

# Engine powered forklift 3.5 - 8.0 ton

**TONERO**



# Engine powered forklifts 3.5 - 4.0 ton

| Truck specifications |      |                                                                       |                 |                 |  | 8FD35F                   | 8FG35F                   | 8FD40F                   | 8FG40F                   |
|----------------------|------|-----------------------------------------------------------------------|-----------------|-----------------|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Identification       | 1.1  | Manufacturer                                                          |                 |                 |  | TOYOTA                   | TOYOTA                   | TOYOTA                   | TOYOTA                   |
|                      | 1.2  | Model                                                                 |                 |                 |  | 8FD35F                   | 8FG35F                   | 8FD40F                   | 8FG40F                   |
|                      | 1.3  | Drive                                                                 |                 |                 |  | Diesel                   | LPG                      | Diesel                   | LPG                      |
|                      | 1.4  | Operator type                                                         |                 |                 |  | Rider seated             | Rider seated             | Rider seated             | Rider seated             |
|                      | 1.5  | Load capacity/rated load                                              | Q               | kg              |  | 4000 (3500)              | 4000 (3500)              | 4500 (4000)              | 4500 (4000)              |
|                      | 1.6  | Load centre                                                           | c               | mm              |  | 500 (600)                | 500 (600)                | 500 (600)                | 500 (600)                |
|                      | 1.8  | Load distance, centre of drive axle to fork                           | x               | mm              |  | 505                      | 505                      | 505                      | 505                      |
|                      | 1.9  | Wheelbase                                                             | y               | mm              |  | 1900                     | 1900                     | 1900                     | 1900                     |
| Weight               | 2.1  | Service weight                                                        |                 | kg              |  | 5780                     | 5700                     | 6150                     | 6070                     |
|                      | 2.2  | Axle load, with load, front/rear                                      |                 | kg              |  | 8690/1090<br>(8110/1170) | 8670/1030<br>(8090/1110) | 9380/1270<br>(8830/1320) | 9360/1210<br>(8810/1260) |
|                      | 2.3  | Axle load, without load, front/rear                                   |                 | kg              |  | 2570/3210                | 2550/3150                | 2500/3650                | 2480/3590                |
| Tyres                | 3.1  | Tyre - pneumatic (P), pneumatic shaped cushion (SE), solid rubber (R) |                 |                 |  | P                        | P                        | P                        | P                        |
|                      | 3.2  | Tyre size, front                                                      |                 |                 |  | 250-15-20PR              | 250-15-20PR              | 250-15-20PR              | 250-15-20PR              |
|                      | 3.3  | Tyre size, rear                                                       |                 |                 |  | 7.00-12-14PR             | 7.00-12-14PR             | 7.00-12-14PR             | 7.00-12-14PR             |
|                      | 3.5  | Wheels, number front/rear (x = driven wheels)                         |                 |                 |  | 2x-4x/2                  | 2x-4x/2                  | 2x-4x/2                  | 2x-4x/2                  |
|                      | 3.6  | Track width, front                                                    | b <sub>10</sub> | mm              |  | 1115                     | 1115                     | 1115                     | 1115                     |
|                      | 3.7  | Track width, rear                                                     | b <sub>11</sub> | mm              |  | 1100                     | 1100                     | 1100                     | 1100                     |
|                      |      |                                                                       |                 |                 |  |                          |                          |                          |                          |
| Dimensions           | 4.1  | Tilt of mast/fork carriage forward/backward                           | $\alpha/\beta$  | deg             |  | 6/12                     | 6/12                     | 6/12                     | 6/12                     |
|                      | 4.2  | Height, mast lowered                                                  | h <sub>1</sub>  | mm              |  | 2110                     | 2110                     | 2110                     | 2110                     |
|                      | 4.3  | Free lift                                                             | h <sub>2</sub>  | mm              |  | 110                      | 110                      | 110                      | 110                      |
|                      | 4.4  | Lift                                                                  | h <sub>3</sub>  | mm              |  | 2950                     | 2950                     | 2950                     | 2950                     |
|                      |      | Lift height                                                           | h <sub>23</sub> | mm              |  | 3000                     | 3000                     | 3000                     | 3000                     |
|                      | 4.5  | Height, mast extended                                                 | h <sub>4</sub>  | mm              |  | 4270                     | 4270                     | 4270                     | 4270                     |
|                      | 4.7  | Height of overhead guard (cab)                                        | h <sub>6</sub>  | mm              |  | 2285 *                   | 2285 *                   | 2285 *                   | 2285 *                   |
|                      | 4.8  | Seat height                                                           | h <sub>7</sub>  | mm              |  | 1128                     | 1128                     | 1128                     | 1128                     |
|                      | 4.12 | Coupling height                                                       | h <sub>10</sub> | mm              |  | 420                      | 420                      | 420                      | 420                      |
|                      | 4.19 | Overall length                                                        | l <sub>1</sub>  | mm              |  | 3925                     | 3925                     | 3980                     | 3980                     |
|                      | 4.20 | Length to face of forks                                               | l <sub>2</sub>  | mm              |  | 2925                     | 2925                     | 2980                     | 2980                     |
|                      | 4.21 | Overall width                                                         | b <sub>1</sub>  | mm              |  | 1350                     | 1350                     | 1350                     | 1350                     |
|                      | 4.22 | Fork dimensions                                                       | s/e/l           | mm              |  | 50/150/1000              | 50/150/1000              | 50/150/1000              | 50/150/1000              |
|                      | 4.23 | Fork carriage DIN 15 173, class/type A, B                             |                 |                 |  | IIIA                     | IIIA                     | IIIA                     | IIIA                     |
|                      | 4.24 | Fork-carriage width                                                   | b <sub>3</sub>  | mm              |  | 1170                     | 1170                     | 1170                     | 1170                     |
|                      | 4.31 | Ground clearance, with load, below mast                               | m <sub>1</sub>  | mm              |  | 120                      | 120                      | 120                      | 120                      |
|                      | 4.32 | Ground clearance, centre of wheelbase                                 | m <sub>2</sub>  | mm              |  | 200                      | 200                      | 200                      | 200                      |
|                      | 4.33 | Aisle width for pallets 1000x1200 crossways                           | A <sub>st</sub> | mm              |  | 4315                     | 4315                     | 4365                     | 4365                     |
|                      | 4.34 | Aisle width for pallets 800x1200 lengthways                           | A <sub>st</sub> | mm              |  | 4515                     | 4515                     | 4565                     | 4565                     |
|                      | 4.35 | Turning radius                                                        | W <sub>B</sub>  | mm              |  | 2610                     | 2610                     | 2660                     | 2660                     |
|                      | 4.36 | Internal turning radius                                               | b <sub>13</sub> | mm              |  | 940                      | 940                      | 990                      | 990                      |
| Performance data     | 5.1  | Travel speed, with/without load                                       |                 | km/h            |  | 23/24                    | 23/24                    | 23/24                    | 23/24                    |
|                      | 5.2  | Lift speed, with/without load                                         |                 | m/s             |  | 0,56/0,57                | 0,56/0,57                | 0,56/0,57                | 0,56/0,57                |
|                      | 5.3  | Lowering speed, with/without load                                     |                 | m/s             |  | 0,53/0,48                | 0,53/0,48                | 0,53/0,48                | 0,53/0,48                |
|                      | 5.6  | Max. drawbar pull, with/without load                                  |                 | N               |  | 37400/13500              | 37000/13400              | 37000/13000              | 36000/13000              |
|                      | 5.7  | Gradeability, with load                                               |                 | %               |  | 35                       | 34                       | 30                       | 32                       |
|                      | 5.8  | Max. gradeability, with/without load                                  |                 | %               |  | 45/24                    | 43/24                    | 40/21                    | 42/21                    |
|                      | 5.10 | Service brake                                                         |                 |                 |  | Hydraulic                | Hydraulic                | Hydraulic                | Hydraulic                |
| Combustion engine    | 7.1  | Engine manufacturer/type                                              |                 |                 |  | TOYOTA 1KD               | TOYOTA 1FS               | TOYOTA 1KD               | TOYOTA 1FS               |
|                      | 7.2  | Engine power acc. to ISO 1585                                         |                 | kW              |  | 55 (V)                   | 55 (V)                   | 55 (V)                   | 55 (V)                   |
|                      | 7.3  | Rated speed                                                           |                 | 1/min           |  | 2200                     | 2350                     | 2200                     | 2350                     |
|                      | 7.4  | No. of cylinders/displacement                                         |                 | cm <sup>3</sup> |  | 4/2982                   | 4/3685                   | 4/2982                   | 4/3685                   |
|                      | 7.5a | Fuel consumption according to EN16796                                 |                 | l/h             |  | 3,8                      | —                        | 4,1                      | —                        |
|                      | 7.5b | Fuel consumption according to EN16796                                 |                 | kg/h            |  | —                        | 3,7                      | —                        | 4,0                      |
|                      |      |                                                                       |                 |                 |  |                          |                          |                          |                          |
| Other                | 8.2  | Operating pressure for attachments                                    |                 | bar             |  | 185                      | 185                      | 185                      | 185                      |
|                      | 8.3  | Oil volume for attachments                                            |                 | l/min           |  | 128                      | 128                      | 128                      | 128                      |
|                      | 8.4  | Sound level at the driver's ear according to EN 12 053                |                 | dB(A)           |  | 77                       | 80                       | 77                       | 80                       |

\* Height of overhead guard for containers available (2210 mm).

