



TCM

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Produced in ISO certified factory.

PRESENTED BY:





ENGINEERED FOR YOUR OPERATIONAL EXCELLENCE



Streamlined Maintenance Locations for Effortless Examination and Care

Effortless inspection and maintenance are made possible through an extendable engine hood, detachable side panels, and strategically centralized maintenance stations. Additionally, intervals between oil changes and lubrication needs contribute to decreased maintenance expenses.

DEFINING NEW BENCHMARKS

A Progressive Leap into Advanced Performance

Through the integration of technologies, the **TCM** *iNOMA* series introduces a new era of superior capabilities, while upholding environmental stewardship. The advanced engine system within the *iNOMA* lineup embodies exceptional fuel efficiency and ultra-low emissions, surpassing global environmental standards. Beyond its innovative engine, **TCM** Forklift Trucks prioritise operator comfort and elevated safety. Each *iNOMA* forklift seamlessly incorporates a system for heightened safety and accident prevention. Enhanced by LCD graphic displays and digital monitoring systems, the *iNOMA* series exemplifies enhanced safety and efficiency. This is the future of forklifts, available today.



FULFILLING ENVIRONMENTAL DEMANDS OF TODAY AND TOMORROW

Innovative Electronically Controlled Gasoline Engine

TCM *iNOMA*'s offers electronic control engine as a standard, for this entire range of gasoline trucks. The *iNOMA* model achieves remarkable environmental standards while upholding exceptional performance and reliability levels. Furthermore, the engine comes equipped with wheelspin suppression to improve fuel efficiency and reduce torque loss.



Dual-Level High / Low Speed Limiter

The *iNOMA*'s automatic speed limiter offers two levels – outdoor (HIGH) and indoor (LOW). Operators can easily switch between these speed limits, tailoring fuel efficiency to the specific location's demands.

Power / Efficiency Mode Switch

For diverse tasks, two power levels are available: **POWER mode**, maximising power output, and **SOFT mode** for optimal fuel efficiency and reduced noise levels.

High Dependability Diesel Engine

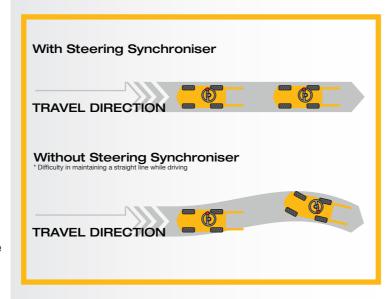
Retaining the well-regarded performance levels of the esteemed TCM Diesel Engine, the *iNOMA* series now integrates eco-friendly enhancements. These upgraded engines achieve low emission levels without ompromising horsepower or reliability.

Serene Design for Maximum Comfort and Reduced Fatigue

With attributes such as a low-noise engine, heightened engine compartment soundproofing, and floor-level noise dampening, **TCM Forklift Trucks** have created a serene working environment for both operators and the surrounding workspace.

Steering Synchronizer

Equipped with full hydrostatic steering, steering becomes effortless, yet maintaining a straight trajectory can be challenging without constant adjustments. Such challenges are particularly pronounced in confined spaces like containers. The steering synchronizer proactively detects and eliminates misalignments, ensuring steady motion without the need for continuous steering wheel adjustments.



PRIORITIZING SAFETY: INNOVATIVE AND DEPENDABLE SAFETY INNOVATIONS

Integrated System for Safety

The TCM *iNOMA* model is equipped with an Integrated System, an integrated active safety solution meticulously designed to enhance vehicle safety by proactively detecting issues before they escalate into accidents. This system not only ensures safety during vehicle operation but also prevents errors when the operator is not seated, thus safeguarding both the operator and the work environment from potential mishaps.

Seamlessly Incorporated Digital Monitoring

Within the cab, digital displays offer simplified monitoring of systems and controls. Illuminating upon ignition activation, the digital panel provides quick assessments of speed, load weight, and system status.



Mast and Travel Interlock

TCM **iNOMA** forklifts are outfitted with a mast and travel interlock protection mechanism linked to the operator's seat. When the operator is not seated, this mechanism automatically locks the mast and, for torque-converter models, the vehicle's movement itself, preventing potential injury or property damage.



Secure Lift Lock

The fork on TCM **iNOMA** models is automatically locked upon ignition deactivation, ensuring it remains in position even if the lift lever isaccidentally nudged or shifted.

Neutral Safety Assurance

Present in all vehicles, encompassing both torqueconverter-equipped and direct drive models, an embedded Neutral Safety mechanism prevents engine ignition unless the forward/backward lever is in neutral.

