

PRELIMINARY
SPECIFICATIONS

MOVE THE WORLD FORWARD  MITSUBISHI
HEAVY
INDUSTRIES
GROUP

ELEVIA VNA TRUCKS

1.1 – 2.0 tonnes

BIG PERFORMANCE... IN SMALL SPACES

A true VNA specialist, the ELEVIA series is optimised for easy order picking and pallet handling in narrow aisle spaces.

SPECIFICATIONS

VNT11	VNT15
VNT12	VNT15XL*
VNT13	VNT20*
VNT14	



VNT11-20(XL) Series

WHEN
RELIABILITY IS
EVERYTHING...

 **MITSUBISHI**
FORKLIFT TRUCKS

ELEVIA

VNT11-20(XL) Series

VNA TRUCKS

1.1 – 2.0 tonnes



With intuitive controls, an ergonomic, spacious cabin and excellent visibility, ELEVIA is an operator's dream. Modular design and engineering.

Each model in the range is fully optimised for a specific type of application, making for a comprehensive and versatile selection of trucks. The 1.1–1.3-tonne models are available with 48v or 80v electrical systems, while larger models are 80v only.

DRIVE

- **Adjustable load wheel height** allows a single wheel - rather than all wheels - to be changed if damaged.

FRAME AND BODY

- **Optimised body design** resulting in less load, less wear, less energy consumption and higher performance.
- **Guide rollers in front of load wheels** to ensure optimal guidance and prevent damage to the load wheels
- **Easy access to battery** for quick changes
- **Short truck length** ideal for small transfer aisles.

MAST AND FORK ASSEMBLY

- **Duplex mast available for all lifting heights** for added stability, lower energy consumption, and higher lifting speed.
- **Highly optimised mast** using the FEM method to achieve the ideal stability and weight.
- **High visibility mast** affording the operator excellent forward vision.



BRAKES

- **Low centre of gravity and low vehicle weight** mean no need for a load wheel brake and fewer parts to service.

ELECTRICAL AND CONTROL SYSTEMS

- **Separate valve to regulate cabin lifting** for lower energy consumption and fewer parts to replace compared to an 'energy recovery' system.
- **Fast error analysis without a computer** thanks to LEDs on the state-of-the-art microcontrollers
- **In-depth diagnostics** available via GSM-connection / computer connection by USB (or optional CAN-bus connection).

OPERATOR COMPARTMENT AND CONTROLS

- **Spacious operator cabin** with plenty of leg room to suit operators of all sizes
- **Narrow rail at the front of cabin** makes order picking easy
- **Tilting side gates (option)** help with order picking as operator can reach up to 20cm further into the shelf
- **Five different control panels available** allowing your operators to have a familiar setup
- **Control panel can be placed for standing or sitting operation** for optimal ergonomics during a shift
- **Velour-covered cabin walls and thick cushioned floor** make for a more comfortable environment for operators

- **Overhead guard has 4 LED spotlights and compartment for emergency rope** for added safety
- **Choice of seats** with features including air-cushioning, adjustable lumbar support, downward-folding cushion and standing operator back support.
- **Tilting console as an option** can be swivelled left or right for easier front access and order picking
- **Clear graphics display** makes key information easy to read

OTHER FEATURES

- **Can be lowered and driven at a height of 2400mm** for convenient transportation.
- **Can be equipped with telescopic fork**



There is more information on ELEVIA on mitforklift.com

For more extensive information please visit our website mitforklift.com



* NVT15XL and NVT20 models are available on request for specific applications. 19 metre lift height is only possible with NVT15XL

