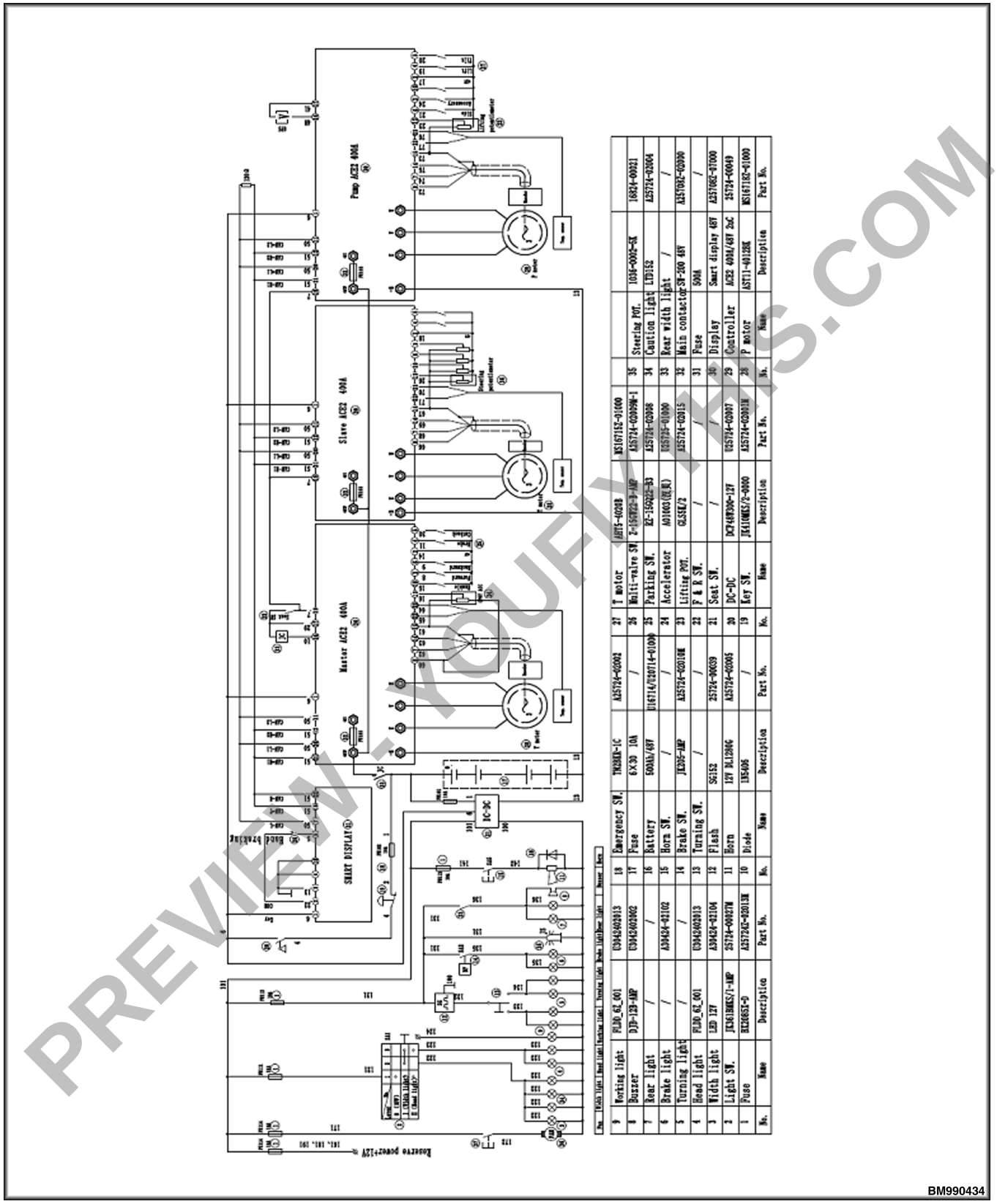


Figure 5. Electrical System Principle Diagram (General Pedal)