Broad Forward Visibility, Clear Rear View

Distinguishing itself from some forklifts, TCM *iNOMA* models offer expansive front visibility extending from fork tip to mast apex. Improved rear visibility is achieved through the compact tail design of the *iNOMA* series.

Elevated Rear Combination Lighting

All TCM **iNOMA** models are equipped with high-mounted rear combination lamps positioned above the protective head guard, providing unmistakable braking and stopping signals to trailing vehicles and pedestrians.

Wheel Spin Suppression Adaption Function (Gasoline Electronic Engine)

- 1) The throttle is set to operate slowly in response to pressing on the accelerator, so that the throttle is not fully activated even when the accelerator is fully pressed down. Reduce loss torque such as torque control stall by gradually open the throttle with slope in consideration of power performance and the accelerator opening features.
- 2) Optimized throttle opening to improve fuel efficiency. Conventionally, over-speeding above the rated speed of 2,700 rpm was controlled by retarding the ignition timing. => The above two controls reduce unnecessary fuel injection and improve fuel efficiency.



ignition unless the forward/backward lever is in neutral

EXCELLENT PERFORMANCE, POWERFUL LIFTING CAPACITY

TCM forklift trucks are constructed with a low centre of gravity frame that optimises vehicle balance and stability during lifting. That means a greater load capacity with much greater stability. The high-torque, high-power engine maintains a stable lift speed regardless of the load, helping operators to increase productivity.

Excellent Lifting Ability

Lift speed:

- o 640mm/s (when loaded)
- o 660mm/s (when not loaded)

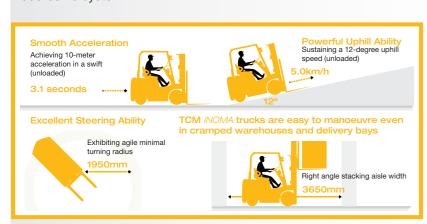


Soft Landings

Another exclusive feature found on the TCM *INOMA* is a soft landing system that activates when the fork nears the ground, automatically protecting loads from hard drops or shocks. (Only for two-stage mast)

Smooth Running

The high power engine and the high performance transmission are perfectly matched to produce an extremely smooth start/acceleration as well as excellent traction even on uphill slopes. Excellent braking and stopping control is provided by a robust and reliable due-servo system.





OPTIONAL COMPONENTS

• ENGINE CUT OFF FUNCTION (AUTO STOP)

Prevent idling.

Default: 60 seconds setting.

- a. Engine Stop
- b. Power off for electric components connected to electric circuit below ignition switch such as meter panel, engine and so on.
- c. Excepted components; VCM, lamps and horn.

Reduces excess fuel consumption due to unnecessary idling.



GASOLINE/LPG ENGINE GK21/25

EASY OPERATION. DRIVER COMFORT

- Suspension seat with hip support mechanism. Ability to adjust position and extent of reclining according to body shape for maximum comfort.
 Seat belt fitted with warning light. Soft-grip handle makes getting in and out easier
- o Inching pedal allows delicate movements.
- Electric shift lever can be moved back and forth at the touch of a finger.
- Switches for optional functions positioned on the right side of the dashboard.
- Acrylic roof (Option) for comfortable operation in outdoor conditions.
 Easily installed and uninstalled.
- o Combination switch integrating indicators and headlight switches.
- Tiltable steering column
- Power-train full floating structure for excellent vibration reduction. The entire power-train is supported by vibration absorbing rubber mounts.
- Fully hydraulic power steering. The full hydraulic steering allows for effortless steering even if the truck is in a stationary position.
- Colour display. The LCD colour display provides a visually clear interface, making it easy to read and interpret essential operator signals.



OPTIONAL COMPONENTS

• FINGERTIP CONTROL LEVER / ARMREST FNR

Forward and Reverse Switching (FNR switch controller) at armrest will be replaced as the Standard setting. (If the FNR switch is attached, there is no forward and backward switching lever under the steering.)

Fingertip control. A function that allows cargo handling operations such as lifts and tilts to be performed with fingertip operation. This can be operated with arm on the armrest.

• SINGLE CONTROL LEVER

Lift up/down and tilt forward/backward operation with a single lever.

• SMOOTH-RUN SYSTEM

Reduces the vibration of the load during lift operation and driving toprevent the load from collapsing. **An accumulator** is mounted on the step.

