

HIGH PERFORMANCE IS WITHIN YOUR REACH.

ESR15N-ESS20N

3,000 – 4,500 LB CAPACITY

ELECTRIC REACH, DEEP REACH AND STRADDLE TRUCKS



1. Efficient

AC Drive System

Rapid acceleration, high travel speeds, as well as smooth directional changes are just a few of the key performance advantages of the ESR15N-ESS20N reach truck series.

High Performing Hydraulic System

The PM-1000 Alternating Current (AC) hydraulic system provides the lift/lower speeds and precise fork movement your application requires to maximize productivity, shift after shift.

2. Controlled

Smooth Operation

AC Electronic Power Steering (EPS) provides the precision needed in tight turns or congested areas. This feature also allows operators to set steering parameters to meet their specific preferences and experience levels.

Simple Control

The intuitive, multifunction control handle is optimally located, making it easy to work up to three functions simultaneously – even when wearing freezer gloves.

3. Innovative Design

Intuitive Display Panel

The standard premium display panel provides productivity-enhancing tools, such as travel speed, direction, battery state-of-charge and service indicators, designed to ensure the forklift is running at peak performance.

Enhanced Visibility

The flexible side stance design, narrow angled cross bars on the overhead guard and a variety of lighting packages optimize visibility in all directions.



4. Ergonomic

Ground Level Comfort

The slip-resistant cushioned floor pad, as well as backrest, knee and elbow padding are all designed to provide excellent comfort, while reducing operator fatigue and increasing productivity.

Low Step Height

The low 9.3 inch step height, low-effort operator presence pedal and right foot alcove make this reach truck easy to enter and exit, while also minimizing operator fatigue throughout the shift.



