

# ASR Series

## Stand-In Stackers

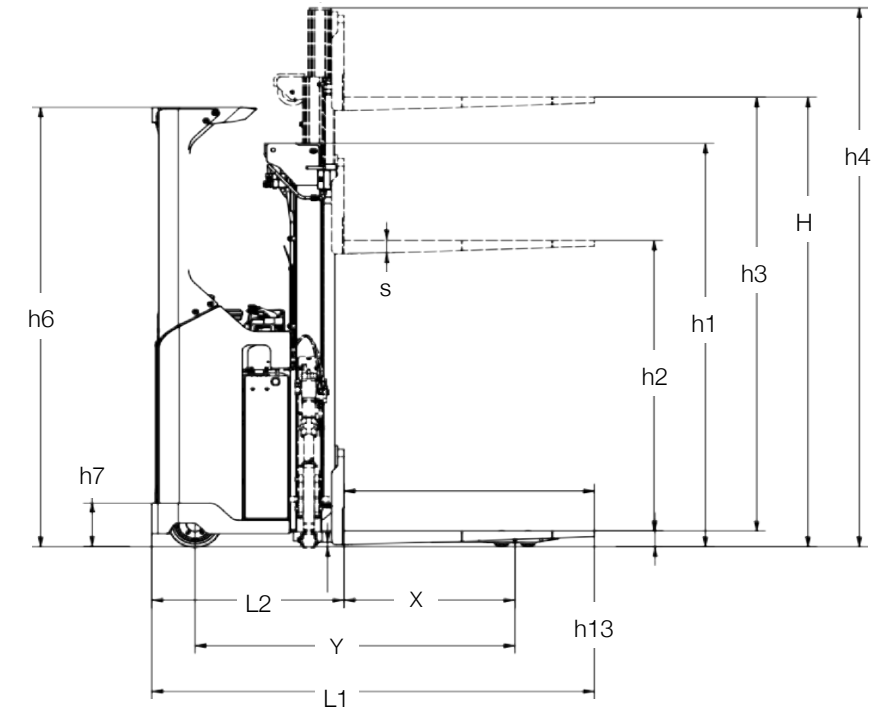
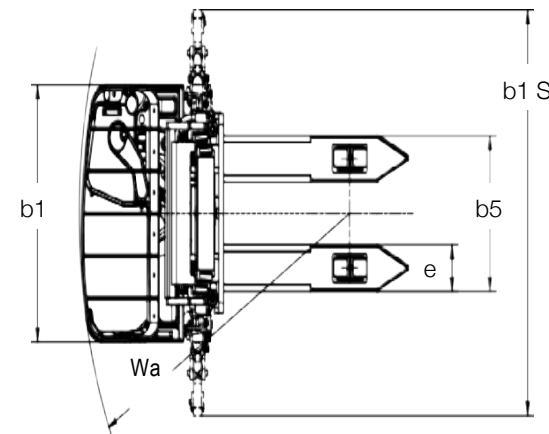
24 Volt AC-Powered  
1.2 - 2.0 t Capacities



