

F(D)(G)M40-55(C)NT



PRESENTED BY :

Internal Combustion Pneumatic Tire Forklift Trucks  
**4.0 – 5.5 TONS**

# COMFORT AND EFFICIENCY

Our TCM Forklift Trucks are crafted for an organised and clutter-free workspace, enhancing overall efficiency. With ergonomic controls, operator fatigue is minimised, leading to higher productivity and improved safety.

## SEAMLESS TRANSMISSION AND PRECISION HANDLING

Equipped with a 2-speed forward and 1-speed reverse automatic transmission, along with full hydrostatic steering and synchroniser, the F(D)(G)M40-55(C)NT series delivers exceptional manoeuvrability, even in the most confined areas.

## COMPREHENSIVE SAFETY CONTROLS

Our Integrated System for Safety automatically halts all operations and engages the electric parking brake when the operator vacates the seat, ensuring protection against accidental movements.

## AUTOMATIC FORK AND GEAR SECURITY

For enhanced safety, the fork automatically locks when the ignition is turned off, staying firmly in place even if accidentally bumped. Additionally, a neutral safety lock ensures the forklift truck cannot start if left in gear.

## WHISPER-QUIET AND FLUID PERFORMANCE

The 4.0 - 5.5 ton F(D)(G)M40-55(C)NT Forklift Trucks are designed with noise and vibration-dampening mounts on the full-floating powertrain that guarantee quieter and smoother operations.

## SOFT FORK DESCENT

This unique feature gently slows the forks as they near the ground, ensuring that valuable or delicate goods are safeguarded from harsh drops or impacts.

Note: only for simplex mast

# DRIVE PRODUCTIVITY WITH COMPREHENSIVE SOLUTIONS

| Model    | Fuel Type    | Capacity (kg) @ |          |
|----------|--------------|-----------------|----------|
|          |              | 500mm LC        | 600mm LC |
| FDM40NT  | Diesel       | 4000            | 3500     |
| FGM40NT  | Gas / LP Gas | 4000            | 3500     |
| FDM45NT  | Diesel       | 4500            | 4000     |
| FGM45NT  | Gas / LP Gas | 4500            | 4000     |
| FDM50CNT | Diesel       | 5000            | 4500     |
| FGM50CNT | Gas / LP Gas | 5000            | 4500     |
| FDM50NT  | Diesel       | –               | 5000     |
| FGM50NT  | Gas / LP Gas | –               | 5000     |
| FDM55NT  | Diesel       | –               | 5500     |
| FGM55NT  | Gas / LP Gas | –               | 5500     |

## CONVENIENT MAINTENANCE ACCESS

Maintenance is simplified with TCM Forklift Trucks, thanks to easily accessible engine covers and removable side panels. The tool-free design ensures that panel removal is quick and easy, allowing for hassle-free inspections and service.

## ENHANCED, LOW-MAINTENANCE BRAKING

Our advanced braking system is designed to minimise maintenance needs, eliminating the requirement for hub and drum removals, thereby significantly cutting down on service time and costs.



# INCREASED EFFICIENCY

Achieve maximum efficiency with a forklift truck engineered with all the critical features needed to simplify and enhance your operations.

## DURABLE MAST WITH SUPERIOR VISIBILITY

The F(D)(G)M40-55(C)NT series features a newly crafted steel mast that resists both twisting and bending. With narrow flanges and tapered fork bars, operators gain a clearer line of sight, while the optimised mast design and smart placement of cylinders and chains further enhance visibility.

## PROLONGED SERVICE INTERVALS\*

With extended engine oil change intervals now reaching 500 hours, up from 200 hours, your operations can enjoy increased uptime and reduced maintenance expenses.

Note: \*For diesel trucks

### Oil Change Intervals

Referenced to the recommended engine oil for F(D)(G)M40-55(C)NT Forklift Trucks:

- Conventional Vehicle: 200 hours
- F(D)(G)M40-55(C)NT: 500 hours\*

\*Note: Dependent on diesel quality and sulfur content.



## HIGH-PERFORMANCE, ECO-FRIENDLY ENGINES

Powered by the efficient S6S diesel engine and the electronically controlled GK45 gasoline engine, these engines meet stringent global emissions standards while delivering uncompromising power and efficiency.

## ENERGY EFFICIENCY AND EMISSION REDUCTION

The "Power / Soft Mode Switch" on our gasoline models lets you easily shift between power and eco modes, with the eco mode reducing CO<sub>2</sub> emissions by 13%.

