

SPECIFICATIONS

| CHARACTERISTICS |                                                     |                                     | FG15N           |      | FG18N                    |             | FG20CN          |             | FG20N           |             | FG20N-HO |      | FD20N           |             | FG25N           |             | FG25N-HO        |             | FD25N       |             | FG28N           |             | FD28N       |         | FG30N           |             | FD30N      |             | FG33N           |             | FD33N      |             | FG35N           |             | FD35N      |             |            |             |            |             |
|-----------------|-----------------------------------------------------|-------------------------------------|-----------------|------|--------------------------|-------------|-----------------|-------------|-----------------|-------------|----------|------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-------------|-------------|-----------------|-------------|-------------|---------|-----------------|-------------|------------|-------------|-----------------|-------------|------------|-------------|-----------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| 1               | Capacity                                            | at rated load center                | lb              | kg   | 3000                     | 1500        | 3500            | 1750        | 4000            | 2000        |          |      | 4000            | 2000        | 4000            | 2000        | 5000            | 2500        | 5000        | 2500        | 5000            | 2500        |             |         | 5500            | 2800        | 5500       | 2800        | 6000            | 3000        | 6000       | 3000        | 6500            | 3300        | 6500       | 3300        | 7000       | 3500        | 7000       | 3500        |
| 2               |                                                     | at load center – distance           | in              | mm   | 24                       | 500         | 24              | 500         | 24              | 500         |          |      | 24              | 500         | 24              | 500         | 24              | 500         | 24          | 500         | 24              | 500         |             |         | 24              | 500         | 24         | 500         | 24              | 500         | 24         | 500         | 24              | 500         | 24         | 500         | 24         | 500         | 24         | 500         |
| 3               | Power                                               | electric, diesel, gasoline, LP gas  | gasoline/LP gas |      | gasoline/LP gas          |             | gasoline/LP gas |             | gasoline/LP gas |             |          |      | gasoline/LP gas |             | gasoline/LP gas |             | gasoline/LP gas |             | diesel      |             | gasoline/LP gas |             | diesel      |         | gasoline/LP gas |             | diesel     |             | gasoline/LP gas |             | diesel     |             | gasoline/LP gas |             | diesel     |             |            |             |            |             |
| 4               | Tire type                                           | cushion, pneumatic                  | pneumatic       |      | pneumatic                |             | pneumatic       |             | pneumatic       |             |          |      | pneumatic       |             | pneumatic       |             | pneumatic       |             | pneumatic   |             | pneumatic       |             | pneumatic   |         | pneumatic       |             | pneumatic  |             | pneumatic       |             | pneumatic  |             | pneumatic       |             | pneumatic  |             |            |             |            |             |
| 5               | Wheels (x=driven)                                   | number front / rear                 | 2x / 2          |      | 2x / 2                   |             | 2x / 2          |             | 2x / 2          |             |          |      | 2x / 2          |             | 2x / 2          |             | 2x / 2          |             | 2x / 2      |             | 2x / 2          |             | 2x / 2      |         | 2x / 2          |             | 2x / 2     |             | 2x / 2          |             | 2x / 2     |             | 2x / 2          |             | 2x / 2     |             |            |             |            |             |
| DIMENSIONS      |                                                     |                                     |                 |      |                          |             |                 |             |                 |             |          |      |                 |             |                 |             |                 |             |             |             |                 |             |             |         |                 |             |            |             |                 |             |            |             |                 |             |            |             |            |             |            |             |