CHARACTERISTICS			ESR15N		ESR18N		ESR20N		ESR23N	
1	Type		single reach		single reach		single reach		single reach	
2	Power – voltage		36		36		36		36	
3	Capacity at rated load center	lb kg	3,000	1,400	3,500	1,600	4,000	1,800	4,500	2,000
4	Capacity at load center – distance	in mm	24	600	24	600	24	600	24	600
DIMENSIONS										
5	Maximum fork height with triplex mast	in mm	270	6,850	270	6,850	318	8,050	330	8,350
6	Free fork height	in mm	84.0	2,135	84.0	2,135	104	2,640	114	2,900
7	Fork width	in mm	3.9	100	3.9	100	3.9	100	3.9	100
8	Fork thickness	in mm	1.4	35.0	1.4	35.0	1.6	40.0	1.6	40.0
9	Fork spacing – out-to-out minimum	in mm	10.0	254	10.0	254	10.0	254	10.0	254
10	Fork spacing – out-to-out maximum ^[2]	in mm	31.5	800	31.5	800	31.5	800	31.5	800
11	Tilt angle, forward / backward	deg	3 / 4.5		3 / 4.5		3 / 4.5		3 / 4.5	
12	Mast width ^[1]	in mm	30.6	776	30.6	776	30.6	776	31.8	807
13	Baseleg opening	in mm	33.0 – 49.0	839 – 1,245	33.0 – 49.0	839 – 1,245	33.0 – 49.0	839 – 1,245	33.0 – 49.0	839 – 1,245
14	Baseleg width ^[3]	in mm	4.75	120	5.5	140	5.5	140	5.5	140
15	Overall length	in mm	75.9	1,930	78.0	1,985	78.0	1,985	79.3	2,015
16	Length to fork face	in mm	53.8	1,370	55.8	1,420	55.8	1,420	57.1	1,455
17	Overall chassis width	in mm	40.9	1,039	40.9	1,039	40.9	1,039	40.9	1,039
18	Overall lowered height with maximum triplex mast	in mm	119	3,030	119	3,030	139	3,540	149	3,790
19	Overall lowered height to top of overhead guard	in mm	94.0	2,390	94.0	2,390	94.0	2,390	94.0	2,390
20	Overall height with extended maximum triplex mast	in mm	318	8,100	318	8,100	366	9,300	378	9,650
21	Step height	in mm	9.3	237	9.3	237	9.3	237	9.3	237
22	Battery roller height	in mm	6.2	158	6.2	158	6.2	158	6.2	158
23	Minimum outside turning radius	in mm	70.8	1,800	72.8	1,850	72.8	1,850	74.1	1,885
24	Minimum aisle – 90° stack – zero clearance	in mm	Please consult your local dealer.							
25	Load wheel centerline ^[4]	in mm	6.2	158	6.2	158	6.2	158	6.2	158
26	Grade clearance	%	13.7		13.2		13.2		12.9	
PERFORMANCE										
27	Travel speed tractor first ^[7] (loaded)	mph km/h	7.5	12.0	7.5	12.0	7.5	12.0	7.5	12.0
28	Travel speed forks first ^[7] (loaded)	mph km/h	7.5	12.0	7.5	12.0	7.5	12.0	7.5	12.0
29	Lift speed loaded (triplex)	fpm m/s	64.0	0.32	58.0	0.29	54.0	0.27	50.0	0.25
30	Lift speed empty (triplex)	fpm m/s	95.0	0.47	95.0	0.47	95.0	0.47	95.0	0.47
31	Lower speed loaded (triplex)	fpm m/s	110	0.55	110	0.55	110	0.55	110	0.55
32	Lower speed empty (triplex)	fpm m/s	90.0	0.45	90.0	0.45	90.0	0.45	90.0	0.45
33	Maximum fork height with rated load	in mm	258	6,550	258	6,550	240	6,050	240	6,050
34	Gradeability – loaded – maximum		7.0		9.0		9.0		9.0	
35	Gradeability – empty – maximum		9.0		9.0		9.0		9.0	
WEIGHT										
36	Truck weight – empty – with minimum weight battery	lb kg	7,700	3,500	8,000	3,650	8,500	3,850	9,100	4,150
37	Battery weight – minimum	lb kg	1,700	775	2,000	910	2,000	910	2,000	910
38	Battery weight – maximum	lb kg	2,000	910	2,300	1,050	2,300	1,050	2,300	1,050
CHASSIS										
39	Chassis type		stand		stand		stand		stand	
40	Wheelbase	in mm	61.5	1,560	63.5	1,615	63.5	1,615	65.0	1,645
41	Ground clearance – center of wheelbase	in mm	2.0	51.0	2.0	51.0	2.0	51.0	2.0	51.0
42	Ground clearance – lowest point at mast	in mm	2.0	51.0	2.0	51.0	2.0	51.0	2.0	51.0
43	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
44	Tire size – caster	in mm	7.0 x 4.0	180 x 100	7.0 x 4.0	180 x 100	7.0 x 4.0	180 x 100	7.0 x 4.0	180 x 100
45	Tire size – load wheels	in mm	5.0 x 2.88	127 x 73	5.0 x 3.62	127 x 92	5.0 x 3.62	127 x 92	5.0 x 3.62	127 x 92
46	Brake type		electric disc		electric disc		electric disc		electric disc	
ELECTRICAL										
47	Traction motor type		AC induction		AC induction		AC induction		AC induction	
48	Traction motor output kW (60 minute rating)	kW HP	5.1	6.8	5.1	6.8	5.1	6.8	5.1	6.8
49	Pump motor type		AC induction		AC induction		AC induction		AC induction	
50	Pump motor output kW (5 minute rating)	kW HP	11.0	14.7	11.0	14.7	11.0	14.7	11.0	14.7
51	Steer motor type		AC induction		AC induction		AC induction		AC induction	
52	Steer motor output kW (60 minute rating)	kW HP	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4
53	Battery maximum capacity – A/H (6 hour rating)		775		1,240		1,240		1,240	
54	Battery compartment length	in mm	14.25	361	16.25	412	16.25	412	16.25	412
55	Battery compartment width	in mm	38.58	980	38.58	980	38.58	980	38.58	980
56	Battery compartment height	in mm	31.65	804	31.65	804	31.65	804	31.65	804