**UNICARRIERS**<sup>®</sup>  
□ FORKLIFT □

		Counterbalance trucks Designation according VDI 3586 Manufacturers Data and Design Characteristics	Data sheet for materials handling equipment				
CHARACTERISTICS	1.1	Manufacturer (abbreviation)	UniCarriers				
	1.2	Manufacturer's model designation	ASR125	ASR160	ASR160I	ASR200	
	1.3	Power source: Battery, Diesel, LPG, Petrol	Battery				
	1.4	Operator type: pedestrian, (operator)-standing, -seated	Stand-in	Stand-in	Stand-in	Stand-in	
	1.5	Load capacity	Q (kg/lbs.)	1250 (2756)	1600 (3527)	1600 (3527)	2000 (4409)
	1.6	Load center distance	c (mm / in.)	600 (23.6)	600 (23.6)	600 (23.6)	600 (23.6)
	1.8	Load wheel axle to fork face (forks lowered)	x (mm in.)	800 (31.5)	800 (31.5)	800 (31.5)	800 (31.5)
	1.9	Wheel base	y (mm / in.)	1422* (56.0*)	1496* (59.0*)	1541* (60.7*)	1545* (60.8*)
	WEIGHTS	WEIG	Truck weight with load, with maximum battery weight	kg (lbs.)	2682 (5913)	3356 (7400)	3506 (7729.4)
2.1b		Truck weight without load, with maximum battery weight	kg (lbs.)	1432 (3157)	1756 (3871.3)	1906 (4202)	2018 (4450)
2.2		Axle loadings with nominal load & maximum battery weight, drive/load side	kg (lbs.)	1127/1555	1389/1967	1494/2012	1613/2405
2.3		Axle loadings without load & with maximum battery weight, drive/load side	kg (lbs.)	1002/430 (2209/948)	1229/527 (2710/1162)	1334/572 (2941/1261)	1413/605 (3115/1334)
WHEELS, DRIVE TRAIN	3.1	Tires: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber	Vul/Vul	Vul/Vul	Vul/Vul	Vul/Vul	
	3.2	Tire dimensions, drive side	(mm / in.)	250 x 105 (9.8 x 4.1)	250 x 105 (9.8 x 4.1)	250 x 105 (9.8 x 4.1)	250 x 105 (9.8 x 4.1)
	3.3	Tire dimensions, load side	(mm / in.)	85 x 70 (3.3 x 2.8)	85 x 70 (3.3 x 2.8)	85 x 70 (3.3 x 2.8)	85 x 70 (3.3 x 2.8)
	3.4	Caster wheel dimensions (diameter x width)	(mm / in.)	150 x 55 (5.9 x 2.2)	150 x 55 (5.9 x 2.2)	150 x 55 (5.9 x 2.2)	150 x 55 (5.9 x 2.2)
	3.5	Number of wheels, load/drive side (x = driven)		1x + 2/4	1x + 2/4	1x + 2/4	1x + 2/4
	3.6	Truck width (center of tires), drive side	b10 (mm/in.)	662 (26)	662 (26)	662 (26)	662 (26)
	3.7	Truck width (center of tires), load side	b11 (mm/in.)	402 (15.8)	402 (15.8)	390 (15.3)	392 (14.4)
DIMENSIONS	4.2a	Height with mast lowered	h1 (mm/in.)	see tables	see tables	see tables	see tables
	4.2b	Height	h1 (mm/in.)	see tables	see tables	see tables	see tables
	4.3	Free lift	h2 (mm/in.)	see tables	see tables	see tables	see tables
	4.4	Lift height	h3 (mm/in.)	see tables	see tables	see tables	see tables
	4.5	Height with mast extended	h4 (mm/in.)	see tables	see tables	see tables	see tables
	4.6	Initial lift	h5 (mm/in.)	-	-	110 (4.3)	-
	4.7	Height to top of overhead guard	h6 (mm/in.)	2310 (91)	2310 (91)	2310 (91)	2310 (91)
	4.8	Seat- or stand height	h7 (mm/in.)	230 (9.1)	230 (9.1)	230 (9.1)	230 (9.1)
	4.10	Height of support legs	h8 (mm/in.)	82 (3.2)	80 (3.1)	87 (3.4)	83 (2.7)
	4.15	Fork height, fully lowered	h13 (mm/in.)	89 (3.5)	87 (3.4)	93 (3.7)	90 (3.5)
	4.19	Overall length	l1 (mm/in.)	1995* (78.5*)	2069* (81.5*)	2113* (83.2)	2118* (83.4)
	4.20	Length to fork face (includes fork thickness)	l2 (mm/in.)	825* (32.5*)	899* (35.4*)	943* (37.1*)	948* (37.3*)
	4.21	Overall width	b1/b2 (mm/in.)	940 (47)	940 (47)	940 (47)	940 (47)
	4.22	Fork dimensions (thickness, width, length)	s/e/l (mm/in.)	70x180x1170 (2.8x7.1x46.1)	70x180x1170 (2.8x7.1x46.1)	70x180x1170 (2.8x7.1x46.1)	70x195x1170 (2.8x7.7x46.1)
	4.25	Outside width over forks (minimum/maximum)	b5 (mm/in.)	570 (22.4)	570 (22.4)	570 (22.4)	570 (22.4)
4.32	Ground clearance at centre of wheelbase (forks lowered)	m2 (mm/in.)	32 (1.3)	25 (1.0)	20 (0.8)	23 (0.9)	
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast (mm/in.)	2475** (97.4**)	2548** (100.3**)	2591** (102.0**)	2593** (102.1**)	
4.33b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise	Ast3 (mm/in.)	2043** (80.4**)	2116** (83.3**)	2159** (85.0**)	2161** (85.1**)	
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast (mm/in.)	2409** (95.0**)	2481** (98.0**)	2525** (99.4**)	2527** (99.4)	
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3 (mm/in.)	2243** (88.3**)	2316** (91.1**)	2359** (93.0**)	2361** (93.0**)	
4.35	Turning radius	Wa (mm/in.)	1643** (65.0**)	1716** (67.6**)	1759** (69.3**)	1761** (69.3**)	
PERFORMANCE	5.1	Travel speed, with/without load	km/h (mph)	10.0/10.0 (6.2/6.2)	10.0/10.0 (6.2/6.2)	9.0/9.0 (5.6/5.6)	9.0/9.0 (5.6/5.6)
	5.2	Lifting speed, with /without load	m/s	0.21/0.37	0.15/0.32	0.15/0.32	0.12/0.22
	5.3	Lowering speed, with/without load	m/s	0.55/0.41	0.45/0.42	0.45/0.42	0.33/0.30
	5.8	Maximum gradeability with / without load	%	9.0/9.0	6.7/6.7	10.0/16.0	5.9/5.9
	5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Electric			
ELECTRIC	6.1	Drive motor capacity (60 min. short duty)	kW	2.7	2.7	2.7	2.7
	6.2	Lift motor output at 15% duty factor	kW	4.0	4.0	4.0	4.0
	6.4	Battery voltage/capacity at 5-hour discharge	V/Ah	24/375-775	24/375-775	24/375-775	24/375-775
	6.5	Battery weight	kg (lbs.)	330-610 (728-1345)	330-610 (728-1345)	330-610 (728-1345)	330-610 (728-1345)
	6.6a	Energy consumption (VDI EN16796)	rpm			0.878	
	8.1	Type of drive control		AC	AC	AC	AC
MISC.	10.7	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ	dB(A)		67.3	67.3	
	10.71	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ	dB(A)		*71.5/68.9/ 53.3"	*71.5/68.9/ 53.3"	

