EDÍA EX

FB25-35A(C)N Series

ELECTRIC COUNTERBALANCE

2.5 - 3.5 tonnes

CONTROL DRIVES CONFIDENCE... **CONFIDENCE DRIVES WORK**

Everything about EDiA EX inspires confidence. Our design team worked to build something that's robust yet nimble, technologically advanced yet completely intuitive to control. EDiA gives you confidence to do the job knowing it'll always be up to the task, every time. With four-wheel steering and impressive residual capacities you get big-truck performance that works in tight spaces. And AutoBoost means you'll never feel like you're lacking power.

SPECIFICATIONS

FB25AN

FB30ACN

FB25ACN FB30AN

FB35AN







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But it's not just about performance, it's about safety too. From the mast to the dashboard to the counterweight, every part has been refined to maximise the driver's all-round view of the task. No gimmicks, just great design. Smart systems work with the driver's capabilities and the current load to adjust the response to the current situation - for example, lifting and lowering is always smooth and steady thanks to the Adaptive Lift Control svstem.

For years our forklifts have been the operator's favourite. With a choice of intuitive control schemes options, different operator modes, a highly adjustable cabin, and countless other features, each operator can have the EDiA EX they want, with a setup that feels completely natural to them the second they sit in the cab. A perfectly tailored setup makes a shift more comfortable, more efficient, and more productive. It's all about inspiring confidence

BRAKES

Sealed, wet-disc brakes Truck uses regenerative braking in normal driving, so mechanical brakes have a long life span and are virtually maintenance-free.

Automatic parking brake with hill hold The truck stops automatically when the accelerator is not engaged. preventing rolling on ramps. No need to remember to use a handle or switch

 Intelligent Cornering System The truck senses the angle of a turn and reduces speed early for maximum stability and accurate,

DRIVE

Sensitive Drive System (SDS)

positive cornering.

An intuitive driver-assist system for increased safety. Performance is managed according to steer angle and the velocity of foot and finger controls.

ECO mode

This mode optimises energy efficiency and gives smoother performance. Ideal for long shifts, training, new users, and part-time users.

PR0 mode

This mode maximises performance parameters, giving full control to more experienced operators in intensive situations.

AutoBoost*

Acceleration and torque boost functions provide more power when needed, such as on ramps.

Electric differential lock*

When activated, both front wheels spin simultaneously, giving the truck better traction and control in slippery conditions.

ELECTRICAL AND CONTROL SYSTEMS

 Straightforward component layout Fast, easy access to key areas, reducing downtime and cutting routine servicing bills.

Sealed connectors

This reduces the need for maintenance and repair.

 Sideways battery change Integrated sliding rollers offer quick and easy battery change for multishift operations. (Option)

Emergency switch

Weather-protected emergency switch stops the truck.

FORKS AND MAST

Passive Swav Control Minimises mast sway, especially in high lifts above 3m.

Adaptive Lift Control*

Allows truck to remain stable with fewer movements when lowering loads from high heights.

 Adjustable lifting and lowering setting

Through the multi-functional configuration software TruckTool, the lifting and lowering functions can be adjusted.

 Strong, high-visibility mast Free-lift cylinder structure is optimised with hoses over chains for outstanding visibility.







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* AutoBoost, electric differential lock, and ALC are all in-house designed 'patent pending' features.



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OPERATOR COMPARTMENT AND CONTROLS

 Unparalleled 360° visibility An optimised mast, wheel, dashboard and counterweight design maximises visibility to load, forks, front and rear wheels - giving safe, confident operation in tight spaces.

F2 button

This simple thumb control integrates additional key controls without taking your eyes off the load. Options include clamp release and automatic tilt centring.

Optimised pedal position All pedals are in the most ergonomic position, shaped and angled so each pedal will feel familiar to use and

Clear, informative display

easy on the ankles.

Full colour and easy to read from all angles. even in direct sunlight. Perfectly positioned for at-a-glance reference, without reducing all-round visibility.

 Touch-sensitive fingertip controls Controls have a natural-feeling, spring-loaded response: press gently for finer control.

ErgoCentric adjustable armrest This allows for a natural hand position, minimising injury and fatigue. Can be easily adjusted with one hand.