Data in ( ) applicable for 600 mm LC.

Performance data and dimensions are nominal and subject to tolerances.

Specifications are subject to change without notice.

Please obtain the latest specifications before contracting products.

# Mast dimensions and rated capacities

| Model       |                                     |          | V    |      |      |      |      |      |  | FV   |      |      |      |      | FSV  |      |      |      |      |      |      |  |
|-------------|-------------------------------------|----------|------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|------|------|------|------|--|
| 8FG/D35,40F | Lift height                         | $h_{23}$ | 3000 | 3300 | 3700 | 4000 | 4500 | 5000 |  | 3000 | 3300 | 3500 | 3700 | 4000 | 4000 | 4300 | 4500 | 4700 | 5000 | 5500 | 6000 |  |
|             | Lift                                | $h_3$    | 2950 | 3250 | 3650 | 3950 | 4450 | 4950 |  | 2950 | 3250 | 3450 | 3650 | 3950 | 3950 | 4250 | 4450 | 4650 | 4950 | 5450 | 5950 |  |
|             | Height, mast lowered                | $h_1$    | 2110 | 2290 | 2490 | 2740 | 2990 | 3240 |  | 2110 | 2290 | 2390 | 2490 | 2740 | 2110 | 2160 | 2225 | 2290 | 2390 | 2540 | 2740 |  |
|             | Height, mast extended <sup>1)</sup> | $h_4$    | 3850 | 4150 | 4550 | 4850 | 5350 | 5850 |  | 3880 | 4180 | 4380 | 4580 | 4880 | 4880 | 5180 | 5380 | 5580 | 5880 | 6380 | 6880 |  |
|             | Height, mast extended <sup>2)</sup> | $h_4$    | 4270 | 4570 | 4970 | 5270 | 5770 | 6270 |  | 4270 | 4570 | 4770 | 4970 | 5270 | 5270 | 5570 | 5770 | 5970 | 6270 | 6770 | 7270 |  |
|             | Free lift, without load backrest    | $h_2$    | 110  | 110  | 110  | 110  | 110  | 110  |  | 1280 | 1460 | 1560 | 1660 | 1910 | 1280 | 1330 | 1395 | 1460 | 1560 | 1710 | 1910 |  |
|             | Free lift, with load backrest       | $h_2$    | 110  | 110  | 110  | 110  | 110  | 110  |  | 890  | 1070 | 1170 | 1270 | 1520 | 890  | 940  | 1005 | 1070 | 1170 | 1320 | 1520 |  |

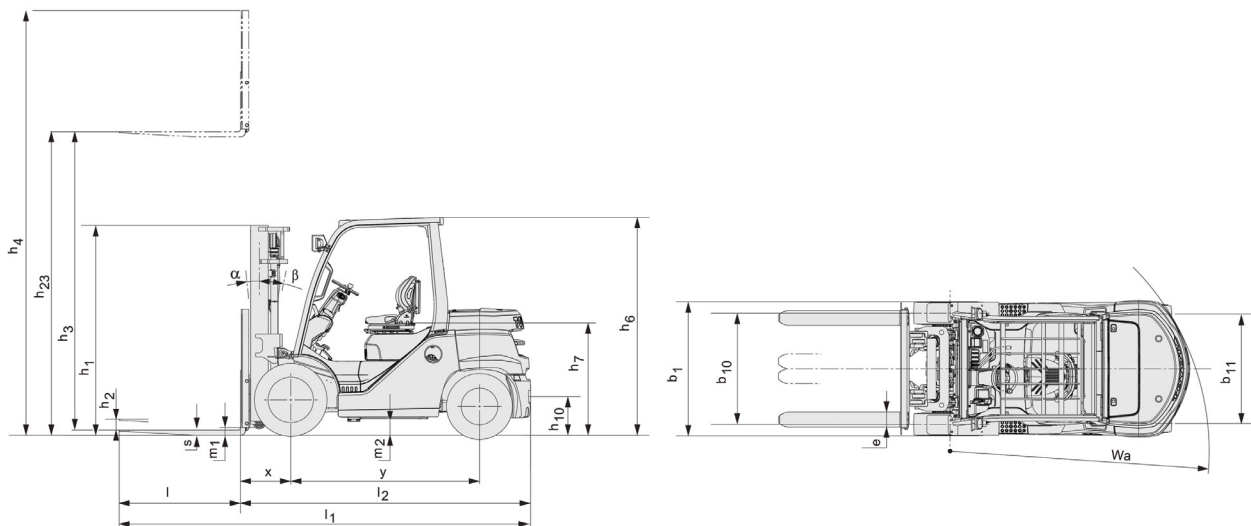
1) Without load backrest.

2) With load backrest; Height of standard load backrest is 1220 mm

| Single tyre |                            |     | V      |        |        |        |        |       |  | FV     |        |        |        |        | FSV  |      |      |      |      |      |      |  |
|-------------|----------------------------|-----|--------|--------|--------|--------|--------|-------|--|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|--|
| 8FG/D35F    | Tilt range, forward        | deg | 6      | 6      | 6      | 6      | 6      | 6     |  | 6      | 6      | 6      | 6      | 6      | 6    | 6    | 6    | 6    | 6    | 6    | 6    |  |
|             | Tilt range, backward       | deg | 12 [6] | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 6 [6] |  | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 6    | 6    | 6    | 6    | 6    | 6    | 6    |  |
|             | Load capacity at 500 mm LC | kg  | 4000   | 4000   | 4000   | 4000   | 4000   | 3800  |  | 4000   | 4000   | 4000   | 4000   | 4000   | 4000 | 3800 | 3700 | 3700 | 3600 | 3000 | 2200 |  |
|             | Load capacity at 600 mm LC | kg  | 3500   | 3500   | 3500   | 3500   | 3500   | 3500  |  | 3500   | 3500   | 3500   | 3500   | 3500   | 3500 | 3500 | 3500 | 3500 | 3400 | 2800 | 2100 |  |
| 8FG/D40F    | Tilt range, forward        | deg | 6      | 6      | 6      | 6      | 6      | 6     |  | 6      | 6      | 6      | 6      | 6      | 6    | 6    | 6    | 6    | 6    | 6    | 6    |  |
|             | Tilt range, backward       | deg | 12 [6] | 12 [8] | 12 [8] | 12 [8] | 6 [6]  | 6 [6] |  | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 6    | 6    | 6    | 6    | 6    | 6    | 6    |  |
|             | Load capacity at 500 mm LC | kg  | 4500   | 4500   | 4500   | 4500   | 4500   | 4200  |  | 4500   | 4500   | 4500   | 4500   | 4500   | 4500 | 4500 | 4500 | 4500 | 4400 | 3500 | 2700 |  |
|             | Load capacity at 600 mm LC | kg  | 4000   | 4000   | 4000   | 4000   | 4000   | 4000  |  | 4000   | 4000   | 4000   | 4000   | 4000   | 4000 | 4000 | 4000 | 4000 | 4000 | 3500 | 2700 |  |