TILT HORIZONTAL CONTROL

Tilt horizontal control button enables tilt forward stops at horizontal position of forks. By pressing the **tilt horizontal** support button while operating the lever, difficult tilt horizontal work can be easily performed.

• LASER POINTER

Laser pointer is indicated when the fork is in horizontal position, making it possible to visually grasp the fork height. (The LED lamp attached to the mast indicates that it is horizontal.)

SMOOTH SHIFT *This option is only available only for gasolir truck with forgue convertor transmission.

(Transmission Full Reverse Protection)

Transmission protection function.

a.A function that changes shifts only when a truck speed is low (4.5 km/h or less). It is necessary to release the accelerator once to change shifts.

Sudden Starts Prevention Function

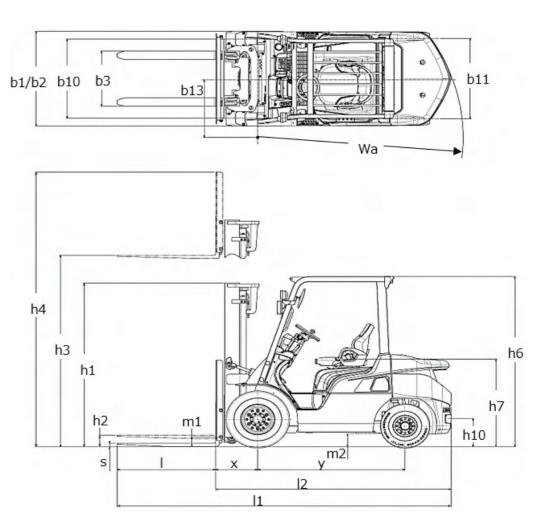
b. When Forward or Reverse is applied, the gear does not switch to Forward or Reverse while the engine speed is high.

