

MOVE THE WORLD FORWARD MITSUBISHI HEAVY INDUSTRIES GROUP

GRENDiA EX

FD/ FG40 - 55(C)N3 Series

DIESEL AND LPG COUNTERBALANCE TRUCKS

4.0 – 5.5 tonnes

MAXIMISE YOUR PRODUCTIVITY... WITHOUT COMPROMISING ON EFFICIENCY

Built to work as hard as you do, GRENDiA EX promises reliable, class-leading performance - whatever the challenges.

SPECIFICATIONS

- | | |
|---------|---------|
| FD40N3 | FG40N3 |
| FD45N3 | FG45N3 |
| FD50CN3 | FG50CN3 |
| FD50N3 | FG50N3 |
| FD55N3 | FG55N3 |



WHEN RELIABILITY IS EVERYTHING...



Pergudangan Lautan Jaya Kumala, Jl. Inspeksi Kalimantan KM. 22 Blok A Gudang A-01, Cibuntu, Bekasi-17520

Telp : (021) 89535873
Mobile : 0817-0555-969
Email : thubastunggalperkasa@gmail.com
Website : www.thubastunggalperkasa.co.id



GRENDiA EX

FD/ FG40 - 55(C)N3 Series

DIESEL AND LPG COUNTERBALANCE TRUCKS

4.0 – 5.5 tonnes



Tried and tested in the toughest applications, this no-nonsense design builds on the successes of its predecessors - delivering optimal performance.

GRENDiA EX's sophisticated Euro Stage V compliant engines and long-life design keep running costs and maintenance demands low - for maximum efficiency and productivity.

Green inside and out, GRENDiA EX keeps noise and exhaust emissions to a minimum, while delivering improved overall economy.

FRAME AND BODY

- **Stylish, purposeful design** reflects this machine's power to work productively, non-stop, whatever the conditions.
- **Robust construction** provides high stability, rigidity and protection, with no exposed wires or hoses.

MAST AND FORK ASSEMBLY

- **Strong, high-visibility mast** allows handling of heavy loads in tough environments with total confidence.
- **Wide range of high-quality masts and attachments** deliver precise compatibility and an ideal configuration for each application.

DRIVE

- **Turbocharged diesel engine** delivers the power of a 5.0L engine, with the economy of a 3.4L engine, while meeting Euro Stage V standards.



- **Diesel oxidation catalysts (DOC) and diesel particulate filter (DPF)** efficiently burn soot particles while the truck is in operation - avoiding costly downtime.
- **Advanced LPG engine with three-way catalytic converter** delivers precise, controlled performance and market-leading fuel economy with very low emissions.
- **Fully floating powertrain** with two-speed forward and one-speed reverse transmission maximises gradeability and travel speed, minimises noise and vibration, and uses maintenance-free gears instead of belts to lower running costs.
- **Adjustable transmission shift** timing increases versatility, for optimum performance in a wide variety of applications.
- **Large diameter drive axle shafts** are extremely durable and require little maintenance.

STEERING SYSTEM

- **Fully hydrostatic steering system** - together with compact design - ensures effortless, precise and responsive manoeuvring - even in tight spaces.
- **Angle-sensitive steering system** provides quick turning at low speeds and precision control at higher speeds.

BRAKES

- **Powerful drum brake system** gives excellent control with little effort and is easy to maintain.

- **Electronically controlled parking brake** allows safe, effective immobilisation of the truck with minimum effort - and without restricting knee and leg movement.

HYDRAULICS

- **Powerful hydraulic system** is specifically designed to minimise noise in the operator's environment.

ELECTRICAL AND CONTROL SYSTEMS

- **Integrated Presence System 2 (IPS2)** pioneered by Mitsubishi Forklift Trucks prevents all movement of the truck and its mast if the operator is not seated.
- **Onboard diagnostics and detailed fault diagnosis** via laptop connection alerts operators and service engineers to problems, speeds up servicing and prevents damage.



For more information on GRENDiA EX please visit our website



mft2.eu/grendiaex

GRENDIA EX

FD/ FG40 - 55(C)N3 Series

DIESEL AND LPG COUNTERBALANCE TRUCKS

4.0 – 5.5 tonnes

OPERATOR COMPARTMENT AND CONTROLS

- **Market-leading ErgoCentric design** results in easy on-off access, a unique, adjustable steering column with position memory, user-friendly controls, a practical layout and great all-round visibility – for maximum precision and productivity.
- **Fully adjustable, full-suspension Grammer seat** with hip support keeps driver comfortable through the longest of shifts.
- **Hydraulic control levers** are easy to reach and easy to use.
- **Optional fingertip hydraulic controls** with integrated, fully adjustable, high-comfort armrest (an award-winning concept) allows effortless precision.
- **Automotive-style pedals** with optimum pedal angle are easy to use and give good control without leg strain.
- **Low noise level at operator's ear** and low vibration from powertrain increases comfort and reduces fatigue.

FLEXCONTROL INTELLIGENT TRUCK PROTECTION:



- combined with oil-cooled wet disc brakes in an option package for high-intensity applications
- delivers dynamic performance with minimum wear of transmission components and tyres

- **LCD display** keeps operator and manager fully informed of, for example, speed, time, engine hours, soot status, service intervals and faults – to optimize productivity, truck life, safety and exhaust gass status.
- **Delux Cabin** offering outstanding visibility through laminates glass, and all-round protection from weather elements.

OTHER FEATURES

- **Long service interval** and long life of components reduces downtime and associated costs.
- **RapidAccess features** give unequalled ease of entry to all areas for checks and maintenance.
- **Optimal air filter placement** minimises replacement - saving time and money.
- **Belly Seal** protects against damaging dust and debris - preventing the 'cyclone effect' where dust and dirt is drawn into the engine and recirculated into the working environment.