VDI - PERFORMANCE & DIMENSIONS

ELEVIA

VNT11-14 Series VNA TRUCKS

1.1 – 1.4 tonnes



VNT14

CHARACTERISTICS			Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks
			VNT11	VNT12	VNT13	VNT14
1.1	Manufacturer		Battery	Battery	Battery	Battery
1.2	Manufacturer's model designation		Standing / Seated	Standing / Seated	Standing / Seated	Standing / Seated
1.3	Power source		1100	1200	1300	1350
1.4	Operator type		600	600	600	600
1.5	Load capacity	Q kg	355 / 255	355 / 255	355 / 255	365 / 255
1.6	Load center distance	c mm	1780	1845	1910	1880
	Load distance, axle to fork face	x / x1 mm				
1.9	Wheelbase	y mm				
WEIGHT						
2.1	Truck weight, without load / including battery (simple x mast, lowest lift height)	kg	4900 - 5600	4950 - 5800	5050 - 5900	5800 - 6900
2.2	Axle loading with maximum load, front / rear (simple x mast, lowest lift height)	kg	1600/4400; 1850/4850	1650/4500; 1900/5100	1700/4650; 2000/5200	1800/5300; 2050/6150
2.3	Axle loading without load, front / rear (simple x mast, lowest lift height)	kg	2100/2800; 2400/3200	2150/2800; 2450/3350	2250/2800; 2550/3350	2400/3400; 2700/4200
WHEELS, DRIVE TRAIN						
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side		P	P	P	P
3.2	Tyre dimensions, drive side	mm	343 / 140	343 / 140	343 / 140	343 / 140
3.3	Tyre dimensions, load side	mm	343 / 140	343 / 140	343 / 140	377 / 178
3.5	Number of wheels, load / drive side (x = driven)		2 / 1 x	2 / 1 x	2 / 1 x	2 / 1 x
DIMENSIONS						
4.2a	Height with mast lowered	h1 mm	See table	See table	See table	See table
4.4	Lift height	h3G+h13 mm	See table	See table	See table	See table
4.5	Height with mast extended	h4 mm	See table	See table	See table	See table
4.7	Height to top of overhead guard	h6 mm	See table	See table	See table	See table
4.8	Seat- or stand height	h7 mm	See table	See table	See table	See table
4.11	Supplementary lift	h9 mm	1900	1900	1900	1900
4.14a	Platform height, raised	h12 mm	See table	See table	See table	See table
4.14b	Picking height	mm	h12 + 1600	h12 + 1600	h12 + 1600	h12 + 1600
4.15	Fork height, fully lowered	h13 mm	90	90	90	90
4.19a	Overall length with fork carrier width 850 mm	l1 mm	3275 - 3365 - 3465	3335 - 3425 - 3525	3400 - 3490 - 3590	3375 - 3465 - 3565
4.19b	Overall length with fork carrier width 580 mm	mm	3140 - 3230 - 3330	3200 - 3290 - 3390	3265 - 3355 - 3455	3240 - 3330 - 3430
	Support boom length (standard)	M15 mm	460 - 550 - 650	460 - 550 - 650	460 - 550 - 650	460 - 550 - 650
4.21	Overall width (steps 50 mm)	b1 mm	1000 - 1700	1200 - 1700	1200 - 1700	1200 - 1700
4.22a	Fork dimensions (thickness, width)	s / e mm	40 / 120	40 / 120	40 / 120	40 / 120
4.22b	Fork dimensions (length)	l mm	800 - 1300	800 - 1300	800 - 1300	800 - 1300
4.25	Width across forks (fork carrier width 580/850 mm)	b5 mm	530 / 505 - 795	530 / 505 - 795	530 / 505 - 795	530 / 505 - 795
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2 mm	40	40	40	40
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast mm	See table	See table	See table	See table
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast mm	See table	See table	See table	See table
4.35	Turning radius	Wa mm	2080	2145	2210	2170
PERFORMANCE						
5.1	Travel speed, with / without load	km/h	12.0 / 12.0	12.0 / 12.0	12.0 / 12.0	12.0 / 12.0
5.2	Lifting speed, with / without load	m/s	0.32 / 0.40 ¹⁾	0.31 / 0.40 ¹⁾	0.52 / 0.56 ¹⁾	0.49 / 0.52 ¹⁾
5.3	Lowering speed, with / without load	m/s	0.45 / 0.45	0.45 / 0.45	0.45 / 0.45	0.45 / 0.45
5.4	Reach speed laden/unladen (adjustable)	m/s	up to 0.45	up to 0.45	up to 0.45	up to 0.45
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)		Electric	Electric	Electric	Electric
ELECTRIC MOTORS						
6.1	Drive motor	kW	5.0	5.0	7.0	7.0
6.2	Lift motor	kW	12.5 ¹⁾	12.5 ¹⁾	21.0 ¹⁾	21.0 ¹⁾
6.4	Battery voltage/capacity at 5-hour discharge	V/Ah	48 / 775 ²⁾³⁾	48 / 930 ²⁾³⁾	80 / 620 ³⁾	80 / 465 ³⁾
6.5	Battery weight	kg	1118	1309	1558	1238
MISCELLANEOUS						
8.1	Type of drive control		Stepless	Stepless	Stepless	Stepless