| Dual tyre |                            |     | V      |        |        |        |        |        |  | FV     |        |        |        |        | FSV  |      |      |      |      |      |      |  |
|-----------|----------------------------|-----|--------|--------|--------|--------|--------|--------|--|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|--|
| 8FG/D35F  | Tilt range, forward        | deg | 6      | 6      | 6      | 6      | 6      | 6      |  | 6      | 6      | 6      | 6      | 6      | 6    | 6    | 6    | 6    | 6    | 6    | 6    |  |
|           | Tilt range, backward       | deg | 12 [6] | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 12 [8] |  | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 6    | 6    | 6    | 6    | 6    | 6    | 6    |  |
|           | Load capacity at 500 mm LC | kg  | 4000   | 4000   | 4000   | 4000   | 4000   | 3800   |  | 4000   | 4000   | 4000   | 4000   | 4000   | 4000 | 3800 | 3700 | 3700 | 3600 | 3500 | 3400 |  |
|           | Load capacity at 600 mm LC | kg  | 3500   | 3500   | 3500   | 3500   | 3500   | 3500   |  | 3500   | 3500   | 3500   | 3500   | 3500   | 3500 | 3500 | 3500 | 3500 | 3400 | 3300 | 3200 |  |
| 8FG/D40F  | Tilt range, forward        | deg | 6      | 6      | 6      | 6      | 6      | 6      |  | 6      | 6      | 6      | 6      | 6      | 6    | 6    | 6    | 6    | 6    | 6    | 6    |  |
|           | Tilt range, backward       | deg | 12 [6] | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 12 [8] |  | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 6    | 6    | 6    | 6    | 6    | 6    | 6    |  |
|           | Load capacity at 500 mm LC | kg  | 4500   | 4500   | 4500   | 4500   | 4500   | 4400   |  | 4500   | 4500   | 4500   | 4500   | 4500   | 4500 | 4500 | 4500 | 4500 | 4400 | 4200 | 3300 |  |
|           | Load capacity at 600 mm LC | kg  | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   |  | 4000   | 4000   | 4000   | 4000   | 4000   | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 3300 |  |

[ ] = value when selecting H35F and H00H/H02I



# Engine powered forklifts 4.5 - 5.0 ton

| Truck specifications |      |                                                                       |                 |                 | 8FD45F                 | 8FG45F                 | 8FD50F        | 8FG50F        |
|----------------------|------|-----------------------------------------------------------------------|-----------------|-----------------|------------------------|------------------------|---------------|---------------|
| Identification       | 1.1  | Manufacturer                                                          |                 |                 | TOYOTA                 | TOYOTA                 | TOYOTA        | TOYOTA        |
|                      | 1.2  | Model                                                                 |                 |                 | 8FD45F                 | 8FG45F                 | 8FD50F        | 8FG50F        |
|                      | 1.3  | Drive                                                                 |                 |                 | Diesel                 | LPG                    | Diesel        | LPG           |
|                      | 1.4  | Operator type                                                         |                 |                 | Rider seated           | Rider seated           | Rider seated  | Rider seated  |
|                      | 1.5  | Load capacity/rated load                                              | Q               | kg              | 4990 (4500)            | 4990 (4500)            | 5000          | 5000          |
|                      | 1.6  | Load centre                                                           | c               | mm              | 500 (600)              | 500 (600)              | 600           | 600           |
|                      | 1.8  | Load distance, centre of drive axle to fork                           | x               | mm              | 545                    | 545                    | 555           | 555           |
|                      | 1.9  | Wheelbase                                                             | y               | mm              | 2000                   | 2000                   | 2000          | 2000          |
| Weight               | 2.1  | Service weight                                                        |                 | kg              | 6690                   | 6610                   | 7220          | 7140          |
|                      | 2.2  | Axle load, with load, front/rear                                      |                 | kg              | 10450/1230 (9920/1270) | 10430/1170 (9900/1210) | 10910/1310    | 10880/1260    |
|                      | 2.3  | Axle load, without load, front/rear                                   |                 | kg              | 2850/3840              | 2830/3780              | 3030/4190     | 3000/4140     |
| Tyres                | 3.1  | Tyre - pneumatic (P), pneumatic shaped cushion (SE), solid rubber (R) |                 |                 | P                      | P                      | P             | P             |
|                      | 3.2  | Tyre size, front                                                      |                 |                 | 300-15-20-PR           | 300-15-20-PR           | 300-15-20PR   | 300-15-20PR   |
|                      | 3.3  | Tyre size, rear                                                       |                 |                 | 7.00-12-14PR           | 7.00-12-14PR           | 7.00-12-14-PR | 7.00-12-14-PR |
|                      | 3.5  | Wheels, number front/rear (x = driven wheels)                         |                 |                 | 2x-4x/2                | 2x-4x/2                | 2x-4x/2       | 2x-4x/2       |
|                      | 3.6  | Track width, front                                                    | b <sub>10</sub> | mm              | 1115                   | 1115                   | 1115          | 1115          |
|                      | 3.7  | Track width, rear                                                     | b <sub>11</sub> | mm              | 1100                   | 1100                   | 1100          | 1100          |
|                      |      |                                                                       |                 |                 |                        |                        |               |               |
| Dimensions           | 4.1  | Tilt of mast/fork carriage forward/backward                           | $\alpha/\beta$  | deg             | 6/12                   | 6/12                   | 6/12          | 6/12          |
|                      | 4.2  | Height, mast lowered                                                  | h <sub>1</sub>  | mm              | 2200                   | 2200                   | 2450          | 2450          |
|                      | 4.3  | Free lift                                                             | h <sub>2</sub>  | mm              | 110                    | 110                    | 120           | 120           |
|                      | 4.4  | Lift                                                                  | h <sub>3</sub>  | mm              | 2950                   | 2950                   | 2950          | 2940          |
|                      |      | Lift height                                                           | h <sub>23</sub> | mm              | 3000                   | 3000                   | 3000          | 3000          |
|                      | 4.5  | Height, mast extended                                                 | h <sub>4</sub>  | mm              | 4270                   | 4270                   | 4435          | 4435          |
|                      | 4.7  | Height of overhead guard (cab)                                        | h <sub>6</sub>  | mm              | 2375 *                 | 2375 *                 | 2375 *        | 2375 *        |
|                      | 4.8  | Seat height/stand height                                              | h <sub>7</sub>  | mm              | 1223                   | 1223                   | 1223          | 1223          |
|                      | 4.12 | Coupling height                                                       | h <sub>10</sub> | mm              | 420                    | 420                    | 420           | 420           |
|                      | 4.19 | Overall length                                                        | l <sub>1</sub>  | mm              | 4110                   | 4110                   | 4370          | 4370          |
|                      | 4.20 | Length to face of forks                                               | l <sub>2</sub>  | mm              | 3110                   | 3110                   | 3170          | 3170          |
|                      | 4.21 | Overall width                                                         | b <sub>1</sub>  | mm              | 1450                   | 1450                   | 1450          | 1450          |
|                      | 4.22 | Fork dimensions                                                       | s/e/l           | mm              | 50/150/1000            | 50/150/1000            | 60/150/1200   | 60/150/1200   |
|                      | 4.23 | Fork carriage DIN 15 173, class/type A, B                             |                 |                 | IIIA                   | IIIA                   | IVA           | IVA           |
|                      | 4.24 | Fork-carriage width                                                   | b <sub>3</sub>  | mm              | 1170                   | 1170                   | 1170          | 1170          |
|                      | 4.31 | Ground clearance, with load, below mast                               | m <sub>1</sub>  | mm              | 120                    | 120                    | 120           | 120           |
|                      | 4.32 | Ground clearance, centre of wheelbase                                 | m <sub>2</sub>  | mm              | 230                    | 230                    | 230           | 230           |
|                      | 4.33 | Aisle width for pallets 1000x1200 crossways                           | A <sub>st</sub> | mm              | 4495                   | 4495                   | 4565          | 4565          |
|                      | 4.34 | Aisle width for pallets 800x1200 lengthways                           | A <sub>st</sub> | mm              | 4695                   | 4695                   | 4765          | 4765          |
|                      | 4.35 | Turning radius                                                        | W <sub>B</sub>  | mm              | 2750                   | 2750                   | 2810          | 2810          |
|                      | 4.36 | Internal turning radius                                               | b <sub>13</sub> | mm              | 1045                   | 1045                   | 1030          | 1030          |
| Performance data     | 5.1  | Travel speed, with/without load                                       |                 | km/h            | 23,5/24                | 23,5/24                | 23,5/24       | 23,5/24       |
|                      | 5.2  | Lift speed, with/without load                                         |                 | m/s             | 0,48/0,50              | 0,48/0,50              | 0,48/0,50     | 0,48/0,50     |
|                      | 5.3  | Lowering speed, with/without load                                     |                 | m/s             | 0,54/0,49              | 0,54/0,49              | 0,54/0,49     | 0,54/0,49     |
|                      | 5.6  | Max. drawbar pull, with/without load                                  |                 | N               | 37000/15000            | 36000/15000            | 37000/16000   | 36000/16000   |
|                      | 5.7  | Gradeability, with load                                               |                 | %               | 28                     | 30                     | 25            | 23            |
|                      | 5.8  | Max. gradeability, with/without load                                  |                 | %               | 36/22                  | 38/22                  | 32/22         | 31/22         |
|                      | 5.10 | Service brake                                                         |                 |                 | Hydraulic              | Hydraulic              | Hydraulic     | Hydraulic     |
| Combustion engine    | 7.1  | Engine manufacturer/type                                              |                 |                 | TOYOTA 1KD             | TOYOTA 1FS             | TOYOTA 1KD    | TOYOTA 1FS    |
|                      | 7.2  | Engine power acc. to ISO 1585                                         |                 | kW              | 55 (V)                 | 55 (V)                 | 55 (V)        | 55 (V)        |
|                      | 7.3  | Rated speed                                                           |                 | 1/min           | 2200                   | 2350                   | 2200          | 2350          |
|                      | 7.4  | No. of cylinders/displacement                                         |                 | cm <sup>3</sup> | 4/2982                 | 4/3685                 | 4/2982        | 4/3685        |
|                      | 7.5a | Fuel consumption according to EN16796                                 |                 | l/h             | 4,4                    | —                      | 4,7           | —             |
|                      | 7.5b | Fuel consumption according to EN16796                                 |                 | kg/h            | —                      | 4,4                    | —             | 4,6           |
|                      |      |                                                                       |                 |                 |                        |                        |               |               |
| Other                | 8.2  | Operating pressure for attachments                                    |                 | bar             | 185                    | 185                    | 185           | 185           |
|                      | 8.3  | Oil volume for attachments                                            |                 | l/min           | 128                    | 128                    | 128           | 128           |
|                      | 8.4  | Sound level at the driver's ear according to EN 12 053                |                 | dB(A)           | 77                     | 80                     | 77            | 80            |