INTEGRATED PRESENCE SYSTEM 2 (IPS2) PROVIDES:



- a hydraulic and travel interlock system that prevents all movement of the truck and its mast if the driver is not seated
- a seat belt warning light
- an automatic parking brake with alarm



For more information on GRENDIA EX please visit our website



mft2.eu/grendiaex

VDI - PERFORMANCE & DIMENSIONS

| CHARACTERISTICS | | | Mitsubishi Forklift Trucks | Mitsubishi Forklift Trucks | Mitsubishi Forklift Trucks | Mitsubishi Forklift Trucks | Mitsubishi Forklift Trucks |
|---------------------|--|-----------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1.1 | Manufacturer | | FD40N3 | FD45N3 | FD50CN3 | FD50N3 | FD55N3 |
| 1.2 | Manufacturer's model designation | | Diesel | Diesel | Diesel | Diesel | Diesel |
| 1.3 | Power source | | Seated | Seated | Seated | Seated | Seated |
| 1.4 | Operator type | | 4000 | 4500 | 5000 | 5000 | 5500 |
| 1.5 | Load capacity | Q kg | 500 | 500 | 500 | 600 | 600 |
| 1.6 | Load centre distance | c mm | 577 | 577 | 582 | 602 | 602 |
| 1.8 | Load distance, axle to fork face | x mm | 1850 | 2000 | 2000 | 2150 | 2150 |
| 1.9 | Wheelbase | y mm | | | | | |
| WEIGHT | | | | | | | |
| 2.1 | Truck weight, without load / including battery (simple x mast, lowest lift height) | kg | 5920 | 6330 | 6850 | 7300 | 7640 |
| 2.2 | Axle loading with maximum load, front / rear (simple x mast, lowest lift height) | kg | 8960 / 960 | 9710 / 1130 | 10600 / 1250 | 11020 / 1280 | 11740 / 1400 |
| 2.3 | Axle loading without load, front / rear (simple x mast, lowest lift height) | kg | 2630 / 3290 | 2780 / 3550 | 2900 / 3950 | 3220 / 4080 | 3170 / 4470 |
| WHEELS, DRIVE TRAIN | | | | | | | |
| 3.1 | Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front / rear | | L / L | L / L | L / L | L / L | SE / SE |
| 3.2 | Tyre dimensions, front | | 8.25 - 15 - 14PR | 300 - 15 - 18PR | 300 - 15 - 18PR | 300 - 15 - 18PR | 300 - 15 / 8.00 |
| 3.3 | Tyre dimensions, rear | | 7.00 - 12 - 14PR | 7.00 - 12 - 14PR | 7.00 - 12 - 14PR | 7.00 - 12 - 14PR | 7.00 - 12 / 5.00 |
| 3.5 | Number of wheels, front / rear (x=driven) | | 2 x / 2 | 2 x / 2 | 2 x / 2 | 2 x / 2 | 2 x / 2 |
| 3.6 | Track width (centre of tyres), front | b10 mm | 1175 | 1175 | 1175 | 1175 | 1175 |
| 3.7 | Track width (centre of tyres), rear | b11 mm | 1180 | 1180 | 1180 | 1180 | 1180 |
| DIMENSIONS | | | | | | | |
| 4.1 | Mast tilt, forwards / backwards | | 6 / 12 | 6 / 12 | 6 / 12 | 6 / 12 | 6 / 12 |
| 4.2 | Height with mast lowered (see tables) | h1 mm | 2320 | 2320 | 2400 | 2400 | 2400 |
| 4.3 | Free lift (see tables) | h2 mm | 150 | 150 | 150 | 160 | 160 |
| 4.4 | Lift height (see tables) | h3 mm | 3300 | 3300 | 3300 | 3300 | 3300 |
| 4.5 | Overall height with mast raised | h4 mm | 4430 | 4430 | 4430 | 4580 | 4580 |
| 4.7 | Height to top of overhead guard | h6 mm | 2295 | 2295 | 2295 | 2295 | 2295 |
| 4.8 | Seat height | h7 mm | 1082 | 1082 | 1082 | 1082 | 1082 |
| 4.12 | Tow coupling height | h10 mm | 395 | 395 | 395 | 395 | 395 |
| 4.19 | Overall length | l1 mm | 4220 | 4350 | 4390 | 4530 | 4580 |
| 4.20 | Length to fork face (includes fork thickness) | l2 mm | 3000 | 3130 | 3170 | 3310 | 3360 |
| 4.21 | Overall width | b1/b2 mm | 1415 / 1780 | 1460 / 1780 | 1460 / 1780 | 1460 / 1780 | 1460 / 1780 |
| 4.22 | Fork dimensions (thickness, width, length) | s / e / l mm | 50 / 150 / 1220 | 50 / 150 / 1220 | 50 / 150 / 1220 | 60 / 150 / 1220 | 60 / 150 / 1220 |
| 4.23 | Fork carriage to DIN 15173 A / B / no | | 3A | 3A | 3A | 4A | 4A |
| 4.24 | Fork carriage width | b3 mm | 1190 | 1190 | 1190 | 1190 | 1190 |
| 4.31 | Ground clearance under mast, with load | m1 mm | 150 | 150 | 150 | 150 | 150 |
| 4.32 | Ground clearance at centre of wheelbase, with load (forks lowered) | m2 mm | 227 | 227 | 227 | 227 | 227 |
| 4.33 | Working aisle width with 1000 x 1200 mm pallets, crosswise | Ast mm | 4357 | 4507 | 4542 | 4692 | 4742 |
| 4.34a | Working aisle width with 800 x 1200 mm pallets, crosswise | Ast mm | | | | | |
| 4.34b | Working aisle width with 800 x 1200 mm pallets, lengthwise | Ast mm | 4157 | 4307 | 4342 | 4492 | 4542 |
| 4.35 | Turning circle radius | Wa mm | 2580 | 2730 | 2760 | 2890 | 2940 |
| 4.36 | Minimum distance between centres of rotation | b13 mm | 836 | 903 | 903 | 971 | 971 |
| PERFORMANCE | | | | | | | |
| 5.1 | Travel speed, with / without load | km/h | 21.5 / 22.5 | 21.5 / 22.5 | 21 / 22 | 21 / 22 | 20.5 / 22 |
| 5.2 | Lifting speed, with / without load | m/s | 0.62 / 0.67 | 0.62 / 0.67 | 0.54 / 0.58 | 0.53 / 0.57 | 0.53 / 0.57 |
| 5.3 | Lowering speed, with / without load | m/s | 0.50 / 0.50 | 0.50 / 0.50 | 0.50 / 0.50 | 0.50 / 0.50 | 0.50 / 0.50 |
| 5.5 | Rated drawbar pull, with / without load | N | 25800 / 18200 | 25500 / 19300 | 24900 / 20000 | 24800 / 21900 | 24500 / 22100 |
| 5.6 | Maximum drawbar pull, with / without load (5 min short duty) | N | - / - | - / - | - / - | - / - | - / - |
| 5.7 | Gradeability, with / without load | % | 27.3 / 26.7 | 24.6 / 26.5 | 21.8 / 25.4 | 21 / 26.4 | 19.3 / 25.3 |
| 5.8 | Maximum gradeability with / without load | % | - / - | - / - | - / - | - / - | - / - |
| 5.9 | Acceleration time (10 metres) with / without load | s | - / - | - / - | - / - | - / - | - / - |
| 5.10 | Service brakes (mechanical / hydraulic / electric / pneumatic) | | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| IC ENGINE | | | | | | | |
| 7.1 | Manufacturer / Type | | D04EG-T | D04EG-T | D04EG-T | D04EG-T | D04EG-T |
| 7.2 | Rated output to ISO 1585 (Gross output) | kW | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 |
| 7.3 | Rated speed to DIN 70020 | rpm | 2250 | 2250 | 2250 | 2250 | 2250 |
| 7.4 | Number of cylinders / cubic capacity | cm ³ | 4 / 3330 | 4 / 3330 | 4 / 3330 | 4 / 3330 | 4 / 3330 |
| 7.6a | Max torque | Nm | 260 | 260 | 260 | 260 | 260 |
| 7.7a | Max torque at engine speed | rpm | 1800 | 1800 | 1800 | 1800 | 1800 |
| MISCELLANEOUS | | | | | | | |
| 8.1 | Type of drive control | | Powershift 2 / 1 | Powershift 2 / 1 | Powershift 2 / 1 | Powershift 2 / 1 | Powershift 2 / 1 |
| 10.1 | Maximum operating pressure for attachments | bar | 191 | 191 | 191 | 191 | 191 |
| 10.2 | Oil flow for attachments | l/min | 80 | 80 | 80 | 80 | 80 |
| 10.7 | Noise level, value at operator's ear (EN 12053) | dB(A) | 78.5 | 78.5 | 78.5 | 78.5 | 78.5 |
| 10.8 | Towing coupling, type DIN 15170 | | Pin | Pin | Pin | Pin | Pin |

