PS12N + PS16/20N DA



Electric stand-up rider stacker 1200, 1600 and 2000 kg maximum load capacity

DESCRIPTION

The new PS NDA short-tiller pallet trucks series results from many years of experience in material handling.





German AC traction motor

The powerful AC motor unit, designed and manufactured by Schabmüller, is paired with a high-end ZF drive unit and Intorqe electromagnetic brakes. The motor unit allows up to 8 km/h traction speed.

Rader Vogel or Wicke high-end steering wheels guarantee an extended service life of the wheels.



Standard power steering system on PS16N et PS20N

The electric power steering (EPS) allows precise and fast control of the steering wheel and ensures high efficiency and optimal safety.



Efficient electronic controllers

The driving and steering controllers are manufactured by Zapi (Italy). The leading European brand with a long history in the industry offers highly reliable and flexible solutions and a high level of control system performance.



Flip-down platform

The integrated flip-down platform, the lateral protection arms, and the brand new internal structure provide the smallest overall length and tightest turning radius. Moreover, the suspension system of the platform offers excellent comfort to operators.



Robust and reliable design

The robust chassis and its 8 mm thick mainframe protect the stacker and the components against impact collisions. In addition, the stainless steel battery cover provides enhanced protection.



Side battery extraction

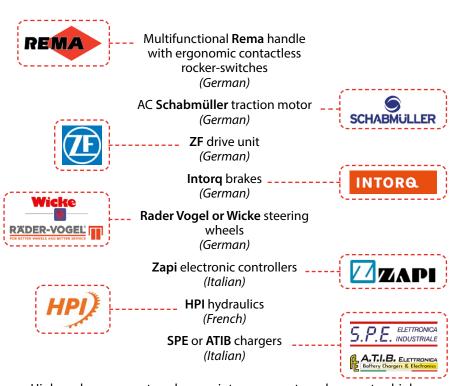
The battery side access is convenient for multi-shift operations. Besides, side battery extraction ensures a time-saving, quick, and easy battery replacement with an appropriate trolley.



Ergonomic handle

Rema's ergonomic handle ensures superior ergonomics and a reliable control system. It is coupled to an electric power steering system.

HIGH-END COMPONENTS



High-end components reduce maintenance costs and guarantee high performance and reliability when performing the most intense operations.



Automatic filling system

The stacker can be equipped with a centralized battery filling system in option.



Secure access control

Standard PIN-code or RFID card access control system, available in option, considerably simplifies the access control process if more than one user uses the equipment.

In addition, the built-in charger option eases battery charging for light industrial use (except in the case of multi-shift operations where battery replacement is needed).



Electric proportional lift/lower

The proportional lift and lower system have been designed from solutions suggested by HPI, the leader in hydraulic systems manufacturing. It guarantees precision when raising or lowering the forks, plus a smooth acceleration or deceleration when handling fragile loads.

Stockman Reference	Mast	Mast lowered height h1 (mm)	Free lift h2 (mm)	Standard lift h3 (mm)	Mast raised height h4 (mm)	Weight (kg)		
PS12N								
PS12N29FFLCP	Duplex FFL	1958	1410	2830	3380	1010		
PS12N32FFLCP		2108	1560	3130	3680	1040		
PS12N36FFLCP		2308	1760	3530	4080	1080		
PS16N DA								
PS16N29FFLDACP		1958	1410	2830	3380	1160		
PS16N32FFLDACP	Duplex FFL	2108	1560	3130	3680	1190		
PS16N36FFLDACP		2308	1760	3530	4080	1220		
PS16N40FFLDACP	Triplex FFL	1908	1320	3920	4480	1270		
PS16N43FFLDACP		2008	1420	4230	4780	1300		
PS16N46FFLDACP		2108	1520	4530	5080	1330		
PS16N53FFLDACP		2343	1756	5230	5780	1370		
PS16N55FFLDACP		2410	1800	5430	6110	1380		
PS20N DA								
PS20N27FFLDACP	Duplex FFL	1978	1310	2630	3300	1360		
PS20N29FFLDACP		2078	1410	2830	3500	1390		
PS20N32FFLDACP		2228	1560	3130	3800	1420		
PS20N36FFLDACP		2428	1760	3530	4200	1450		
PS20N40FFLDACP		1978	1310	3930	4600	1580		
PS20N43FFLDACP	Triplex FFL	2128	1420	4230	4900	1610		
PS20N46FFLDACP		2228	1520	4530	5200	1620		