\* Height of overhead guard for containers available (2200 mm).

Data in ( ) applicable for 600 mm LC.

Performance data and dimensions are nominal and subject to tolerances.

Specifications are subject to change without notice.

Please obtain the latest specifications before contracting products.

# Mast dimensions and rated capacities

| Model    |                                     |          | V    |      |      |      |      |      | FV   |      |      |      |      | FSV |      |      |      |      |      |      |      |
|----------|-------------------------------------|----------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 8FG/D45F | Lift height                         | $h_{23}$ | 3000 | 3300 | 3700 | 4000 | 4500 | 5000 | 3000 | 3300 | 3500 | 3700 | 4000 | —   | 4000 | 4300 | 4500 | 4700 | 5000 | 5500 | 6000 |
|          | Lift                                | $h_3$    | 2950 | 3250 | 3650 | 3950 | 4450 | 4950 | 2950 | 3250 | 3450 | 3650 | 3950 | —   | 3950 | 4250 | 4450 | 4650 | 4950 | 5450 | 5950 |
|          | Height, mast lowered                | $h_1$    | 2200 | 2350 | 2600 | 2800 | 3050 | 3300 | 2200 | 2350 | 2450 | 2600 | 2800 | —   | 2120 | 2200 | 2270 | 2350 | 2450 | 2600 | 2800 |
|          | Height, mast extended <sup>1)</sup> | $h_4$    | 3690 | 3990 | 4420 | 4770 | 5270 | 5770 | 3740 | 4040 | 4240 | 4440 | 4740 | —   | 4740 | 5045 | 5240 | 5440 | 5740 | 6240 | 6740 |
|          | Height, mast extended <sup>2)</sup> | $h_4$    | 4270 | 4570 | 4970 | 5270 | 5770 | 6270 | 4270 | 4570 | 4910 | 4970 | 5270 | —   | 5270 | 5570 | 5770 | 5970 | 6270 | 6770 | 7270 |
|          | Free lift, without load backrest    | $h_2$    | 110  | 110  | 110  | 110  | 110  | 110  | 1510 | 1660 | 1760 | 1910 | 2110 | —   | 1430 | 1510 | 1580 | 1660 | 1760 | 1910 | 2110 |
|          | Free lift, with load backrest       | $h_2$    | 110  | 110  | 110  | 110  | 110  | 110  | 980  | 1130 | 1230 | 1380 | 1580 | —   | 900  | 980  | 1030 | 1130 | 1230 | 1380 | 1580 |

1) Without load backrest

2) With load backrest; Height of standard load backrest is 1220 mm

| Model    |                                     |          | V    |      |      |      |      |      | FV |   |   |   |   | FSV  |      |      |   |      |      |      |      |
|----------|-------------------------------------|----------|------|------|------|------|------|------|----|---|---|---|---|------|------|------|---|------|------|------|------|
| 8FG/D50F | Lift height                         | $h_{23}$ | 3000 | 3300 | 3700 | 4000 | 4500 | 5000 | —  | — | — | — | — | 3700 | 4000 | 4300 | — | 4700 | 5000 | 5500 | 6000 |
|          | Lift                                | $h_3$    | 2940 | 3240 | 3640 | 3940 | 4440 | 4940 | —  | — | — | — | — | 3640 | 3940 | 4240 | — | 4640 | 4940 | 5440 | 5940 |
|          | Height, mast lowered                | $h_1$    | 2450 | 2600 | 2800 | 3050 | 3300 | 3550 | —  | — | — | — | — | 2200 | 2270 | 2350 | — | 2450 | 2600 | 2800 | 3050 |
|          | Height, mast extended <sup>1)</sup> | $h_4$    | 3920 | 4220 | 4620 | 5020 | 5520 | 6020 | —  | — | — | — | — | 4635 | 4935 | 5235 | — | 5635 | 5935 | 6435 | 6935 |
|          | Height, mast extended <sup>2)</sup> | $h_4$    | 4435 | 4735 | 5135 | 5435 | 5935 | 6435 | —  | — | — | — | — | 5135 | 5435 | 5735 | — | 6135 | 6435 | 6935 | 7435 |
|          | Free lift, without load backrest    | $h_2$    | 125  | 125  | 125  | 125  | 125  | 125  | —  | — | — | — | — | 1330 | 1400 | 1480 | — | 1580 | 1730 | 1930 | 2180 |
|          | Free lift, with load backrest       | $h_2$    | 125  | 125  | 125  | 125  | 125  | 125  | —  | — | — | — | — | 830  | 900  | 980  | — | 1080 | 1230 | 1430 | 1680 |

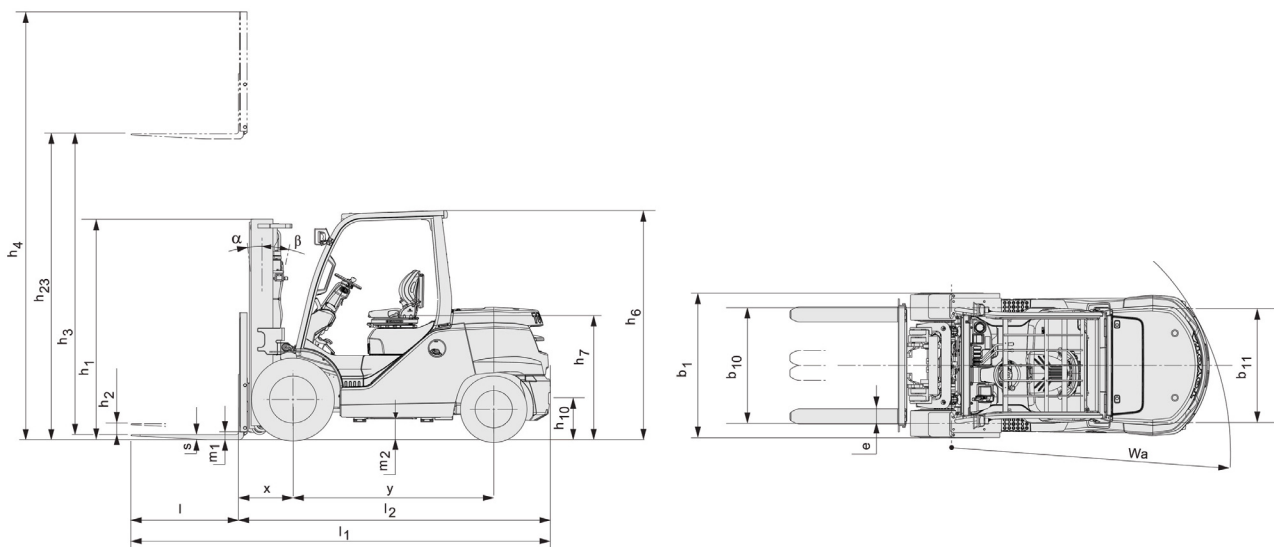
1) Without load backrest.