GRENDIA EX

FD40 - 55(C)N3 Series

DIESEL COUNTERBALANCE

4.0 - 5.5 tonnes



VDI - PERFORMANCE & DIMENSIONS

| CHARACTERISTICS | | | Mitsubishi Forklift Trucks | Mitsubishi Forklift Trucks | Mitsubishi Forklift Trucks | Mitsubishi Forklift Trucks | Mitsubishi Forklift Trucks |
|---------------------|--|-----------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1.1 | Manufacturer | | FG40N3 | FG45N3 | FG50CN3 | FG50N3 | FG55N3 |
| 1.2 | Manufacturer's model designation | | LPG | LPG | LPG | LPG | LPG |
| 1.3 | Power source | | Seated | Seated | Seated | Seated | Seated |
| 1.4 | Operator type | | 4000 | 4500 | 5000 | 5000 | 5500 |
| 1.5 | Load capacity | Q kg | 500 | 500 | 500 | 600 | 600 |
| 1.6 | Load centre distance | c mm | 577 | 577 | 582 | 602 | 602 |
| 1.8 | Load distance, axle to fork face | x mm | 1850 | 2000 | 2000 | 2150 | 2150 |
| 1.9 | Wheelbase | y mm | | | | | |
| WEIGHT | | | | | | | |
| 2.1 | Truck weight, without load / including battery (simple x mast, lowest lift height) | kg | 5860 | 6270 | 6780 | 7240 | 7570 |
| 2.2 | Axle loading with maximum load, front / rear (simple x mast, lowest lift height) | kg | 8940 / 920 | 9680 / 1090 | 10570 / 1210 | 10990 / 1250 | 11710 / 1360 |
| 2.3 | Axle loading without load, front / rear (simple x mast, lowest lift height) | kg | 2610 / 3250 | 2750 / 3520 | 2870 / 3920 | 3190 / 4050 | 3130 / 4440 |
| WHEELS, DRIVE TRAIN | | | | | | | |
| 3.1 | Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front / rear | | L / L | L / L | L / L | L / L | SE / SE |
| 3.2 | Tyre dimensions, front | | 8.25 - 15 - 14PR | 300 - 15 - 18PR | 300 - 15 - 18PR | 300 - 15 - 18PR | 300 - 15 / 8.00 |
| 3.3 | Tyre dimensions, rear | | 7.00 - 12 - 14PR | 7.00 - 12 - 14PR | 7.00 - 12 - 14PR | 7.00 - 12 - 14PR | 7.00 - 12 / 5.00 |
| 3.5 | Number of wheels, front / rear (x=driven) | | 2 x / 2 | 2 x / 2 | 2 x / 2 | 2 x / 2 | 2 x / 2 |
| 3.6 | Track width (centre of tyres), front | b10 mm | 1175 | 1175 | 1175 | 1175 | 1175 |
| 3.7 | Track width (centre of tyres), rear | b11 mm | 1180 | 1180 | 1180 | 1180 | 1180 |
| DIMENSIONS | | | | | | | |
| 4.1 | Mast tilt, forwards / backwards | | 6 / 12 | 6 / 12 | 6 / 12 | 6 / 12 | 6 / 12 |
| 4.2 | Height with mast lowered (see tables) | h1 mm | 2320 | 2320 | 2400 | 2400 | 2400 |
| 4.3 | Free lift (see tables) | h2 mm | 150 | 150 | 150 | 160 | 160 |
| 4.4 | Lift height (see tables) | h3 mm | 3300 | 3300 | 3300 | 3300 | 3300 |
| 4.5 | Overall height with mast raised | h4 mm | 4430 | 4430 | 4580 | 4580 | 4580 |
| 4.7 | Height to top of overhead guard | h6 mm | 2295 | 2295 | 2295 | 2295 | 2295 |
| 4.8 | Seat height | h7 mm | 1082 | 1082 | 1082 | 1082 | 1082 |
| 4.12 | Tow coupling height | h10 mm | 395 | 395 | 395 | 395 | 395 |
| 4.19 | Overall length | l1 mm | 4220 | 4350 | 4390 | 4530 | 4580 |
| 4.20 | Length to fork face (includes fork thickness) | l2 mm | 3000 | 3130 | 3170 | 3310 | 3360 |
| 4.21 | Overall width | b1/b2 mm | 1415 / 1780 | 1460 / 1780 | 1460 / 1780 | 1460 / 1780 | 1460 / 1780 |
| 4.22 | Fork dimensions (thickness, width, length) | s / e / l mm | 50 / 150 / 1220 | 50 / 150 / 1220 | 50 / 150 / 1220 | 60 / 150 / 1220 | 60 / 150 / 1220 |
| 4.23 | Fork carriage to DIN 15173 A / B / no | | 3A | 3A | 3A | 4A | 4A |
| 4.24 | Fork carriage width | b3 mm | 1190 | 1190 | 1190 | 1190 | 1190 |
| 4.31 | Ground clearance under mast, with load | m1 mm | 150 | 150 | 150 | 150 | 150 |
| 4.32 | Ground clearance at centre of wheelbase, with load (forks lowered) | m2 mm | 227 | 227 | 227 | 227 | 227 |
| 4.33 | Working aisle width with 1000 x 1200 mm pallets, crosswise | Ast mm | 4357 | 4507 | 4542 | 4692 | 4742 |
| 4.34a | Working aisle width with 800 x 1200 mm pallets, crosswise | Ast mm | | | | | |
| 4.34b | Working aisle width with 800 x 1200 mm pallets, lengthwise | Ast mm | 4157 | 4307 | 4342 | 4492 | 4542 |
| 4.35 | Turning circle radius | Wa mm | 2580 | 2730 | 2760 | 2890 | 2940 |
| 4.36 | Minimum distance between centres of rotation | b13 mm | 836 | 903 | 903 | 971 | 971 |
| PERFORMANCE | | | | | | | |
| 5.1 | Travel speed, with / without load | km/h | 23 / 23.5 | 22.5 / 23.5 | 22.5 / 23.5 | 22 / 23 | 22 / 23 |
| 5.2 | Lifting speed, with / without load | m/s | 0.67 / 0.69 | 0.67 / 0.69 | 0.58 / 0.59 | 0.57 / 0.59 | 0.53 / 0.59 |
| 5.3 | Lowering speed, with / without load | m/s | 0.50 / 0.50 | 0.50 / 0.50 | 0.50 / 0.50 | 0.50 / 0.50 | 0.50 / 0.50 |
| 5.5 | Rated drawbar pull, with / without load | N | 28700/17800 | 28400 / 19000 | 27800/19700 | 27700 / 21600 | 27500 / 21800 |
| 5.6 | Maximum drawbar pull, with / without load (5 min short duty) | N | - / - | - / - | - / - | - / - | - / - |
| 5.7 | Gradeability, with / without load | % | 30.8 / 26.3 | 27.7 / 26.3 | 24.6 / 25.2 | 23.7 / 26.2 | 21.8 / 25 |
| 5.8 | Maximum gradeability with / without load | % | - / - | - / - | - / - | - / - | - / - |
| 5.9 | Acceleration time (10 metres) with / without load | s | - / - | - / - | - / - | - / - | - / - |
| 5.10 | Service brakes (mechanical / hydraulic / electric / pneumatic) | | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| IC ENGINE | | | | | | | |
| 7.1 | Manufacturer / Type | | GK45 | GK45 | GK45 | GK45 | GK45 |
| 7.2 | Rated output to ISO 1585 (Gross output) | kW | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 |
| 7.3 | Rated speed to DIN 70020 | rpm | 2450 | 2450 | 2450 | 2450 | 2450 |
| 7.4 | Number of cylinders / cubic capacity | cm ³ | 6 / 4450 | 6 / 4450 | 6 / 4450 | 6 / 4450 | 6 / 4450 |
| 7.6a | Max torque | Nm | 279 | 279 | 279 | 279 | 279 |
| 7.7a | Max torque at engine speed | rpm | 1600 | 1600 | 1600 | 1600 | 1600 |
| MISCELLANEOUS | | | | | | | |
| 8.1 | Type of drive control | | Powershift 2 / 1 | Powershift 2 / 1 | Powershift 2 / 1 | Powershift 2 / 1 | Powershift 2 / 1 |
| 10.1 | Maximum operating pressure for attachments | bar | 191 | 191 | 191 | 191 | 191 |
| 10.2 | Oil flow for attachments | l/min | 80 | 80 | 80 | 80 | 80 |
| 10.7 | Noise level, value at operator's ear (EN 12053) | dB(A) | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 |
| 10.8 | Towing coupling, type DIN 15170 | | Pin | Pin | Pin | Pin | Pin |

