

- 2500kg and 3000kg Diesel and LP Gas lift trucks
- Supercushion and Pneumatic tyres
- High productivity Hydrostatic Transmission with “power up” hydraulics
- Focus on driver comfort and low operating costs



Truck shown with optional equipment

## Main advantages of the TFH range

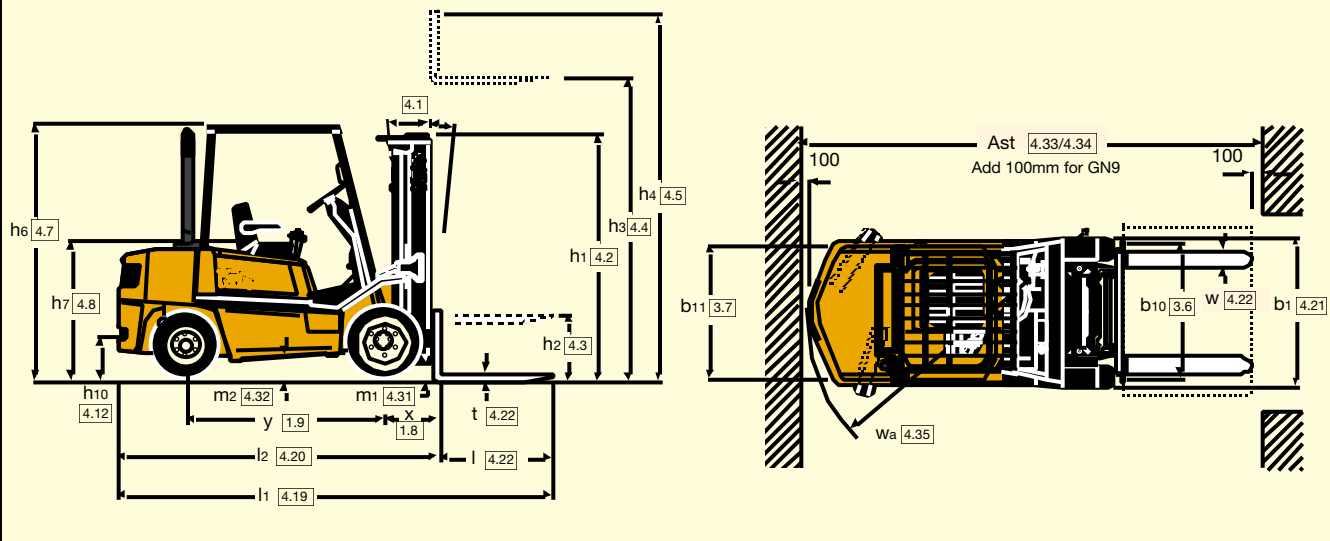
### Operator comfort

- Transmission braking
- Fully suspended operator module reduces operator fatigue
- Spacious operator compartment with low open step and hand grip for easy access
- Low noise levels
- Comprehensive dash display
- Automotive control layout and “power up” hydraulic control

### Industry and application versatility

- Hydrostatic transmission and “power up” hydraulics provide outstanding performance and productivity
- Low emissions, fuel efficient Diesel and high power GM 3L LP gas engine
- Compact dimensions, ideal for low headroom applications
- Easy access for servicing

## Truck Dimensions



## Mast details and capacity ratings (kg) - Supercushion tyres

Model		25 TFH													
Tyres		7.00 x 12													
Width across tyres		1155mm													
Mast	OAH	FFH	MFH	h1	h2	h3	h4	Tilt		Forks			Integral Sideshift		
								F	B	500	600	700	500	600	700
										LC	LC	LC	LC	LC	LC
2-Stg. LFL (V)	*2020	140	3030	3840	6	10				2500	2350	2150	2480	2260	2070
	2170	140	3330	3940	6	10				2500	2350	2150	2470	2250	2060
	2420	140	3830	4440	6	5				2500	2340	2140	2460	2240	2060
	2770	140	4330	4940	6	5				2500	2320	2120	2450	2230	2040
	*3020	140	4830	5440	6	5				2400	2220	2030	2340	2130	1950
2-Stg. FFL (F)	*2020	1415	3000	3630	6	10				2500	2350	2150	2490	2260	2070
	2170	1585	3300	3930	6	10				2500	2350	2150	2480	2260	2070
	*2420	1815	3820	4430	6	5				2500	2340	2140	2470	2240	2060
3-Stg. FFL (E)	1970	1390	4350	4935	6	5				2500	2350	2150	2470	2250	2060
	2170	1590	4950	5535	6	5				2380	2220	2030	2340	2130	1950
	*2270	1690	5100	5686	6	5				2340	2190	2000	2300	2090	1920
	2420	1840	5550	6135	6	5				2240**	2080**	1900**	2190**	1990**	1830**
	*2620	2040	6000	6585	6	5				2120**	1960**	1790**	2060**	1880**	1720**