- 1) Higher lift speeds on request
- 2) Also available in 80 volt
- 3) Other capacities on request

VDI - PERFORMANCE & DIMENSIONS

CHARACTERISTICS				Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks
1.1	Manufacturer			VNT15	VNT15XL	VNT20
1.2	Manufacturer's model designation			Battery	Battery	Battery
1.3	Power source			Standing / Seated	Standing / Seated	Standing / Seated
1.4	Operator type			1500	1500	2000
1.5	Load capacity	Q	kg	1200	1200	600
1.6	Load center distance	c	mm	360 / 270	360 / 270	360 / 270
	Load distance, axle to fork face	x / x1	mm	2140	2140	2140
1.9	Wheelbase	y	mm			
WEIGHT						
2.1	Truck weight, without load / including battery (simple x mast, lowest lift height)		kg	7100 - 8700	8900 - 9400	7400 - 8900
2.2	Axle loading with maximum load, front / rear (simple x mast, lowest lift height)		kg	2300/6300; 2950/7250	3000/7400; 3100/7800	2100/7300; 2700/8200
2.3	Axle loading without load, front / rear (simple x mast, lowest lift height)		kg	2900/4200; 3550/5150	3500/5400; 3700/5700	3000/4400; 3400/5400
WHEELS, DRIVE TRAIN						
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			P	P	P
3.2	Tyre dimensions, drive side		mm	381 / 152	381 / 152	381 / 152
3.3	Tyre dimensions, load side		mm	377 / 178	377 / 178	377 / 178
3.5	Number of wheels, load / drive side (x = driven)			2 / 1 x	2 / 1 x	2 / 1 x
DIMENSIONS						
4.2a	Height with mast lowered	h1	mm	See table	See table	See table
4.4	Lift height	h3G+h13	mm	See table	See table	See table
4.5	Height with mast extended	h4	mm	See table	See table	See table
4.7	Height to top of overhead guard	h6	mm	See table	See table	See table
4.8	Seat- or stand height	h7	mm	See table	See table	See table
4.11	Supplementary lift	h9	mm	1900	1900	1900
4.14a	Platform height, raised	h12	mm	See table	See table	See table
4.14b	Picking height		mm	h12 + 1600	h12 + 1600	h12 + 1600
4.15	Fork height, fully lowered	h13	mm	90	90	90
4.19a	Overall length with fork carrier width 850 mm	l1	mm	3650 - 3740 - 3840	3650 - 3740 - 3840	3740 - 3840
4.19b	Overall length with fork carrier width 580 mm	l1	mm	3515 - 3605 - 3705	3515 - 3605 - 3705	3605 - 3705
	Support boom length (standard)	M15	mm	460 - 550 - 650	460 - 550 - 650	550 - 650
4.21	Overall width (steps 50 mm)	b1	mm	1200 - 1700	1600 - 1900	1200 - 1700
4.22a	Fork dimensions (thickness, width)	s / e	mm	40 / 120	40 / 120	40 / 120
4.22b	Fork dimensions (length)	l	mm	800 - 1300	800 - 1300	800 - 1300
4.25	Width across forks (fork carrier width 580/850 mm)	b5	mm	530 / 505 - 795	530 / 505 - 795	240 - 795
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	40	40	40
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	mm	See table	See table	See table
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	mm	See table	See table	See table
4.35	Turning radius	Wa	mm	2445	2445	2445
PERFORMANCE						
5.1	Travel speed, with / without load		km/h	12.0 / 12.0	12.0 / 12.0	12.0 / 12.0
5.2	Lifting speed, with / without load		m/s	0.48 / 0.52 ¹⁾	0.42 / 0.45	0.42 / 0.50 ¹⁾
5.3	Lowering speed, with / without load		m/s	0.45 / 0.45	0.45 / 0.45	0.45 / 0.45
5.4	Reach speed laden/unladen (adjustable)		m/s	up to 0.45	up to 0.45	0.20 / 0.20
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric	Electric
ELECTRIC MOTORS						
6.1	Drive motor		kW	7.0	7.0	7.0
6.2	Lift motor		kW	21.0 ¹⁾	32.0	21.0 ¹⁾
6.4	Battery voltage/capacity at 5-hour discharge		V/Ah	80 / 775 ³⁾	80 / 775 ³⁾	80 / 775 ³⁾
6.5	Battery weight		kg	1862	1862	1862
MISCELLANEOUS						
8.1	Type of drive control			Stepless	Stepless	Stepless