 Fully adjustable driving position Create the perfect seat, arm and

steering wheel position for each operator's unique needs.

Plenty of storage space

Storage for on-board essentials, putting clipboard, mobile phone, drinks bottle and pen all easily to hand.

Spacious, open cabin

The room means that operators of various sizes can benefit from a range of comfortable driving positions.

Extra-large low step

Entry and exit is easy and safe, thanks to a high-grip surface.

Dashboard bar

Easy to attach options such as monitors without blocking main display.

Narrow inclined dashboard

This enhances the driver's perception of surroundings - giving even greater visibility to the front and sides of the truck.

Four independently gliding windows

Rear windows can glide to the front, this helps with situations such as accessing door controls while reversing.

Rear window

Can be opened partially for ventilation or fully for emergency exit.

Low windshield wiper motor

Operator has a good view from the middle of the mast

Long handle bar Aids safer entry/exit.

Flat floor

No obstructions and plenty of room for the operator.

Dual iovsticks

Dual joysticks offer simultaneous functions for lift and tilt, and settings can be customised to customer requirements. (Option)







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HYDRAULICS

- Precision tilt and side shift This provides easy, fine control making difficult movements safer and
- Load sensing hydraulic system Load handling functions react similarly to different load weights.
- Automatically optimised hydraulic control for higher lifts Minimises jerky movements for smoother, safer operation.

FRAME AND BODY

visibility.

- **Bright working lights** Illuminate load and surroundings. Installed in mast structure, but do not light the structure or cabin to minimise reflections and increase
- Easy charging latch Small latch on the side of the truck allows charging cable to be connected without opening the battery door. (Li-ion option only)

STEERING SYSTEM

- Four Wheel Steering (4WS) Front axle drive motors turn in separate directions for better grip and precise handling. The rear axle steers through a full 100°, with dual drive motors for instant, smooth turning on the spot and no initial "push". This offers excellent manoeuvrability in tight spaces.
- Perfectly weighted steering Optimal steering wheel size with a light but firm feel gives confidence and manoeuvrability at all speeds.





















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EDÍA EX OPTIONAL LI-ION BATTERY SYSTEMS

MAKE YOUR FORKLIFT GO EVEN FURTHER



Tried, tested and proven in the field. lead-acid batteries have been the longstanding top choice for companies employing electric lift trucks. However, with long charging times, demanding maintenance requirements, the need for extra batteries and high risk of operator misuse, it can be a challenge. Fortunately, there's a new battery system on the block: Li-ion from Mitsubishi Forklift Trucks.

Designed to meet your business' demands - including multi-shift (24/7) operations - without the need for spare batteries, our high-performance Li-ion battery system is up to 30% more efficient than lead-acid counterparts. Plus, it's virtually error-proof, thanks to its ultra-low-maintenance design.

 Gas-emission free and space efficient operation with no need for air ventilation and/or closed charging room.

 Exceptional high battery & charger efficiency

due to state-of-the-art technology. delivers up to 30% more power efficiency than lead-acid batteries.

- Maintenance free design Eliminates the need for daily checks and water re-fills by operator. and reduces the risk of operators damaging cells.
- No spare batteries and charging room required saves space and costs in multi-shift application to maximise profitability.
- Quick charge capabilities mean that just 15 minutes is all your battery needs to keep your truck going a few more hours. (It only takes from 1 hour to fully charge a completely discharged battery.)
- Higher sustained voltage ensures more consistent lifting and driving performance, which is particularly noticeable towards the end of a shift

- Active protection componentry continuously monitors the system, highlighting potential issues, including misuse.
- High safety features include circuit protection, deep-discharge and overcharge protection, individual cell temperature and voltage monitoring.
- On-the-go performance and monitoring is possible thanks to the system's integrated monitoring system with easy-to-read display unit.
- Wide choice of battery and charger so the most suitable power supply can

be matched to the exact requirements of a specific application.







Fully integrated Li-ion battery

Features a sophisticated CANbus communication and an automatic ON/OFF synchronization between battery and truck. Battery level, notifications and alarms are integrated into the truck display. to secure clear and easy overview for the truck operator.



