

TCM

Innovative Machine
INOMA



Diesel & Gasoline Counterbalanced Forklift Trucks
3.5 tons
(Class 5 sit-down type)



Load capacity	Power type	Model
3.5 tons	Diesel	FD35T4SE
	Gasoline	FG35T3S

Diesel & Gasoline Counterbalanced Forklift Trucks | 3.5 tons Class 5 sit-down type

Second to None, Revolutionary Forklift Trucks – Now available!

Building on its traditional product concept of superb performance and high quality, TCM announces the new 3.5-ton **INOMA** series forklift trucks, featuring superb ruggedness and operator friendliness. TCM has fully upgraded and redesigned the existing 3.5-ton **INOMA** series for easier access, greater comfort, improved maneuverability, enhanced safety, and longer life. Thanks to TCM's outstanding technological expertise and experience, the new 3.5-ton **INOMA** series still offers the top performance of its class, while providing outstanding operator comfort and safety.

Spacious cabin floor and wide steps

The floor area has been increased 45 percent, for more legroom, and the entry steps made substantially larger for easy entry and exit.



Right-side arrangement of the parking brake lever

The parking brake lever has been relocated to the right side of the operator's compartment, to allow for easier entry and exit.



Full-floating design reduces vibration

Engine and transmission are mounted in a full-floating design that uses four vibration-absorbing rubber mounts, to reduce vibration from the engine and the power train substantially.

Welded one-piece overhead guard

The overhead guard ceiling and front and rear legs are welded into a one-piece unit, to provide increased durability.



Instrument panel with LED indicators

LED indicators provide good visibility, even during daytime, and a long service life.



Wide forward view

Thanks to a new design of the mast system, the view forward has been improved by 50 percent to offer an excellent view of the fork tips in any position, thus achieving enhanced operator control and safety.



Small-diameter steering wheel with an outside diameter of 300 mm

The small-diameter steering wheel offers low effort steering to reduce operator fatigue and it facilitates easy access to the operator's seat.

Traveling and load handling interlock system

This system helps prevent an accident from happening by disabling the travel and load handling functions if the operator of the truck is not in the correct driving position or a control is moved unintentionally when he is not in the operator's seat.



The traveling interlock only shifts the transmission to neutral; it doesn't engage the brakes. Apply the parking brakes securely when leaving the truck.

Detachable side cover

The side cover can be opened easily with a single motion, to provide easy access to all the components in the engine room, for easier maintenance.



One-piece floorboard

The floorboard can be detached and reinstalled without any tools.

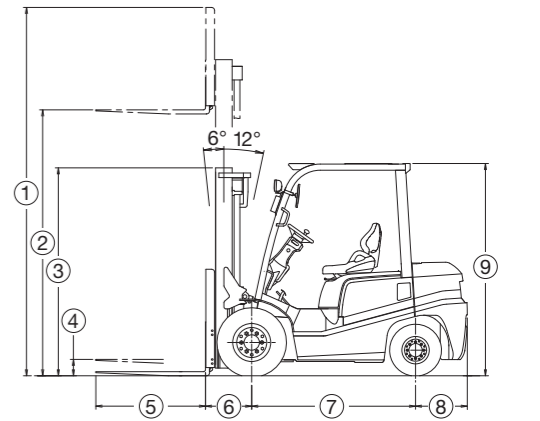
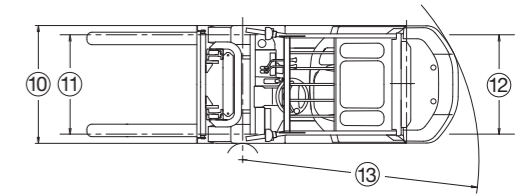