2) With load backrest; Height of standard load backrest is 1370 mm

| Single tyre |                            |     | V      |        |        |        |       |             | FV     |        |        |         |         | FSV  |      |      |      |      |      |      |      |
|-------------|----------------------------|-----|--------|--------|--------|--------|-------|-------------|--------|--------|--------|---------|---------|------|------|------|------|------|------|------|------|
| 8FG/D45F    | Tilt range, forward        | deg | 6      | 6      | 6      | 6      | 6     | 6           | 6      | 6      | 6      | 6       | 6       | —    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
|             | Tilt range, backward       | deg | 12 [6] | 12 [8] | 12 [8] | 12 [8] | 6 [6] | 6 [6]       | 12 [8] | 12 [8] | 12 [8] | 12 [10] | 12 [10] | —    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
|             | Load capacity at 500 mm LC | kg  | 4990   | 4990   | 4990   | 4990   | 4990  | 4000        | 4990   | 4990   | 4990   | 4990    | 4990    | —    | 4990 | 4900 | 4500 | 4500 | 4000 | 3000 | 2300 |
|             | Load capacity at 600 mm LC | kg  | 4500   | 4500   | 4500   | 4500   | 4500  | 4000 (4100) | 4500   | 4500   | 4500   | 4500    | 4500    | —    | 4500 | 4500 | 4200 | 4200 | 4000 | 3000 | 2300 |
| 8FG/D50F    | Tilt range, forward        | deg | 6      | 6      | 6      | 6      | 6     | 6           | —      | —      | —      | —       | —       | 6    | 6    | 6    | —    | 6    | 6    | 6    | 6    |
|             | Tilt range, backward       | deg | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 6 [6] | 6 [6]       | —      | —      | —      | —       | —       | 6    | 6    | 6    | —    | 6    | 6    | 6    | 6    |
|             | Load capacity at 600 mm LC | kg  | 5000   | 5000   | 5000   | 5000   | 5000  | 4000 (4150) | —      | —      | —      | —       | —       | 5000 | 4900 | 4800 | —    | 4300 | 4100 | 3100 | 2400 |

| Dual tyre |                            |     | V      |        |        |        |        |        | FV     |        |        |         |         | FSV  |      |      |      |      |      |      |      |
|-----------|----------------------------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|------|------|------|------|------|------|------|------|
| 8FG/D45F  | Tilt range, forward        | deg | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6       | 6       | —    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
|           | Tilt range, backward       | deg | 12 [6] | 12 [8] | 12 [8] | 12 [8] | 12 [6] | 12 [6] | 12 [8] | 12 [8] | 12 [8] | 12 [10] | 12 [10] | —    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
|           | Load capacity at 500 mm LC | kg  | 4990   | 4990   | 4990   | 4990   | 4990   | 4600   | 4990   | 4990   | 4990   | 4990    | 4990    | —    | 4990 | 4900 | 4700 | 4700 | 4600 | 4400 | 4200 |
|           | Load capacity at 600 mm LC | kg  | 4500   | 4500   | 4500   | 4500   | 4500   | 4400   | 4500   | 4500   | 4500   | 4500    | 4500    | —    | 4500 | 4500 | 4400 | 4400 | 4300 | 4100 | 3900 |
| 8FG/D50F  | Tilt range, forward        | deg | 6      | 6      | 6      | 6      | 6      | 6      | —      | —      | —      | —       | —       | 6    | 6    | 6    | —    | 6    | 6    | 6    | 6    |
|           | Tilt range, backward       | deg | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 12 [8] | 12 [8] | —      | —      | —      | —       | —       | 6    | 6    | 6    | —    | 6    | 6    | 6    | 6    |
|           | Load capacity at 600 mm LC | kg  | 5000   | 5000   | 5000   | 5000   | 5000   | 4800   | —      | —      | —      | —       | —       | 5000 | 4900 | 4800 | —    | 4600 | 4500 | 4300 | 4100 |

