

Precise load handling in one highly efficient package.

The Komatsu MPF15-2A is actually four machines in one – order picker, transporter, right angle stacker, and maintenance vehicle. It includes features that work with the operator, both on the ground and at the highest elevations. All-around performance and improved stability help the operator manage stock picking functions with greater speed and confidence.

The operator compartment size allows the operator more room to work, almost 7.5 square feet of space. A deep cushioned floor mat provides excellent traction as well as comfort for the operator during the order picking process.

The electronically cushioned lift and lower functions ramp up and ramp down during start and stop to reduce impact on the operator's legs and knees. Acceleration and deceleration ramps are controlled with modulating solenoid valves.

Visibility through the mast is improved and the steering wheel has been angled to reduce fatigue. The frame design provides a clearer line of sight to the floor in front of the truck making the MPF15-2A compartment a natural extension of the operator.

1 High Visibility Mast

- Widely spaced, nested mast channels offer a wide field of vision.
- Angled front chassis affords the operator an unobstructed view in front of the lift and an awareness of their surroundings.

2 Operator-Friendly Instrument Panel

- Easy-to-read displays show the battery state-of-charge, self diagnostics system codes, and the steer wheel direction.
- Push button switches feature large, understandable icons.
- Instant access to the vehicle conditions improves driver confidence.

3 180° Electronic Steering

- Angle-mounted steering wheel for a natural alignment with the operator.
- Effortless electronic control reduces operator fatigue.
- Small diameter steering wheel reduces the motion required.
- Electronic control returns steering to the center upon brake release.

4 Ergonomic Control Handle

- The control handle allows travel direction and speed, lift/lower, and horn functions to be controlled with just one hand.
- Ergonomic positioning provides maximum comfort and optimum control even when wearing heavy work gloves.



5 Comfortable Operator Platform

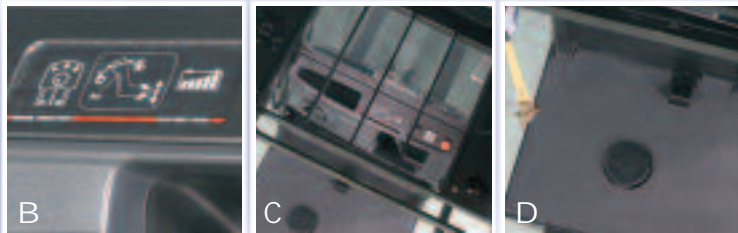
- Deep cushioned floor mat reduces operator fatigue and provides optimum footing.
- The brake pedal placement allows flexibility in the operator's foot position.
- A pallet clamp ensures proper pallet centering and retention.



Komatsu maximizes performance and versatility.

The Komatsu Order Selector provides the operator with many features that work together to create a comfortable yet more productive work environment. A SepEx™ drive motor and controller gives excellent speed control and acceleration regardless of load. With SepEx™ the operator does not have to “goose” the throttle to start the truck moving when heavily loaded. Acceleration and travel speeds are much smoother than with conventional DC motors.

Travel speeds of up to 6.0 mph are available, but maximum travel speed is restricted when lift height reaches certain levels for added operator confidence and safety. These machines also allow easy navigation through very narrow aisles literally pushing the limits of capability while redefining the perceptions of value.



A. 180° electronic steering is virtually effortless with no mechanical connection between the steering wheel and the transmission. **B.** Clear and concise operating instrumentation. **C.** Sturdy open grate overhead guard not only protects the operator but provides excellent upper visibility. **D.** Large, cushioned operator platform has brake and pallet clamp positioned for optimum flexibility.

A rugged lift that is anything but average.

Designed to make maintenance and service easy. But these machines are also built tough to deliver remarkable performance and practical utility. You will find:

- Rugged I-beam construction mast rails with canted mast rollers to reduce mast sway.
- 12-inch diameter drive tire reduces impact of floor joints.
- Vertically mounted drive motor keeps brushes high out of dirt from floor. Brushes are easily checked.
- Final drive axle runs on tapered roller bearings in an oil-filled gear case.
- Load wheels have grease fittings.
- Transmission mounted on thrust support ball bearing.
- Class “H” insulated drive motor for longer life.
- Self-diagnostics reduces maintenance and repair costs.
- No direction contactors eliminates replacement of expensive contactor tips.