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VDI - PERFORMANCE & DIMENSIONS

	CHARACTERISTICS							
1.1	Manufacturer (abbreviation)			Mitsubishi Forklift Trucks				
1.2	Manufacturer's model designation			FB25AN	FB25ACN	FB30AN	FB30ACN	FB35AN
1.3	Power source: (battery, diesel, LP gas, petrol)			Electric	Electric	Electric	Electric	Electric
1.4	Operator type: pedestrian, (operator)-standing, -seated			Seated	Seated	Seated	Seated	Seated
1.5	Load capacity	Q	kg	2500	2500	3000	3000	3500
1.6	Load center distance	С	mm	500	500	500	500	500
1.8	Load distance, axle to fork face	х	m m	476	476	504	504	504
1.9	Wheelbase	у	mm	1730	1585	1730	1585	1730
	WEIGHT							
2.1	Truck weight, without load / including battery (simplex mast, lowest lift height)		kg	4737	4584	5230	5222	5654
2.2	Axle loading with maximum load, front / rear (simplex mast, lowest lift height)		kg	6301 / 937	6296 / 788	7348 / 882	7351 / 870	8183 / 971
2.3	Axle loading without load, front / rear (simplex mast, lowest lift height)		kg	2390 / 2347	2256 / 2328	2607 / 2623	2450 / 2771	2651 / 3002
	WHEELS, DRIVE TRAIN							
3.1	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front / rear			SE	SE	SE	SE	SE
3.2	Tyre dimensions, front			23 × 9 - 10	23 × 9 - 10	23 × 10 - 12	23 × 10 - 12	23 × 10 - 12
3.3	Tyre dimensions, rear			18 × 7 - 8	18 × 7 - 8	18 × 7 - 8	18 × 7 - 8	18 × 7 - 8
3.5	Number of wheels, front / rear (x=driven)			2 x / 2	2 x / 2	2 x / 2	2 x / 2	2 x / 2
3.6	Truck width (center of tyres), front	b10	mm	985	985	950	950	950
3.7	Truck width (center of tyres), rear	b11	mm	970	970	970	970	970
	DIMENSIONS			<u></u>				
4.1	Mast tilt, forwards / backwards	α/β	٥	6 / 8	6 / 8	6 / 8	6 / 8	6 / 8
4.2	Height with mast lowered (see tables)	h1	mm	2145	2145	2165	2165	2291
4.3	Free lift (see tables)	h2	mm	100	100	100	100	100
4.4	Lift height (see tables)	h3	mm	3300	3300	3270	3270	3300
4.5	Overall height with mast raised	h4	mm	4355	4355	4325	4325	4345
4.7	Height to top of overhead guard	h6	mm	2240	2240	2240	2240 1130	2240
4.8	Seat height	h7	mm	1130	1130 395	1130 395	395	1130 395
4.12	Tow coupling height	h10	mm	395	3459	3628	3487	
4.19	Overall length	l1	mm	3600	2389	2558	2417	3628 2558
4.20	Length to fork face (includes fork thickness) Overall width	l2	mm	2530	1190	1190	1190	1190
4.21 4.22	Fork dimensions (thickness, width, length)	b1/b2	mm	1190 40 × 100 × 1100	40 × 100 × 1100	45 × 120 × 1100	45 × 120 × 1100	45 × 120 × 1100
4.22	Fork carriage to DIN 15 173 A/B/no	s / e / l	mm	2A	2A	3A	3A	3A
4.23	Fork carriage width	b3	mm	1000	1000	1000	1000	1000
4.24	Ground clearance under mast, with load	m1	mm	105	105	115	115	115
4.32	Ground clearance at center of wheelbase, with load (forks lowered)	m2	mm	122	122	122	122	122
4.32	Working aisle width with 1000 x 1200 mm pallets, crosswise	Ast	mm	3805	3660	3830	3690	3830
4.34a	Working aisle width with 800 x 1200 mm pallets, crosswise	Ast	mm	3749	3605	3773	3629	3773
4.34b	Working aisle width with 800 x 1200 mm pallets, lengthwise	Ast	mm	3960	3815	3985	3840	3985
4.35	Turning circle radius	Wa	mm	2064	1920	2064	1920	2064
4.36	Minimum distance between centers of rotation	b13	mm	160	160	160	160	160
	PERFORMANCE	2.0		1.00				
5.1	Travel speed, with / without load		km/h	20 / 20	20 / 20	20 / 20	20 / 20	18 / 18
5.2	Lifting speed, with / without load		m/s	0.5 / 0.65	0.5 / 0.65	0.45 / 0.6	0.45 / 0.6	0.45 / 0.6
5.3	Lowering speed, with / without load		m/s	0.55 / 0.5	0.55 / 0.5	0.5 / 0.45	0.5 / 0.45	0.5 / 0.45
5.5	Rated drawbar pull, with / without load		N	9300 / 9700	9300 / 9700	9100 / 9550	9100 / 9550	8950 / 9500
5.6	Maximum drawbar pull, with / without load (5 min short duty)		N	15800 / 16200	15800 / 16200	15550 / 16050	15550 / 16050	15400 / 16000
5.7	Gradeability, with / without load		%	15 / 25	15 / 25	13 / 22	13 / 22	12 / 20
5.8	Maximum gradeability, with / without load		%	23 / 38	23 / 38	20 / 34	20 / 33	18 / 31
5.9	Acceleration time (10 metres) with / without load		s	4.1 / 3.8	4.1 / 3.8	4.2 / 3.8	4.2 / 3.8	4.4 / 3.8
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	ELECTRIC MOTORS							
6.1	Drive motor capacity (60 min. short duty)		kW	2 × 8	2 × 8	2 × 8	2 × 8	2 × 8
6.2	Lift motor output at 15% duty factor		kW	20.8	20.8	25.5	25.5	25.5
6.3	Battery to DIN 43 531 / 35 / 36 A/B/C/no			43536A	43536A	43536A	43536A	43536A
6.4	Battery voltage/capacity at 5-hour discharge		V/Ah	80 / 700-775	80 / 560-620	80 / 700-775	80 / 560-620	80 / 700-775
6.5	Battery weight		kg	1863	1558	1863	1558	1863
	MISCELLANEOUS							
8.1	Type of drive control			AC	AC	AC	AC	AC
10.1	Maximum operating pressure for attachments			185	185	185	185	205
10.2	Oil flow for attachments		bar	30	30	30	30	30
10.7	Noise level, value at operator's ear (EN 12053)		l/min		65	66	66	66
10.8	Towing coupling design / DIN type, ref.		dB(A)	DIN 15170-H				