SPECIFICATIONS

	_	CHARACTERISTICS									
	11	Manufacturer (abbreviation)	T		тсм	тсм	тсм	тсм	тсм	тсм	TCM
\$	1.1	Manufacturer's model designation			FDM15P(T)(D)	FDM18P(T)(D)	FDM20CP(T)(D)	FDM20P(T)(D)	FDM25P(T)(D)	FDM30P(T)(D)	FDM35P(T)(D)
ŝ	1.2	Power source: Battery, Diesel. LPG, Petrol			Diesel						
-	1.4	Operator type: pedestrian, (operator)-standing, -seated			Seated						
ш.	1.5	Load capacity	Q	kg	1500	1750	2000	2000	2500	3000	3500
	1.6	Load center distance	C	mm	500	500	500	500	500	500	500
	1.7	Load distance, axle to fork face	X	mm	400	400	415	455	460	495	495
		Wheelbase	V	mm	1400	1400	1400	1600	1600	1700	1700
		WEIGHTS									
	2.1	Truck weight without load / including battery (simplex mast, lowest lift height)		kg	2530	2720	3030	3380	3680	4350	4740
	2.2	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)		kg	3520/510	3880/590	4330/700	4640/740	5430/750	6510/840	7220/1020
	2.3	Axle loading without load, front/rear (simplex mast, lowest lift height)		kg	1060/1470	1000/1720	1020/2010	1450/1930	1430/2250	1750/2600	1670/3070
103		WHEELS, DRIVE TRAIN	_								
		Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear			L/L	L/L	SE / SE	L/L	L/L	L/L	L/L
	3.2	Tyre dimensions, front			6.50-10	6.50-10	6.50-10/5.00	7.00-12	7.00-12	28x9-15	250-15
==1	3.3	Tyre dimensions, rear			5.00-8	5.00-8	5.00-8/3.00	6.00-9	6.00-9	6.50-10	6.50-10
		Number of wheels, front/rear (x=driven)	1.40		2x / 2						
		(,,,	b10	mm	890	890	890	960	960	1060	1060
	ა.0	Track width (center of tyres), rear DIMENSIONS	b11	mm	900	900	900	980	980	980	980
	4.1	Mast tilt, forwards/backwards	∂/β	0	6/12	6/12	6/12	6/12	6/12	6/12	6/12
	4.1	Height with mast lowered (see tables)	h1	mm	1990	1990	1990	1990	1990	2015	2130
	4.2	Free (fit (see tables)	h2	mm	115	115	120	140	140	145	145
	4.4	Lift height (see tables)	h3	mm	3000	3000	3000	3000	3000	3000	3000
	4.5	Overall height with mast raised	h4	mm	4055	4055	4055	4055	4055	4055	4055
	4.6	Height to top of overhead guard	h6	mm	2065	2065	2065	2074	2074	2093	2103
	4.7	Seat height	h7	mm	929	929	929	938	938	988	988
	4.8	Tow coupling height	h10	mm	290	290	290	310	310	330	340
	4.9	Overall length	11	mm	3180	3220	3275	3405	3480	3805	3865
	4.10	Length to fork face (includes fork thickness)	12	mm	2260	2300	2355	2485	2560	2735	2795
		Overall width	b1/b2	mm	1065 / 1480	1065 / 1480	1065 / -	1150 / 1640	1150 / 1640	1275 / 1710	1290 / 1710
		Fork dimensions (thickness, width, length)	s/e/l	mm	35x100x920	35x100x920	45x100x920	45x100x920	45x100x920	45x122x1070	45x122x1070
		Fork carriage to DIN 15 173 A/B/no			2A	2A	2A	2A	2A	3A	3A
		Fork carriage width	b3	mm	920	920	920	1000	1000	1000	1000
		Ground clearance under mast, with load	m1	mm	110	110	110	115	115	135	150
		Ground clearance at center of wheelbase, with load (forks lowered)	m2	mm	150	150	150	160	160	190	200
		Working aisle width with 1000 x 1200 mm pallets, crosswise	Ast	mm	3550	3580	3635	3855	3890	4075	4135
		Working aisle width with 800 x 1200 mm pallets, crosswise Working aisle width with 800 x 1200 mm pallets, lengthwise	Ast	mm	3350	3380	3435	3655	3690	3875	3935
		Turning circle radius	Wa	mm	3750	3780	3835	4055	4090	4275	4335
		Minimum distance between centers of rotation	b13	mm	1950 555	1980 555	2020 555	2200	2230	2380 780	2440
	1.21	PERFORMANCE	010		333	555	000	715	715	700	780
	5.1	Travel speed, with/without load	T	km/h	18.5/19.0	18.5/19.0	18.5/19.0	18.0/18.5	18.0/18.5	17.5/18.0	18.0/18.5
		Lifting speed, with/without load		m/s	0.64/0.66	0.64/0.66	0.64/0.66	0.61/0.64	0.61/0.64	0.49/0.50	0.41/0.42
		Lowering speed, with/without load		mls	0.52/0.45	0.52/0.45	0.52/0.45	0.51/0.45	0.51/0.45	0.51/0.41	0.43/0.31
		Rated drawbar pull, with load (Powershift)		N	12800	12700	12600	15800	15600	15700	14900
	5.5	Rated drawbar pull, without load (Powershift)		N	6800	6500	6500	9400	9300	11200	10500
		Rated drawbar pull, with load (Manual)		N	11100	11100	10900	14100	14000	14300	13400
		Gradeability, with load (Powershift)		%	34	30	26	31	27	22	19
		Gradeability, with load (Manual)		%	29	26	22	28	23	20	17
	5.9	Services brakes (mechanical/hydraulic/electric/pneumatic		S	Hydraulic						
		IC Engine									
		Manufacturer / Type			S4Q2	S4Q2	S4Q2	S4S	S4S	S4S	S4S
		Rated / Nominal output to ISO 1585**		kW	30.0	30.0	30.0	38.1	38.1	38.1	38.1
		Rated speed to DIN 70 020		rpm	2500	2500	2500	2250	2250	2250	2250
		Number of cylinders / cubic capacity	1.	cm ³	4 / 2505	4 / 2505	4 / 2505	4/3331	4 / 3331	4 / 3331	4/3331
		Fuel consumption according to VDI 80 cycle		h / kg/h	2.30/-	2.35/-	2.35/-	2.55/-	3.20/-	3.40/-	3.50/-
		Max torque Max torque at engine speed		Nm	131	131	131	185	185	185	185
	U.1	MISCELLANEOUS		rpm	1800	1800	1800	1700	1700	1700	1700
	7.1	Type of drive control			Powershift 1/1						
		Maximum operating pressure for attachments		bar	180	180	180	180	180	180	180
		Oil flow for attachments		I/min	62	62	62	75	75	73	73
		Noise level, value at operator's ear (EN 12053)		dB(A)	80	80	80	78	78	78	78
	7.5	Towing coupling design / DIN type, ref.			pin						
L											

F(D)(G)M15~35(C)P(T)(D)(H)