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FAULT CODES

Table 3. Primary Controller Fault Codes

OPEN CAN CODE	MDI CODE	CAN CODE	ALARM	Main Contactor
0x0000	94	0	NONE	Closed
0x6010	8	8	WATCHDOG	Open
0xFF11	17	17	LOGIC FAILURE #3	Open
0xFF12	18	18	LOGIC FAILURE #2	Open
0x5114	19	19	LOGIC FAILURE #1	Open
0xFF1C	28	28	PUMP VMN LOW	Open
0xFF1D	29	29	PUMP VMN HIGH	Open
0x3120	30	30	VMN LOW	Open
0x3110	31	31	VMN HIGH	Open
0x5442	37	37	CONTACTOR CLOSED	
0x5441	38	38	CONTACTOR OPEN	
0x2312	52	52	PUMP I=0 EVER	Open
0x2311	53	53	STBY I HIGH	Open
0x3130	60	60	CAPACITOR CHARGE	Open
0x4210	62	62	TH. PROTECTION	Closed
0x4110	65	65	MOTOR TEMPERAT.	Closed
0xFF42	0	66	BATTERY LOW	Closed
0x3211	74	74	DRIVER SHORTED	Open
0x3221	75	75	CONTACTOR DRIVER	Open
0xFF4E	78	78	VACC NOT OK	Closed
0xFF4F	79	79	INCORRECT START	Closed
0xFF50	80	80	FORW + BACK	Closed
0xFF52	82	82	ENCODER ERROR	Open
0xFF56	86	86	PEDAL WIRE KO	
0xFFB5	80	151	MONOTROL XX	
0xFF98	82	152	SENSOR SUPPLY XX	
0xFF99	3	153	OFFSET SPD.SENS.	
0xFF9A	3	154	SIXSTEP ERROR	
0xFF9B	45	155	WAIT MOTOR STILL	
0xFF9D	4	157	FAULT DRV.POWER	
0xFF9E	4	158	NOT RDY DRV.POW.	
0xFF9F	5	159	HVIL FAIL	
0xFFA0	0	160	SENS BAT TEMP KO	
0xFFA1	0	161	RPM HIGH	

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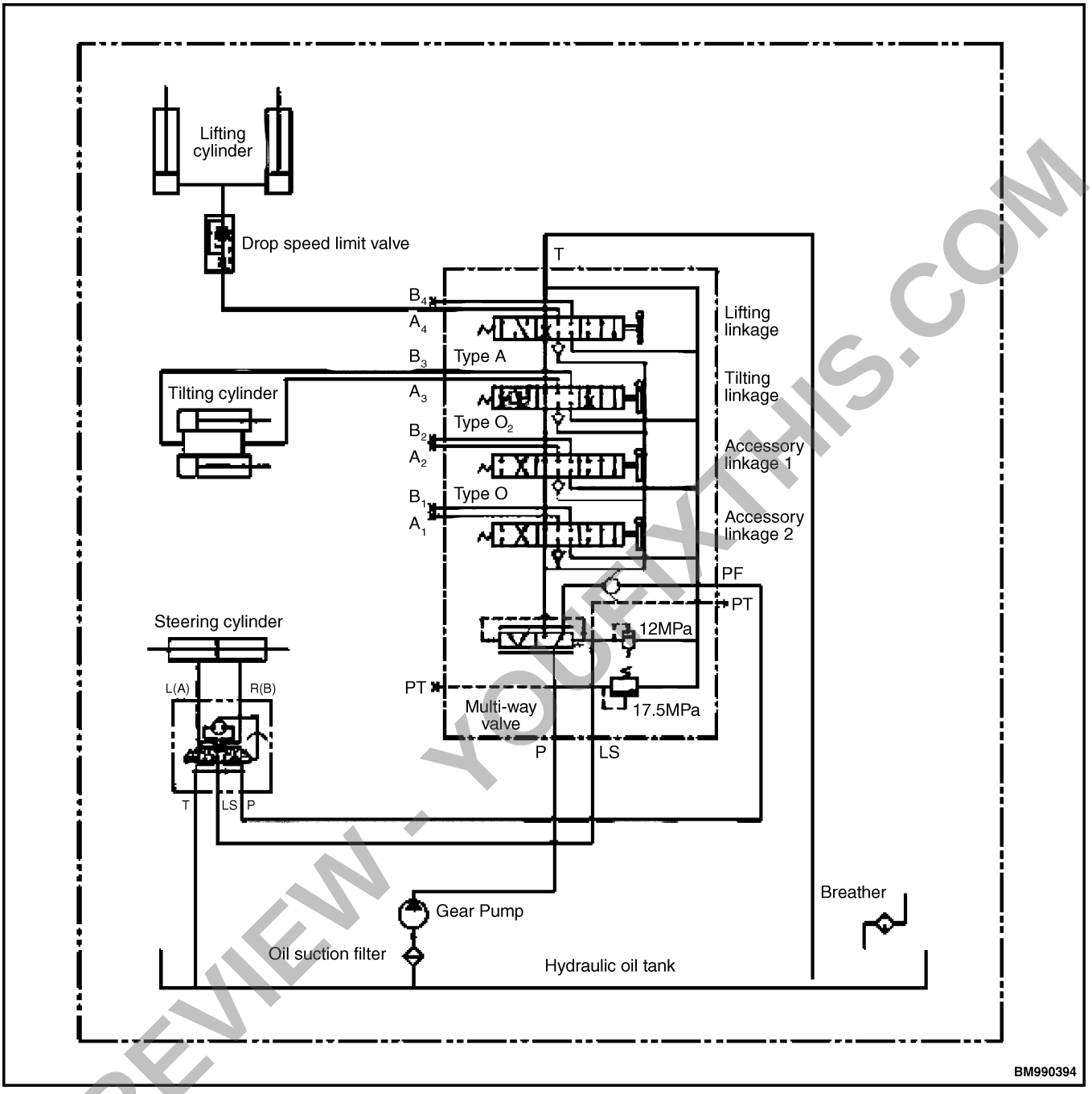