GRENDIA EX

FG40 - 55(C)N3 Series

**LPG
COUNTERBALANCE**

4.0 - 5.5 tonnes



MAST PERFORMANCE AND CAPACITY

GRENDIA EX

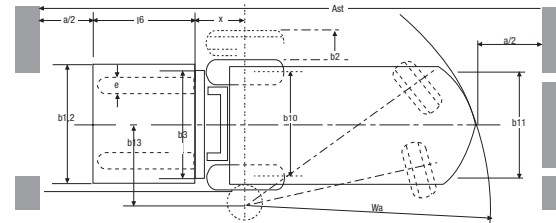
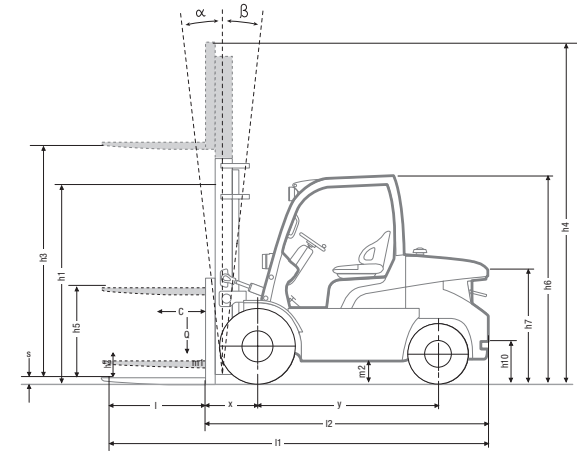
FD / FG40N3