[ ] = value when selecting H35F and H00H/H02I



# Engine powered forklifts 6.0 - 7.0 ton

| Truck specifications |      |                                                                        |                 |                   |  | 8FG60F        | 8FD60F        | 8FG70F        | 8FD70F        |
|----------------------|------|------------------------------------------------------------------------|-----------------|-------------------|--|---------------|---------------|---------------|---------------|
| Identification       | 1.1  | Manufacturer                                                           |                 |                   |  | Toyota        | Toyota        | Toyota        | Toyota        |
|                      | 1.2  | Model                                                                  |                 |                   |  | 8FG60F        | 8FD60F        | 8FG70F        | 8FD70F        |
|                      | 1.3  | Drive                                                                  |                 |                   |  | LPG           | Diesel        | LPG           | Diesel        |
|                      | 1.4  | Operator type                                                          |                 |                   |  | Driver seated | Driver seated | Driver seated | Driver seated |
|                      | 1.5  | Load capacity/rated load                                               | Q               | kg                |  | 6000          | 6000          | 7000          | 7000          |
|                      | 1.6  | Load centre                                                            | c               | mm                |  | 600           | 600           | 600           | 600           |
|                      | 1.8  | Load distance, centre of drive axle to fork                            | x               | mm                |  | 580           | 580           | 585           | 585           |
|                      | 1.9  | Wheelbase                                                              | y               | mm                |  | 2250          | 2250          | 2250          | 2250          |
| Weight               | 2.1  | Service weight                                                         |                 | kg                |  | 8370          | 8360          | 9030          | 9090          |
|                      | 2.2  | Axle load with load, front/rear                                        |                 | kg                |  | 12900/1470    | 12850/1510    | 14300/1730    | 14330/1760    |
|                      | 2.3  | Axle load without load, front/rear                                     |                 | kg                |  | 3750/4620     | 3715/4675     | 3610/5420     | 3640/5450     |
| Tyres                | 3.1  | Tyres - Pneumatic (P),Pneumatic shaped cushion (PSC), Solid rubber (R) |                 |                   |  | P             | P             | P             | P             |
|                      | 3.2  | Tyre size, front                                                       |                 |                   |  | 8.25-15-14PR  | 8.25-15-14PR  | 8.25-15-14PR  | 8.25-15-14PR  |
|                      | 3.3  | Tyre size, rear                                                        |                 |                   |  | 8.25-15-14PR  | 8.25-15-14PR  | 8.25-15-14PR  | 8.25-15-14PR  |
|                      | 3.5  | Wheels, number front/rear (x = driven)                                 |                 |                   |  | 4x/2          | 4x/2          | 4x/2          | 4x/2          |
|                      | 3.6  | Track width, front                                                     | b <sub>10</sub> | mm                |  | 1440          | 1440          | 1440          | 1440          |
|                      | 3.7  | Track width, rear                                                      | b <sub>11</sub> | mm                |  | 1460          | 1460          | 1460          | 1460          |
| Dimensions           | 4.1  | Tilt of mast/fork carriage forward/backward                            | a/b             | deg               |  | 6/12          | 6/12          | 6/12          | 6/12          |
|                      | 4.2  | Height, mast lowered                                                   | h <sub>1</sub>  | mm                |  | 2460          | 2460          | 2460          | 2460          |
|                      | 4.3  | Free lift                                                              | h <sub>2</sub>  | mm                |  | 125           | 125           | 125           | 125           |
|                      | 4.4  | Lift                                                                   | h <sub>3</sub>  | mm                |  | 2940          | 2940          | 2935          | 2935          |
|                      |      | Lift height                                                            | h <sub>23</sub> | mm                |  | 3000          | 3000          | 3000          | 3000          |
|                      | 4.5  | Height, mast extended                                                  | h <sub>4</sub>  | mm                |  | 4435          | 4435          | 4435          | 4435          |
|                      | 4.7  | Height of overhead guard (cab) <sup>1)</sup>                           | h <sub>6</sub>  | mm                |  | 2385          | 2385          | 2385          | 2385          |
|                      | 4.8  | Seat height                                                            | h <sub>7</sub>  | mm                |  | 1128          | 1128          | 1128          | 1128          |
|                      | 4.12 | Coupling height                                                        | h <sub>10</sub> | mm                |  | 485           | 485           | 485           | 485           |
|                      | 4.19 | Overall length                                                         | l <sub>1</sub>  | mm                |  | 4690          | 4690          | 4745          | 4745          |
|                      | 4.20 | Length to face of forks                                                | l <sub>2</sub>  | mm                |  | 3490          | 3490          | 3545          | 3545          |
|                      | 4.21 | Overall width                                                          | b <sub>1</sub>  | mm                |  | 1965          | 1965          | 1965          | 1965          |
|                      | 4.22 | Fork dimensions                                                        | s/e/l           | mm                |  | 65/150/1200   | 65/150/1200   | 65/150/1200   | 65/150/1200   |
|                      | 4.23 | Fork carriage DIN 15 173, class/type A, B                              |                 |                   |  | IV A          | IV A          | IV A          | IV A          |
|                      | 4.24 | Fork-carriage width                                                    | b <sub>3</sub>  | mm                |  | 1700          | 1700          | 1700          | 1700          |
|                      | 4.31 | Ground clearance, with load, below mast                                | m <sub>1</sub>  | mm                |  | 125           | 125           | 125           | 125           |
|                      | 4.32 | Ground clearance, centre of wheelbase                                  | m <sub>2</sub>  | mm                |  | 250           | 250           | 250           | 250           |
|                      | 4.33 | Aisle width for pallets 1000x1200 crossways                            | A <sub>st</sub> | mm                |  | 5010          | 5010          | 5065          | 5065          |
|                      | 4.34 | Aisle width for pallets 800x1200 lengthways                            | A <sub>st</sub> | mm                |  | 5210          | 5210          | 5265          | 5295          |
|                      | 4.35 | Turning radius                                                         | W <sub>a</sub>  | mm                |  | 3230          | 3230          | 3280          | 3280          |
|                      | 4.36 | Internal turning radius                                                | b <sub>13</sub> | mm                |  | 930           | 930           | 980           | 980           |
| Performance data     | 5.1  | Travel speed, with/without load                                        |                 | km/h              |  | 19/21         | 19/21         | 19/21         | 19/21         |
|                      | 5.2  | Lift speed, with/without load                                          |                 | m/s               |  | 0,41/0,44     | 0,39/0,42     | 0,41/0,44     | 0,38/0,42     |
|                      | 5.3  | Lowering speed, with/without load                                      |                 | m/s               |  | 0,53/0,48     | 0,53/0,48     | 0,53/0,48     | 0,53/0,48     |
|                      | 5.6  | Max. drawbar pull, with/without load                                   |                 | N                 |  | 46000/20900   | 46000/20500   | 46000/19900   | 45000/19500   |
|                      | 5.7  | Gradeability, with load                                                |                 | %                 |  | 24            | 24            | 21            | 21            |
|                      | 5.8  | Max. gradeability, with/without load <sup>2)</sup>                     |                 | %                 |  | 34/24         | 34/24         | 30/21         | 30/21         |
|                      | 5.10 | Service brake                                                          |                 |                   |  | Hydraulic     | Hydraulic     | Hydraulic     | Hydraulic     |
| Combustion engine    | 7.1  | Engine manufacturer/type                                               |                 |                   |  | Toyota 1FS    | Toyota 1KD    | Toyota 1FS    | Toyota 1KD    |
|                      | 7.2  | Engine power (ISO 1585)                                                |                 | kW                |  | 55 (V)        | 55            | 55 (V)        | 55            |
|                      | 7.3  | Rated speed                                                            |                 | min <sup>-1</sup> |  | 2550          | 2200          | 2550          | 2200          |
|                      | 7.4  | No. of cylinders/displacement                                          |                 | cm <sup>3</sup>   |  | 4/3685        | 4/2982        | 4/3685        | 4/2982        |
|                      | 7.5a | Fuel consumption according to EN16796                                  |                 | l/h               |  |               | 6,0           |               | 6,6           |
|                      | 7.5b | Fuel consumption according to EN16796                                  |                 | kg/h              |  | 5,8           |               | 6,4           |               |
| Other                | 8.2  | Operating pressure for attachments                                     |                 | bar               |  | 210           | 210           | 210           | 210           |
|                      | 8.3  | Oil volume for attachments                                             |                 | l/min             |  | 128           | 128           | 128           | 128           |
|                      | 8.4  | Sound level at the driver's ear according to EN 12 053                 |                 | dB(A)             |  | 80            | 79            | 80            | 79            |

1) Overhead guard dimensions reflected in the specification sheet are based on optional overhead guard (+75mm) TMHE recommends this optional height for trucks sold in Europe for reasons of additional comfort for majority of European drivers.

2) Computed values.

Performance data and dimensions are nominal and subject to tolerances.

Specifications are subject to change without notice.

Please obtain the latest specifications before contracting products.

## Mast dimensions and rated capacities

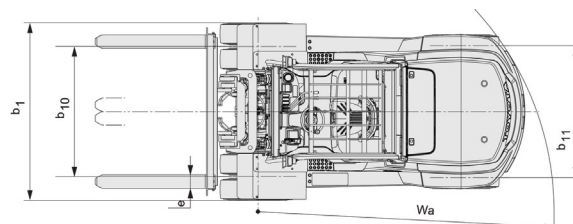
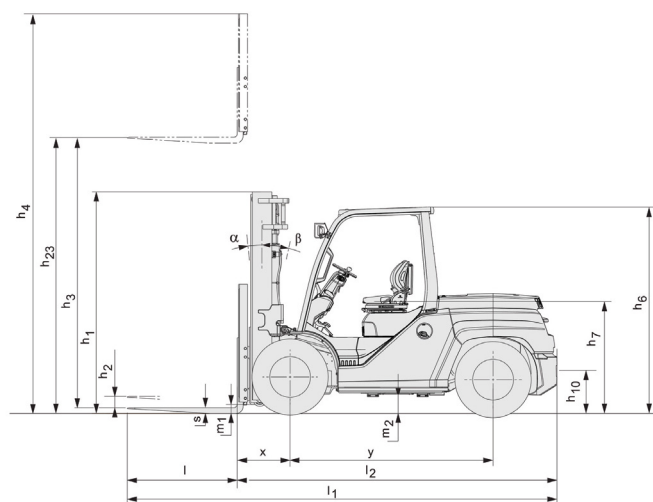
| Model     |                                     |          | V    |      |      |      |      |      |      |      | FSV  |      |      |      |      |      |
|-----------|-------------------------------------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 8FG(FD60F | Lift height                         | $h_{23}$ | 3000 | 3300 | 3500 | 3700 | 4000 | 4500 | 5000 | 5500 | 6000 | 4000 | 4300 | 4700 | 5000 | 6000 |
|           | Lift                                | $h_3$    | 2940 | 3240 | 3440 | 3640 | 3940 | 4440 | 4940 | 5440 | 5940 | 3940 | 4240 | 4640 | 4940 | 5940 |
|           | Height, mast lowered                | $h_1$    | 2460 | 2610 | 2710 | 2810 | 3060 | 3310 | 3560 | 3810 | 4060 | 2360 | 2460 | 2550 | 2810 | 3110 |
|           | Height, mast extended <sup>1)</sup> | $h_4$    | 3980 | 4280 | 4480 | 4680 | 5030 | 5530 | 6030 | 6530 | 7030 | 5060 | 5360 | 5750 | 6160 | 7110 |
|           | Height, mast extended <sup>2)</sup> | $h_4$    | 4435 | 4735 | 4935 | 5135 | 5435 | 5935 | 6435 | 6935 | 7435 | 5435 | 5735 | 6135 | 6435 | 7435 |
|           | Free lift, without load backrest    | $h_2$    | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 1365 | 1465 | 1565 | 1715 | 2065 |
|           | Free lift, with load backrest       | $h_3$    | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 990  | 1090 | 1180 | 1440 | 1740 |