Technical da	ta ac	cording to VDI 2198 regulation				
	1.2	Product Reference ◆ Model		PS12N FFLCP	PS16N FFL DA CP	PS20N FFLDACP
	1.3	Power supply		battery	battery	battery
Specifications	1.4	Operator type			pedestrian	
	1.5	Load capacity	Q(t)	1,2	1,6	2
	1.6	Load center distance	c(mm)	600	600	600
	1.8	Distance from carriage to caster axle	x(mm)	647	647	647
	1.9	Wheelbase	y(mm)	1167	1215	1327
	2.1	Weight (batteries included)	kg	see	e table oppos	site
Weight	2.2	Axle load laden front/rear	kg	860/1420	1040/1940	1210/2410
	2.3	Axle load unladen front/rear	kg	780/320	940/440	1090/540
	3.1	Wheels		ро	lyurethane (F	PU)
	3.2	Steering wheel dimensions	Øxw(mm)	Ø230×70	Ø230x70	Ø230×70
	3.3	Load rollers dimensions	Øxw(mm)	Ø85x75	Ø85×75	Ø85x75
Wheels	3.4	Stabilizing rollers dimensions	Øxw(mm)	Ø150x54	Ø150 x 54	Ø150×54
	3.5	Number of front/rear wheels (x = driving wheel)		1x+1/4	1x+1/4	1x+1/4
	3.6	Front axle wheelbase	b10 (mm)	510	510	510
	3.7	Load roller wheelbase	b11 (mm)	390/505	390/505	390/505
	4.2	Mast lowered height	h1 (mm)	see	e table oppos	site
	4.3	Free lift	h2(mm)	see	e table oppos	site
	4.4	Standard lift	h3(mm)	see	e table oppos	site
	4.5	Mast raised height	h4 (mm)	see	e table oppos	site
	4.9	Tiller height in drive position min/max	h14 (mm)	950/1350	950/1350	950/1350
	4.15	Fork lowered height	h13 (mm)	90	90	90
	4.19	Overall length	11 (mm)	1855	1896	2025
Dimensions	4.20	Front axle to fork face length	12 (mm)	705	746	875
	4.21	Overall width	b1 (mm)	790	790	790
	4.22	Fork dimensions	s/e/I(mm)	60/180/1150	60/180/1150	60/180/1150
	4.25	Width across forks	b5 (mm)	570/685	570/685	570/685
	4.32	Ground clearance	m2(mm)	28	28	23
	4.33	Aisle width for 1000 x 1200 mm pallets crossways	Ast (mm)	2285	2325	2455
	4.34	Aisle width for 800 x 1200 mm pallets lengthways	Ast (mm)	2250	2290	2420
	4.35	Turning radius	Wa (mm)	1380	1420	1550
	5.1	Travel speed, laden/unladen	km/h	7/8	6/7	6/7
	5.2	Lift speed, laden/unladen	m/s	90/140	130/200	130/200
Performances	5.3	Lowering speed, laden/unladen	m/s	200/250	230/280	230/280
	5.8	Gradeability laden/unladen	%	6/12	6/12	6/10
	5.10	Service brake			ectromagnet	
	6.1	Drive motor rating S2 60 min	kW	1,4	1,4	1,4
	6.2	Lift motor rating at S3 15%	kW	1,5	3,2	3,2
Electrical system	6.3	Battery acc. to DIN 43531 / 35 / 36 A, B, C, No	,	2VBS	3VBS	3 PzS
	6.4	Battery voltage, nominal capacity K5	V/Ah	24/180	24/270	24/350
	6.5	Battery weight	kg	170 to 175	230 to 235	290
	6.6	Energy consumption acc. to VDI cycle	kWh/h	0,95	1,59	1,7
Additional	8.1	Type of drive control			- speed cont	
data	8.4	Noise level at driver's ear acc. to EN12053	dB(A)	<70	<70	<70

RESIDUAL CAPACITY

SX • Single

DX • Duplex

TX ◆ Triplex

SL • Straddle legs

FFL • Full free lift

LI • Initial lift

LP ◆ Proportional lift

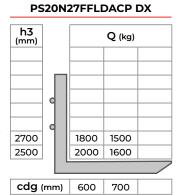
DA • Electrical power steering

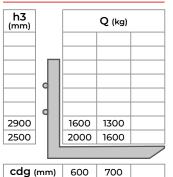
SC • Built-in weighing scale

CP ◆ Pin code

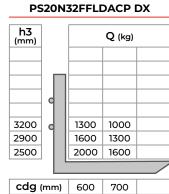
PS20N DA ◆ PP. 128 TO 131

PS20N27FFLDACP DX PS20N29FFLDACP DX PS20N32FFLDACP DX PS20N36FFLDACP DX PS20N40FFLDACPTX PS20N43FFLDACPTX PS20N46FFLDACPTX



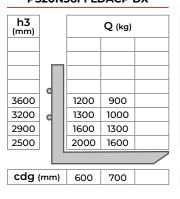


PS20N29FFLDACP DX

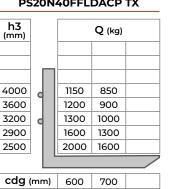




PS20N36FFLDACP DX



PS20N40FFLDACP TX



PS20N43FFLDACP TX

F32011-311 LDACF IX							
h3 (mm)			Q (kg)				
4300		1100	800				
3600		1200	900				
3200	d	1300	1000				
2900		1600	1300				
2500		2000	1600				
cdg (mm)		600	700				

PS20N46FFLDACP TX

