

PANTOGRAPH REACH TRUCK

3,000-4,500 LB CAPACITY

A NEW LEVEL OF PERFORMANCE IS WITHIN YOUR REACH



ROBUST AND EFFICIENT

STATE-OF-THE-ART TECHNOLOGY SAVES ENERGY AND TIME FOR ADVANCED PRODUCTIVITY.



The ESR and EDR series of reach trucks has the ability to run up to two shifts on one battery charge, leading to significant operational profitability. All major components - software, motors and controllers - are designed into one synchronous, advanced system for superior energy efficiency, productivity and speed.

Dynamic Lift Speeds:

Built to efficiently move product, this series of reach trucks can reach exceptional lift and travel speeds without compromising on control. The reach truck's hydraulic system reaches lifting speeds of up to 165 feet per minute - one of the fastest in the industry - helping your operators move more product in less amount of time.

Advanced Brake Performance:

The ESR / EDR series uses advanced regenerative braking, which puts energy back into the battery when the truck slows down. This intuitive design also requires fewer parts and less maintenance. All of these features result in longer run times while maintaining consistent performance levels for even greater productivity and reduced maintenance costs.

Sealed Components For Greater Reliability:

These reach trucks feature sealed components for added protection in severe conditions, such as cooler or freezer applications, against dust and moisture. Sealed components offer greater reliability and require less maintenance over time, lowering your overall cost of operation today and in the future.

- Runs up to two shifts on one battery charge*
- Dynamic lift speeds up to 165 ft. / minute
- Efficient design, advanced AC technology
- Lower total cost of ownership

The reliability and dependability of the ESR and EDR series delivers the performance that your operation requires.

Outstanding Performance, Exceptional Value:
Mitsubishi Forklift Trucks developed the ESR and EDR series of reach trucks to deliver superior performance – at an exceptional value. With its advanced AC technology, this series is designed to reach new heights quickly and efficiently for greater productivity, shift after shift.



* in most applications



Advanced Technology and Performance

AC technology is integrated into the reach truck design for increased efficiency and productivity.

Your business will benefit from:

- Low energy consumption
- Longer run times
- Powerful acceleration
- Excellent lift speeds
- Efficient energy management
- Smooth directional changes
- Less maintenance

Combined, these benefits lead to a lower cost of ownership and a better bottom line.

Lithium-Ion **Availability:**

- Greater power efficiency
- Run for 24 hours a day, 7 days a week with opportunity charging
- Zero battery maintenance
- No watering
- No more battery exchangesNo gas emissions, odor or acidification
- No special charging areas or equipment needed
- Longer lasting life cycles (up to 3,000)
 5-year warranty on batteries
 2-year warranty on chargers



Ask your local dealer about additional performance and operator comfort options.

METICULOUS CONTROL.

ENHANCED DESIGN AND STABILITY KEEP OPERATORS IN CHARGE.



- Excellent stability at high lift heights
- Precise operation with intuitive controls
- Adjustable performance settings

These features help keep your operators productive and focused, shift after shift.

Designed For Stability From The Ground Up

The ESR / EDR series delivers exceptional stability that is unmatched at high lift heights.

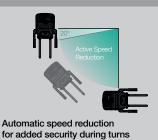
- Rigid mast design provides excellent load stability and smooth pantograph performance
- Suspended articulating drive axle helps to evenly spread loading forces between the drive and caster wheels
- Oual-articulating load wheels provide more contact area to the floor, helping to more evenly distribute load forces at very high lift heights

The result? Greater operator confidence and less risk of product damage.









Exceptional Comfort And Control:

- Electronic power steering makes maneuvering in and out of aisles easy, while allowing the operator to experience less fatigue.
- Spacious operator compartment with surrounding padding and sit-down operation capability on the wide chassis models helps to keep operators fresh.

Additional Features:

- Automatic speed reduction reduces travel speed when the truck turns past a predetermined angle overriding operator speed commands.
- Automatic parking brake The electromagnetic brake is mounted to the top of the drive motor and is only deactivated when the operator commands travel. It is automatically set when power is turned off or the operator steps off the traction pedal.



Informative Display:

Through one easy-to-read screen, operators can quickly view key indicators, such as the current battery charge level, hour meter and performance modes.



Excellent Visibility:

Operators experience confidence with this series' design. Features such as wide channel spacing, stacked hydraulic hosing and a robust overhead guard with angled bars provide excellent visibility to the load and the surrounding area.