## STURDY, BALANCED CONSTRUCTION

These 4.0 - 5.5 ton forklifts are engineered with a reinforced frame and a low center of gravity, providing increased stability and performance, especially when handling heavy loads.

## VEHICLE INFORMATION

Elevate safety and performance with our advanced digital display. Our advanced digital display offers precise, easy-to-read data on speed, load capacity, and essential operational metrics. The strategically positioned, bright LCD monitor provides instant insights into engine health, system diagnostics, and forklift truck activities.



# DEDICATED SUPPORT



# FROM EXPERIENCED PROFESSIONALS

## EXPERT SUPPORT FROM SKILLED PROFESSIONALS

TCM Forklift Truck dealers are renowned for delivering exceptional customer service, guiding you through every phase of your ownership experience. When you invest in a TCM Forklift Truck, you'll receive:

- Genuine TCM Forklift Truck parts
- Thorough Planned Maintenance services
- Access to a range of rental options
- Dealers conveniently located for your ease

## SCHEDULED MAINTENANCE FOR OPTIMAL PERFORMANCE

**Routine maintenance is essential** to keep your vehicle performing at its best and to extend its operational life. TCM Forklift Trucks are supported by planned maintenance programs, provided by experienced dealers dedicated to ensuring your forklift operates without a hitch. By scheduling maintenance in advance, you can avoid unplanned interruptions, seamlessly integrating upkeep into your regular operations. TCM's trained technicians expertly manage all maintenance activities, including fluid and lubricant checks, and proactively address any potential issues to prevent them from developing into major problems.

## TCM CARE PROGRAM (OPTIONAL)

**TCM Forklift Trucks** – come with one of the most comprehensive powertrain warranties available in the industry. By choosing the TCM Care Program for your new F(D)(G)M40-55(C)NT Forklift Truck, you're ensuring long-lasting protection. Should there be any issues with your powertrain components, it will be replaced with genuine parts, offering you a simple and dependable solution.

This coverage plan safeguards your investment for up to 3 years or 5,000 hours, whichever comes first. In the unlikely event of a powertrain malfunction, you can rest assured knowing that we've got you fully supported.

