

# EK13S-177 Counterbalance Stacker

The EKKO EK13S-177 Fully Powered Counterbalanced Walkie Stacker is designed with the combination of the versatility of a forklift and a walkie stacker. It is ideal for loading and unloading trucks, loading docks, stock rooms, manufacturing floors and warehousing.

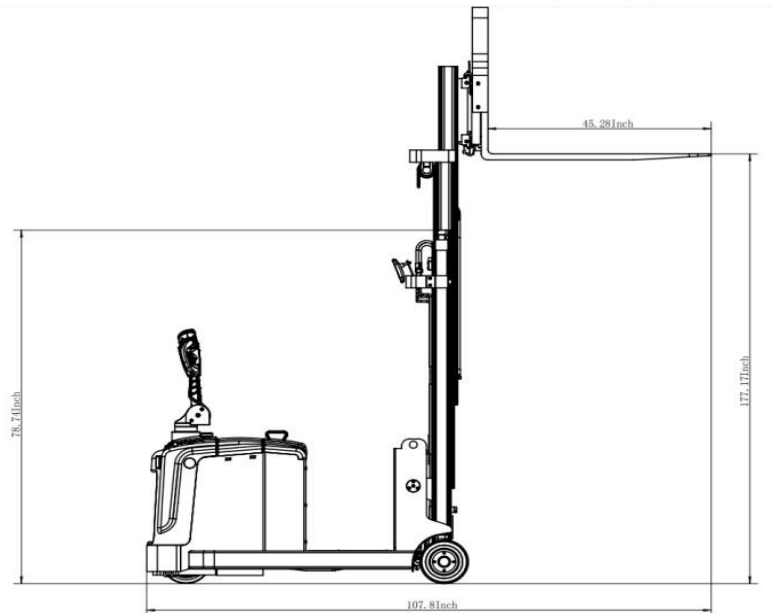
Made from high quality steel and components with durable quality drives to withstand any

terrain, usage, impact and directional changes for the use of any application with confidence and assurance.

- Load Capacity 2860 lb.
- Raised Height 177" (14.75ft)
- Side Shift
- Adjustable Forks 8.6-28.3"
- Tilt 2/5 degree
- Fork Length 45.3"
- Curtis Instrument Controller
- EPS (Electronic Power Steering)
- 24V ZF AC Drive Motor
- 24V Lift Motor
- Polyurethane Wheels
- Ergonomic Handle and Controls
- Steel Construction
- Robotic Welding
- 3 Year Limited Warranty



Model	EK13S-177	
Lift		Electric
Drive		Electric
Load capacity	(lb.)	2860
Load center distance	(in)	24
Wheelbase	(in)	46.81
Lifting height	(in)	177
Side Shift		3 Way Valve
Lowered mast height	(in)	78.74
Extended mast height	(in)	214.53
Mast Carriage Tilt	( ° )	2/5
Overall length	(in)	107.8
Overall width	(in)	39
Fork size, Thick/Width/Length	(in)	1.4/4/45.3
Fork adjust width	(in)	8.6-28.3
Turning radius	(in)	56.89
Gradient performance, laden/unladen	(%)	6/8
Lift speed, laden/unladen	(in/s)	3.9/4.7
Lowering speed, laden/unladen	(in/s)	5.3/4.7
Charger	(V/A)	24V/30A
Driving Motor	(V/W)	AC 24V/2500W
Lifting Motor	(V/W)	24V/2500W
EPS Steering Motor	(V/W)	24/200W
Battery voltage	(V/Ah)	24V/210Ah (Side)
Service Weight	(lb.)	4070



# EKKO<sup>®</sup>

MATERIAL HANDLING EQUIPMENT

**MOVING AHEAD**

# COUNTERBALANCE STACKER EK13S-177 SERIES

- Load Capacity 2860 lbs.
- Lift Height 177" in.
- EPS (Elec. Power Steer)
- Length 107 in.
- **SIDE-SHIFT**
- Curtis Instrument Controller
- Tilt 2/5 degree
- Mast Height 78 in.
- Battery & Charger Included
- 3 Year Limited Warranty



## EK13S-177 SERIES

Superior quality, maneuverable, compact, and durable for all your material handling applications. Ideal for small aisles and areas.

**WEIGHT CAPACITY:** 2860 lbs. @ 24" load center

**LIFT HEIGHT:** 177" (14.75ft)

**FORK LENGTH:** 45.3"

**MAST HEIGHT:** 78"

**TURNING RADIUS:** 57"

**TILT:** 2/5 degree

### SIDE-SHIFT

**BATTERY / CHARGER:** 24V 210AH, 24-volt Industrial battery with external direct connect 110A 110VAC plug-in automatic 24V/30A charger (both Included)

**BRAKING:** Electromagnetic Brakes

**SPEED TRAVEL:** 3.7 mph empty ; 3.5 mph loaded

**LIFTING SPEED:** 4.7" ips empty; 4.7" ips loaded

**LOWERING SPEED:** 4.7" ips empty; 5.3" ips loaded

**DRIVE WHEELS:** 10" x 2.75" Polyurethane

**LOAD WHEELS:** (2) 9.5" x 4.75" Polyurethane

**HYDRAULICS LIFTING MOTOR:** 24V 2500 Watt lifting motor with hardened chrome moly steel for durability.

**DRIVE MOTOR:** 24V 2500-Watt German ZF AC drive motor for efficiency and high torque.

**STEERING MOTOR:** EPS (Electronic Power Steering) 24V 200 Watt

**AC CONTROLLER:** 24V CURTIS Instrument provides performance through entire range of speed; Constant travel speed regardless of load; Battery discharge indicator combination gauge.