| MAST TYPE | FD / FG40N3 | | | | | | FD / FG40N3 PNEUMATIC | | FD / FG40N3 SOLID PNEUMATIC | | |
|-----------|-------------|-------|-------------------|------------------|-------------------|------------------|-------------------------|----------------|-----------------------------|----------------|----------------|
| | h3 mm | h1 mm | h4 mm | | h2 / h5 mm | | Tilt angle (fwd - back) | Q @ c=500mm kg | Q @ c=600mm kg | Q @ c=500mm kg | Q @ c=600mm kg |
| | | | With STD backrest | Without backrest | With STD backrest | Without backrest | | | | | |
| SIMPLEX | 3050 | 2170 | 4130 | 3930 | 150 | 150 | 6°/12° | 4000 | 3500 | 4000 | 3500 |
| | 3350 | 2320 | 4430 | 4230 | 150 | 150 | 6°/12° | 4000 | 3500 | 4000 | 3500 |
| | 3750 | 2520 | 4830 | 4630 | 150 | 150 | 6°/12° | 4000 | 3500 | 4000 | 3500 |
| | 4050 | 2700 | 5130 | 4930 | 150 | 150 | 6°/12° | 4000 | 3500 | 4000 | 3500 |
| | 4550 | 3000 | 5630 | 5430 | 150 | 150 | 6°/6° | 4000 | 3500 | 4000 | 3500 |
| | 5050 | 3250 | 6130 | 5930 | 150 | 150 | 6°/6° | 3850 | 3500 | 4000 | 3500 |
| DUPLEX | 3050 | 2170 | 4130 | 3950 | 1090 | 1270 | 6°/12° | 4000 | 3500 | 4000 | 3500 |
| | 3350 | 2320 | 4430 | 4250 | 1240 | 1420 | 6°/12° | 4000 | 3500 | 4000 | 3500 |
| | 3750 | 2520 | 4830 | 4650 | 1440 | 1620 | 6°/12° | 4000 | 3500 | 4000 | 3500 |
| | 4110 | 2700 | 5190 | 5010 | 1620 | 1800 | 6°/12° | 4000 | 3500 | 4000 | 3500 |
| | 3750 | 1950 | 4830 | 4650 | 870 | 1050 | 6°/6° | 4000 | 3500 | 4000 | 3500 |
| | 4050 | 2050 | 5130 | 4950 | 970 | 1150 | 6°/6° | 4000 | 3500 | 4000 | 3500 |
| TRIPLEX | 4410 | 2170 | 5490 | 5310 | 1090 | 1270 | 6°/6° | 4000 | 3500 | 4000 | 3500 |
| | 4750 | 2285 | 5830 | 5650 | 1200 | 1390 | 6°/6° | 3900 | 3500 | 4000 | 3500 |
| | 5100 | 2400 | 6180 | 6000 | 1320 | 1500 | 6°/6° | 3800 | 3500 | 3900 | 3500 |
| | 5550 | 2550 | 6630 | 6450 | 1470 | 1650 | 6°/6° | 3600* | 3400* | 3700* | 3450* |
| | 6050 | 2750 | 7130 | 6950 | 1670 | 1850 | 6°/6° | 3450* | 3250* | 3550* | 3350* |
| | 6550 | 2950 | 7630 | 7450 | 1870 | 2050 | 6°/6° | 3000* | 3000* | 3400* | 3200* |
| | 7050 | 3150 | 8130 | 7950 | 2070 | 2250 | 6°/6° | 2400* | 2400* | 3300* | 3100* |

- h1 Height with mast lowered
- h2 Standard free lift
- h3 Lift height
- h4 Height with mast raised
- h5 Full free lift
- Q Lifting capacity, rated load
- c Load centre (distance)

- Ast = $Wa + x + l6 + a$
- Ast = Working aisle width with load
- Wa = Turning radius
- a = Safety clearance = 2 x 100 mm
- l6 = Pallet length
- b12 = Pallet width

* Truck equipped with dual tyres.
Consult your dealer for the maximum back-tilt allowed, to obtain the capacities specified.



FD / FG45N3

| MAST TYPE | FD / FG45N3 | | | | | | FD / FG45N3 PNEUMATIC | | FD / FG45N3 SOLID PNEUMATIC | | |
|-----------|-------------|-------|-------------------|------------------|-------------------|------------------|-------------------------|----------------|-----------------------------|----------------|----------------|
| | h3 mm | h1 mm | h4 mm | | h2 / h5 mm | | Tilt angle (fwd - back) | Q @ c=500mm kg | Q @ c=600mm kg | Q @ c=500mm kg | Q @ c=600mm kg |
| | | | With STD backrest | Without backrest | With STD backrest | Without backrest | | | | | |
| SIMPLEX | 3050 | 2170 | 4130 | 3930 | 150 | 150 | 6°/12° | 4500 | 4000 | 4500 | 4000 |
| | 3350 | 2320 | 4430 | 4230 | 150 | 150 | 6°/12° | 4500 | 4000 | 4500 | 4000 |
| | 3750 | 2520 | 4830 | 4630 | 150 | 150 | 6°/12° | 4500 | 4000 | 4500 | 4000 |
| | 4050 | 2700 | 5130 | 4930 | 150 | 150 | 6°/12° | 4500 | 4000 | 4500 | 4000 |
| | 4550 | 3000 | 5630 | 5430 | 150 | 150 | 6°/6° | 4500 | 4000 | 4500 | 4000 |
| | 5050 | 3250 | 6130 | 5930 | 150 | 150 | 6°/6° | 4500 | 4000 | 4500 | 4000 |
| DUPLEX | 3050 | 2170 | 4130 | 3950 | 1090 | 1270 | 6°/12° | 4500 | 4000 | 4500 | 4000 |
| | 3350 | 2320 | 4430 | 4250 | 1240 | 1420 | 6°/12° | 4500 | 4000 | 4500 | 4000 |
| | 3750 | 2520 | 4830 | 4650 | 1440 | 1620 | 6°/12° | 4500 | 4000 | 4500 | 4000 |
| | 4110 | 2700 | 5190 | 5010 | 1620 | 1800 | 6°/12° | 4500 | 4000 | 4500 | 4000 |
| | 3750 | 1950 | 4830 | 4650 | 870 | 1050 | 6°/6° | 4500 | 4000 | 4500 | 4000 |
| | 4050 | 2050 | 5130 | 4950 | 970 | 1150 | 6°/6° | 4500 | 4000 | 4500 | 4000 |
| TRIPLEX | 4410 | 2170 | 5490 | 5310 | 1090 | 1270 | 6°/6° | 4500 | 4000 | 4500 | 4000 |
| | 4750 | 2285 | 5830 | 5650 | 1200 | 1390 | 6°/6° | 4500 | 4000 | 4500 | 4000 |
| | 5100 | 2400 | 6180 | 6000 | 1320 | 1500 | 6°/6° | 4500 | 4000 | 4500 | 4000 |
| | 5550 | 2550 | 6630 | 6450 | 1470 | 1650 | 6°/6° | 4200* | 4000* | 4350* | 4000* |
| | 6050 | 2750 | 7130 | 6950 | 1670 | 1850 | 6°/6° | 4050* | 3800* | 4200* | 3900* |
| | 6550 | 2950 | 7630 | 7450 | 1870 | 2050 | 6°/6° | 3000* | 3000* | 4050* | 3800* |
| | 7050 | 3150 | 8130 | 7950 | 2070 | 2250 | 6°/6° | 2400* | 2400* | 3500* | 3500* |

