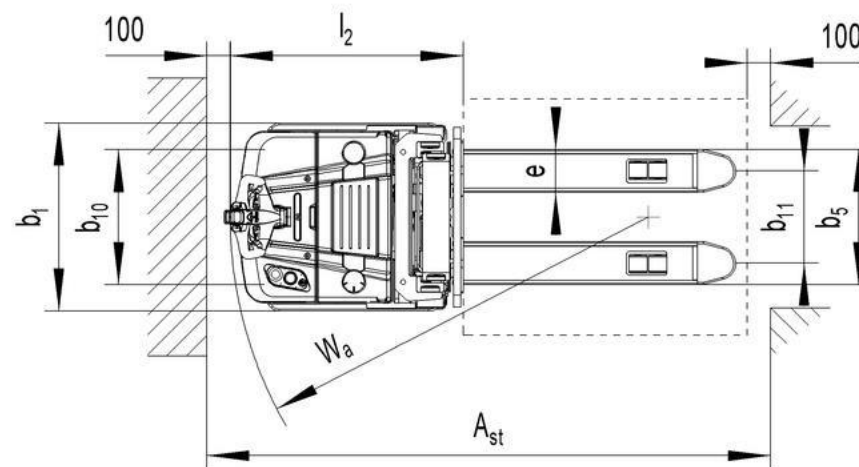
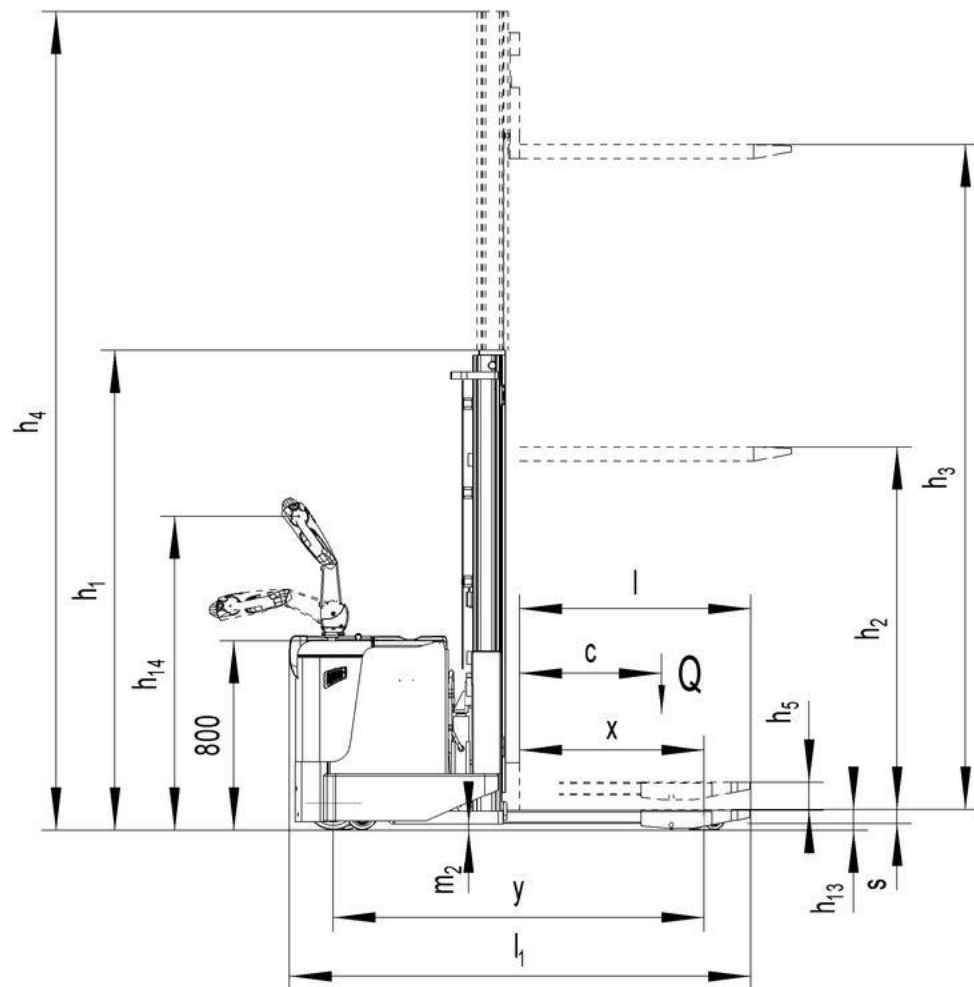