| 10              | Lift                                                | maximum fork height with rated load | in              | mm   | 162                      | 4120        | 162             | 4120        | 162             | 4130        |          |      | 162             | 4140        | 162             | 4140        | 162             | 4140        | 162         | 4140        | 162             | 4140        |             |         | 178             | 4540        | 178        | 4540        | 171             | 4360        | 171        | 4360        | 179             | 4550        | 179        | 4550        | 179        | 4550        | 179        | 4550        |
| 11              | Lift with standard                                  | maximum fork height                 | in              | mm   | 130                      | 3320        | 130             | 3320        | 131             | 3330        |          |      | 131             | 3340        | 131             | 3340        | 131             | 3340        | 131         | 3340        | 131             | 3340        |             |         | 130             | 3310        | 130        | 3310        | 130             | 3310        | 131        | 3350        | 131             | 3350        | 131        | 3350        | 131        | 3350        | 131        | 3350        |
| 12              | two-stage mast                                      | free fork height                    | in              | mm   | 4.5                      | 115         | 4.5             | 115         | 4.5             | 115         |          |      | 5.5             | 140         | 5.5             | 140         | 5.5             | 145         | 5.7         | 145         | 5.7             | 145         |             |         | 5.9             | 150         | 5.9        | 150         | 5.9             | 150         | 5.9        | 150         | 5.9             | 150         | 5.9        | 150         | 5.9        | 150         | 5.9        | 150         |
| 13              | Forks                                               | thickness x length x width          | in              | mm   | 1.4x3.9x42               | 35x100x1070 | 1.4x3.9x42      | 35x100x1070 | 1.6x4x42        | 40x100x1070 |          |      | 1.6x4x42        | 40x100x1070 | 1.6x4x42        | 40x100x1070 | 1.6x4x42        | 40x100x1070 | 1.6x4x42    | 40x100x1070 | 1.6x4x42        | 40x100x1070 |             |         | 1.8x5x42        | 45x100x1070 | 1.8x5x42   | 45x100x1070 | 1.8x5x42        | 45x100x1070 | 1.8x5x42   | 45x100x1070 | 2x5x42          | 50x125x1070 | 2x5x42     | 50x125x1070 | 2x5x42     | 50x125x1070 | 2x5x42     | 50x125x1070 |
| 13              | Fork spacing                                        | out-to out minimum / maximum        | in              | mm   | 7.9 / 36.2               | 200 / 920   | 7.9 / 36.2      | 200 / 920   | 7.9 / 36.2      | 200 / 920   |          |      | 7.9 / 36.2      | 200 / 920   | 8.7 / 39.4      | 220 / 1000  | 8.7 / 39.4      | 220 / 1000  | 8.7 / 39.4  | 220 / 1000  | 8.7 / 39.4      | 220 / 1000  |             |         | 9.8 / 39.4      | 250 / 1000  | 9.8 / 39.4 | 250 / 1000  | 9.8 / 39.4      | 250 / 1000  | 9.8 / 39.4 | 250 / 1000  | 9.8 / 39.4      | 250 / 1000  | 9.8 / 39.4 | 250 / 1000  | 9.8 / 39.4 | 250 / 1000  | 9.8 / 39.4 | 250 / 1000  |
| 14              | Tilt                                                | forward / backward                  | deg             |      | 6/10                     |             | 6/10            |             | 6/10            |             |          |      | 6/10            |             | 6/10            |             | 6/10            |             | 6/10        |             | 6/10            |             |             |         | 6/10            |             | 6/10       |             | 6/10            |             | 6/10       |             | 6/10            |             | 6/10       |             | 6/10       |             | 6/10       |             |
| 15              |                                                     | length to fork face                 | in              | mm   | 89.0                     | 2260        | 91.0            | 2300        | 93.0            | 2355        |          |      | 98.0            | 2490        | 98.0            | 2490        | 98.0            | 2490        | 100.0       | 2550        | 100.0           | 2550        |             |         | 104.0           | 2645        | 104.0      | 2645        | 107.0           | 2720        | 107.0      | 2720        | 108.0           | 2750        | 108.0      | 2750        | 110.0      | 2790        | 110.0      | 2790        |
| 16              | Overall Dimensions                                  | width                               |                 |      | with standard tires      | in          | mm              | 42.0        | 1065            | 42.0        | 1065     | 42.0 | 1065            | 45.5        | 1150            | 45.5        | 1150            | 45.5        | 1150        | 45.5        | 1150            | 45.5        | 1150        |         |                 | 50.0        | 1275       | 50.0        | 1275            | 50.0        | 1275       | 50.0        | 1275            | 50.0        | 1275       | 51.0        | 1290       | 51.0        | 1290       |             |
|                 |                                                     |                                     |                 |      | w/ optional duals        | in          | mm              | NA          | NA              | NA          | NA       | NA   | NA              | 58.5        | 1480            | 58.5        | 1480            | 58.5        | 1480        | 58.5        | 1480            | 58.5        | 1480        | 58.5    | 1480            | 59.0        | 1490       | 59.0        | 1490            | 59.0        | 1490       | 59.0        | 1490            | 59.0        | 1490       | 59.0        | 1490       | 59.0        | 1490       |             |
