

The **Builtrite™, Model 4650-SE-VFD Stationary Electric Material Handler** is designed for loading stationary shears, shredders, wood mills, large waste facilities and other applications requiring long reach and high production. With a wide array of options, boom configurations and attachments available, let Builtrite design a material handler to maximize production at your facility. These machines operate much more efficiently, are quieter and don't emit noxious fumes, enabling them to work indoors or out. Maintenance costs are less, as electric motors require much less maintenance than their diesel counterparts and the power units can be placed remotely, removing them from dusty conditions.

The Model 4650-SE-VFD features our patented, Variable Frequency Drive, which eliminates electrical spike loads upon ramp up. It is offered with a comfortable operator's cab with a fixed or hydraulic cab riser. The high pressure, on-demand, load sense hydraulic system delivers power to the functions when they need them. Combined, this machine delivers extraordinary control, power and efficiency.



4650-SE-VFD with 60', Material Handling Boom, Hydraulic Cab Riser and Builtrite Model 4TKG 75 Orange Peel Grapple

# Model 4650-SE-VFD Specifications

## DIMENSIONS

Dimensions will vary, depending upon configuration. Please consult factory for specific dimensions, base upon your specific, chosen options.

## WARRANTY

4000 Hours or 2 Years, whichever occurs first

## BOOM DATA

- 1] Horizontal Reach = 45' (13.7M), 50' (15.24 M) or 60' (18.3M) material handling style boom options.
- 2] Fabricated boom design for exceptional strength
- 3] 4.5" (114.3 mm) boom pivot, 2.5" jib cylinder pin & 2.5" main boom lift cylinder pins (self aligning).
- 4] Aluminum bronze bushings at all boom pivot points
- 5] Centralized Grease Standard-Auto Lube Option

## HYDRAULICS & LUBRICATION

- 1] 350 Gallon (1325L) hydraulic reservoir return filters, stack type control valves with main relief and safety port relief for all boom functions.
- 2] Piston pump, pressure compensating, on-demand hydraulic system.
- 3] 4250 PSI (293 Bar) Operating System
- 4] Hydraulic oil cooler. 7.5 HP electric motor drive fan.

## BOOM CYLINDERS

- 1] Main boom - Two (2) 5.9" (150mm) bore x 3" (80mm) rod.
- 2] Jib Boom - Two (2) 4.5" (114mm) bore, x 3" (80mm) rod.
- 3] Hydraulic stop cushions on both ends
- 4] Wear rings on both pistons and glands
- 5] Rods with heavy chrome plating
- 6] Accumulator on main lift cylinder to cushion shock loading.

## PEDESTAL BASE

- 1] 33" (838mm) high pedestal base with inspection hole.
- 2] 68" (1,727mm), OD, round base plate.

## SWING SYSTEM

- 1] 4.5 RPM with dual motors and gearbox swing drives.
- 2] 61.25" (1555 mm) Diameter external tooth bearing.
- 3] Non-continuous or continuous rotation options.

## MODULAR POWER SOURCE

- 1] One (1), 250 HP, 460 Volt, TEFC electric motor
- 2] One (1) 3 HP 460 volt motor for air conditioning compressor drive plus a 2 HP kidney motor & 7.5 HP oil cooler motor.

## ELECTRICAL PACKAGE

- 1] Variable Frequency Drive
- 2] Breaker disconnect in N.E.M.A. enclosure
- 3] Start/stop controls on control console.



## OPERATOR'S CAB

- 1] 39" W X 52" L, fully insulated cab, equipped with sliding door, forward sloping front windshield, washer/wiper, defroster, dome light and deluxe bucket seat.
- 2] AM/FM, USB & Bluetooth
- 3] Under seat cab heater and air conditioner
- 4] LED Exterior Lights
- 5] Electronic, Joystick Operator Controls - Installed in seat pods with hand swing controls
- 6] Parker IQAN System with MD4, 7-inch display module allows operator adjustments to be made for individual preference
- 7] Remote diagnostic capability
- 8] Cab access via ladder or stairway (if catwalk option purchased)
- 9] Cab can be mounted to either right or left side

## LIFT CAPACITY (w/ 50' Material Handling Boom)

1] @ Ground Level, 25' (7.6M) Out	16,400 Lbs. / 7,455 Kg.
2] @ Ground Level, 30' (9.1M) Out	13,408 Lbs. / 6,095 Kg.
3] @ Ground Level, 35' (10.7M) Out	11,100 Lbs. / 5,045 Kg.
4] @ Ground Level, 40' (12.2M) Out	9,300 Lbs. / 4,210 Kg.
5] @ Ground Level, 45' (13.7M) Out	7,600 Lbs. / 3,440 Kg.
6] @ Ground Level, 50' (15.2M) Out	5,800 Lbs. / 2,630 Kg.