	CHARACTERISTICS	ESR15N2 Single Reach		ESR18N2 Single Reach		ESR20N2 Single Reach		ESR23N2 Single Reach			
1	Type Power voltage										
2				36		36		36		36	
3	Capacity at rated load center	lb	kg	3,000	1,400	3,500	1,600	4,000	1,810	4,500	2,040
4	Capacity load center – distance from fork face	in	mm	24	600	24	600	24	600	24	600
	DIMENSIONS										
5	Maximum fork height	in	mm	450	11,430	450	11,430	450	11,430	450	11,430
6	Free fork height	in	mm	59	1,500	59	1,500	59	1,500	59	1,500
7	Fork width	in	mm	3.9	100	3.9	100	3.9	100	3.9	100
8	Fork thickness	in	mm	1.6	40	1.6	40	1.6	40	1.6	40
9	Fork spacing - out-to-out minimum	in	mm	12	305	12	305	12	305	12	305
10	Fork spacing - out-to-out maximum ¹⁾	in	mm	31.5	802	31.5	802	31.5	802	31.5	802
11	Tilt angle - forward / backward deg		3° / 4°		3° / 4°		3° / 4°		3° / 4°		
12	Mast width ²⁾	in	mm	30.2	766	30.2	766	32.2	816	32.2	816
12a	Reach stroke			24	610	24	610	24	610	24	610
13	Baseleg opening	in	mm	33 - 49	839 - 1,245	33 - 49	839 - 1,245	33 - 49	839 - 1,245	33 - 49	839 - 1,245
14	Baseleg width 3	in	mm	5.5	140	5.5	140	5.5	140	5.5	140
15 16	Overall length Length to fork face	in	mm	74.1	1,882 1,321	74.1	1,882 1,397	76.1	1,932	76.1	1,932 1,397
17	Overall chassis width	in	mm mm	52	1,054	55 41.5	1,054	55 41.5	1,397 1,054	55 41.5	1,054
18	Overall lowered height	in	mm	41.5 107	2,720	107	2,720	107	2,720	41.5 107	2,720
19	Overall height to top of overhead guard	in	mm	95	2,720	95	2,720	95	2,720	95	2,720
20	Overall height with extended mast	in	mm	290	7,370	290	7,370	290	7,370	290	7,370
21	Step height	in	mm	9.8	250	9.8	250	9.8	250	9.8	250
22	Battery roller height	in	mm	7	178	7	178	7	178	7	178
23	Minimum outside turning radius	in	mm	68.74	1,746	70.74	1,797	70.74	1,797	70.74	1,797
24	Minimum aisle - 90° stack - zero clearance	in	mm	00.74	1,7.10					70.74	- 1,7.07
	PERFORMANCE		Please consult your Mitsubishi forklift truck dealer								
26	Grade clearance 5) %			13		13		15.5		15.5	
27	Travel speed loaded/empty – standard ®		km/h	6.8 / 7.5	11.0/12.1	6.8 / 7.5	11.0/12.1	7.5 / 7.5	12.1 / 12.1	7.5 / 7.5	12.1 / 12.1
28	Travel speed loaded /empty – high performance 6)	mph	km/h	_	_	-	-	7.5 / 8.0	12.1 / 12.9	7.5 / 8.0	12.1 / 12.9
29	Lift speed loaded / empty (triplex) – standard	fpm	m/s	100 / 128	0.51 / 0.65	100 / 128	0.51 / 0.65	75 / 120	0.38 / 0.60	75 / 120	0.38 / 0.60
30	Lift speed loaded / empty (triplex) – high performance	fpm	m/s	-	_	-	_	90 / 160	0.45 / 0.80	90 / 160	0.45 / 0.80
31	Lower speed loaded / empty (triplex) – standard	fpm	m/s	108 / 108	0.55 / 0.55	108 / 108	0.55 / 0.55	110 / 110	0.55 / 0.55	110 / 110	0.55 / 0.55
32	Lower speed loaded / empty (triplex) – high performance	fpm	m/s	-	_	-	-	110/110	0.55 / 0.55	110 / 110	0.55 / 0.55
33	Gradeability - loaded / empty - maximum			9/9		9/9		9/9		9/9	
	WEIGHT	WEIGHT									
34	Truck weight - empty - without battery	lb	kg	6,850	3,100	6,850	3,100	7,050	3,200	7,050	3,200
35	Battery weight - min	lb	kg	1,600	730	1,600	730	2,000	910	2,000	910
36	Battery weight - max	lb	kg	2,000	910	2,000	910	2,300	1,050	2,300	1,050
	CHASSIS										
37	Chassis type (stand/sit)				and		and		and		and
38	Wheelbase	in	mm	59.5	1,511	61.5	1,562	61.5	1,562	61.5	1,562
39	Ground clearance - center of wheelbase	in	mm	2.4	61	2.4	61	2.4	61	2.4	61
40	Ground clearance - lowest point at mast	in	mm	2.4	61	2.4	61	2.4	61	2.4	61
41	Tire size - steer	in	mm	13.5 x 5.5	343 x 140	13.5 x 5.5	343 x 140	13.5 x 5.5	343 x 140	13.5 x 5.5	343 x 140
42	Tire size - caster	in	mm	7 x 4	180 x 100	7 x 4	180 x 100	7 x 4	180 x 100	7 x 4	180 x 100
43	Tire size - load wheels	in	mm	5 x 3.62	127 x 92	5 x 3.62	127 x 92	5 x 3.62	127 x 92	5 x 3.62	127 x 92
44				Electromagnetic Disc		Electromagnetic Disc		Electromagnetic Disc		Electromagnetic Disc	
45	ELECTRICAL Traction / pump / steer motor type			AC Induction		AC Induction		AC Induction		AC Induction	
46	Traction motor output (60 minute rating) – standard	hn	kW	6.0	4.5	6.0	4.5	6.0	4.5	6.0	4.5
47	Traction motor output (60 minute rating) – standard Traction motor output (60 minute rating) – high performance	hp hp	kW	- 0.0	4.0	- 0.0	4.5	9.2	6.9	9.2	6.9
48	Pump motor output (5 minute rating)	hp	kW	27.2	20	27.2	20	27.2	20	27.2	20
49	Steer motor output (60 minute rating)	hp	kW	1.0	0.7	1.0	0.7	1.0	0.7	1.0	0.7
73	OTHER	ııh	, , , , ,	1.0	0.7	1.0	0.7	1.0	0.7	1.0	0.7
50			1,120		1,120		1,120		1,120		
51	Battery compartment length 7	in	mm	14.25	362	16.25	413	16.25	413	16.25	413
52	Battery compartment width	in	mm	38.42	976	38.42	976	38.42	976	38.42	976
53	Battery compartment height	in	mm	31.65	804	31.65	804	31.65	804	31.65	804
00											