STANDARD SPECIFICATIONS

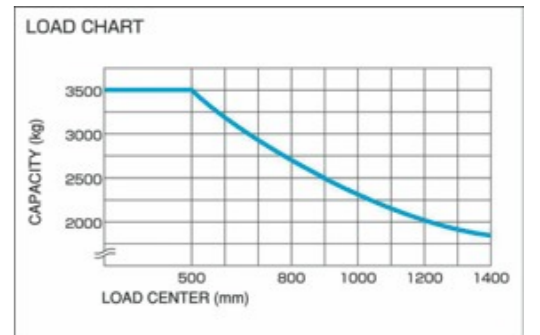
Characteristics			TCM	
			FD35T4SE	FG35T3S
1	Manufacturer			
2	Model		FD35T4SE	FG35T3S
3	Load Capacity	kg	3500	3500
4	Load Center	mm	500	500
5	Power Type		Diesel	Gasoline
6	Operator Position		Seated	Seated
7	Tire Type	Front / Rear	Pneumatic	Pneumatic
8	Wheels (x = driven)	Front / Rear	2X / 2	2X / 2
9	Maximum Fork Height		mm 2	3000
10	Free Lift		mm 4	170
13	Fork Size	L × W × T	mm 5	1070 × 150 × 50
	Fork Spread (Outside)	Max. / Min.	mm	1090 / 300
14	Tilt Angle	Fwd. / Bwd.	deg	6 / 12
15	Length to Fork Face		mm	2800
16	Overall Width		mm 10	1290
17	Mast Height Fork Lowered		mm 3	2135
18	Mast Height Fork Raised		mm 1	4255
19	Overhead Guard Height(EXE,EXN)		mm 9	2200
20	Operator's Seat Height		mm	1120
21	Turning Radius (Outside)		mm 13	2470
22	Load Distance (Centerline of front axle to front face of forks)	mm 6	495	495
	Rear Overhang	mm 8	605	605
23	Basic Right Angle Stacking Aisle Width		mm	4235
24	Travel, Max. (Fwd. / Rvs.)	Full Load	km/h	17.5
		No Load	km/h	18
	Lifting	Full Load	mm/sec	400
		No Load	mm/sec	420
	Lowering	Full Load	mm/sec	420
		No Load	mm/sec	450
28	Max. Drawbar Pull	Full Load	kN	15.9
		No Load	kN	10.8
30	Max. Gradeability*	Full Load	%	17
		No Load	%	17
32	Total Weight		kg	4920
33	Weight Distribution	Full Load	Front	kg
			Rear	kg
	No Load	Front	kg	
		Rear	kg	
35	Number	Front / Rear		2 / 2
36	Tires	Front		250-15-16PR(I)
		Rear		6.50-10-12PR(I)
38	Wheelbase		mm 7	1700
39	Tread	Front	mm 11	1060
		Rear	mm 12	970
	Backrest Height		mm	1220
	Overhead Guard Clearance		mm	1005
	Counterweight Height		mm	1180
	Drawbar Pin Center Height		mm	610
	Step Height / Floor Height		mm	485 / 730
40	Underclearance	Min. with Load	mm	145
41		Center of Wheelbase	mm	190
42	Brake	Service (Foot)		Hydraulic-Foot pedal
		Parking		Mechanical-Hand lever
45	Battery		V/AH	12 / 64
49	Make / Model			KUBOTA / V2403
50	Rated Horsepower / r.p.m.		kW	35.5 / 2600
51	Rated Torque / r.p.m.		N-m	156.5 / 1600
52	Internal Combustion Engine	Number of Cylinder		4
		Piston Displacement	cc	2434
		Alternator output	kW/Amp	0.72 / 60
		Fuel Tank Capacity Type	liter	70
55	Transmission	Type		Power-shift
		Stage	Fwd.-Rvs.	1-1
57	Operating Pressure For Attachments		MPa (psi)	17.7

NOTE : * Computed values.

STANDARD DIMENSIONS



LOAD CHART



STANDARD EQUIPMENT AND ACCESSORIES

[Equipment]

- Adjustable ORS seat with belt
- Asbestos-free brake shoe materials
- Cylinder type bonnet latch with locking function
- Donaldson dry type cyclopac air-cleaner
- Drawbar device
- Durable overhead guard with resin screen
- Engine auto glow system (Diesel)
- Engine idle-up device(Gasoline)
- Flow control valve
- Fuel water sedimenter (Diesel)
- Full hydrostatic power steering
- Full transistorized ignition (Gasoline)
- Hydraulic oil dipstick
- Interlock system
- ITA class III carriage
- J-lug pneumatic industrial tires
- Lift circuit cut-off valve
- Load backrest
- Radiator coolant reservoir
- Return hydraulic filter
- Suction hydraulic strainer
- Tilt lock valve
- Transmission oil dipstick (power shift T/M)
- Transmission oil filter (power shift T/M)
- Wide view two stage mast(VM300)
- 1070mm forks
- 2-spool control valve with pressure relief