**BRAKES:** Electro-magnetic braking for secure stopping power; Electronic neutral braking for accurate control.

**OPERATOR CONTROLS:** EPS (Electric Power Steering), tilt lifting, lowering, horn functions are located in the ergonomic handle; Belly button reverse safety feature allows the unit to stop and reverse to avoid collision or injury.

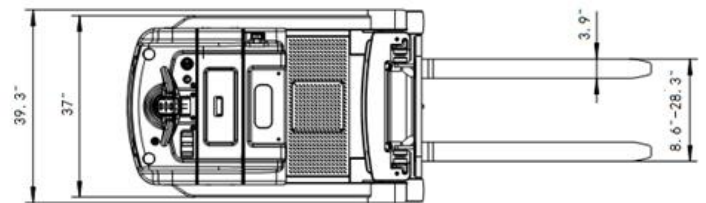
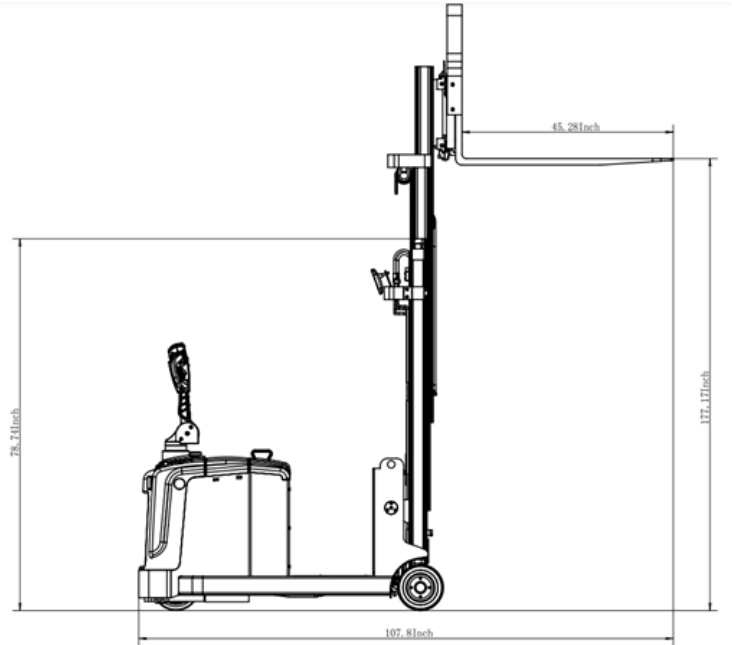
**CHASSIS AND MAST:** Robotic Welding; Heavy duty steel chassis with I-beam mast for durability; Telescoping mast.



# Counterbalanced Stacker



Model		EK13S-177
Drive type		Electric
Type of operation		Walike type
Load Capacity	Q (LBS)	2860
Load Centre	c (Inch)	23.6
Distance between fork backrest and front wheel	x (Inch)	5.91
Wheelbase	y (Inch)	46.81
Service Weight ( with battery )	LBS	4070
Tire material		PU
Driving wheel size	$\Phi \times w$ (Inch)	$\Phi 9.84 \times 2.95$
Bearing wheel size	$\Phi \times w$ (Inch)	$\Phi 9.84 \times 4.72$
No of Driving wheel,Balance wheel/Bearing wheel(X=Driving wheel)		2/1X
Front wheelbase	b10 (Inch)	34.09
Rear wheelbase	b11 (Inch)	0
Mast/fork carriage tilt, forward/backward	$\alpha/\beta$ (°)	2/5
Lowered mast height	h1 (Inch)	78.74
Free lift height	h2 (Inch)	59.84
Lift height	h3 (Inch)	177.17
Extended mast height	h4 (Inch)	214.53
Height of seat/stand-on platform	h7 (mm)	5
The height of handle in the operation position	h14 (Inch)	43.5/56.69
Overall Length	l1 (Inch)	107.8
Body Length	l2 (Inch)	62.52
Overall Width	b1/ b2 (Inch)	39.29
Fork Size	s/e/l (Inch)	1.38/3.94/45.28
Fork Width	b5 (Inch)	8.66-28.35
Ground clearance under mast	m1 (Inch)	3.54
Min Ground clearance	m2 (Inch)	3.39
Aisle width for pallets 1000*1200 crossways	Ast (Inch)	115.95
Aisle width for pallets 800*1200 lengthways	Ast (Inch)	120.28
Turing Radius	Wa (Inch)	56.89
Driving Speed, load/unload	(km/h)	5.2/5.5
Lifting Speed load/unload	(mm/s)	100/120
Lowered Speed load/unload	(mm/s)	136/120
Maximum gradeability load/unload	(%)	6/8
Brake Type		Electromagnetic brake
Drive Motor	(kW)	2.5
Lift Motor	(kW)	2.5
Battery voltage/rate capacity	(V/Ah)	24/210
Battery Weight ( ±5% )	(lbs)	460
Type of drive control		AC
Noise level	(dB(A))	70
Steering type		EPS



MODEL #	LOAD	MAST	LIFT HEIGHT	MAX MAST HEIGHT	TOTAL LENGTH	SERVICE WEIGHT
EK13S-130	2860lbs	78"	177"	214.53"	107"	4070lbs