¹⁾ Maximum fork spacing 27.5 inches (698 mm) with 33 inch BLO.

²⁾ Out-to-out dimension across mast outer channels.

^{3) 5.9} inches (150 mm) on single reach chassis with MFH over 332 inches (8430 mm).

^{4) 7.3} inches (186 mm) on single reach chassis with mast MFH above 332 inches (8430 mm).

⁵⁾ Reduce grade clearance by 1.5% with 18.25 inch (463 mm) battery compartment length or 21.25 inch (539 mm) battery compartment length vs. 16.25 inch (412 mm) length.

⁶⁾ Maximum speed attainable, after break-in period, varies with travel direction, truck weight, rolling resistance, mast height, options and battery condition.

^{7) 21.25} inch (539 mm) battery compartment length standard on chassis with MFH over 332 inches (8430 mm).

	ESR	23LN	EDR	18N2	ESR18LN					
1	Single Reach		Double D	eep Reach	Single Reach					
2	36			36	3	36				
3	4,500	2,040	3,500	1,580	3,500	1,600				
4	24	600	24	600	24	600				
5	450	11,430	450	11,430	450	11,430				
6	59	1,500	59	1,500	59	1,500				
7	3.9	100	3.9	100	3.9	100				
8	1.6	40	1.6	40	1.6	40				
9	14.2	360	12	305	14.2	360				
10	32.5 825		31.5	802	32.5	825				
11	3° / 4°		3° / 4°		3° / 4°					
12	32.5 825		32.2 816		32.5 825					
12a	24	610	42	1,067	42	1,067				
13	33 - 49	839 - 1,245	33 - 49	839 - 1,245	33 - 49	839 - 1,245				
14	5.5	140	5	127	5.5	140				
15	77.4	1,967	78.1	1,983	79.4	2,018				
16	56.0	1,422	62.3	1,582	63.3	1,607				
17	48	1,220	41.5	1,054	48	1,220				
18	107	2,720	107	2,720	107	2,720				
19	92.5	2,349	95	2,413	92.5	2,349				
20	290	7,370	290	7,370	290	7,370				
21	9.8	250	9.8	250	9.8	250				
22	7	178	7	178	7	178				
23	73.1	1,858	70.74	1,797	73.1	1,858				
24		Please consult	your Mitsubishi	forklift truck deal	ler	-				
00										
26 27		14		5.5	1	4				
28	75/00	12.1 / 12.9	7.5 / 7.5	12.1 / 12.1	75/00	12.1 / 12.9				
_	7.5 / 8.0	12.17 12.9	7.5 / 8.0		7.5 / 8.0	12.17 12.9				
29		0.45 / 0.00	75 / 120	0.38 / 0.60		0.45 / 0.06				
<i>30</i> <i>31</i>	90 / 165	0.45 / 0.80	90 /160	0.45 / 0.86	90 / 165	0.45 / 0.86				
32	-		110 / 110	0.55 / 0.55 0.55 / 0.55	- 440 / 440	0.55 / 0.55				
33	110 / 110 0.55 / 0.55 9 / 10		110 / 110	/ 9	9/10					
JJJ	9 /	10	9	79	97 10					
34	7.050	3,200	7.400	3,350	7,400	3,350				
35	7,050 2,000	910	7,400	910	2,000	910				
36	2,300	1,050	2,000 2,300	1,050	2,300	1,050				
JU	4,000	1,000	۷,500	1,000	۷,300	1,000				
37	Sit /	Stand	C+-	and	Sit / Stand					
38	Sit / Stand 62.9 1,597		61.5	1,562	62.9	1,597				
39	62.9 2.4	61	2.4	61	2.4	61				
40	2.4	61	2.4	61	2.4	61				
41	13.5 x 5.5	343 x 140	13.5 x 5.5	343 x 140	13.5 x 5.5	343 x 140				
42	7 x 4	180 x 100	7 x 4	180 x 100	7 x 4	180 x 100				
43	5 x 3.62	127 x 92	5 x 3.62	127 x 92	5 x 3.62	127 x 92				
44		gnetic Disc		gnetic Disc		gnetic Disc				
	2.000 0.110	3	2.300 01110	J						
45	AC Induction		AC Inc	duction	AC Induction					
46	9.2	6.9	6.0	4.5	9.2	6.9				
47	_	_	9.2	6.9	-					
48	27.2	20	27.2	20	27.2	20				