\*These masts are subject to special enquiry.

\*\*With wide width drive tyres (1320mm width) - must be specified

## Mast details and capacity ratings (kg) - Supercushion tyres

Model		30 TFH													
Tyres		28 x 9-15													
Width across tyres		1200mm													
Mast	OAH	FFH	MFH	h1	h2	h3	h4	Tilt		Forks			Integral Sideshift		
								F	B	500	600	700	500	600	700
										LC	LC	LC	LC	LC	LC
2-Stg. LFL (V)	*1845	145	2505	3205	6	10				3000	2840	2600	2980	2720	2490
	*2045	145	2905	3605	6	10				3000	2830	2590	2970	2710	2490
	2195	145	3205	3905	6	10				3000	2830	2590	2970	2700	2480
	2445	145	3705	4405	6	5				3000	2820	2580	2960	2690	2470
	2795	145	4205	4905	6	5				2990	2790	2550	2930	2670	2450
	*3045	145	4705	5405	6	5				2890	2680	2460	2820	2570	2350
2-Stg. FFL (F)	*2045	1345	2885	3605	6	10				3000	2830	2590	2980	2710	2490
	2195	1495	3185	3905	6	10				3000	2830	2590	2970	2700	2480
	*2445	1745	3685	4405	6	5				3000	2810	2570	2960	2690	2470
3-Stg. FFL (E)	*1995	1350	4165	4810	6	5				3000	2800	2560	2930	2670	2450
	2195	1550	4765	5410	6	5				2870	2670	2440	2800	2550	2340
	2295	1650	4915	5560	6	5				2840	2630	2410	2760	2510	2310
	2445	1800	5365	6010	6	5				2730‡	2520‡	2310‡	2640‡	2410‡	2210‡
	*2645	2000	5815	6460	6	5				2590‡	2400‡	2190‡	2510‡	2290‡	2100‡
	*2695	2050	5965	6810	6	5				2440‡	2360‡	2160‡	2470‡	2250‡	2060‡

\*These masts are subject to special enquiry.