|                 |                                                     | height                              |                 |      | with lowered mast        | in          | mm              | 84.5        | 2140            | 84.5        | 2140     | 84.5 | 2140            | 84.5        | 2140            | 84.5        | 2140            | 84.5        | 2140        | 84.5        | 2140            | 84.5        | 2140        | 85.5    | 2170            | 85.5        | 2170       | 85.5        | 2170            | 85.5        | 2170       | 85.5        | 2170            | 85.5        | 2170       | 91.0        | 2300       | 91.0        | 2300       |             |
|                 |                                                     |                                     |                 |      | seat height              | in          | mm              | 36.5        | 929             | 36.5        | 929      | 36.5 | 929             | 37.0        | 938             | 37.0        | 938             | 37.0        | 938         | 37.0        | 938             | 37.0        | 938         | 39.0    | 988             | 39.0        | 988        | 39.0        | 988             | 39.0        | 988        | 39.0        | 988             | 39.0        | 988        | 39.0        | 988        | 39.0        | 988        |             |
|                 |                                                     |                                     |                 |      | to top of overhead guard | in          | mm              | 83.0        | 2100            | 83.0        | 2100     | 83.0 | 2100            | 83.0        | 2105            | 83.0        | 2105            | 83.0        | 2105        | 83.0        | 2105            | 83.0        | 2105        | 84.0    | 2125            | 84.0        | 2125       | 84.0        | 2125            | 84.0        | 2125       | 84.0        | 2125            | 84.5        | 2140       | 84.5        | 2140       |             |            |             |
| 20              |                                                     | with extended mast                  | in              | mm   | 180.0                    | 4550        | 180.0           | 4550        | 180.0           | 4550        |          |      | 180.0           | 4570        | 180.0           | 4570        | 180.0           | 4570        | 180.0       | 4570        | 180.0           | 4570        |             |         | 179.0           | 4540        | 179.0      | 4540        | 179.0           | 4540        | 179.0      | 4540        | 179.0           | 4540        | 180.0      | 4570        | 180.0      | 4570        |            |             |
| 21              | Minimum outside turning radius                      |                                     | in              | mm   | 77.0                     | 1950        | 78.0            | 1980        | 79.5            | 2020        |          |      | 86.5            | 2200        | 86.5            | 2200        | 86.5            | 2200        | 88.0        | 2230        | 88.0            | 2230        |             |         | 91.0            | 2315        | 91.0       | 2315        | 94.0            | 2380        | 94.0       | 2380        | 96.0            | 2430        | 96.0       | 2430        | 96.0       | 2440        | 96.0       | 2440        |
| 22              | Load moment constant                                |                                     | in              | mm   | 15.7                     | 400         | 15.7            | 400         | 16.3            | 415         |          |      | 17.9            | 455         | 17.9            | 455         | 17.9            | 455         | 17.9        | 455         | 17.9            | 455         |             |         | 19.3            | 490         | 19.3       | 490         | 19.3            | 490         | 19.3       | 490         | 19.3            | 490         | 19.3       | 490         | 19.3       | 490         |            |             |
| 23              | Minimum aisle – 90° stack – zero clearance w/o load |                                     | in              | mm   | 96.5                     | 2450        | 97.5            | 2480        | 100.0           | 2540        |          |      | 109.0           | 2760        | 109.0           | 2760        | 109.0           | 2760        | 110.0       | 2790        | 110.0           | 2790        |             |         | 114.0           | 2910        | 114.0      | 2910        | 117.0           | 2970        | 117.0      | 2970        | 119.0           | 3020        | 119.0      | 3020        | 119.0      | 3030        | 119.0      | 3030        |
| PERFORMANCE     |                                                     |                                     |                 |      |                          |             |                 |             |                 |             |          |      |                 |             |                 |             |                 |             |             |             |                 |             |             |         |                 |             |            |             |                 |             |            |             |                 |             |            |             |            |             |            |             |