| Model   |                                     |          | V    |      |      |      |      |      |      |      |      | FSV  |      |      |      |      |  |
|---------|-------------------------------------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| 8FG/70F | Lift height                         | $h_{23}$ | 3000 | 3300 | 3500 | 3700 | 4000 | 4500 | 5000 | 5500 | 6000 | 4000 | 4300 | 4700 | 5000 | 6000 |  |
|         | Lift                                | $h_3$    | 2935 | 3235 | 3435 | 3635 | 3935 | 4435 | 4935 | 5435 | 5935 | 3935 | 4235 | 4635 | 4935 | 5935 |  |
|         | Height, mast lowered                | $h_1$    | 2460 | 2610 | 2710 | 2810 | 3060 | 3310 | 3560 | 3810 | 4060 | 2360 | 2460 | 2550 | 2810 | 3110 |  |
|         | Height, mast extended <sup>1)</sup> | $h_4$    | 3980 | 4280 | 4480 | 4680 | 5030 | 5530 | 6030 | 6530 | 7030 | 5060 | 5360 | 5750 | 6160 | 7110 |  |
|         | Height, mast extended <sup>2)</sup> | $h_4$    | 4435 | 4735 | 4935 | 5135 | 5435 | 5935 | 6435 | 6935 | 7435 | 5435 | 5735 | 6135 | 6435 | 7435 |  |
|         | Free lift, without load backrest    | $h_2$    | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 1365 | 1465 | 1565 | 1715 | 2065 |  |
|         | Free lift, with load backrest       | $h_3$    | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 125  | 990  | 1090 | 1180 | 1440 | 1740 |  |

1) Without load backrest.

2) With load backrest: Height of standard load backrest is 1370 mm.

| Dual tyre |                            |     | V    |      |      |      |      |      |      |      |      | FSV  |      |      |      |      |
|-----------|----------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 8FG/D60F  | Tilt range, forward        | deg | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |      |
|           | Tilt range, Backward       | deg | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 2    | 12   | 6    | 6    | 6    | 6    |      |
|           | Load capacity at 600 mm LC | kg  | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 5700 | 6000 | 5820 | 5620 | 5500 | 5200 |
| 8FG/D70F  | Tilt range, forward        | deg | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |      |
|           | Tilt range, Backward       | deg | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 2    | 12   | 6    | 6    | 6    | 6    | 6    |
|           | Load capacity at 600 mm LC | kg  | 7000 | 7000 | 7000 | 7000 | 7000 | 7000 | 7000 | 6700 | 6500 | 7000 | 6730 | 6700 | 6700 | 5700 |



# Engine powered forklifts 8.0 ton

| Truck specifications |      |                                                                       |                 |                   |  | 8FG80F        | 8FD80F        |
|----------------------|------|-----------------------------------------------------------------------|-----------------|-------------------|--|---------------|---------------|
| Identification       | 1.1  | Manufacturer                                                          |                 |                   |  | Toyota        | Toyota        |
|                      | 1.2  | Model                                                                 |                 |                   |  | 8FG80F        | 8FD80F        |
|                      | 1.3  | Drive                                                                 |                 |                   |  | LPG           | Diesel        |
|                      | 1.4  | Operator type                                                         |                 |                   |  | Driver seated | Driver seated |
|                      | 1.5  | Load capacity/rated load                                              | Q               | kg                |  | 8000          | 8000          |
|                      | 1.6  | Load centre                                                           | c               | mm                |  | 600           | 600           |
|                      | 1.8  | Load distance, centre of drive axle to fork                           | x               | mm                |  | 590           | 590           |
|                      | 1.9  | Wheelbase                                                             | y               | mm                |  | 2250          | 2250          |
| Weight               | 2.1  | Service weight                                                        |                 | kg                |  | 9980          | 9940          |
|                      | 2.2  | Axle load with load, front/rear                                       |                 | kg                |  | 15830/2050    | 15860/2080    |
|                      | 2.3  | Axle load without load, front/rear                                    |                 | kg                |  | 3600/6280     | 3630/6310     |
| Tyres                | 3.1  | Tyres - Pneumatic (P),Pneumatic shaped cushion (PSC), Solid rubber(R) |                 |                   |  | P             | P             |
|                      | 3.2  | Tyre size, front                                                      |                 |                   |  | 8.25-15-14PR  | 8.25-15-14PR  |
|                      | 3.3  | Tyre size, rear                                                       |                 |                   |  | 8.25-15-14PR  | 8.25-15-14PR  |
|                      | 3.5  | Wheels, number front/rear (x = driven)                                |                 |                   |  | 4x/2          | 4x/2          |
|                      | 3.6  | Track width, front                                                    | b <sub>10</sub> | mm                |  | 1440          | 1440          |
|                      | 3.7  | Track width, rear                                                     | b <sub>11</sub> | mm                |  | 1460          | 1460          |
| Dimensions           | 4.1  | Tilt of mast/fork carriage forward/backward                           | a/b             | deg               |  | 6/12          | 6/12          |
|                      | 4.2  | Height, mast lowered                                                  | h <sub>1</sub>  | mm                |  | 2610          | 2610          |
|                      | 4.3  | Free lift                                                             | h <sub>2</sub>  | mm                |  | 125           | 125           |
|                      | 4.4  | Lift                                                                  | h <sub>3</sub>  | mm                |  | 2930          | 2930          |
|                      |      | Lift height                                                           | h <sub>23</sub> | mm                |  | 3000          | 3000          |
|                      | 4.5  | Height, mast extended                                                 | h <sub>4</sub>  | mm                |  | 4440          | 4440          |
|                      | 4.7  | Height of overhead guard (cab) <sup>1)</sup>                          | h <sub>6</sub>  | mm                |  | 2385          | 2385          |
|                      | 4.8  | Seat height                                                           | h <sub>7</sub>  | mm                |  | 1128          | 1128          |
|                      | 4.12 | Coupling height                                                       | h <sub>10</sub> | mm                |  | 485           | 485           |
|                      | 4.19 | Overall length                                                        | l <sub>1</sub>  | mm                |  | 4790          | 4790          |
|                      | 4.20 | Length to face of forks                                               | l <sub>2</sub>  | mm                |  | 3590          | 3590          |
|                      | 4.21 | Overall width                                                         | b <sub>1</sub>  | mm                |  | 1965          | 1965          |
|                      | 4.22 | Fork dimensions                                                       | s/e/l           | mm                |  | 70/150/1200   | 70/150/1200   |
|                      | 4.23 | Fork carriage DIN 15 173, class/type A, B                             |                 |                   |  | IV A          | IV A          |
|                      | 4.24 | Fork-carriage width                                                   | b <sub>3</sub>  | mm                |  | 1700          | 1700          |
|                      | 4.31 | Ground clearance, with load, below mast                               | m <sub>1</sub>  | mm                |  | 125           | 125           |
|                      | 4.32 | Ground clearance, centre of wheelbase                                 | m <sub>2</sub>  | mm                |  | 250           | 250           |
|                      | 4.33 | Aisle width for pallets 1000x1200 crossways                           | A <sub>st</sub> | mm                |  | 5110          | 5110          |
|                      | 4.34 | Aisle width for pallets 800x1200 lengthways                           | A <sub>st</sub> | mm                |  | 5310          | 5310          |
|                      | 4.35 | Turning radius                                                        | W <sub>a</sub>  | mm                |  | 3320          | 3320          |
|                      | 4.36 | Internal turning radius                                               | b <sub>13</sub> | mm                |  | 1020          | 1020          |
| Performance data     | 5.1  | Travel speed, with/without load                                       |                 | km/h              |  | 19/21         | 19/21         |
|                      | 5.2  | Lift speed, with/without load                                         |                 | m/s               |  | 0,37/0,44     | 0,36/0,42     |
|                      | 5.3  | Lowering speed, with/without load                                     |                 | m/s               |  | 0,53/0,48     | 0,53/0,48     |
|                      | 5.6  | Max. drawbar pull, with/without load                                  |                 | N                 |  | 45000/19700   | 45000/19300   |
|                      | 5.7  | Gradeability, with load                                               |                 | %                 |  | 17            | 19            |
|                      | 5.8  | Max. gradeability, with/without load <sup>2)</sup>                    |                 | %                 |  | 26/19         | 17/18         |
|                      | 5.10 | Service brake                                                         |                 |                   |  | Hydraulic     | Hydraulic     |
| Combustion engine    | 7.1  | Engine manufacturer/type                                              |                 |                   |  | Toyota 1FS    | Toyota 1KD    |
|                      | 7.2  | Engine power (ISO 1585)                                               |                 | kW                |  | 55 (V)        | 55            |
|                      | 7.3  | Rated speed                                                           |                 | min <sup>-1</sup> |  | 2550          | 2200          |
|                      | 7.4  | No. of cylinders/displacement                                         |                 | cm <sup>3</sup>   |  | 4/3685        | 4/2982        |
|                      | 7.5a | Fuel consumption according to EN16796                                 |                 | l/h               |  |               | 7,4           |
|                      | 7.5b | Fuel consumption according to EN16796                                 |                 | kg/h              |  | 7,0           |               |
| Other                | 8.2  | Operating pressure for attachments                                    |                 | bar               |  | 210           | 210           |
|                      | 8.3  | Oil volume for attachments                                            |                 | l/min             |  | 128           | 128           |
|                      | 8.4  | Sound level at the driver's ear according to EN 12 053                |                 | dB(A)             |  | 84            | 79            |