Figure 16. Hydraulic Schematic Drawing (Sheet 1 of 2)

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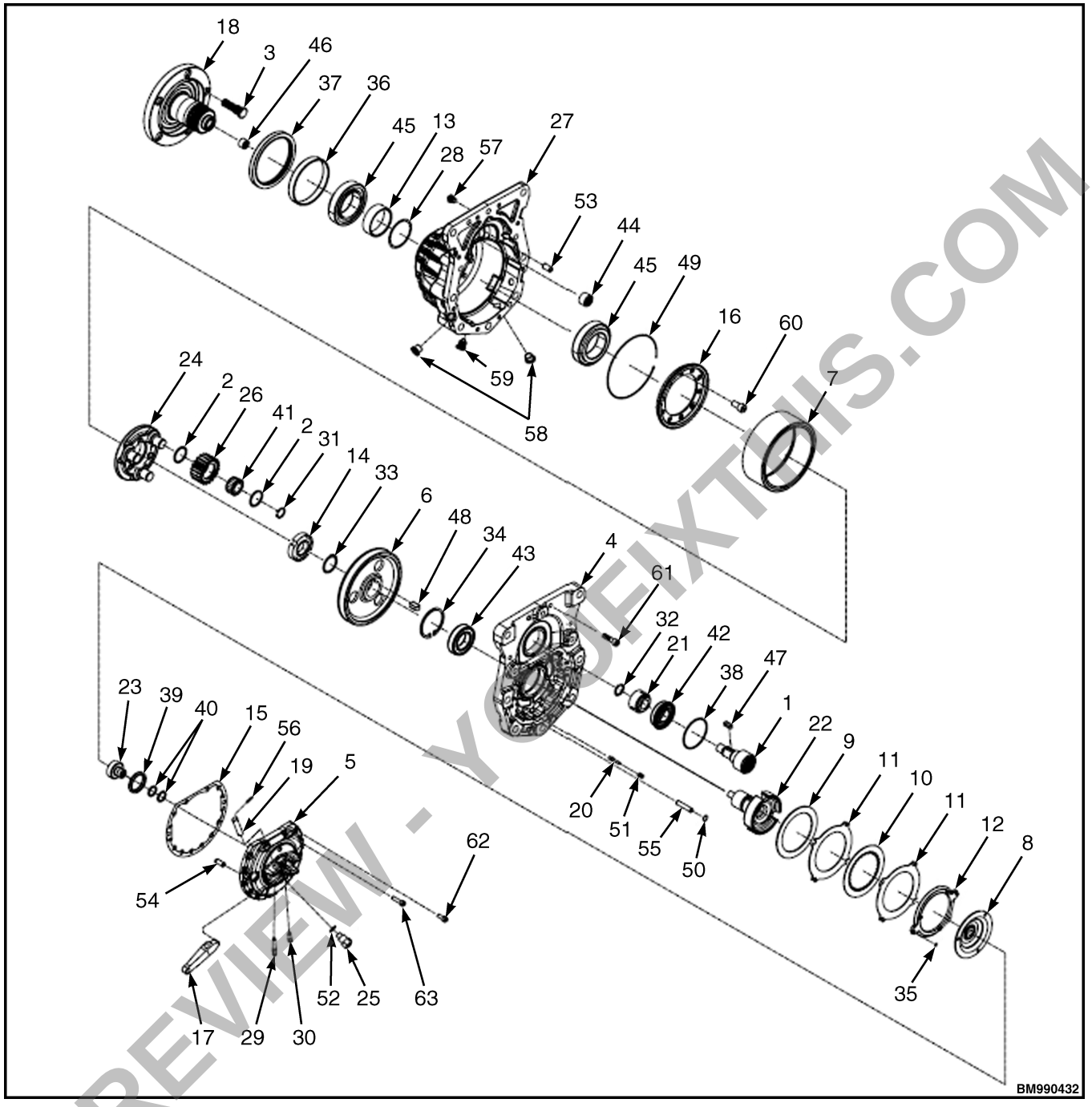


Figure 2. Axle Box

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Lifting System

SAFETY PROCEDURES WHEN WORKING NEAR MAST

WARNING

The following procedures MUST be used when inspecting or working near the mast. Additional precautions and procedures can be required when repairing or removing the mast. See the correct Service Manual section for the specific mast being repaired.