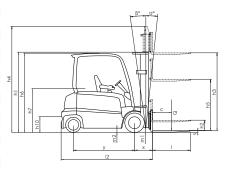
FB25-35A(C)N Series

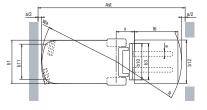
ELECTRIC COUNTERBALANCE

2.5 - 3.5 tonnes



FB35AN





Ast = Wa + R + a

Ast = Working aisle width wtih load Wa = Turning radius a = Safety clearance = 2×100 mm R = $\sqrt{(16 + x)^2 + (162 / 2 - b13)^2}$ b12 = Pallet width (1200 mm)

MAST PERFORMANCE AND CAPACITY

EDÍA EX

FB25-35(C)N Series

FB25AN / FB25ACN							FB25ACN		FB25AN	
MAST TYPE	h3 mm	h1 mm	h4 mm	h2 / h5** mm	tilt angle (fwd-rev)°	Q@ c=500 mm kg	Q@ c=600 mm kg	Q@ c=500 mm kg	Q@ c=600 mm kg	
	3000	1995*	4055	100	6 - 8	2500	2250	2500	2250	
	3300	2145*	4355	100	6 - 8	2500	2250	2500	2250	
	3740	2410	4795	100	6 - 8	2500	2250	2500	2250	
	4100	2590	5155	100	6 - 8	2500	2250	2500	2250	
SIMPLEX	4500	2800	5555	100	6 - 8	2500	2250	2500	2250	
	5000	3050	6055	100	6 - 8	2475	2250	2500	2250	
	5500	3300	6555	100	6 - 4	2400	2225	2450	2250	
	6000	3550	7055	100	6 - 4	2000	2000	2000	2000	
	3000	1995*	4055	940	6 - 8	2500	2250	2500	2250	
	3300	2145*	4355	1090	6 - 8	2500	2250	2500	2250	
DUPLEX	3700	2410	4755	1355	6 - 8	2500	2250	2500	2250	
	4020	2590	5075	1535	6 - 8	2500	2250	2500	2250	
	3730	1805*	4785	750	6 - 6	2500	2250	2500	2250	
	4030	1905*	5085	850	6 - 6	2500	2250	2500	2250	
	4300	1995*	5355	940	6 - 6	2500	2250	2500	2250	
	4750	2145*	5805	1090	6 - 6	2500	2250	2500	2250	
TRIPLEX	5060	2265	6115	1210	6 - 6	2450	2250	2500	2250	
	5500	2410	6555	1355	6 - 6	2350	2200	2500	2250	
	5990	2590	7045	1535	6 - 4	2275	2075	2375	2225	
	6500	2850	7555	1795	6 - 4	2075	2025	1925	1925	
	7000	3050	8055	1995	6 - 4	1575	1575	1475	1475	

