

### PANTOGRAPH REACH TRUCK

3,000-4,500 LB CAPACITY

A NEW LEVEL OF PERFORMANCE IS WITHIN YOUR REACH



# POWERFUL EFFICIENCY.

ADVANCED TECHNOLOGY SAVES ENERGY AND TIME FOR GREATER PRODUCTIVITY.



#### **Industry-Leading Run Times:**

The ESR and EDR series of reach trucks has the ability to run up to two shifts on one battery charge, saving your business valuable operating time and money. All the major components – software, motors and controllers – are designed into one advanced system for superior energy efficiency, productivity and speed.

#### **Dynamic Lift Speeds:**

Built for productivity, this series of reach trucks achieves exceptional lift and travel speeds without compromising on control. One of the fastest in the industry, the reach truck's hydraulic system reaches a lifting speed of up to 165 feet per minute – helping your operators move more pallets in less 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.

#### **Sealed Components** For Greater Reliability:

These reach trucks feature sealed components for added protection in severe conditions, such as cooler or freezer applications. 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 ESR and EDR series delivers the efficiency and performance that your operation demands.

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



\* in most applications



- Low energy consumption

- Longer run timesPowerful accelerationLeading lift speeds
- Excellent energy management
  Smooth directional changes
  Less maintenance

Combined, these provide a lower cost of ownership and a better bottom line.



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

# PRECISE CONTROL.

ENHANCED DESIGN AND STABILITY KEEP OPERATORS IN CHARGE OF THEIR SHIFT.



- Superior 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 industry-leading stability that is unmatched at high lift heights.

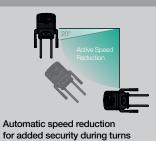
- Rigid mast design provides excellent load stability and smooth pantograph performance
- 2 Suspended articulating drive axle helps to spread loading forces between the drive and caster wheels
- 3 Dual-articulating load wheels provide more contact area to the floor, helping to more evenly distribute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

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









#### **Exceptional Comfort And Control:**

Operators remain comfortable and in control thanks to these advanced features:

- Electronic power steering makes maneuvering in and out of aisles easy, while allowing the operator to experience less fatigue throughout the day.
  Generous padding at the back, arm and knee locations provides added comfort and support.

#### Added Security:

- Automatic speed reduction reduces travel speed when the
- Automatic speed reduction reduces travel speed when the truck turns past a predetermined angle overriding operator speed commands.
   Automatic parking brake this brake automatically engages when the reach truck is initially turned on and when the operator steps off of the reach truck. For added security, the electromagnetic brake is only disengaged by operator command.



#### **Informative Display:**

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



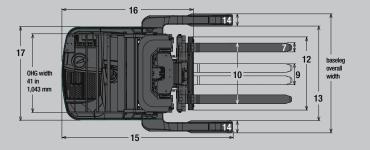
#### **Excellent Visibility:**

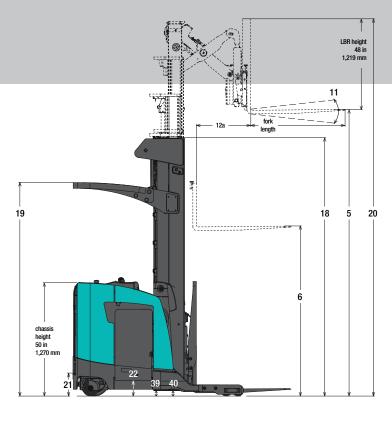
Operators experience confidence with the ESR / EDR series' enhanced design. Features such as wide channel spacing, stacked hydraulic hosing and a robust overhead guard with angled bars provide excellent visibility to the load and the surrounding area.