- Never put any part of the body into or under the mast or carriage unless all parts are completely lowered or a safety chain is installed. Also make sure that the power is off and the key is removed. Put a **DO NOT OPERATE** tag in the operator's compartment. Disconnect the battery on electric lift trucks and put a tag or lock on the battery connector.
- Be careful of the forks. When the mast is raised, the forks can be at a height to cause an injury.
- **DO NOT** climb on the mast or lift truck at any time. Use a ladder or personnel lift to work on the mast.
- **DO NOT** use blocks to support the mast weldments or to restrain their movement.
- Mast repairs require disassembly and removal of parts and can require removal of the mast or carriage. Follow the repair procedures in the correct Service Manual for the Mast.

WHEN WORKING NEAR THE MAST ALWAYS:

- Lower the mast and carriage completely. Push the lift/lower control lever forward and make sure there is no movement in the mast. Make sure that all parts of the mast that move are fully lowered.

OR

- If parts of the mast must be in a raised position, install a safety chain to restrain the moving parts of the mast. Connect moving parts to a part that does not move. Follow these procedures:

1. Put mast in vertical position.
2. Raise mast to align bottom crossmember of weldment that moves in the outer weldment with a crossmember on the outer weldment. On the two-stage and free-lift mast, the moving part is the inner weldment. On the three-stage mast, it is the intermediate weldment. See Figure 44.
3. Use a 3/8 inch minimum safety chain with a hook to fasten the crossmembers together so the movable member cannot lower. Put the hook on the back side of the mast. Make sure the hook is completely engaged with a link in the chain. Make sure the safety chain does not touch lift chains or chain sheaves, tubes, hoses, fittings, or other parts on the mast.
4. Lower mast until there is tension in the safety chain and the free-lift cylinder (three-stage) is completely retracted. If running, stop the engine. Apply parking brake. Install a **DO NOT REMOVE** tag on the safety chain(s).
5. Install another safety chain (3/8 inch minimum) between the top or bottom crossmember of the carriage and a crossmember on the outer weldment. See Figure 44.

NOTE: Apply parking brake. After lowering or restraining the mast, shut off power and remove key. Put a **DO NOT OPERATE** tag in the operator's compartment. Disconnect battery on electric lift trucks and put a tag or lock on battery connector.

OVERVIEW

The lifting system is mainly composed of inner mast, outer mast, fork carriage, lifting cylinder, and tilting cylinder, etc.

INNER AND OUTER MAST

The inner and outer masts are the welded parts. The bottom part of outer mast is installed on driving axle using support. See Figure 36.

The middle part of outer mast is connected together with vehicle chassis through tilting cylinder, and able to tip forward and backward under the function of tilting cylinder.

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Model			1	J1.6UTT	J1.8UTT	J2.0UTT
Rated Capacity		kg	2	1600	1800	2000
Load Centre		mm	3	500		
Lifting Height		mm	4	3000		
Free Lifting Height		mm	5	0		
Fork Size	s x e x l	mm	6	35 x 100 x 920		40 x 122 x 1070
Mast Tilting Angle	a°/ß°	Deg	7	6.5/6.5		
Overall Dimensions	Length (to forkface)	mm	8	1930		2045
	Width A	mm	9	1085		1140
	Height when mast	mm	10	1975		
	Height when mast	mm	11	4010		
	Height to Safeguard H	mm	12	2012		
Turning Radius	Min R	mm	13	1593		1708
Front Overhang G		mm	14	371		376
Tread	Front Q/ Rear S	mm	15	924/186		945/186
Ground Clearance	Min H3	mm	16	96		
Wheelbase F		mm	17	1400		1515
Fork Spread	Min/Max	mm	18	200/890		
Working aisle width Pallets (Ast)	800 x 1200 Horizontally	mm	19	3290		3410
	1000 x 1200 Longitudinally	mm	20	3415		3535
Speed	Travel (Laden)	km/h	21	14		
	Travel (Unladed)	km/h	22	16		
	Lifting (Laden)	mm/s	23	360	350	340
	Lifting (Unladed)	mm/s	24	520		
Gradeability	Laden	%	25	15		
	Unladed	%	26	15		
Service	Include battery box	kg	27	3430	3270	3220
Tyre	Front x 2		28	18 x 7-8		200/50-10
	Rear x 2		29	15 x 4.5-8		
Motor	Driving Motor x 2	kw	30	5		
	Pump Motor	kw	31	11		

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