^{*} Lower than overhead guard. ** Without load back rest free lift height is increased by 395 mm.

		FB35AN					
MAST TYPE	h3 mm	h1 mm	h4 mm	h2 / h5** mm	tilt angle (fwd-rev)°	Q@ c=500 mm kg	Q@ c=600 mm kg
	3000	2170*	4045	100	6 - 8	3500	3150
	3300	2290	4345	100	6 - 8	3500	3150
	3720	2500	4765	100	6 - 8	3500	3150
	4000	2755	5045	100	6 - 8	3500	3150
SIMPLEX	4500	3000	5545	100	6 - 8	3500	3150
	5000	3250	6045	100	6 - 8	3500	3150
	5500	3500	6545	100	6 - 4	3400	3150
	6000	3750	7045	100	6 - 4	2775	2775
	3010	2170*	4055	1125	6 - 8	3500	3150
	3300	2290	4345	1245	6 - 8	3500	3150
DUPLEX	3720	2615	4765	1570	6 - 8	3500	3150
	4000	2755	5045	1710	6 - 8	3500	3150
	3730	1930*	4775	885	6 - 6	3500	3150
	4010	2050*	5055	1005	6 - 6	3500	3150
	4390	2170*	5435	1125	6 - 6	3500	3150
	4700	2290	5745	1245	6 - 6	3500	3150
TRIPLEX	5030	2435	6075	1390	6 - 6	3450	3150
	5580	2615	6625	1570	6 - 6	3175	3075
	5990	2755	7045	1710	6 - 4	2875	2875
	6510	2930	7555	1885	6 - 4	2225	2225
	7000	3125	8045	2080	6 - 4	1675	1675

SE tires, standard lifting carriage, 1000 - 1400 mm forks

= Height with mast lowered

= Height with mast raised

= Load centre (distance)

= Lifting capacity, rated load

Standard free lift

= Lift height

= Full free lift

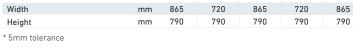
h5

3.5 ton

Capacity (kg)

Capacities at various load centres Simplex - h3 = 3300 mm





2.5 ton Load Centre (mm)

FB30ACN FB30AN FB30AN / FB30ACN h2 / tilt Q@ Q@ Q@ Q@ MAST h4 h3 h1 h5** angle c=500 mm c=600 mm c=500 mm c=600 mm mm mm mm mm (fwd-rev) kg kg kg kg 2045* 6 - 8 2165* 6 - 8 6 - 8 6 - 8 SIMPLEX 6 - 8 6 - 8 6 - 4 6 - 4 2035* 6 - 8 2165* 6 - 8 DUPLEX 6 - 8 6 - 8 1825* 6 - 6 1925* 6 - 6 2045* 6 - 6 2165* 6 - 6 6 - 6 **TRIPLEX** 6 - 6 6 - 4 6 - 4 6 - 4

^{*} Lower than overhead guard. Without load back rest free lift height is increased by 350 mm.

Lower than overhead guard.

^{**} Without load back rest free lift height is increased by 240 mm.

WHEN RELIABILITY IS EVERYTHING...



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 awardwinning 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 nonstandard 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.

info@mitforklift.com

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