[Controls]

- Electric shift control lever (direction change)
- Lift and tilt levers
- Multi-function switch lever with self-cancelling mechanism (Lighting & turn-signal)
- Parking brake lever with inter-lock
- Tilt adjustable steering post
- Neutral safety mechanism

[Accessories]

- Access-assisted hand grip
- Back-up buzzer
- Back-up lights
- Deluxe floor mat
- Detachable and portable glove box
- Electric horn
- Front combination lights (turn signal, clearance)
- Head lights - traffic purpose
- High-mounted rear combination lights
- Operator tool kit
- Pen/ Cup holder
- Side view mirrors

[Instruments and Switch]

- Charge indicator
- Engine oil pressure warning indicator
- Fuel gauge
- Glow indicator (Diesel)
- Hourmeter
- Ignition key engine stop (Diesel)
- Neutral safety switch
- Fuel water sedimenter indicator (Diesel)
- Water temperature gauge

OPTIONAL LOADING ATTACHMENT

- Alternative fork lengths
- Alternative lengths fork extension sleeve
- Crane arm (CA)
- Fork positioner hydraulic type(Hook-on/ Integral)(FS)
- High, wide type load backrest
- Hinged forks/ scoop (HFS)
- Ram attachment (RA)
- Rotating forks (Hook-on/ Integral type) (RF)
- Side-shifter(Hook-on/ Integral) (SS)
- Wide type fork carriage
- Wide view full free 2-stage (VFM) mast
- Wide view full free 3-stage (VFHM) mast

NOTE :

- Meets following major standards and code:
ISO 1074 Counter Balanced Lift Trucks, Stability & Safety Test (Int'l)
ISO 3691 Powered industrial trucks - safety code
JIS D6001 Industrial Lift Trucks (Japan)
JIS D6011 Stability & Safety Test (Japan)
- Overhead guard meets ISO 6055, JIS 6021
- In conformity with provision of the Machinery Directive 2006/42/EC, as amended, and with National implementing legislation:
(European and Scandinavian export trucks)
- Specifications are subject to change without notice and its may vary depending on markets.
Please consult your TCM representative for details.

OPTIONAL EQUIPMENT AND ACCESSORIES

[Equipment]

- Auxiliary hydraulic valve modules(max. 5spool)
- Color tire (white, green)
- Dual element aircleaner(ADE)
- Exhaust purify catalytic muffler(EPM)(Diesel)
- Fingertip hydraulic valve control (FIT)
- Front dual drive wheels(DD)
- Heater(HR)
- Load sensing valve (VLS)
- LPG exclusive/ Dual fuel(LPG - Gasoline) package
- Non-slip differential(power shift T/M)
- Overhead exhaust system(TUE)
- Overhead guard/ High profile
- Plate fin type radiator(RAD PF)
- Pre-cleaner engine air intake(CAK B)(Gasoline)
- Radiator dust screen (fine, medium mesh)
- Smoke reduction/spark arrester muffler (Diesel)
- Synchronised steering mechanism(SRS)
- Unique cushion tires(SE)

[Accessories]

- Custom paint-work
- Rear working light(RWL)
- Rotating warning light(RLY/RLR)
- Tilt cylinder boots(TLB)

[Instruments and Switch]

- Ammeter (AM)
- O.K. monitor (fuel level, battery electrolyte level, coolant level, parking brake, air-cleaner, seat-belt)
- Speedometer (SM)
- Torque converter oil pressure gauge (TPM)
- Torque converter oil temperature gauge (power shift T/M)

Others on request



ISO 9001 Certification
(TCM Shiga Plant)

ISO 14001 Certification
(TCM Shiga Plant)

Manufactured by

TCM[®]

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