FD / FG50CN3

| MAST TYPE | FD / FG50CN3 | | | | | | FD / FG50CN3 PNEUMATIC | | FD / FG50CN3 SOLID PNEUMATIC | | |
|-----------|--------------|-------|-------------------|------------------|-------------------|------------------|-------------------------|----------------|------------------------------|----------------|----------------|
| | h3 mm | h1 mm | h4 mm | | h2 / h5 mm | | Tilt angle (fwd - back) | Q @ c=500mm kg | Q @ c=600mm kg | Q @ c=500mm kg | Q @ c=600mm kg |
| | | | With STD backrest | Without backrest | With STD backrest | Without backrest | | | | | |
| SIMPLEX | 3060 | 2250 | 4130 | 3890 | 150 | 150 | 6°/12° | 5000 | 4500 | 5000 | 4500 |
| | 3350 | 2400 | 4430 | 4190 | 150 | 150 | 6°/12° | 5000 | 4500 | 5000 | 4500 |
| | 3750 | 2600 | 4830 | 4590 | 150 | 150 | 6°/12° | 5000 | 4500 | 5000 | 4500 |
| | 4050 | 2850 | 5130 | 4890 | 150 | 150 | 6°/12° | 5000 | 4500 | 5000 | 4500 |
| | 4550 | 3100 | 5630 | 5390 | 150 | 150 | 6°/6° | 5000 | 4500 | 5000 | 4500 |
| | 5050 | 3350 | 6130 | 5890 | 150 | 150 | 6°/6° | 5000 | 4500 | 5000 | 4500 |
| DUPLEX | 3020 | 2250 | 4100 | 3870 | 1170 | 1400 | 6°/12° | 5000 | 4500 | 5000 | 4500 |
| | 3330 | 2400 | 4410 | 4180 | 1320 | 1550 | 6°/12° | 5000 | 4500 | 5000 | 4500 |
| | 4130 | 2850 | 5210 | 4980 | 1770 | 2000 | 6°/12° | 5000 | 4500 | 5000 | 4500 |
| | 3750 | 2050 | 4830 | 4610 | 970 | 1200 | 6°/6° | 5000 | 4500 | 5000 | 4500 |
| | 4090 | 2170 | 5170 | 4950 | 1090 | 1320 | 6°/6° | 5000 | 4500 | 5000 | 4500 |
| | 4360 | 2260 | 5440 | 5220 | 1180 | 1410 | 6°/6° | 5000 | 4500 | 5000 | 4500 |
| TRIPLEX | 4800 | 2400 | 5880 | 5660 | 1320 | 1550 | 6°/6° | 5000 | 4500 | 5000 | 4500 |
| | 5100 | 2500 | 6180 | 5960 | 1420 | 1650 | 6°/6° | 5000 | 4500 | 5000 | 4500 |
| | 5550 | 2650 | 6630 | 6410 | 1570 | 1800 | 6°/6° | 4700* | 4450* | 4850* | 4500* |
| | 6050 | 2850 | 7130 | 6910 | 1770 | 2000 | 6°/6° | 4200* | 4200* | 4650* | 4350* |
| | 6550 | 3050 | 7630 | 7410 | 1970 | 2200 | 6°/6° | 3000* | 3000* | 4450* | 4200* |
| | 7050 | 3250 | 8130 | 7910 | 2170 | 2400 | 6°/6° | 2400* | 2400* | 3500* | 3500* |

Continuing improvement may lead to changes in these specifications

MAST PERFORMANCE AND CAPACITY

GRENDIA EX

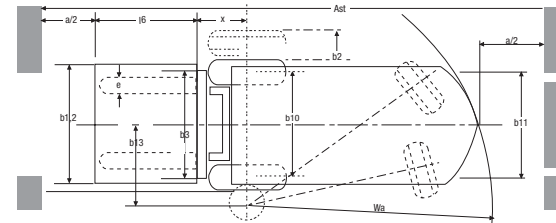
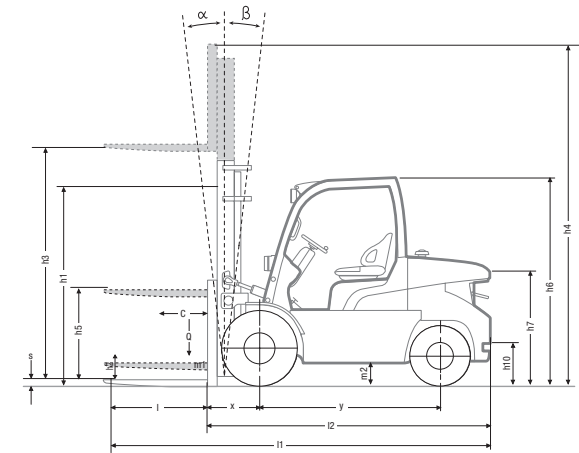
FD / FG50N3

| MAST TYPE | FD / FG50N3 | | | | | | Tilt angle (fwd - back) | FD / FG50N3 PNEUMATIC | FD / FG50N3 SOLID PNEUMATIC |
|-----------|-------------|-------|-------------------|------------------|-------------------|------------------|-------------------------|-----------------------|-----------------------------|
| | h3 mm | h1 mm | h4 mm | | h2 / h5 mm | | | Q @ c=600mm kg | Q @ c=600mm kg |
| | | | With STD backrest | Without backrest | With STD backrest | Without backrest | | | |
| SIMPLEX | 3060 | 2250 | 4280 | 4030 | 160 | 160 | 6°/12° | 5000 | 5000 |
| | 3360 | 2400 | 4580 | 4330 | 160 | 160 | 6°/12° | 5000 | 5000 |
| | 3760 | 2600 | 4980 | 4730 | 160 | 160 | 6°/12° | 5000 | 5000 |
| | 4060 | 2850 | 5280 | 5030 | 160 | 160 | 6°/12° | 5000 | 5000 |
| | 4560 | 3100 | 5780 | 5530 | 160 | 160 | 6°/6° | 5000 | 5000 |
| | 5060 | 3350 | 6280 | 6030 | 160 | 160 | 6°/6° | 5000 | 5000 |
| | 5560 | 3600 | 6780 | 6530 | 160 | 160 | 6°/6° | 4900* | 5000 |
| DUPLEX | 3030 | 2250 | 4250 | 4000 | 1030 | 1280 | 6°/12° | 5000 | 5000 |
| | 3340 | 2400 | 4560 | 4310 | 1180 | 1430 | 6°/12° | 5000 | 5000 |
| | 4140 | 2850 | 5360 | 5110 | 1630 | 1880 | 6°/12° | 5000 | 5000 |
| TRIPLEX | 3760 | 2050 | 4980 | 4740 | 830 | 1080 | 6°/6° | 5000 | 5000 |
| | 4100 | 2170 | 5320 | 5080 | 950 | 1200 | 6°/6° | 5000 | 5000 |
| | 4370 | 2260 | 5590 | 5350 | 1040 | 1290 | 6°/6° | 5000 | 5000 |
| | 4810 | 2400 | 6030 | 5790 | 1180 | 1430 | 6°/6° | 5000 | 5000 |
| | 5110 | 2500 | 6330 | 6090 | 1280 | 1530 | 6°/6° | 5000 | 5000 |
| | 5560 | 2650 | 6780 | 6540 | 1430 | 1680 | 6°/6° | 4900* | 5000 |
| | 6060 | 2850 | 7280 | 7040 | 1630 | 1880 | 6°/6° | 4300* | 4800 |