‡With wide width drive tyres (1335mm width) - must be specified

VDI 2198 - General Specifications							
Characteristics	1.1	Manufacturer		Yale	Yale	Yale	Yale
	1.2	Model designation		<b>GDP 25 TFH</b>	<b>GDP 30 TFH</b>	<b>GLP 25 TFH</b>	<b>GLP 30 TFH</b>
	1.3	Power: Electric, Diesel, LPG		Diesel	Diesel	LPG	LPG
	1.4	Type of control - Stand-on, rider seated		Seated Rider	Seated Rider	Seated Rider	Seated Rider
	1.5	Carrying capacity/Load	Q (kg)	2500	3000	2500	3000
	1.6	Load centre	c (mm)	500	500	500	500
	1.8	Load distance	x (mm)	470	485	470	485
	1.9	Wheelbase	y (mm)	1625	1625	1625	1625
	Weights	2.1	Weight	kg	4289	4742	4174
2.2		Axle loadings laden, front/rear	kg	5766 / 1023	6703 / 1048	5721 / 953	6658 / 978
2.3		Axle loadings unladen, front/rear	kg	1772 / 2517	1882 / 2860	1727 / 2447	1837 / 2790
Wheels & Tyres	3.1	Tyres - C=Cushion, SC=Supercushion, P= Pneumatic		SC	SC	SC	SC
	3.2	Tyre size - front		7.00 x 12	28 x 9 x 15	7.00 x 12	28 x 9 x 15
	3.3	Tyre size - rear		6.50 x 10	6.50 x 10	6.50 x 10	6.50 x 10
	3.5	Wheels - number front/rear (X = driven)		2 X / 2	2 X / 2	2 X / 2	2 X / 2
	3.6	Track width - front	b10 (mm)	960	965	960	965
	3.7	Track width - rear	b11 (mm)	967	967	967	967
	Dimensions	4.1	Mast tilt angle, forward/backward	degrees	6 / 10	6 / 10	6 / 10
4.2		Height, mast lowered	h1 (mm)	2170	2195	2170	2195
4.3		Free lift	h2 (mm)	100	100	100	100
4.4		Lift height	h3 (mm)	3330	3205	3330	3205
4.5		Height, mast raised	h4 (mm)	3940	3905	3940	3905
4.7		Height to top of overhead guard	h6 (mm)	2200	2215	2200	2215
4.8		Seat height	h7 (mm)	1070	1085	1070	1085
4.12		Coupling height	h10 (mm)	315	330	315	330
4.19		Overall length	l1 (mm)	3555	3645	3555	3645
4.20		Length to front face of forks	l2 (mm)	2555	2645	2555	2645
4.21		Overall width	b1 (mm)	1155	1205	1155	1205
4.22		Fork dimensions	s/e/l (mm)	40 x 100 x 1000	45 x 100 x 1000	40 x 100 x 1000	45 x 100 x 1000
4.23		Fork carriage to DIN 15173, Class/form A, B		IIA	IIIA	IIA	IIIA
4.24		Fork carriage width	b3 (mm)	1065	1065	1065	1065
4.31		Ground clearance beneath mast, laden	m1 (mm)	107	132	107	132
4.32		Ground clearance, centre of wheelbase	m2 (mm)	155	170	155	170
4.33		Aisle width for pallets 1000 x 1200 wide	Ast (mm)	3870	3955	3870	3955
4.34		Aisle width for pallets 800 x 1200 long	Ast (mm)	4070	4155	4070	4155
4.35	Outer turning radius	Wa (mm)	2200	2270	2200	2270	
4.36	Inner turning radius	b13 (mm)	-	-	-	-	
Performance	5.1	Travel speed, laden/unladen	km/h	18.7 / 19.8	20.1 / 20.4	18.7 / 19.8	20.1 / 20.4
	5.2	Lifting speed, laden/unladen	m/s	0.55 / 0.61	0.48 / 0.53	0.60 / 0.68	0.52 / 0.60
	5.3	Lowering speed, laden/unladen	m/s	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42	0.50 / 0.42
	5.5	Rated drawbar pull, laden/unladen (60 min)	N	17903 / 17263	16631 / 16149	18472 / 17801	17165 / 16655
	5.6	Max. drawbar pull, laden/unladen (5 min)	N	-	-	-	-
	5.7	Gradeability, laden/unladen (30 min)	%	28 / 21	23 / 19	29 / 21	23 / 19
	5.8	Max. gradeability, laden/unladen (5 min)	%	29 / 26	24 / 24	30 / 26	24 / 24
	5.9	Acceleration time, laden/unladen (10 m)	sec	-	-	-	-
	5.10	Service brakes		Hydrostatic / Hydraulic	Hydrostatic / Hydraulic	Hydrostatic / Hydraulic	Hydrostatic / Hydraulic
	Engine	7.1	Engine manufacturer/type		Mazda HA	Mazda HA	GM 3L
7.2		Engine output, in accordance with ISO1585	kW	37	37	48	48
7.3		Governed speed	min <sup>-1</sup>	2200	2200	2900	2900
7.4		Number of cylinders/displacement	cm <sup>3</sup>	4 / 2977	4 / 2977	4 / 2970	4 / 2970
7.5		Fuel consumption in accordance with VDI cycle	l/h or kg/h	-	-	-	-
Other	8.1	Drive control		Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic
	8.2	Operating pressure for attachments	bar	0 - 155	0 - 155	0 - 155	0 - 155
	8.3	Oil flow for attachments	l/min	62	62	62	62
	8.4	Average noise level at operator's ear	dB (A)	-	-	-	-
	8.5	Trailer coupling/type/DIN		Pin	Pin	Pin	Pin

**Engines**

Available with either Mazda HA diesel or GM 3L LPG industrial water cooled engines developed specifically for lift truck applications. An outside air intake with large cyclonic filter is standard equipment, promoting long engine life and reduced maintenance.

