



**Zero Emission Electric Power Available**

**Collision avoidance system (CAS)**

**No Touch Protection:** 3D infrared sensor based system to ensure full IATA 913 Collision Avoidance Compliance

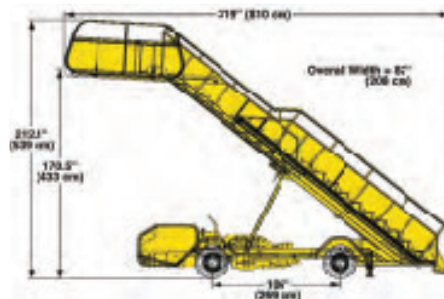
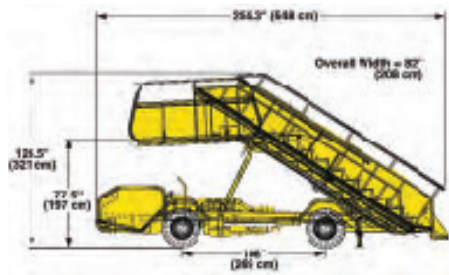
## Reduce turn time with extended reach in a maneuverable, mobile stair.

This extended reach mobile stair services doorsill heights from 77.5 inches (1.97 meters) up to 170.5 inches (4.3 meters) in a highly maneuverable unit. The CMPS-170 meets SAE ARP 836 and 1247. A tubular wrap-around steel frame is light weight, fuel efficient and agile for crowded ramp environments.

The easy-to-position stair unit features an unobstructed operator's station allowing clear visibility of the aircraft doorsill during approach to the aircraft. Integrated IATA 913 compliant No Touch collision avoidance systems insures aircraft integrity. The 3D infrared sensor system remains at optimal performance in all weather conditions.

The CMPS-170 is available in electric, diesel, gasoline or LP power options.

Customized configurations for every application are available.



*Photos and illustrations may show optional equipment.*

### Features:

- ✓ Zero emission electric power
- ✓ Low emission Stage V and Tier 4 Final diesel power
- ✓ EPA approved gasoline or LP fuel
- ✓ Factory new automatic transmission
- ✓ Lightweight, fuel efficient, impact deflecting steel frame
- ✓ LED lighting
- ✓ Safety
  - Back up alarm
  - Horn
  - Anti-restart ignition switch
  - Engine safety shutdown (engine dependent; low oil pressure, high temperature)
  - Slip resistant treads with LED lighting for night visibility
  - Four point hydraulic stabilers
  - Stable – able to operate in winds up to 90 mph (145 kph)
  - Platform rated for 1,900 pounds (863 kilograms)

# CMPS-170 Chassis Mounted Passenger Stair

	IMPERIAL	METRIC		IMPERIAL	METRIC
<b>Aircraft servicing capabilities</b>			<b>Platforms (Top)</b>		
Doorsill height	77.5 – 170.5 in	1.97 – 4.33 m	Width	51.1 in	1.3 m
<b>Dimensions/specs</b>			Depth	85.9 in	2.2 m
Length (extended)	319 in	8.1 m	Operating angle	+3° to -3°	
Length (travel)	255.3 in	6.5 m	Capacity	1,900 lbs – 65 lbs/sq ft	862 kg – 317 kg/m <sup>2</sup>
Width	82 in	2.7 m	<b>Platforms (Intermediate)</b>		
Height (extended)	212.1 in	5.4 m	Depth	34 in	0.86 m
Height (travel)	126.5 in	3.2 m	Capacity	621 lbs – 65 lbs/sq ft	282 kg – 317 kg/m <sup>2</sup>
Drive speed, gas/diesel	25 mph	40 kph	<b>Step capacities</b>		
Weight, shipping (non-electric)	7,300 lbs	3,311 kg	Adjustable capacity	343 lbs – 100 lbs/sq ft	156 kg – 488 kg/m <sup>2</sup>
Ground clearance	5 in	0.17 m	Fixed capacity	306 lbs – 100 lbs/sq ft	139 kg – 488 kg/m <sup>2</sup>
Turn radius	18 ft 9 in	5.7 m	<b>Drive Axle</b>		
<b>Stairs</b>			Comer planetary heavy duty capacity	8,093 lbs	3,671 kg
Nominal tread depth	10.6 in	0.27 m	<b>Front Axle (Brier-ton)</b>		
Nominal riser height	7.4 in	0.19 m	Rugged capacity	4,500 lbs	2,041 kg
Basic stair angle	35°	35°	Track (rigid mounted to frame)	73 in	1.85 m
Nominal tread width (fixed)	42 in	1.1 m			
Nominal tread width (adjusted)	47 in	1.2 m			
Handrail capacity	200 lbs	91 kg			
<b>Fuel Tank</b>					
Capacity	22 gal	83 L			

## Drive System

### Engine options

#### Electric

- 80V AC with Curtis controller
- Lead- Acid or Lithium battery
- Onboard charger available

#### Diesel

- Deutz D2.9L (available in Stage V and Tier 4 Final)
- Cummins B3.3 (Tier 3, export only)
- Deutz 2011 (Tier 3, export only)

#### Gasoline

- Kubota WG2503
- Ford MSG425

#### LP

- Kubota WG2503
- Ford MSG425

### Cooling system

Full size liquid cooled radiator, isolated from vibration

### Transmission

Factory new GM 4L70E automatic transmission with separate transmission fluid cooler, with shift abuse protection

### Axles

- Front:** Brier-ton (standard), Comer (optional)
- Rear:** Comer

### Tires

- Front:** 8.75R – 16.5
- Rear:** 8.75R – 16.5

**Note:** Dimensions may change slightly with individual engine packages. Specifications subject to change without notice.

## Systems

### Chassis

Lightweight, durable tubular impact deflecting frame

### Steering

Power assisted

### Braking

Four wheel, split cylinder

**Front:** Disc

**Rear:** Internal wet disc

### Instrumentation

J1939 CAN gauge (Stage V, Tier 4 Final, gasoline and LP)

LED warning indicators

- Alternator
- Engine oil pressure
- Coolant temperature
- Brakes

Engine hour meter

### Hydraulics

Hydraulic manifold design includes solenoid operated valves

Built in manual emergency operating system

### Lighting (LED)

- Headlights
- Taillights
- Brake
- Reverse
- Work light

### Electrical

- 12V
- Maintenance free battery
- 60 amp minimum alternator (engine dependent)

## Configurations

### Standard

- Retractable seat belt
- Engine cover
- Engine safety shutdown (low oil pressure, high temperature)
- Back up alarm
- Anti-restart ignition switch
- Zinc rich primer and white or safety yellow polyurethane top coat

### Optional

- No Touch IATA 913 Compliant Collision Avoidance System
- Lithium battery (consult factory for details)
- Battery Management System for fast chargers
- On board SAE J1772 compliant charger
- Canopy, Stairway
- Enclosed operators cab
- Seat options
- Keyed ignition
- LED amber beacon light
- LED turn signals
- Push button start
- Rear view mirror
- Master disconnect switch
- Tow hooks
- Fire extinguisher(s)
- Spare tire assemblies
- Preventive maintenance service kits
- Heavy duty winterization package to -40F
- No Touch IATA 913 compliant Collision Avoidance System
- Custom paint color
- Consult factory for additional specialized configurations