SPECIFICATION

| CHARACTERISTICS |                                                    |                                     |                   |                   |                        |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
|-----------------|----------------------------------------------------|-------------------------------------|-------------------|-------------------|------------------------|---------------------|-------|-------------|-------|----------|------|-----------------------|-------------|--------------|-------------|-------------|------|----------|-------------|--------------|---------|------|------|------|
| 1.1             | Type of Truck                                      |                                     |                   |                   |                        | DIESEL ENGINE TRUCK |       |             |       |          |      | GASOLINE ENGINE TRUCK |             |              |             |             |      |          |             |              |         |      |      |      |
| 1.2             | Model                                              |                                     |                   |                   |                        | FDM40NT             |       | FDM45NT     |       | FDM50CNT |      | FDM50NT               | FDM55NT     | FGM40NT      |             | FGM45NT     |      | FGM50CNT |             | FGM50NT      | FGM55NT |      |      |      |
| 1.3             | Load capacity                                      |                                     |                   | kg                |                        | 3500                | 4000  | 4000        | 4500  | 4500     | 5000 | 5000                  | 5500        | 3500         | 4000        | 4000        | 4500 | 4500     | 5000        | 5000         | 5500    |      |      |      |
| 1.4             | Load Center                                        |                                     |                   | mm                |                        | 600                 | 500   | 600         | 500   | 600      | 500  | 600                   |             | 600          | 500         | 600         | 500  | 600      | 500         | 600          |         |      |      |      |
| PERFORMANCE     |                                                    |                                     |                   |                   |                        |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 2.1             | Maximum Fork Height                                |                                     |                   | mm                | A                      | 3350                |       |             |       |          |      | 3360                  |             | 3350         |             |             |      |          |             | 3360         |         |      |      |      |
| 2.2             | Free Fork Height                                   |                                     |                   | mm                | B                      | 150                 |       |             |       |          |      | 160                   |             | 150          |             |             |      |          |             | 160          |         |      |      |      |
| 2.3             | Speeds                                             | Lifting                             | Loaded            | mm/s              |                        | 550                 |       |             |       | 470      |      |                       |             | 570          |             |             |      | 490      |             |              |         |      |      |      |
|                 |                                                    |                                     | Unloaded          | mm/s              | 610                    |                     |       |             | 530   |          |      |                       | 600         |              |             |             | 520  |          |             |              |         |      |      |      |
|                 |                                                    | Lowering                            | Loaded            | mm/s              | 500                    |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
|                 |                                                    |                                     | Unloaded          | mm/s              | 500                    |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 2.4             | Tilt                                               | Mast                                | Forward           | deg               | 6                      |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
|                 |                                                    |                                     | Backward          | deg               | 12                     |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 2.5             | Speeds                                             | Traveling                           | Loaded            | km/h              | 21.5                   |                     |       |             | 21.0  |          |      |                       | 22.0        |              |             |             |      |          | 21.5        |              |         |      |      |      |
|                 |                                                    |                                     | Unloaded          | km/h              | 22.0                   |                     |       |             |       |          | 22.5 |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 2.6             | Maximum Drawbar Pull                               | Stall                               | Loaded            | N                 | 37500                  |                     | 36500 |             | 37000 |          |      |                       | 38500       |              | 37500       |             |      |          |             |              |         |      |      |      |
| 2.7             | Drawbar Pull                                       | 1.6km/h                             | Loaded            | N                 | 27000                  |                     |       |             | 26500 |          |      |                       | 26000       |              | 28000       |             |      | 27500    |             |              | 27000   |      |      |      |
| 2.8             | Maximum Gradeability                               | Stationary on slope                 | Loaded            | %                 | 44.9                   | 42.5                | 39.4  | 37.4        | 35.5  | 33.9     | 32.3 | 30.1                  | 45.8        | 43.3         | 40.2        | 38.1        | 36.2 | 34.6     | 33.0        | 30.7         |         |      |      |      |
| 2.9             | Gradeability                                       | at 1.6km/h                          | Loaded            | %                 | 31.1                   | 29.1                | 28.0  | 26.4        | 25.0  | 23.8     | 22.6 | 20.8                  | 32.0        | 30.1         | 28.9        | 27.2        | 25.9 | 24.5     | 23.3        | 21.5         |         |      |      |      |
| 2.10            | Turning Radius                                     |                                     |                   | mm                | C                      | 2580                |       | 2730        |       | 2760     |      | 2890                  |             | 2940         |             | 2580        |      | 2730     |             | 2760         |         | 2890 | 2940 |      |
| 2.11            | Practical Intersecting Aisle Width                 | Single                              | with 1220mm forks | mm                |                        | 2320                |       | 2395        |       | 2415     |      | 2470                  |             | 2495         |             | 2320        |      | 2395     |             | 2415         |         | 2470 | 2495 |      |
| 2.12            | Practical Aisle for Right Angle Stacking           |                                     |                   | with 1220mm forks | mm                     |                     | 4370  |             | 4530  |          | 4560 |                       | 4710        |              | 4760        |             | 4370 |          | 4530        |              | 4560    |      | 4710 | 4760 |
| DIMENSIONS      |                                                    |                                     |                   |                   |                        |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 3.1             | Overall Length to Fork Face                        |                                     |                   | mm                | D                      | 3000                |       | 3130        |       | 3170     |      | 3310                  |             | 3360         |             | 3000        |      | 3130     |             | 3170         |         | 3310 | 3360 |      |
| 3.2             | Width                                              | with Standard Tires                 |                   | mm                | E                      | 1415                |       | 1460        |       |          |      |                       |             | 1415         |             | 1460        |      |          |             |              |         |      |      |      |
|                 |                                                    | with Normal duals (Optional)        |                   | mm                |                        | 1780                |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
|                 |                                                    | with Special Duals (Optional)       |                   | mm                |                        | 1965                |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 3.3             | Height                                             | with Lowered Mast                   |                   | mm                | F                      | 2320                |       |             |       | 2400     |      |                       |             | 2320         |             |             |      | 2400     |             |              |         |      |      |      |