- 1) Higher lift speeds on request
- 2) Also available in 80 volt
- 3) Other capacities on request

ELEVIA

VNT15-20(XL) Series VNA TRUCKS

1.5 – 2.0 tonnes



VNT15XL

STANDARD EQUIPMENT & OPTIONS

● = Standard

● = Option

	VNT11	VNT12	VNT13	VNT14	VNT15	VNT15XL	VNT20
GENERAL							
Overhead guard with 4 LED spot	●	●	●	●	●	●	●
Mirrors	●	●	●	●	●	●	●
Emergency rope	●	●	●	●	●	●	●
Control panel with ball handle bar	●	●	●	●	●	●	●
Higher side shift speed	●	●	●	●	●	●	●
CHASSIS							
Special paint, change of one colour (Standard RAL)	●	●	●	●	●	●	●
Extended or shortened chassis	●	●	●	●	●	●	●
Twin/dual load wheels, minimum chassis width 1450 mm	●	●	●	●	●	●	●
VNT14 with VNT15 chassis, battery up to 5 PzS 700/775 Ah	●	●	●	●	●	●	●
VNT15 with chassis for battery 6 PzS 840/930 Ah, special drive wheel	●	●	●	●	●	●	●
Rail guidance for standard profile, minimum 80 mm profile height	●	●	●	●	●	●	●
Rail guidance, minimum 38 mm profile height	●	●	●	●	●	●	●
Side guide rollers antistatic	●	●	●	●	●	●	●
Additional side guide roller in the centre of truck (3 rollers on each side)	●	●	●	●	●	●	●
Inductive wire guidance 6.25 kHz +/- 30 Hz, 78 mA	●	●	●	●	●	●	●
Line driver for max 1200 m wire, 6.25 kHz	●	●	●	●	●	●	●
MAST							
Fork carriage width 850 mm	●	●	●	●	●	●	●
Fork carriage width 1150 mm	●	●	●	●	●	●	●
Head centre distance 700 mm (less capacity)	●	●	●	●	●	●	●
Head centre distance 750/800 mm (less capacity)	●	●	●	●	●	●	●
Shorten mast, special closed heights	●	●	●	●	●	●	●
Full fork carriage for swivel fork 320, 850 mm for distance across forks 240 - 795 mm	●	●	●	●	●	●	●
Hydraulic fork adjustment, 500 - 800 mm, integrated, width of fork carriage 1080 mm	●	●	●	●	●	●	●
Side shifter +/- 100 mm	●	●	●	●	●	●	●
Telescopic fork, width 1200 mm, supplementary lift 650 mm	●	●	●	●	●	●	●
Telescopic fork, width 1200 mm, supplementary lift > 650 mm	●	●	●	●	●	●	●
Telescopic fork, width 1200 mm, supplementary lift > 650 mm, profiles in front of the load, max 1000 kg, no cold store	●	●	●	●	●	●	●
Telescopic forks, lowered height 190 mm, max capacity 1000 kg	●	●	●	●	●	●	●
Supplementary lift height 1700 mm with swivel fork type MSG 320	●	●	●	●	●	●	●
Supplementary lift height 2100 or 2300 mm with swivel fork type MSG 320	●	●	●	●	●	●	●
VNT15 with swivel fork type MSG 120, supplementary lift 1500 mm	●	●	●	●	●	●	●
VNT15 with swivel fork type MSG 120, guidance at overhead guard, supplementary lift 1500 mm	●	●	●	●	●	●	●
CABIN							
Control panel with rotary switches	●	●	●	●	●	●	●
Control panel with single lever	●	●	●	●	●	●	●
Control panel with multifunction lever	●	●	●	●	●	●	●
Tilting panel for order picking (only possible with ball handle bar or rotary switch)	●	●	●	●	●	●	●
Spilt control panel at the back, beside the seat, including armrests	●	●	●	●	●	●	●
Multicheck with PIN-code access, 10 different codes, hour counter for week and day	●	●	●	●	●	●	●
12 or 24 volt connection with separate DC converter	●	●	●	●	●	●	●
24 volt connection behind ignition lock, max 2 ampere	●	●	●	●	●	●	●