\*\* When SN/BC775 then add 104 mm (4.1 in.)      \*\* Dimensions vary depending on battery carriage and mast type"



### MAST SPECIFICATIONS

Mast type	ASR125			
	h3+h13 mm (in)	h1 mm (in)	h4 mm (in)	h2+h13 mm (in)
NARROW TV	3290 (130.0)	2157 (85.0)	3720 (146.5)	159 (h2=70) / 6.3 (h2=2.8)
	3590 (141.3)	2307 (91.0)	4020 (158.3)	159 (h2=70) / 6.3 (h2=2.8)
	4190 (165.0)	2607 (102.6)	4620 (182.0)	159 (h2=70) / 6.3 (h2=2.8)
NARROW TFV	3290 (130.0)	2157 (85.0)	3720 (146.5)	1726 (68.0)
	3590 (141.3)	2307 (91.0)	4020 (158.3)	1876 (74.0)
	4190 (165.0)	2607 (102.6)	4620 (182.0)	2176 (85.6)

$$A_{st} = W_a + R + a \quad A_{st3} = W_a + l_6 - x + a$$

A<sub>st</sub> = Working aisle width    W<sub>a</sub> = Turning radius  
a = Safety clearance = 2 x 100 mm  
 $R = \sqrt{(l_6 - x)^2 + (b_{12} / 2)^2}$

TV = DS = Duplex with clear view mast  
TFV = DEV = Duplex with full free lift  
DTFV = TREV = Triplex with full free lift  
h<sub>3</sub> + h<sub>13</sub> = Lifting height  
h<sub>1</sub> = Lowered mast height  
h<sub>4</sub> = Raised mast height  
h<sub>2</sub> + h<sub>13</sub> = Free lift

Mast type	ASR160 - ASR200			
	h3+h13 mm (in)	h1 mm (in)	h4 mm (in)	h2+h13 mm (in)
NARROW TV	3600 (141.7)	2350 (92.5)	4105 (161.6)	1847 (72.7)
	4200 (165.4)	2650 (104.3)	4705 (185.2)	2147 (84.5)
	4500 (177.2)	2800 (110.2)	5005 (197.0)	2297 (90.4)
NARROW DTFV	4800 (189.0)	2150 (84.6)	5332 (210.0)	1667 (65.6)
	5400 (212.6)	2350 (92.5)	5932 (233.5)	1867 (73.5)
	5700 (224.4)	2450 (96.5)	6232 (245.4)	1967 (77.4)
	6300 (248.0)	2650 (104.3)	6832 (269.0)	2167 (85.3)
	7000 (275.6)	2883 (113.5)	7532 (296.5)	2400 (94.5)

Mast type	ASR160I			
	h3+h13 mm (in)	h1 mm (in)	h4 mm (in)	h2+h13 mm (in)
INITIAL LIFT TV	3600 (141.7)	2355 (92.7)	4112 (162.0)	1853 (73.0)
	4200 (165.4)	2655 (104.5)	4712 (185.5)	2153 (84.8)
	4500 (177.2)	2805 (110.4)	5012 (197.3)	2303 (90.7)
INITIAL LIFT DTFV	4800 (189.0)	2155 (84.8)	5339 (210.2)	1673 (66.0)
	5400 (212.6)	2355 (92.7)	5939 (233.8)	1873 (73.7)
	5700 (224.4)	2455 (96.7)	6239 (245.6)	1973 (77.7)
	6300 (248.0)	2655 (104.5)	6839 (269.2)	2173 (85.6)
	7000 (275.6)	2888 (113.7)	7539 (297.0)	2406 (94.7)