- h1 Height with mast lowered
- h2 Standard free lift
- h3 Lift height
- h4 Height with mast raised
- h5 Full free lift
- Q Lifting capacity, rated load
- c Load centre (distance)

- Ast = $Wa + x + l6 + a$
- Ast = Working aisle width with load
- Wa = Turning radius
- a = Safety clearance = 2 x 100 mm
- l6 = Pallet length
- b12 = Pallet width

* Truck equipped with dual tyres. Consult your dealer for the maximum back-tilt allowed, to obtain the capacities specified.

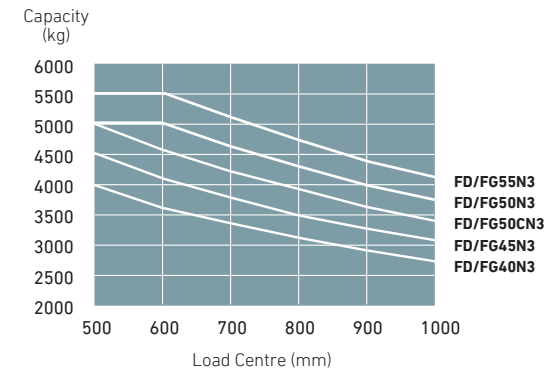


FD / FG55N3

| MAST TYPE | FD / FG55N3 | | | | | | Tilt angle (fwd - back) | FD / FG55N3 PNEUMATIC | FD / FG55N3 SOLID PNEUMATIC |
|-----------|-------------|-------|-------------------|------------------|-------------------|------------------|-------------------------|-----------------------|-----------------------------|
| | h3 mm | h1 mm | h4 mm | | h2 / h5 mm | | | Q @ c=600mm kg | Q @ c=600mm kg |
| | | | With STD backrest | Without backrest | With STD backrest | Without backrest | | | |
| SIMPLEX | 3060 | 2250 | 4280 | 4030 | 160 | 160 | 6°/12° | 5500 | 5500 |
| | 3360 | 2400 | 4580 | 4330 | 160 | 160 | 6°/12° | 5500 | 5500 |
| | 3760 | 2600 | 4980 | 4730 | 160 | 160 | 6°/12° | 5500 | 5500 |
| | 4060 | 2850 | 5280 | 5030 | 160 | 160 | 6°/12° | 5500 | 5500 |
| | 4560 | 3100 | 5780 | 5530 | 160 | 160 | 6°/6° | 5500 | 5500 |
| | 5060 | 3350 | 6280 | 6030 | 160 | 160 | 6°/6° | 5500* | 5500* |
| | 5560 | 3600 | 6780 | 6530 | 160 | 160 | 6°/6° | - | 5500 |
| DUPLEX | 3030 | 2250 | 4250 | 4000 | 1030 | 1280 | 6°/12° | 5500 | 5500 |
| | 3340 | 2400 | 4560 | 4310 | 1180 | 1430 | 6°/12° | 5500 | 5500 |
| | 4140 | 2850 | 5360 | 5110 | 1630 | 1880 | 6°/12° | 5500 | 5500 |
| TRIPLEX | 3760 | 2050 | 4980 | 4740 | 830 | 1080 | 6°/6° | 5500 | 5500 |
| | 4100 | 2170 | 5320 | 5080 | 950 | 1200 | 6°/6° | 5500 | 5500 |
| | 4370 | 2260 | 5590 | 5350 | 1040 | 1290 | 6°/6° | 5500 | 5500 |
| | 4810 | 2400 | 6030 | 5790 | 1180 | 1430 | 6°/6° | 5450 | 5500 |
| | 5110 | 2500 | 6330 | 6090 | 1280 | 1530 | 6°/6° | 5500* | 5500 |
| | 5560 | 2650 | 6780 | 6540 | 1430 | 1680 | 6°/6° | - | 5500 |
| | 6060 | 2850 | 7280 | 7040 | 1630 | 1880 | 6°/6° | - | 5300* |

FD/FG40-55(C)N3 Models Capacities at various load centres

Simplex - h3 = 4000 mm



STANDARD EQUIPMENT & OPTIONS

● = Standard
● = Option

| | FD40-45N3 | FD50CN3 | FD50N3 | FD55N3 | FG40-45N3 | FG50CN3 | FG50N3 | FG55N3 |
|--|-----------|---------|--------|--------|------------|---------|--------|--------|
| DIESEL | | | | | LPG | | | |
| GENERAL | | | | | | | | |
| Dust proof kit | ● | ● | ● | ● | ● | ● | ● | ● |
| Line filter for torque converter | ● | ● | ● | ● | ● | ● | ● | ● |
| LPG bracket removed | - | - | - | - | ● | ● | ● | ● |
| Rear axle under guard | ● | ● | ● | ● | ● | ● | ● | ● |
| Tilt cylinder boot kit | ● | ● | ● | ● | ● | ● | ● | ● |
| Lifting eyes mounted on counter weight | ● | ● | ● | ● | - | - | - | - |
| Belly plate (under cover) | ● | ● | ● | ● | ● | ● | ● | ● |
| Dust proof strainer | ● | ● | ● | ● | ● | ● | ● | ● |
| Hydraulic oil cooler | ● | ● | ● | ● | ● | ● | ● | ● |
| HYDRAULIC | | | | | | | | |
| 3-way control valve MC | ● | ● | ● | ● | ● | ● | ● | ● |
| 3-way control valve FC | ● | ● | ● | ● | ● | ● | ● | ● |
| 4-way control valve MC | ● | ● | ● | ● | ● | ● | ● | ● |
| 4-way control valve FC | ● | ● | ● | ● | ● | ● | ● | ● |
| MAST, FORKS AND CARRIAGE | | | | | | | | |
| Loose mast | ● | ● | ● | ● | ● | ● | ● | ● |
| Lifting eye for mast | ● | ● | ● | ● | ● | ● | ● | ● |
| Uninstalled mast | ● | ● | ● | ● | ● | ● | ● | ● |
| Side shifter 1190 mm | ● | ● | ● | ● | ● | ● | ● | ● |
| Side shifter 1500 mm* (*Note: Requires Carriage 1500mm) | ● | ● | ● | ● | ● | ● | ● | ● |
| Integral side shifter 1190mm | ● | ● | ● | ● | ● | ● | ● | ● |
| Fork deletion | ● | ● | ● | ● | ● | ● | ● | ● |
| ELECTRIC | | | | | | | | |
| Backup handle with horn button | ● | ● | ● | ● | ● | ● | ● | ● |
| Electric diesel control (Diesel) | ● | ● | ● | ● | - | - | - | - |
| Speed control system (LPG) | - | - | - | - | ● | ● | ● | ● |
| Indicator kit | ● | ● | ● | ● | ● | ● | ● | ● |
| LED light set | ● | ● | ● | ● | ● | ● | ● | ● |
| LED rear work light | ● | ● | ● | ● | ● | ● | ● | ● |
| Load weight indicator (for simplex & triplex masts) | ● | ● | ● | ● | ● | ● | ● | ● |
| Rotating beacon (orange) | ● | ● | ● | ● | ● | ● | ● | ● |
| Strobe light (orange) | ● | ● | ● | ● | ● | ● | ● | ● |
| FNR switch on adjustable armrest* (*Standard on FC models) | ● | ● | ● | ● | ● | ● | ● | ● |

