

# ECOMAXX SERIES



8000 - 10,000 LB INTERNAL COMBUSTION  
ENGINE FORKLIFTS

## ECONOMICAL & ECOFRIENDLY

High Performance, Fuel Efficient & Low Emission at a Great Value

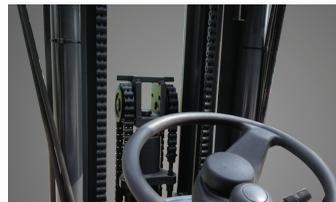
Model: ECO-FD40

The EcoMaxx Series of forklifts offers an ideal balance between performance, fuel efficiency and price. Find out how an EcoMaxx forklift can help your business today! Starke Material Handling Group is committed to providing a broad selection of the toughest trucks for even the most challenging applications.



### OPERATOR PRESENCE SYSTEM

Integrated into the ergonomic seat, the Operator Presence System locks out lift and travel functions and disengages the transmission should the operator leave the seat while the forklift is in use.



### WIDE VIEW MAST

Intelligent design and effective chain / hose placement provides better forward visibility. With a clearer view of the forks, operators are more efficient, accurate, and safe in load handling.



### INTEGRATED SAFETY FEATURES



### EASILY ACCESSIBLE CONTROLS



### RUGGED POWER TRAIN



### SOLID OVERHEAD GUARD



Meets or exceeds ANSI B56.1 Standards. Specifications, features, and images are provided for reference only and may be subject to change without prior notice.

Rev 04/2019



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|                                      |                               |         | ECO-FD40       | ECO-FD45       | ECO-FD50S      |
|--------------------------------------|-------------------------------|---------|----------------|----------------|----------------|
| Maximum Lift Capacity                |                               | LBS     | 8000           | 9000           | 10000          |
| Length                               | without fork                  | IN      | 113.8          | 128.3          | 128.3          |
| Width                                |                               | IN      | 55.5           | 57.5           | 57.5           |
| Height                               | most lowered                  | IN      | 86.4           | 89.4           | 89.4           |
|                                      | overhead guard                |         | 83.5           | 92.1           | 92.1           |
|                                      | most extended (with backrest) |         | 164.6          | 164.0          | 164.0          |
| Fork Size LxWxH                      |                               | IN      | 42 x 4.9 x 2.0 | 42 x 5.9 x 2.0 | 42 x 5.9 x 2.0 |
| Wheelbase                            |                               | IN      | 74.8           | 82.7           | 82.7           |
| Overhang                             | Front                         | IN      | 19.5           | 22.8           | 22.8           |
| Ground Clearance                     | Mast                          | IN      | 5.5            | 5.9            | 5.9            |
| Lift Height (2-Stage)                |                               | IN      | 118.1 - 236.2  | 118.1 - 236.2  | 118.1 - 236.2  |
| Lift Height (3-Stage Full Free Lift) |                               | IN      | 141.7 - 236.2  | 141.7 - 236.2  | 141.7 - 236.2  |
| Mast Tilt                            | Front / Rear                  | °       | 6 / 12         | 6 / 12         | 6 / 12         |
| Max Lifting Speed                    | Laden                         | IN/S    | 12.6           | 15.7           | 15.0           |
| Min. turning radius                  |                               | IN      | 106.3          | 114.6          | 114.6          |
| Min. insecting Aisle width           |                               | IN      | 106.3          | 115.0          | 115.0          |
| Max driving Speed                    | Unladen                       | MPH     | 11.8           | 15.5           | 15.5           |
| Load center                          |                               | IN      | 24             | 24             | 24             |
| Gradeability                         | Laden                         | %       | 20             | 20             | 20             |
| Service Weight                       |                               | LBS     | 11243          | 14110          | 14771          |
| Battery                              |                               | V/Ah    | 12 / 80 x 2    | 12 / 80 x 2    | 12 / 80 x 2    |
| Manufacturer                         |                               |         | Cummins        | Cummins        | Cummins        |
| Engine model                         |                               |         | QSF2.8T4C49-74 | QSF2.8T4C49-74 | QSF2.8T4C49-74 |
| Rated output / r.p.m.                |                               | HP/RPM  | 43/2300        | 82.4/2000      | 82.4/2000      |
| Max. torque / r.p.m.                 |                               | LBF/RPM | 196/1700       | 416.8/1500     | 416.8/1500     |
| No. of Cylinder                      |                               |         | 4              | 6              | 6              |
| Bore x Stroke                        |                               | IN      | 98 x 110       | 105 x 125      | 105 x 125      |
| Displacement                         |                               | CC      | 3318           | 6494           | 6494           |