49	1.0	0.7	1.0	0.7	1.0	0.7				
50	1.	120	1.1	120	1,120					
51	16.25	413	16.25	413	16.25	413				
UI										

SAFETY STANDARDS

987

868

38.42

31.65

These trucks meet American National Standards Institute/Industrial Truck Standards Development Foundation, ANSI/TSDF 856.1. UL-Classified by Underwriters Laboratories, Inc., as to fire and electric shock hazard only; Type E, EE (optional), Industrial Trucks. Users should be aware of, and adhere to, applicable codes and regulations regarding operator training, use, operation and maintenance of powered industrial trucks, including:

976

804

38.86

34.17

987

868

• ANSI/ITSDF B56.1.

52

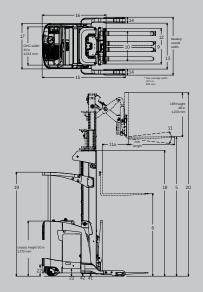
53

38.86

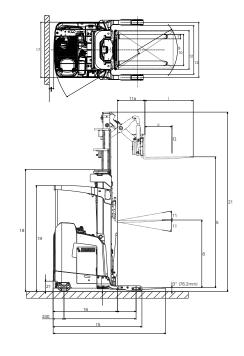
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- NFPA 505, fire safety standard for powered industrial trucks type designations, areas of use,
- ArrA 305, the safety statutard for powered industrial trucks type designations, areas of use, maintenance and operation.
 Occupational Safety and Health Administration (OSHA) regulations that may apply.
 Specifications, equipment, technical data, photos and illustrations based on information at time of printing and subject to change without notice. Some products may be shown with optional equipment.

Call-out numbers shown in the diagram below correspond to the first column of the specifications chart.



ESR23LN EDR18LN



ESR15N2-EDR18LN

3,000-4,500 LB CAPACITY PANTOGRAPH REACH TRUCK

Delivering Exceptional Value

More Than 296,000 Parts To Keep You Running Mitsubishi Forklift Trucks offers several parts programs, all designed to bring you top performance and convenience for your material handling needs. Contact your local dealer to put our services to work for you.

Support To Fit Your Operation

Find out why more companies are relying on Mitsubishi forklift truck dealers to keep their fleet operating at top performance. Our efficiency provides customers with a better return on investment, and qualified service technicians, diverse parts inventory and unparalleled selection of service options can help reduce your total cost of ownership.

Extensive Dealer Network

The Mitsubishi forklift truck dealer network is dedicated to finding the right forklift solution for your business. With more than 300 dealer locations, you can rely on your local dealer to provide the service you need when you need it most.





Manufactured with superior quality and exceptional value, Mitsubishi forklift trucks are supported by an extensive dealer and field support network located throughout North and South America. Don't forget to ask your local Mitsubishi forklift truck dealer about details on factory retail programs, financing plans and additional options and dealer services like planned maintenance and operator training.

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