| 40              | Speeds                                              | travel loaded / empty               | mph             | km/h | 11.0/12.0                | 17.5/19.0   | 11.0/11.5       | 17.5/19.0   | 11.0/11.5       | 18.0/18.5   |          |      | 10.5/11.5       | 17.0/18.5   | 10.5/11.5       | 17.0/18.5   | 10.5/11.5       | 17.0/18.5   | 10.5/11.5   | 17.0/18.5   | 10.5/11.5       | 17.0/18.5   |             |         | 10.5/11.0       | 17.0/18.0   | 10.5/11.0  | 17.0/18.0   | 10.5/11.0       | 17.0/18.0   | 10.5/11.0  | 17.0/18.0   | 10.5/11.5       | 16.5/18.0   | 11.0/11.5  | 17.5/18.5   | 10.0/11.5  | 16.5/18.0   |            |             |
| 41              |                                                     | lift speed loaded / empty           | fpm             | mm/s | 120/125                  | 620/630     | 120/125         | 620/630     | 120/125         | 620/630     |          |      | 110/115         | 570/580     | 125/130         | 630/650     | 120/125         | 610/640     | 110/115     | 570/580     | 125/130         | 630/650     | 120/125     | 610/640 |                 |             | 99/100     | 500/520     | 99/100          | 500/520     | 99/100     | 500/520     | 96/100          | 490/510     | 93/86      | 420/440     | 80/85      | 410/430     |            |             |
| 42              |                                                     | lowering speed loaded / empty       | fpm             | mm/s | 98/98                    | 500/500     | 98/98           | 500/500     | 98/98           | 500/500     |          |      | 98/98           | 500/500     | 98/98           | 500/500     | 98/98           | 500/500     | 98/98       | 500/500     | 98/98           | 500/500     |             |         | 98/98           | 500/500     | 98/98      | 500/500     | 98/98           | 500/500     | 98/98      | 500/500     | 98/98           | 500/500     | 98/98      | 500/500     | 98/98      | 500/500     | 98/98      | 500/500     |
| 43              | Drawbar pull                                        | loaded (60 min. rating)             | lb              | N    | 3575                     | 15,900      | 3550            | 15,700      | 3450            | 15,400      |          |      | 3550            | 15,800      | 4225            | 18,800      | 4000            | 18,800      | 3500        | 15,600      | 4175            | 18,600      | 3950        | 17,600  |                 |             | 4175       | 18,500      | 4175            | 18,500      | 4150       | 18,400      | 3875            | 17,200      | 3950       | 17,600      | 3950       | 17,600      |            |             |
| 44              |                                                     | loaded maximum (5 min. rating)      | lb              | N    | 4125                     | 18,300      | 4100            | 18,200      | 4000            | 17,800      |          |      | 4150            | 18,400      | 4800            | 21,300      | 4475            | 19,900      | 4100        | 18,200      | 4750            | 21,100      | 4425        | 19,600  |                 |             | 4750       | 21,100      | 4750            | 21,100      | 4725       | 21,000      | 4325            | 19,300      | 4489       | 20,000      | 4410       | 18,300      |            |             |
| 44              | Gradeability                                        | loaded at 1 mph (1.6km)             | %               |      | 40.0                     |             | 39.0            |             | 33.0            |             |          |      | 32.0            |             | 39.0            |             | 32.0            |             | 27.0        |             | 33.0            |             | 30.0        |         |                 | 29.0        |            | 29.0        |                 | 27.0        |            | 25.0        |                 | 23.7        |            | 21.7        |            | 20.6        |            |             |
|                 |                                                     | maximum loaded / empty              | %               |      | 40.1 / 18.4              |             | 39.7 / 16.0     |             | 38.8 / 14.4     |             |          |      | 37.8 / 18.8     |             | 40.2 / 18.8     |             | 40.4 / 18.7     |             | 32.0 / 16.4 |             | 37.8 / 16.4     |             | 34.2 / 16.4 |         |                 | 33.0 / 16.9 |            | 29.7 / 16.9 |                 | 30.9 / 17.3 |            | 27.7 / 17.3 |                 | 27.1 / 17.3 |            | 22.5        |            | 20.6        |            |             |
| WEIGHT          |                                                     |                                     | lb              | kg   | 5500                     | 2500        | 6000            | 2           |                 |             |          |      |                 |             |                 |             |                 |             |             |             |                 |             |             |         |                 |             |            |             |                 |             |            |             |                 |             |            |             |            |             |            |             |