ELEVIA

VNT11-20(XL) Series

VNA TRUCKS

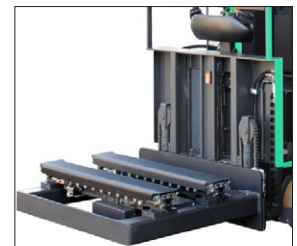
1.1 – 2.0 tonnes



Overhead guard with 4 LED spot



Control panel with ball handle bar



Telescopic fork

STANDARD EQUIPMENT & OPTIONS

● = Standard
● = Option

	VNT11	VNT12	VNT13	VNT14	VNT15	VNT15XL	VNT20
Armrests, adjustable	●	●	●	●	●	●	●
Heated seat	●	●	●	●	●	●	●
Air suspension seat	●	●	●	●	●	●	●
Swivel seat	●	●	●	●	●	●	●
2 additional LED working lights at both sides of the overhead guard	●	●	●	●	●	●	●
2 powerful LED lighting strips at left and right side of overhead guard	●	●	●	●	●	●	●
Flashing light at the mast	●	●	●	●	●	●	●
Blue spot at the mast to the rear, functioning when travelling backwards	●	●	●	●	●	●	●
Simultaneous lifting of main and supplementary lift	●	●	●	●	●	●	●
Clipboard DIN A4 in the cabin	●	●	●	●	●	●	●
Clipboard DIN A4 at universal fastening rail	●	●	●	●	●	●	●
Height level positioning system (10 levels) with indicator, for cabin lift (not together with PIN-code system)	●	●	●	●	●	●	●
Overload indicator	●	●	●	●	●	●	●
Digital scale, +/- 25 kg, measurement by hydraulic pressure of supplementary lift mast	●	●	●	●	●	●	●
Fan in cabin	●	●	●	●	●	●	●
Swivel /tilting side gates, specially for order picking	●	●	●	●	●	●	●
Tray for universal fastening rail	●	●	●	●	●	●	●
Acoustic signal when driving backwards	●	●	●	●	●	●	●
Speed control unit GSG2 for linear driving speeds depending on lift height, programmable lift stop above 500 mm	●	●	●	●	●	●	●
Windscreen removable	●	●	●	●	●	●	●
Makrolon screen on the overhead guard	●	●	●	●	●	●	●
Makrolon window in front of the control panel (only for EK 1500 with swivel fork type 120)	●	●	●	●	●	●	●
Makrolon cabin, windscreen removable	●	●	●	●	●	●	●
Cabin heating	●	●	●	●	●	●	●
INTERLOCKS							
Slow down at the end of aisle, without stop (system CAT)	●	●	●	●	●	●	●
Slow down and stop at the end of aisle (system CAT)	●	●	●	●	●	●	●
Magnets per aisle	●	●	●	●	●	●	●
Electrical drive and lift cut-out with overriding switch	●	●	●	●	●	●	●
Electrical drive and lift cut-out with overriding switch outside the aisle	●	●	●	●	●	●	●
Electrical reach cut-out for swivel head MSG 320	●	●	●	●	●	●	●
Zone-dependent interlocks	●	●	●	●	●	●	●
Driving outside the guidance up to maximum lift height with override switch, 2.5 km/h, drive wheel in straight position	●	●	●	●	●	●	●
BATTERY							
Battery frame additional for fast and easy battery change with counterbalance truck	●	●	●	●	●	●	●
Battery rollers in truck 48 V 6 PzS/80 V 3 PzS	●	●	●	●	●	●	●
Battery roller station for 1 battery 48 V 6 PzS/80 V 3 PzS for fixing on floor	●	●	●	●	●	●	●
Battery Rollers in truck 80 V 5 PzS	●	●	●	●	●	●	●
Battery Roller Station for 1 battery 80 V 5 PzS for fixing on floor	●	●	●	●	●	●	●
Mobile winch for battery change for fixing at the chassis (extra price €531 per truck)	●	●	●	●	●	●	●
Battery cable for battery changing	●	●	●	●	●	●	●
COLD STORE							
Cold store application, without cabin	●	●	●	●	●	●	●
Cabin for cold store applications	●	●	●	●	●	●	●
Inductive wire guidance 6.25 kHz +/- 30 Hz, 78 mA +/- 15%, Zapi	●	●	●	●	●	●	●
Lifting jack for relieving the driving wheel when battery is loading	●	●	●	●	●	●	●
48/80 volt supply for the night (converter not for cold store area, without cable)	●	●	●	●	●	●	●
Telescopic forks for cold store application	●	●	●	●	●	●	●
SAFETY							
Preparation for installing personal safety system with laser scanner	●	●	●	●	●	●	●
Personal safety system with 2 laser scanner, SSZ (including preparation)	●	●	●	●	●	●	●