INOMA SERIES



07 08

SPECIFICATIONS

	CHARACTERISTICS										
1.	1.1 Manufacturer (abbreviation)		тсм	TCM	тсм	TCM	TCM	TCM	TCM	TCM	тсм
1.3	1.2 Manufacturer's model designation		FGM15P(T)(D)	FGM18P(T)(D)	FGM20CP(T)(D)	FGM20P(T)(D)	FGM20P(T)(D)H	FGM25P(T)(D)	FGM25P(T)(D)H	FGM30P(T)(D)	FGM35P(T)(D)
P-2-7	1.3 Power source: Battery, Diesel. LPG, Petrol		Petrol/LPG								
STATE OF	1.4 Operator type: pedestrian, (operator)-standing, -seated		Seated								
	1.5 Load capacity	Q kg	1500	1750	2000	2000	2000	2500	2500	3000	3500
	1.6 Load center distance		500	500	500	500	500	500	500	500	500
	1.7 Load distance, axle to fork face		400	400	415	455	455	460	460	495	495
	1.8 Wheelbase	/ mm	1400	1400	1400	1600	1600	1600	1600	1700	1700
	WEIGHTS	, , , , , , , , , , , , , , , , , , , ,	1 100	1 100	1 100		1000	1000	1000	1700	1700
2.	2.1 Truck weight without load / including battery (simplex mast, lowest lift height)	kg	2490	2690	3010	3300	3300	3600	3600	4240	4630
1000	2.2 Axle loading with maximum load, front/rear (simplex mast, lowest lift height)	kg	3510/460	3870/540	4320/660	4600/670	4600/670	5390/680	5390/680	6470/770	7180/950
	2.3 Axle loading without load, front/rear (simplex mast, lowest lift height)	kg	1040/1430	990/1670	1010/1970	1410/1860	1410/1860	1390/2180	1390/2180	1710/2530	1630/3000
***	WHEELS, DRIVE TRAIN	3		333,7313	1010,1010						10000000
3.	3.1 Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear		L/L	L/L	SE / SE	L/L	L/L	L/L	L/L	L/L	L/L
3.	3.2 Tyre dimensions, front		6.50-10	6.50-10	6.50-10/5.00	7.00-12	7.00-12	7.00-12	7.00-12	28x9-15	250 -15
3.	3.3 Tyre dimensions, rear		5.00-8	5.00-8	5.00-8/3.00	6.00-9	6.00-9	6.00-9	6.00-9	6.50-10	6.50-10
3.	3.4 Number of wheels, front/rear (x=driven)		2x / 2								
3.	3.5 Track width (center of tyres), front	o10 mm	890	890	890	890	890	960	960	1060	1060
3.	3.6 Track width (center of tyres), rear	o11 mm	900	900	900	900	900	980	980	980	980
700	DIMENSIONS										
4.	4.1 Mast tilt, forwards/backwards	∂/ß °	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12	6/12
4.	·	h1 mm	1990	1990	1990	1990	1990	1990	1990	2015	2130
4.	4.3 Free Ifit (see tables)	h2 mm	115	115	120	140	140	140	140	145	145
4.		h3 mm	3000	3000	3000	3000	3000	3000	3000	3000	3000
4.	4.5 Overall height with mast raised	h4 mm	4055	4055	4055	4055	4055	4055	4055	4055	4055
4.	4.6 Height to top of overhead guard	h6 mm	2065	2065	2065	2074	2074	2074	2074	2093	2103
4.	4.7 Seat height	h7 mm	929	929	929	938	938	938	938	988	988
4.	4.8 Tow coupling height	h10 mm	290	290	290	310	310	310	310	330	340
4.	4.9 Overall length	1 mm	3180	3220	3275	3405	3405	3480	3480	3805	3865
4.1	4.10 Length to fork face (includes fork thickness)	2 mm	2260	2300	2355	2485	2485	2560	2560	2735	2795
		b1/b2 mm	1065/-	1065/-	1065/-	1150 / 1640	1150 / 1640	1150 / 1640	1150 / 1640	1275 / 1710	1290 / 1710
4.1	4.12 Fork dimensions (thickness, width, length)	s/e/I mm	35x100x920	35x100x920	45x100x920	45x100x920	45x100x920	45x100x920	45x100x920	45x122x1070	45x122x1070
4.1	4.13 Fork carriage to DIN 15 173 A/B/no		2A	3A	3A						