|                 |                                                    | with Extended Mast (with Backrest)  |                   | mm                | G                      | 4570                |       |             |       |          |      | 4590                  |             |              |             | 4570        |      |          |             | 4590         |         |      |      |      |
|                 |                                                    | to Top of Overhead Guard            |                   | mm                | H                      | 2250                |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 3.4             | Forks (Thickness x Width x Length)                 |                                     |                   | mm                |                        | 50x150x1220         |       |             |       |          |      | 60x150x1220           |             |              | 50x150x1220 |             |      |          | 60x150x1220 |              |         |      |      |      |
| 3.5             | Forks Spread (Out-to-Out Minimum / Maximum)        |                                     |                   | mm                | J                      | 300-1190            |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 3.6             | Front Overhang (Center of Front Axle to Fork Face) |                                     |                   | mm                | K                      | 577                 |       |             |       | 582      |      | 602                   |             |              |             | 577         |      |          |             | 582          |         | 602  |      |      |
| 3.7             | Wheelbase                                          |                                     |                   | mm                | L                      | 1850                |       | 2000        |       |          |      | 2150                  |             | 1850         |             | 2000        |      |          |             | 2150         |         |      |      |      |
| 3.8             | Thread Width                                       | Front, standard tires               |                   | mm                | M                      | 1175                |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
|                 |                                                    | Front, Normal duals (optional)      |                   | mm                |                        | 1310                |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
|                 |                                                    | Front, special duals (optional)     |                   | mm                |                        | 1445                |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
|                 |                                                    | Rear Tires                          |                   | mm                | N                      | 1180                |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 3.9             | Ground Clearance                                   | at Lowest point outer mast          |                   | mm                |                        | 150                 |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
|                 |                                                    | at Center of Wheelbase              |                   | mm                |                        | 227                 |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 3.10            | Tire size                                          | Size Front, Standard                |                   |                   |                        | 8.25-15-14-PR       |       | 300-15-18PR |       |          |      |                       |             | 8.25-15-14PR |             | 300-15-18PR |      |          |             |              |         |      |      |      |
|                 |                                                    | Size Front, Normal dual (Optional)  |                   |                   |                        | 7.50-16-12PR        |       |             |       |          |      | NA                    |             | 7.50-16-12PR |             |             |      |          |             | NA           |         |      |      |      |
|                 |                                                    | Size Front, special dual (Optional) |                   |                   |                        | 8.25-15-12PR        |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
|                 |                                                    | Rear Tires                          |                   |                   |                        | 7.00-12-12PR        |       |             |       |          |      | 7.00-12-14PR          |             | 7.00-12-12PR |             |             |      |          |             | 7.00-12-14PR |         |      |      |      |
| WEIGHT          |                                                    |                                     |                   |                   |                        |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 4.1             | Machine Weight                                     | Powershift (standard) Tires         | kg                |                   | 5920                   |                     | 6330  |             | 6850  |          | 7300 |                       | 7640        |              | 5860        |             | 6270 |          | 6780        |              | 7240    | 7570 |      |      |
|                 |                                                    | Powershift (optional dual) Tires    | kg                |                   | 6050                   |                     | 6420  |             | 6930  |          | 7390 |                       | 7720        |              | 5980        |             | 6350 |          | 6870        |              | 7320    | 7660 |      |      |
|                 |                                                    | Powershift (special dual) Tires     | kg                |                   | 6120                   |                     | 6490  |             | 7000  |          | 7460 |                       | 7790        |              | 6060        |             | 6430 |          | 6940        |              | 7400    | 7730 |      |      |
| BRAKE           |                                                    |                                     |                   |                   |                        |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 5.1             | Service Brake Type                                 |                                     |                   |                   |                        | Hydraulic           |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 5.2             | Parking Brake Type                                 |                                     |                   |                   |                        | Hydraulic           |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| POWERTRAIN      |                                                    |                                     |                   |                   |                        |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 6.1             | Engine                                             | Model                               |                   |                   | S6S                    |                     |       |             |       |          |      |                       | GK45        |              |             |             |      |          |             |              |         |      |      |      |
|                 |                                                    | Max. Rated Power / rpm              | Kw/rpm            |                   | 57.5 / 2300            |                     |       |             |       |          |      |                       | 63.9 / 2450 |              |             |             |      |          |             |              |         |      |      |      |
|                 |                                                    | Max. Rated Torque / rpm             | Nm/pm             |                   | 260 / 1700             |                     |       |             |       |          |      |                       | 265 / 1600  |              |             |             |      |          |             |              |         |      |      |      |
|                 |                                                    | Displacement                        | cc                |                   | 4996                   |                     |       |             |       |          |      |                       | 4452        |              |             |             |      |          |             |              |         |      |      |      |
|                 |                                                    | Fuel Tank Capacity                  | L                 |                   | 87                     |                     | 105   |             |       |          |      |                       | 87          |              | 105         |             |      |          |             |              |         |      |      |      |
| 6.2             | Transmission                                       | Type                                |                   |                   | ATM (TORQUE CONVERTER) |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 6.3             | Number of Speed                                    | Forward                             |                   |                   | 2                      |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 6.4             |                                                    | Backward                            |                   |                   | 1                      |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |
| 6.5             | Relief Pressure                                    | For Attachments                     | Mpa               |                   | 19.1                   |                     |       |             |       |          |      |                       |             |              |             |             |      |          |             |              |         |      |      |      |

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