SPEED

Travel 24 Volt

	mph	(kph)
Below 24.0 in. (600 mm)	6.0 (9.7)	Empty
	5.5 (8.9)	Loaded
24.0 in. to 60.0 in. (600 mm to 1,525 mm)	6.0 to 2.5 (9.7 to 4.0)	Empty
	5.5 to 2.2 (8.9 to 3.5)	Loaded
60.0 in. to 150.0 in. (1,525 mm to 3,810 mm)	2.5 to 1.0 (4.0 to 1.6)	Empty
	2.2 to 1.0 (3.5 to 1.6)	Loaded
150.0 in. to 240.0 in. (3,810 mm to 6,095 mm)	1.0 to 0.0 (1.6 to 0.0)	Empty
	1.0 to 0.0 (1.6 to 0.0)	Loaded

Lifting fpm (mpm)

High Speed	63 (19)	Empty
	37 (11)	Loaded
Low Speed	44 (13)	Empty
	10 (3)	Loaded

Lowering fpm (mpm)

High Speed	65 (20)	Empty
	70 (21)	Loaded
Low Speed	30 (9)	Empty
	35 (10)	Loaded

CAPACITY

Basic capacity is 3,000 lbs. (1,360 kg) at 24.0 in. (600 mm) load center.

WEIGHT

Approximately 4,390 lbs. (1,990 kg) less battery with 210.0 in. (5,335 mm) mast.

TRACTION MOTOR

Heavy-duty class "H" insulated, SepEx™ motor is high-starting torque type, ball bearing armature shaft mounting. Brushes located high and easily replaced. Motor vertically mounted to gear housing. Spiral bevel and helical gear drive train transfers power most efficiently from drive motor to axle. The enclosed power train operates in an oil bath.

BATTERY

24 volt industrial-type lead acid. Requires 15.0 in. (380 mm) leads in position "C." Minimum battery weight is 1,500 lbs. (680 kg). Recommended A.H. capacity is 875. Battery compartment dimension is 13.875 in. x 38.25 in. x 31.5 in. (350 mm x 970 mm x 800 mm) high. Standard connector is red, SB-350.

TIRES

Drive 12.0 in. x 5.0 in. (305 mm x 125 mm) Polyurethane **Load** 6.0 in. x 3.625 in. (150 mm x 90 mm) Polyurethane

BRAKE

Disc brake is mounted directly on motor shaft greatly multiplying brake power through the double reduction transmission. Easily adjusted from outside of transmission case. Electrically released by depressing brake release pedal.

MAST

Interlocking I-beam type with heavy-duty ball bearing rollers. Clear view offered as standard on all 3-stage selections.

HYDRAULIC SYSTEM

Heavy-duty class "H" insulated, series-wound motor with gear pump mounted inside hydraulic reservoir. Modulating solenoid valves control cushioned lift/lower and an excess flow protector valve prevents runaway platform drop in the event of a burst hydraulic hose.

ELECTRICAL / CONTROL

Control logics use the Curtis 1243 SepEx™ traction control and directly control the lift system as well as providing for the 180° electronic power steering. SepEx™ drive motor control eliminates directional contactors.

All controls for steering, travel, lift, lower, and braking are conveniently located for efficient operation and minimum operator impact.

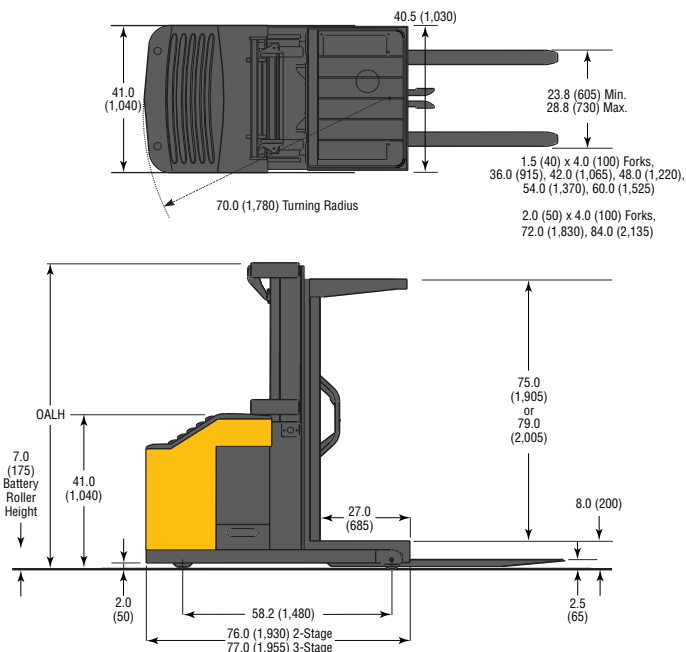
All circuits are fuse protected. All electrical components are mounted high on machine away from floor. Power can be shut off by activating the emergency power disconnect in the operator's compartment and is resettable from platform.

BEARINGS

Drive Wheel – Tapered roller bearings running in oil in sealed case.

Load Wheels – Greaseable ball bearings.

Transmission – Tapered roller bearings.



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