4.1	4.14 Fork carriage width	b3 mm	920	920	920	1000	1000	1000	1000	1000	1000
		m1 mm	110	110	110	115	115	115	115	135	150
4.1		m2 mm	150	150	150	160	160	160	160	190	200
4.1	4.17 Working aisle width with 1000 x 1200 mm pallets, crosswise	Ast mm	3550	3580	3635	3855	3855	3890	3890	4075	4135
	Training area tr	Ast mm	3350	3380	3435	3655	3655	3690	3690	3875	3935
	4.19 Working aisle width with 800 x 1200 mm pallets, lengthwise		3750	3780	3835	4055	4055	4090	4090	4275	4335
	3	Wa mm	1950	1980	2020	2200	2200	2230	2230	2380	2440
4.2		b13 mm	555	555	555	715	715	715	715	780	780
	PERFORMANCE		10.5115		10.5115	40		10		10.5115	
	5.1 Travel speed, with/without load	km/h	19.0/19.5	19.0/19.5	19.0/19.5	18.5/19.0	18.5/19.0	18.5/19.0	18.5/19.0	18.0/18.5	18.5/19.0
	5.2 Lifting speed, with/without load	m/s	0.63/0.64	0.63/0.64	0.63/0.64	0.58/0.58	0.64/0.64	0.58/0.58	0.64/0.64	0.51/0.50	0.43/0.42
	5.3 Lowering speed, with/without load	mls	0.52/0.45	0.52/0.45	0.52/0.45	0.51/0.45	0.51/0.45	0.51/0.45	0.51/0.45	0.51/0.41	0.43/0.31
	5.4 Rated drawbar pull, with load (Powershift)	N	13800/14600	13700/14600	13500/14400	13800/14700	16100/17300	13600/14500	15900/17100	16200/17400	15400/16600
	5.5 Rated drawbar pull, with load (Powershift)	N	6800/6800	6400/6400	6500/6500	9100/9100	9100/9100	9000/9000	9100/9100	10900/10900	10400/10400
	5.6 Rated drawbar pull, with load (Manual)	N o/	12100/13400	12100/13500	11900/13100	12200/13400	17000/18100	12000/13400	17100/18000	15500/16600	14500/15700
	5.7 Gradeability, with load (Powershift) 5.8 Gradeability, with load (Manual)	% %	38/40	33/36	29/31	28/30	33/35	23/25	28/30	23/25	20/21
			32/36	29/32	25/27	24/26	34/37	20/22	30/31	22/24	18/201
5.1		S	Hydraulic								
	IC Engine		CIVO4	CVO4	CIVO4	01/04	0/05	01/04	CVOE	CVOE	CVOE
	6.1 Manufacturer / Type	1347	GK21	GK21	GK21	GK21	GK25	GK21	GK25	GK25	GK25
	6.2 Rated / Nominal output to ISO 1585**	kW	36.0 2700	36.0 2700	36.0 2700	36.0 2700	42.0 2700	36.0	42.0 2700	42.0 2700	42.0 2700
	6.3 Rated speed to DIN 70 020 6.4 Number of cylinders / cubic capacity	rpm		4 / 2065		4 / 2065	4 / 2488	2700	4 / 2488		
	6.4 Number of cylinders / cubic capacity 6.5 Fuel consumption according to VDI 60 cycle	CM3	4 / 2065		4 / 2065	- / 3.60		4 / 2065		4 / 2488	4 / 2488
	6.6 Max torque	I/h / kg/h Nm	- / 2.70 149	- / 3.00 149	- / 3.40 149	- / 3.60 149	- / 3.90 185	- / 4.10 149	- / 4.50 185	- / 5.30 185	- / 6.00 185
	6.7 Max torque at engine speed	rpm	1800	1800	1800	1800	1400	1800	1400	1400	1400
U.		ipiii	1000	1000	1000	1000	1400	1000	1400	1400	1400
7	MISCELLANEOUS 7.1 Type of drive control		Powershift 1/1								
	71	har		180		180	180	180			
		bar I/min	180	60	180	60	60		180	180	180
	7.3 Oil flow for attachments 7.4 Noise level, value at operator's ear (EN 12053)	I/min dB(A)	60 79		60	79	79	60 79	60	60	60
	7.4 Noise level, value at operator's ear (EN 12033) 7.5 Towing coupling design / DIN type, ref.	UD(A)		79	79	79 pin			79	79	79
7.	7.0 Towning coupling design / Dily type, ref.		pin	pin	pin	μш	pin	pin	pin	pin	pin

F(D)(G)M15~35(C)P(T)(D)(H)

INOMA SERIES