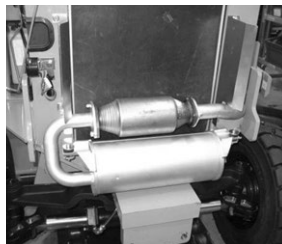
Contact your dealer for additional standard and optional equipment.

GRENDIA EX FD / FG40-55(C)N3 Series DIESEL AND LPG COUNTERBALANCE TRUCKS

4.0 – 5.5 tonnes



Convenient handbrake button



Advanced LPG technology



User-friendly hydraulic features



Fingertip hydraulic controls (optional)

STANDARD EQUIPMENT & OPTIONS

● = Standard
● = Option

| | FD40-45N3 | FD50CN3 | FD50N3 | FD55N3 | FG40-45N3 | FG50CN3 | FG50N3 | FG55N3 |
|--|-----------|---------|--------|--------|-----------|---------|--------|--------|
| OHG AND CABIN | | | | | | | | |
| | DIESEL | | | | LPG | | | |
| Grammer MSG 65 Vinyl seat | ● | ● | ● | ● | ● | ● | ● | ● |
| Grammer MSG 65 Cloth seat | ● | ● | ● | ● | ● | ● | ● | ● |
| Armrest LH side (for FC models) | ● | ● | ● | ● | ● | ● | ● | ● |
| Armrest LH side (for MC models) | ● | ● | ● | ● | ● | ● | ● | ● |
| Armrest RH side (for FC models) | ● | ● | ● | ● | ● | ● | ● | ● |
| Armrest RH side (for MC models) | ● | ● | ● | ● | ● | ● | ● | ● |
| Rear view mirrors (not available with Delux Cabin) | ● | ● | ● | ● | ● | ● | ● | ● |
| Convenience tray (*Only for MC models) | ● | ● | ● | ● | ● | ● | ● | ● |
| Delux Cabin | ● | ● | ● | ● | ● | ● | ● | ● |
| TYRES | | | | | | | | |
| Solid pneumatic tyres | ● | ● | ● | ● | ● | ● | ● | ● |
| Pneumatic tyres | ● | ● | ● | ● | ● | ● | ● | ● |
| Solid pneumatic dual drive tyres | ● | ● | ● | ● | ● | ● | ● | ● |
| Pneumatic dual drive tyres | ● | ● | ● | ● | ● | ● | ● | ● |
| ENVIRONMENT | | | | | | | | |
| Single element air cleaner | - | - | - | - | ● | ● | ● | ● |
| Double element air cleaner | ● | ● | ● | ● | ● | ● | ● | ● |
| Elevated exhaust | ● | ● | ● | ● | ● | ● | ● | ● |

Contact your dealer for additional standard and optional equipment.

GRENDIA EX FD / FG40-55(C)N3 Series DIESEL AND LPG COUNTERBALANCE TRUCKS

4.0 – 5.5 tonnes



Front LED working lights



Stylish, robust design



Auto-style pedals



Delux Cabin



Pneumatic tyres

WHEN RELIABILITY IS EVERYTHING...



GRENDIA
THE GREEN DIAMOND

The green colour of our trucks is a sign of our commitment to protecting the environment.

The diamond shapes in our logo are a reminder that – like a diamond – a Mitsubishi forklift truck guarantees quality, reliability and a sound investment.

Like any product bearing the "MITSUBISHI" name our materials handling equipment benefits from the tremendous heritage, huge resources and cutting-edge technology of one of the world's largest corporations – Mitsubishi Heavy Industries Group.

Engineering spacecraft, jet planes, power plants and more, MHI specialises in those technologies where performance, dependability and superiority decide your success or failure...

So when we promise you quality, reliability and value for money, you know it's a guarantee we have the power to deliver.

That's why every model in our award-winning and comprehensive range of lift trucks and warehouse equipment is built to a high specification – to ensure it keeps working for you. Day after day. Year after year. Whatever the job. Whatever the conditions.

YOU'LL NEVER WORK ALONE

As your local authorised dealer, we are here to keep your trucks working – through our extensive experience, our technical excellence and our commitment to customer care.

We are your local experts, backed by efficient channels to the entire organisation of Mitsubishi Forklift Trucks.

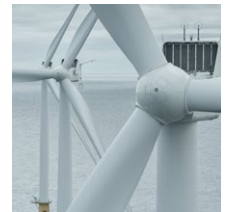
No matter where you are, we are close by – with the capability to meet your needs.

Discover how Mitsubishi Forklift Trucks give you more from your local authorised dealer or when you visit our website www.mitforklift.com

Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications or operating environment. Trucks may be shown with non-standard options. Specific performance requirements and locally available configurations should be discussed with your distributor of Mitsubishi forklift trucks. We follow a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

info@mitforklift.com

CESM2019 (07/20) © 2020 MLE



Mitsubishi Logisnext Europe B.V.
Hefbrugweg 77, 1332 AM Almere
The Netherlands
Tel: +31 (0)36 5494 411



mft2.eu/fb



mft2.eu/apps



mft2.eu/youtube



mft2.eu/facebook