SAFETY STANDARDS

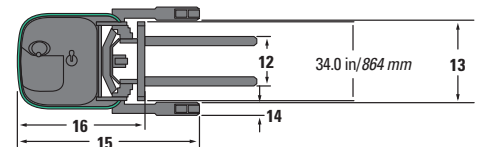
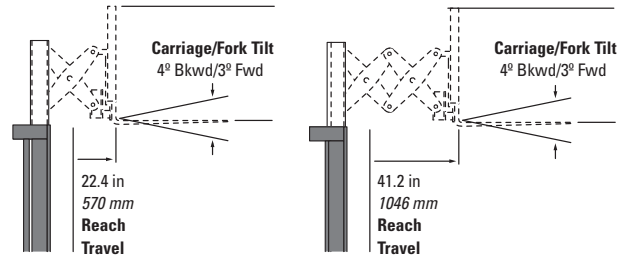
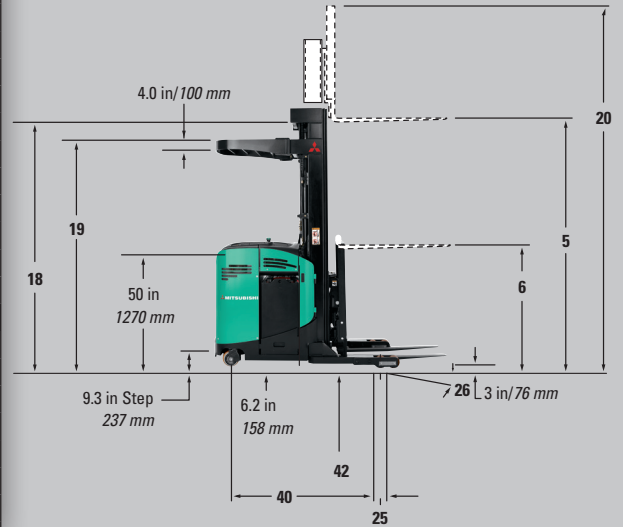
These trucks meet American National Standards Institute/Industrial Truck Standards Development Foundation, ANSI/ITSDF B56.1. UL-Classified by Underwriters Laboratories, Inc., as to fire and electric shock hazard only; Type E, EE (optional), Industrial Trucks. Users should be aware of, and adhere to, 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.