	ASR125	ASR160	ASR160I	ASR200
<b>GENERAL</b>				
Standard display including hour meter and battery indicator	●	●	●	●
Key switch entry	●	●	●	●
Electric power steering	●	●	●	●
Speed-regulated lift motor and proportional valve for lowering	●	●	●	●
Tandem load wheels Vulkollan	●	●	●	●
Overhead guard	●	●	●	●
Adjustable armrest	●	●	●	●
Adjustable steering wheel	●	●	●	●
Storage compartment under armrest	●	●	●	●
Writing desk with paper clip	●	●	●	●
Battery rollers	●	●	●	●
Initial lift	-	-	●	-
Chill store design, down to -10°C	●	●	●	●
<b>POWER SOURCE</b>				
Lead-acid batteries	□	□	□	□
<b>ENVIRONMENT</b>				
Cold store design, 0°C to -30°C	□	□	□	□
<b>DRIVE AND LIFT CONTROLS</b>				
Height-adjustable steering wheel	●	●	●	●
Fingertip controls for lifting/lowering	●	●	●	●

● Standard □ Option

	ASR125	ASR160	ASR160I	ASR200
<b>WHEEL OPTIONS</b>				
Vulkollan	●	●	●	●
Tractothan	□	□	□	□
Super grip	□	□	□	□
<b>OTHER OPTIONS</b>				
Side stabilizers	-	□	□	□
Ergo forks trailing control , EFTC	□	□	□	□
360-degree steering	□	□	□	□
Multifunctional display incl. BDI and hour meter, PIN code login (100 codes) and graphic icons	□	□	□	□
Foldable seat	□	□	□	□
Load backrest	□	□	□	□
Key switch entry (in combination with multifunctional display)	□	□	□	□
Laser positioning guide	-	□	□	□
Load weight indicator	□	□	□	□
Lift height indicator	-	□	□	□
Level assistance system LAS	-	□	□	□
Loading assistance	-	□	□	□
Panoramic ProVision roof	□	□	□	□
12V DC power socket	□	□	□	□
5V USB socket	□	□	□	□
Accessory rack	□	□	□	□
Writing desk incl. RAM C holder	□	□	□	□
Accessory rack holder RAM system size C	□	□	□	□
Accessory rack holder RAM system size C, 2 pcs	□	□	□	□
Accessory rack holder RAM size D	□	□	□	□
Working lights LED	□	□	□	□
Increased drive speed	□	□	□	□
Special RAL color	□	□	□	□

● Standard □ Option

**MAST DIMENSIONS, VDI2198 (4.34A)**

Basic Capacity kg (lbs)		1250 (2755)	1600 (3527)	1600 (3527)	2000 (4409)	2000 (4409)
Chassis / Battery carriage		Junior/ BC 465	Junior/ BC 465	Senior/ BC 775	Junior/ BC 465	Senior/ BC 775
Mast type	Initial lift					
Duplex	No	2409	N/A	N/A	N/A	N/A
DUPLEX WITH FREE LIFT	No	2409	2481	2583	2527	2631
TRIPLEX WITH FREE LIFT	No	N/A	2481	2583	2527	2631
DUPLEX	Yes	2486	N/A	N/A	N/A	N/A
DUPLEX WITH FREE LIFT	Yes	2486	2525	2626	2556	2684
TRIPLEX WITH FREE LIFT	Yes	N/A	2525	2626	2556	2684

**MAST DIMENSIONS, AST3 (4.34B)**

Basic Capacity kg (lbs)		1250 (2755)	1600 (3527)	1600 (3527)	2000 (4409)	2000 (4409)
Chassis / Battery carriage		Junior/ BC 465	Junior/ BC 465	Senior/ BC 775	Junior/ BC 465	Senior/ BC 775
Mast type	Initial lift					
Duplex	No	2243	N/A	N/A	N/A	N/A
DUPLEX WITH FREE LIFT	No	2243	2316	2417	2361	2465
TRIPLEX WITH FREE LIFT	No	N/A	2316	2417	2361	2465
DUPLEX	Yes	2320	N/A	N/A	N/A	N/A
DUPLEX WITH FREE LIFT	Yes	2320	2359	2460	2390	2518
TRIPLEX WITH FREE LIFT	Yes	N/A	2359	2460	2390	2518



# Reliability.

It's the defining trait of our brand and our forklifts.



UniCarriers' roots extend back over 100 years, and over that time, strong, reliable performance has always been the hallmark of our people and our equipment.

Today, our unrivaled reliability continues to provide UniCarriers' customers with a competitive edge. And together, we move the merchandise that moves world commerce with greater efficiency, economy and reliability.

Which brand do you trust?  
The one you never have to think about.

**We Never Quit.**



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