**Cooling System**

The radiator incorporates a fan shroud and transmission oil cooler. A 'low coolant' level warning is fitted. The pressurised sealed cooling system 103kPa uses a pusher type low noise unique shaped fan, and includes a coolant recovery reservoir providing a visual fluid level check.

**Electrical System**

Key switch operated 12 volt system. Battery capacity is 90Ah on diesel and 50Ah on LPG models.

40 amp output alternator is fitted with integral IC regulator.

Cold starting on the diesel engine is by a Quick Start System (QSS) which will start in less than three seconds down to sub freezing temperatures.

**Transmission**

High pressure variable displacement axial piston pump and twin drive axle motors provide infinitely variable control of inching, acceleration and travel speed, high speed gradeability, smooth reversing and service braking.

Feedback control system continuously adjusts pump flow to take full advantage of engine power. High durability provided by pressure relief valve protecting entire drive system from abuse and overload.

Oil is filtered and cooled to protect transmission from contamination and overtemperature.

The fully floating axle design ensures tyre loads are carried by axle housing. Drive wheels can be quickly removed without disturbing the wheel bearings.

**Brakes**

Hydrostatic transmission provides effective deceleration control as pedal is lifted reducing the need for brake application.

Asbestos free brake linings are bonded to steel shoes and operated against independently mounted brake drums. Brakes are self-energising and self-adjusting.

A fluid level sensor is also fitted.

A hand operated park brake positioned on the cowl operates the same brake shoes through an independent mechanical linkage.

**Steer Axle**

The axle body comprises a rugged one-piece casting for durability with an integrated balanced cylinder, well protected against any potential damage. An isolastic mount provides resistance to shock loadings transmitted through the road wheels and promotes a smoother ride for the operator.

**Hydrostatic Power Steering**

Hydrostatic power steer design reduces operator fatigue by providing positive, low effort and smooth control. Mechanical linkage is eliminated minimising road shock and simplifying maintenance.

**Hydraulic System**

A "power up" feature automatically increases engine speed when hydraulic function is actuated to provide precise amount of power and operator control.

A single hydraulic pump provides power for mast functions and steering. Integral hydraulic tank incorporates easily removed full flow return line filter. The control valve includes dual pressure relief valves to protect the lift and auxiliary circuits from overload and anti-cavitation to prevent voids in the tilt cylinders and improve tilt control.

**Mast**

The Yale High Visibility mast provides a flush face and a rigid structure with channels, lift chains and main lift cylinders widely spaced to provide outstanding visibility.

The mast features pre-lubricated and sealed, full radius angled load rollers, that resist forward, backward and lateral forces. These give good load support during tilting and lowering and eliminate the need for additional side thrust rollers. The full radius corner contact reduces channel wear and frequency of servicing.

Cushioned lift cylinders incorporate check valves to provide safe controlled lowering in the unlikely event of a hose failure.

The hook type fork carriage has a large picture window for maximum visibility.

**Chassis**

The frame is fabricated and welded in heavy plate steel into a high strength structure attached to which is a rigid, slim profile overhead guard for optimum protection and all-round visibility.

The upper module is isolated from the lower section by isolastic mounts to reduce vibration transmitted from the engine and road. Sound insulation material ensures low operating noise levels for operator comfort and reduced operator fatigue.

The hood and side doors are hinged to provide quick, easy access.


**Operator Compartment, Controls and Instrumentation**

A low, non-slip step, grab handle on the overhead guard, and clean floor design assist access. A Yale full suspension seat, 4-position adjustable steer column with positive locking system, direction selection lever and hydraulic control levers located beside the operator seat promote fatigue free operation and higher productivity.

The control levers are low effort (below 2.0kgf) with positive response with soft touch/sure grip handles. A gated third/fourth function eliminates inadvertent clamp operation. The cowl mounted instrument panel contains large, easy to read hour meter, fuel gauge (Diesel Model) and coolant temperature gauge. Additional indicator lamps monitor alternator charging, engine oil pressure and transmission oil temperature. Diesel trucks also include cold start indicator. A compartment is also provided for storage of worksheets or personal effects.

**Options**

Alternative options; e.g. cab, lighting groups, attachments are available.

 **Safety.** This truck conforms to the current EU requirements. Specification is subject to change without notice

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