| TYPE                        | MODEL            | LIFT HEIGHT (IN) | LOAD CAPACITY (LB) |          |          | OVERALL HEIGHT (IN) |                  |       | FREE LIFT (IN)  |      | TILT ANGLE |
|-----------------------------|------------------|------------------|--------------------|----------|----------|---------------------|------------------|-------|-----------------|------|------------|
|                             |                  |                  |                    |          |          | 8000 - 10000 LB     |                  |       | 8000 - 10000 LB |      | F/R (DEG)  |
|                             |                  |                  | ECO-FD40           | ECO-FD45 | ECO-FD50 | MAST LOWERED        | MAST EXTENDED    |       | MAST EXTENDED   |      |            |
| WITH BACKREST               | WITHOUT BACKREST | WITH BACKREST    |                    |          |          |                     | WITHOUT BACKREST |       |                 |      |            |
| WIDE VIEW 2-STAGE MAST      | M250             | 98.4             | 8000               | 9000     | 10000    | 79.5                | 144.3            | 131.9 | -               | -    | 6/12       |
|                             | M300             | 118.1            | 8000               | 9000     | 10000    | 89.4                | 164.1            | 151.6 | -               | -    | 6/12       |
|                             | M330             | 129.9            | 8000               | 9000     | 10000    | 95.3                | 175.8            | 163.4 | -               | -    | 6/12       |
|                             | M350             | 137.8            | 8000               | 9000     | 10000    | 99.2                | 183.7            | 171.3 | -               | -    | 6/12       |
|                             | M370             | 145.7            | 11000              | 9000     | 9600     | 103.1               | 191.5            | 179.1 | -               | -    | 6/12       |
|                             | M400             | 157.5            | 11000              | 9000     | 9000     | 111.1               | 203.3            | 190.9 | -               | -    | 6/12       |
|                             | M450             | 177.2            | 11000              | 8000     | 8400     | 120.9               | 223.1            | 210.6 | -               | -    | 6/6        |
|                             | M500             | 196.8            | 11000              | 7200     | 7600     | 130.7               | 242.7            | 230.3 | -               | -    | 6/6        |
|                             | M550             | 216.5            | 10470              | 5800     | 6200     | 142.5               | 262.4            | 250.1 | -               | -    | 3/6        |
|                             | M600             | 236.2            | 9700               | 4800     | 5200     | 152.4               | 282.1            | 269.7 | -               | -    | 3/6        |
| FULL FREE LIFT 2-STAGE MAST | Z250             | 98.4             | 11000              | 9000     | 10000    | 79.5                | 144.3            | 131.9 | 29.3            | 47.1 | 6/12       |
|                             | Z300             | 118.1            | 11000              | 9000     | 10000    | 89.4                | 164.1            | 151.6 | 39.2            | 56.9 | 6/12       |
|                             | Z330             | 129.9            | 11000              | 9000     | 10000    | 95.3                | 175.8            | 163.4 | 45.1            | 62.8 | 6/12       |
|                             | Z350             | 137.8            | 11000              | 9000     | 10000    | 99.2                | 183.7            | 171.3 | 49.4            | 66.7 | 6/12       |
|                             | Z370             | 145.7            | 11000              | 9000     | 9600     | 103.1               | 191.5            | 179.1 | 52.9            | 70.7 | 6/12       |
|                             | Z400             | 157.5            | 11000              | 9000     | 9200     | 111.1               | 203.3            | 190.9 | 58.9            | 76.6 | 6/12       |
| FULL FREE LIFT 3-STAGE MAST | S370             | 145.7            | 9920               | 8600     | 9600     | 78.9                | 182.1            | 179.1 | 34.6            | 47.1 | 6/6        |
|                             | S400             | 157.5            | 9920               | 8600     | 9000     | 82.9                | 203.9            | 190.9 | 38.6            | 51.1 | 6/6        |
|                             | S435             | 171.3            | 9920               | 8200     | 8600     | 87.4                | 217.7            | 204.7 | 43.1            | 55.5 | 6/6        |
|                             | S450             | 177.2            | 9920               | 7800     | 8400     | 89.4                | 223.6            | 210.6 | 45.1            | 57.5 | 6/6        |
|                             | S480             | 189.0            | 9920               | 7600     | 8000     | 93.3                | 235.4            | 222.4 | 49.1            | 61.4 | 6/6        |
|                             | S500             | 196.8            | 9920               | 7200     | 7600     | 95.9                | 243.3            | 230.3 | 51.6            | 63.1 | 6/6        |
|                             | S550             | 216.5            | 9259               | 5800     | 6400     | 102.4               | 262.1            | 250.1 | 64.8            | 77.2 | 3/6        |
|                             | S600             | 236.2            | 8818               | 4800     | 5200     | 113.1               | 282.7            | 269.7 | 71.4            | 83.9 | 3/6        |



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