EDR13N		EDR15N		ESS15N		ESS20N	
deep reach		deep reach		straddle reach		straddle reach	
36		36		36		36	
2,500	1,200	3,000	1,400	3,000	1,400	4,000	1,800
24	600	24	600	24	600	24	600
270	6,850	330	8,350	270	6,850	270	6,850
84.0	2,135	114	2,900	84.0	2,135	84.0	2,135
3.9	100	3.9	100	3.9	100	3.9	100
1.4	35.0	1.4	35.0	1.4	35.0	1.6	40.0
10.0	254	10.0	254	10.0	254	10.0	254
31.5	800	31.5	800	31.5	800	31.5	800
3 / 4.5		3 / 4.5		3 / 4.5		3 / 4.5	
31.8	807	31.8	807	30.6	776	30.6	776
33.0 – 49.0	839 – 1,245	33.0 – 49.0	839 – 1,245	33.0 – 49.0	839 – 1,245	33.0 – 49.0	839 – 1,245
4.25	108	5.0	127	4.25	108	5.0	127
84.8	2,155	86.8	2,205	75.9	1,930	78.0	1,985
62.1	1,580	64.1	1,630	53.8	1,370	55.8	1,420
40.9	1,039	40.9	1,039	40.9	1,039	40.9	1,039
119	3,030	149	3,790	119	3,030	119	3,030
94.0	2,390	94.0	2,390	94.0	2,390	94.0	2,390
318	8,100	378	9,650	318	8,100	318	8,100
9.3	237	9.3	237	9.3	237	9.3	237
6.2	158	6.2	158	6.2	158	6.2	158
77.1	1,960	79.1	2,010	70.8	1,800	72.8	1,850
Please consult your local dealer.							
6.2	158	6.2	158	6.2	158	6.2	158
12.3		11.9		13.7		13.2	
7.5	12.0	7.5	12.0	7.5	12.0	7.5	12.0
7.5	12.0	7.5	12.0	7.5	12.0	7.5	12.0
75.0	0.37	75.0	0.37	64.0	0.32	54.0	0.27
90.0	0.45	90.0	0.45	95.0	0.47	95.0	0.47
110	0.55	110	0.55	110	0.55	110	0.55
90.0	0.45	90.0	0.45	90.0	0.45	90.0	0.45
258	6,550	258	6,550	258	6,550	240	6,050
7.0		7.0		7.0		7.0	
7.0		7.0		7.0		7.0	
8,400	3,825	9,400	4,250	6,800	3,100	7,200	3,275
1,700	775	2,000	910	1,700	775	2,000	810
2,000	910	2,300	1,050	2,000	910	2,300	1,050
stand		stand		stand		stand	
68.0	1,720	70.0	1,775	61.5	1,560	63.5	1,615
2.0	51.0	2.0	51.0	2.0	51.0	2.0	51.0
2.0	51.0	2.0	51.0	2.0	51.0	2.0	51.0
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
7.0 x 4.0	180 x 100	7.0 x 4.0	180 x 100	7.0 x 4.0	180 x 100	7.0 x 4.0	180 x 100
5.0 x 2.88	127 x 73	5.0 x 3.62	127 x 92	5.0 x 2.88	127 x 73	5.0 x 3.62	127 x 92
electric disc		electric disc		electric disc		electric disc	
AC induction		AC induction		AC induction		AC induction	
5.1	6.8	5.1	6.8	5.1	6.8	5.1	6.8
AC induction		AC induction		AC induction		AC induction	
11.0	14.7	11.0	14.7	11.0	14.7	11.0	14.7
AC induction		AC induction		AC induction		AC induction	
0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.4
775		1,240		775		1,240	
14.25	361	16.25	412	14.25	361	16.25	412
38.58	980	38.58	980	38.58	980	38.58	980
31.65	804	31.65	804	31.65	804	31.65	804

ESR15N- ESS20N



- 1) Add 3 inches (77 mm) at cross bar.
- 2) 27.5 inches (698 mm) for BLO less than 37 inches (889)
- 3) 5.9 inches (150 mm) on single reach chassis with MFH over 330 inches (8,350 mm).
- 4) 7.3 inches (186 mm) with mast MFH over 330 inches (8,350 mm).
- 5) Reduce grade clearance by 0.4% with 18.25 inches (463 mm) battery compartment length and 1% with 21.25 inches (539 mm) battery compartment length vs. 16.25 inches (412 mm) length.
- 6) 21.25 inches (539 mm) battery compartment length standard on chassis with MFH over 330 inches (8,350 mm).
- 7) Maximum speed attainable, after break-in period, varies with truck weight, rolling resistance, mast height, options and battery condition.

ESR15N-ESS20N

3,000 – 4,500 LB CAPACITY ELECTRIC REACH, DEEP REACH AND STRADDLE TRUCKS

Flexible Operation

1. Adaptable Design

The ESR15N series of reach trucks can be designed for your specific application. Select the mast, battery box, baseleg opening, and other features to meet your business' needs.

2. Help At Heights

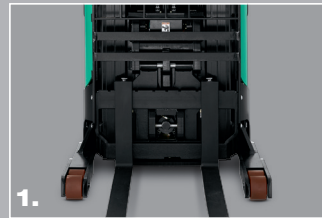
Do you have an overhead obstruction or need help operating at high lift heights? No problem. The optional lift heights encoder makes operating at higher lift heights less complicated.

3. Overhead Guard Covers

These wire mesh or plexiglass covers are a great addition when you're handling small items that may fall through the overhead guard.

4. Rear Post And Hip Extension

This option will help keep the reach truck operating smoothly in applications where horizontal rack beams create spaces higher than the forklift chassis but below the overhead guard.



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.



Mixed Sources

Product group from well-managed forests, controlled sources and recycled wood or fiber
www.fsc.org Cert no. SW-COC-012342
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