	CHARACTERISTICS			ES	R15N2	ESR	ESR18N2		ESR20N2		ESR23N2		EDR18N2	
1	Туре			Single Reach		Single Reach		Single Reach		Single Reach		Double Deep Reach		
2	Power voltage				36		36		36	3	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	3,500	1,580	
4	Capacity load center – distance from fork face	in	mm	24	600	24	600	24	600	24	600	24	600	
	DIMENSIONS													
5	Maximum fork height	in	mm	242	6,145	242	6,145	242	6,145	242	6,145	242	6,145	
6	Free fork height	in	mm	59	1,500	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	3.9	100	
8	Fork thickness		mm	1.4	35	1.4	35	1.6	40	1.6	40	1.4	35	
9	Fork spacing - out-to-out minimum	in		12	305	12	305	12	305	12	305	12	305	
10	Fork spacing - out-to-out maximum 1)	in		31.5	802	31.5	802	31.5	802	31.5	802	31.5	802	
11	Tilt angle - forward / backward			3° / 4°		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	32.2	816	
12a	Reach stroke			24	610	24	610	24	610	24	610	42	1,067	
13	Baseleg opening	in		33 - 49	839 - 1,245	33 - 49	839 - 1,245	33 - 49	839 - 1,245	33 - 49	839 - 1,245	33 - 49	839 - 1,245	
14	Baseleg width 3		mm	5.5	140	5.5	140	5.5	140	5.5	140	5	127	
15	Overall length		mm	74.1	1,882	76.1	1,932	76.1	1,932	76.1	1,932	78.1	1,983	
16	Length to fork face		mm	52	1,321	55	1,397	55	1,397	55	1,397	62.3	1,582	
17	Overall chassis width		mm	41.5	1,054	41.5	1,054	41.5	1,054	41.5	1,054	41.5	1,054	
18	Overall lowered height	in		107	2,720	107	2,720	107	2,720	107	2,720	107	2,720	
19	Overall height to top of overhead guard		mm	95 290	2,413 7,370	95 290	2,413	95 290	2,413 7,370	95 290	2,413 7,370	95 290	2,413	
20	Overall height with extended mast Step height		mm mm	9.8	250	9.8	7,370 250	9.8	250	9.8	250	9.8	7,370 250	
22	Battery roller height		mm	7	178	9.0	178	7	178	7	178	7	178	
23	Minimum outside turning radius		mm	68.74	1,746	70.74	1,797	70,74	1,797	70.74	1,797	70,74	1,797	
24	Minimum aisle - 90° stack - zero clearance		mm	00.74	1,740	10.74			i forklift truck dealer	70.74	1,737	70.74	1,737	
25	Load wheel centerline 4)	in		5.3	133	5.3	133	5.3	133	5.3	133	5.3	133	
20	PERFORMANCE		111111	0.0	100	0.0	100	0.0	100	0.0	100	0.0	100	
26	Grade clearance 5) %			13		13		15.5		15.5		15.5		
27	Travel speed loaded/empty – standard 6)	mph	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	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	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	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	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	110 / 110	0.55 / 0.55	
32	Lower speed loaded / empty (triplex) – high performance	fpm		_	_	-		110 / 110	0.55 / 0.55	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		9/9		
24	WEIGHT	lb	lea	6,850	3,100	6.050	2 100	7.050	3,200	7.050	3,200	7.400	3,350	
34	Truck weight - empty - without battery  Battery weight - min	lb	kg kg	1,800	910	6,850 1,800	3,100 910	7,050 2,000	910	7,050 2,000	910	7,400 2,000	910	
36	Battery weight - max		kg	2,300	1,050	2,300	1,050	2,300	1,050	2,300	1,050	2,300	1,050	
50	CHASSIS	110	ng	2,000	1,000	2,000	1,000	2,000	1,000	2,000	1,000	2,000	1,000	
37	Chassis type (stand/sit)			Stand		Stand		Stand		Stand		Stand		
	Wheelbase	in	mm	59.5	1,511	61.5	1,562	61.5	1,562	61.5	1,562	61.5	1,562	
39	Ground clearance - center of wheelbase	in		2.4	61	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	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	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	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	5 x 3.62	127 x 92	
44	Brake type			Electromagnetic Disc		Electromagnetic Disc		Electromagnetic Disc		Electromagnetic Disc		Electromagnetic Disc		
	ELECTRICAL			401-1-1		AC Induction		AO Lot		40 (		AC Induction		
	research parispy cases mean type		/ 14/		nduction				nduction		duction			
46	Traction motor output (60 minute rating) – standard	hp		6.0	4.5 _	6.0	4.5	6.0	4.5	6.0	4.5	6.0	4.5	
47	Traction motor output (60 minute rating) – high performance  Pump motor output (5 minute rating)	hp hp	kW kW	27.2	20	27.2	20	9.2 27.2	6.9 20	9.2 27.2	6.9 20	9.2 27.2	6.9 20	
49	7	hp		1.0	0.7	1.0	0.7	1.0	0.7	1.0	0.7	1.0	0.7	
43	OTHER	ııμ	1144	1.0	0.7	1.0	0.7	1.0	U.1	1.0	0.7	1.0	0.7	
50	Battery maximum capacity - A/H (6 hour rating)			1,120		1,120		1,120		1,120		1,120		
51	Battery compartment length <sup>7</sup>	in	mm	14.25	362	16.25	413	16.25	413	16.25	413	16.25	413	
	Battery compartment width	in	_	38.42	976	38.42	976	38.42	976	38.42	976	38.42	976	
	Battery compartment height	in	_	31.65	804	31.65	804	31.65	804	31.65	804	31.65	804	

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

# **ESR15N2- EDR18N2**





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

#### SAFETY STANDARDS

These trucks meet American National Standards Institute/Industrial Truck Standards Development Foundation, ANSI/ITSDF B56.1. 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:

- ANSI/ITSDF B56.1.
- NFPA 505, fire safety standard 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.

<sup>2)</sup> Out-to-out dimension across mast outer channels.

<sup>3) 5.9</sup> inches (150 mm) on single reach chassis with MFH over 332 inches (8430 mm).

<sup>4) 7.3</sup> inches (186 mm) on single reach chassis with mast MFH above 332 inches (8430 mm).

<sup>5)</sup> 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.

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

<sup>7) 21.25</sup> inch (539 mm) battery compartment length standard on chassis with MFH over 332 inches (8430 mm).

## ESR15N2-EDR18N2

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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MEHN0060 03/1