1) Overhead guard dimensions reflected in the specification sheet are based on optional overhead guard (+75mm) TMHE recommends this optional height for trucks sold in Europe for reasons of additional comfort for majority of European drivers.

2) Computed values.

Performance data and dimensions are nominal and subject to tolerances.

Specifications are subject to change without notice.

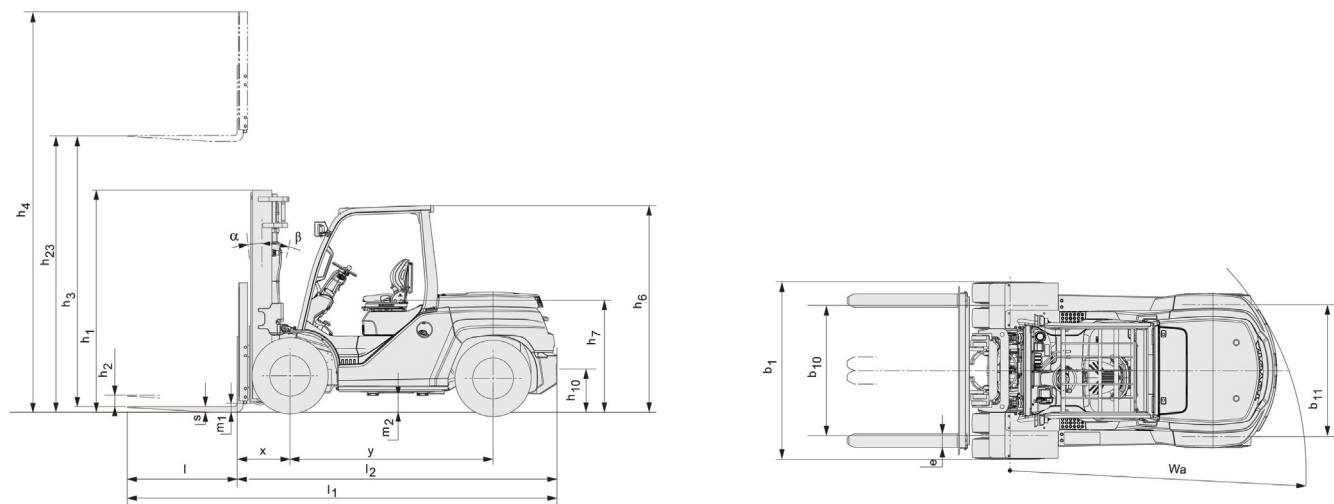
Please obtain the latest specifications before contracting products.

# Mast dimensions and rated capacities

| Model     |                                     |          | V    |      |      |      |      |      |      |      |      |
|-----------|-------------------------------------|----------|------|------|------|------|------|------|------|------|------|
| 8FG/8D80F | Lift height                         | $h_{23}$ | 3000 | 3300 | 3500 | 3700 | 4000 | 4500 | 5000 | 5500 | 6000 |
|           | Lift                                | $h_3$    | 2930 | 3230 | 3430 | 3630 | 3930 | 4430 | 4930 | 5430 | 5930 |
|           | Height, mast lowered                | $h_1$    | 2610 | 2710 | 2810 | 3060 | 3310 | 3560 | 3810 | 4060 | 4310 |
|           | Height, mast extended <sup>1)</sup> | $h_4$    | 4080 | 4380 | 4580 | 4880 | 5280 | 5780 | 6280 | 6780 | 7280 |
|           | Height, mast extended <sup>2)</sup> | $h_4$    | 4440 | 4740 | 4940 | 5140 | 5440 | 5940 | 6440 | 6940 | 7440 |
|           | Free lift, without load backrest    | $h_2$    | 130  | 130  | 130  | 130  | 130  | 130  | 130  | 130  | 130  |
|           | Free lift, with load backrest       | $h_2$    | 130  | 130  | 130  | 130  | 130  | 130  | 130  | 130  | 130  |

- 1) Without load backrest.  
2) With load backrest; Height of standard load backrest is 1370 mm.

| Dual tyre |                            |     | V    |      |      |      |      |      |      |      |      |
|-----------|----------------------------|-----|------|------|------|------|------|------|------|------|------|
| 8FG/D80F  | Tilt range, forward        | deg | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
|           | Tilt range, backward       | deg | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 2    | 12   |
|           | Load capacity at 600 mm LC | kg  | 8000 | 8000 | 8000 | 8000 | 8000 | 8000 | 8000 | 7700 | 7500 |

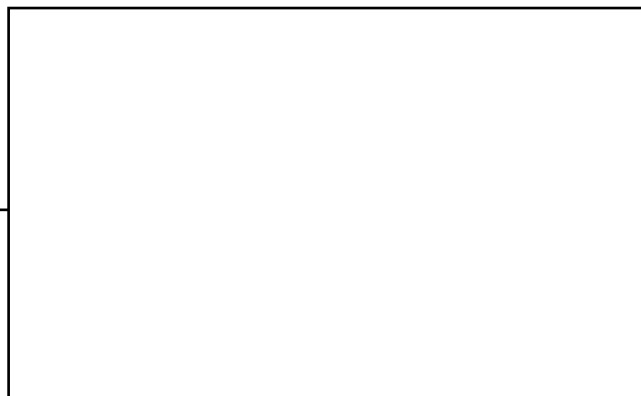


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## Standard equipments:

- Hydrodynamic transmission
- Toyota SAS (System of Active Stability\*)
- Toyota OPS (Operator Presence Sensing)
- Toyota ORS seat (Operator Restraint System)
- Orange seatbelt including seat belt interlock
- Wide visible mast (MFH: 3000 mm)
- Load backrest [Height: 1220 mm (8FG/D35.40.45F); 1370 mm (8FG/D50.60.70.80F)]
- Long forks [Length: 1000 mm (8FG/D35.40.45F); 120 mm (8FG/D50.60.70.80F)]
- Long forkbar [Length: 1170 mm (8FG/D35.40.45.50F); 1700 (8FG/D60.70.80F)]
- 3-way valve (A400)
- Dual brake system
- Pneumatic tyres
- Full hydraulic power steering
- Cyclone air cleaner with snorkel air intake
- LED Headlights
- LED Rear combination lights
- Travel speed control, engine auto stop and ECO mode
- Multi function display II including self diagnostic system
- Adjustable tilt steering column

\* = When dual tyres are selected, the Active Control Rear Stabilizer function of the SAS system of Active Stability (SAS) is not included.



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