ELEVIA

VNT11-20(XL) Series

VNA TRUCKS

1.1 – 2.0 tonnes



Dual load wheels



Spill control panel, including arm-rests



Fan in cabin

WHEN RELIABILITY IS EVERYTHING...



ELEVIA
RULE THE AISLES

Built from the ground up with narrow aisles in mind, the ELEVIA range is the last word in small-space productivity.

In tight spaces our VNA trucks thrive. Whether picking or stacking, their high performance and robust build never comes up short.

Like any product bearing the "MITSUBISHI" name our materials handling equipment benefits from the tremendous heritage, huge resources and cutting-edge technology of one of the world's largest corporations – Mitsubishi Heavy Industries Group.

Engineering spacecraft, jet planes, power plants and more, MHI specialises in those technologies where performance, dependability and superiority decide your success or failure...

So when we promise you quality, reliability and value for money, you know it's a guarantee we have the power to deliver.

That's why every model in our award-winning and comprehensive range of lift trucks and warehouse equipment is built to a high specification – to ensure it keeps working for you. Day after day. Year after year. Whatever the job. Whatever the conditions.

YOU'LL NEVER WORK ALONE

As your local authorised dealer, we are here to keep your trucks working – through our extensive experience, our technical excellence and our commitment to customer care.

We are your local experts, backed by efficient channels to the entire organisation of Mitsubishi Forklift Trucks.

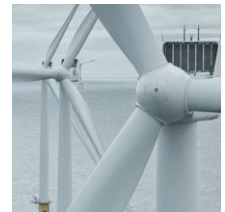
No matter where you are, we are close by – with the capability to meet your needs.

Discover how Mitsubishi Forklift Trucks give you more from your local authorised dealer or when you visit our website www.mitforklift.com

Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications or operating environment. Trucks may be shown with non-standard options. Specific performance requirements and locally available configurations should be discussed with your distributor of Mitsubishi forklift trucks. We follow a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

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