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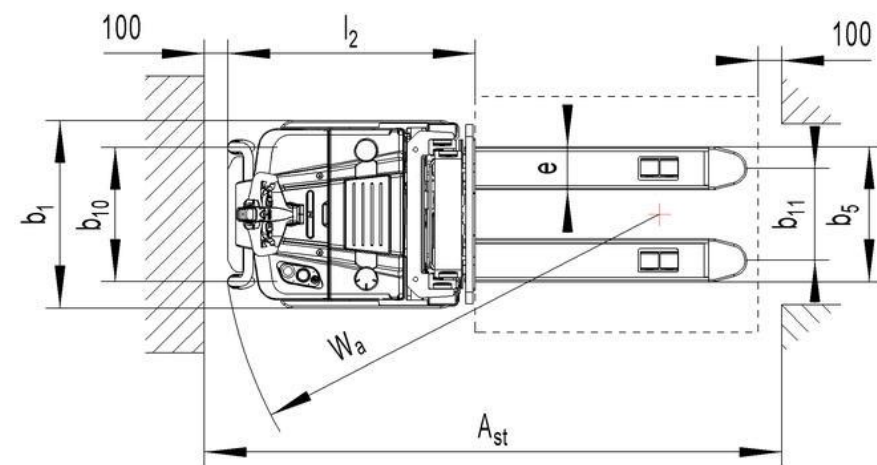
PS 20D

without foldable platform



Technical diagram of a robotic arm system. The diagram shows a side view of the arm and its base. Key dimensions and labels include:

- h_1 : Total height of the system.
- h_4 : Height from the base to the top of the arm.
- h_2 : Height from the base to the end effector.
- h_3 : Height from the base to the end effector (labeled on the right).
- h_5 : Height from the base to the end effector (labeled on the right).
- h_{14} : Height from the base to the end effector (labeled on the left).
- 800 : A specific height dimension.
- l_1 : Total length of the system.
- l : Length of the arm.
- c : Distance from the base to the end effector.
- x : Horizontal distance from the base to the end effector.
- Q : A force or weight acting on the end effector.
- m_2 : Mass of the end effector.
- y : Horizontal distance from the base to the end effector.
- h_{13} : Height from the base to the end effector (labeled on the right).
- s : A small distance dimension.



	3.6	Tread, front	b ₁₀ (mm)	570						
	3.7	Tread, rear	b ₁₁ (mm)	395/505						
Dimensions	4.2	Lowered mast height	h ₁ (mm)	1927	2027	2027	2177	2377	2377	2577
	4.3	Free lift height	h ₂ (mm)	1380	150	1480	150	150	1830	150
	4.4	Lift	h ₃ (mm)	2615	2815	2815	3115	3515	3515	3915
	4.5	Extended mast height	h ₄ (mm)	3247	3447	3447	3747	4147	4147	4547
	4.6	Initial lift	h ₅ (mm)	120						
	4.9	Height of tiller in drive position min./ max.	h ₁₄ (mm)	1370/945						
	4.15	Lowered mast height	h ₁₃ (mm)	88						
	4.19	Overall length	l ₁ (mm)	2055						
	4.20	Length to face of forks	l ₂ (mm)	905 ²⁾						
	4.21	Overall width	b ₁ (mm)	795						
	4.22	Fork dimensions	s/e/l(mm)	60/180/1150						
	4.25	Distance between fork- arms	b ₅ (mm)	575/685						
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	28						
	4.33	Aisle width for pallets 1000X1200 lengthways	A _{st} (mm)	2523						
	4.34	Aisle width for pallets 800X1200 lengthways	A _{st} (mm)	2468						
	4.35	Turning radius	W _a (mm)	1680						
Performance data	5.1	Travel speed, laden/unladen	km/h	5.2/5.5						
	5.2	Lift speed, laden/ unladen	m/s	0.08/0.15			0.15/0.22			

	5.3	Lowering speed, laden/ unladen	m/s	0.16/0.12	
	5.8	Max. gradeability performance, laden/ unladen	%	6/12	
	5.10	Service brake		Electromagnetic	
Electric- engine	6.1	Drive motor power	kw	1.3	
	6.2	Lift motor power	kw	2.2	3.0
	6.3	Battery, DIN 43531/35/36 A, B, C, no		B, 2PzS	
	6.4	Battery voltage, nominal capacity K5	V/Ah	24/210	
	6.5	Battery weight	kg	217	
	6.6	Energy consumption acc. to VDI cycle	kWh/h	2.5	
Additional data	8.1	Type of drive control		AC- speed control	
	8.4	Sound level at driver's ear according to EN 12053	dB(A)	69	

- 1) when operate the fork and pallet at the same time: Load Capacity / rated load (mast lift) is 1 t, Load Capacity / rated load (support arm lift) is 1 t.
- 2) with foldable platform the following dimensions increase: l1, l2 = +80mm / Wa = +70mm / AST =+70mm