



MESCO Elevator Springs Buffers (ESB) and Accessories



Advantages and Benefits MESCO ESB

ESB Selection Guide

ESB for 0.70 m/s

ESB for 1.0 m/s

ESB Kit, Assembly and Accessories

Springs for Elevator Safety & Control
Systems



MESCO ESB - Advantages and Benefits

1 million+ buffers supplied

ADVANTAGES

Ready-to-install: Standard models no custom design cycle

Cost-effective: Lower total cost vs. imported alternatives

Long service life: Corrosion-resistant, durable spring steel

MATERIALS AND TESTING

Material: Best-in-class alloy steels and SAE-graded spring wire

In-house testing: ASTM-calibrated equipment and controlled procedures

100% load-tested: Each buffer is aligned for IS 17900/EN 81



PERFORMANCE

Speed range: 0.63 to 1.0 m/s



Typical capacity: 6 to 26 passengers

Applications: Covers most residential and commercial installations

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MESCO ESB - Advantages over PU/Rubber

MESCO ESB	PU/RUBBER BUFFER
	
Long lasting, no aging failure	Degrades over time
High wind, sand and other harsh working conditions, the product performance is not affected	Not suitable for metallurgical environment
Works in harsh environment	Poor Resistance to UV Light
High corrosion resistance	Will degrade in humid, moisture and saline environments. Especially in India along the coastline
Made In India, does not have to be imported and stocked	Imported, have to pay fees and taxes + inventory

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MESCO ESB Selection Guide

In compliance with latest Elevator Safety Standards IS 17900 / EN 81 which mandates the specification of Buffers to incorporate the following:

Speed Of The Elevator	Minimum Deflection Of Spring Buffer
0.70 MPS	65 mm
1.00 MPS	135 mm

Number Of Passengers	Recommended Maximum Rated Load (kg) (Weight Of Passengers + Weight Of CAR)
6	750
8	1000
10	1250
13	1600
16	2000
20	2500
26	3300

All MESCO Spring Buffers are designed for maximum load capacity of 2.50 Times to 4.00 Times the Rated Load

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ESB Specifications for 0.70 M/S

MESCO ESB SERIES 0.70 M/S SPECIFICATIONS					
Item Code	Outside Dia (mm)	Height (mm)	Load at Stroke (65-80mm) (Kg)	Max Load (Kg)	Color Strip
ESB-07-0750	102	171	1686	1875	Yellow
ESB-07-1000	110	182	2247	2500	Red
ESB-07-1250	105	203	2811	3125	Green
ESB-07-1600	112	214	3600	4000	White
ESB-07-2000	118	227	4500	5000	Black
ESB-07-2500	123	242	5627	6250	Orange
ESB-07-3300	133	255	7430	8250	Pink
Bottom Plate: 250mm X 150mm X 6mm Thk -2 Holes 13mm each CTC 200mm					
Finish: High gloss Sapphire Blue (RAL 5003) - Epoxy Coating					

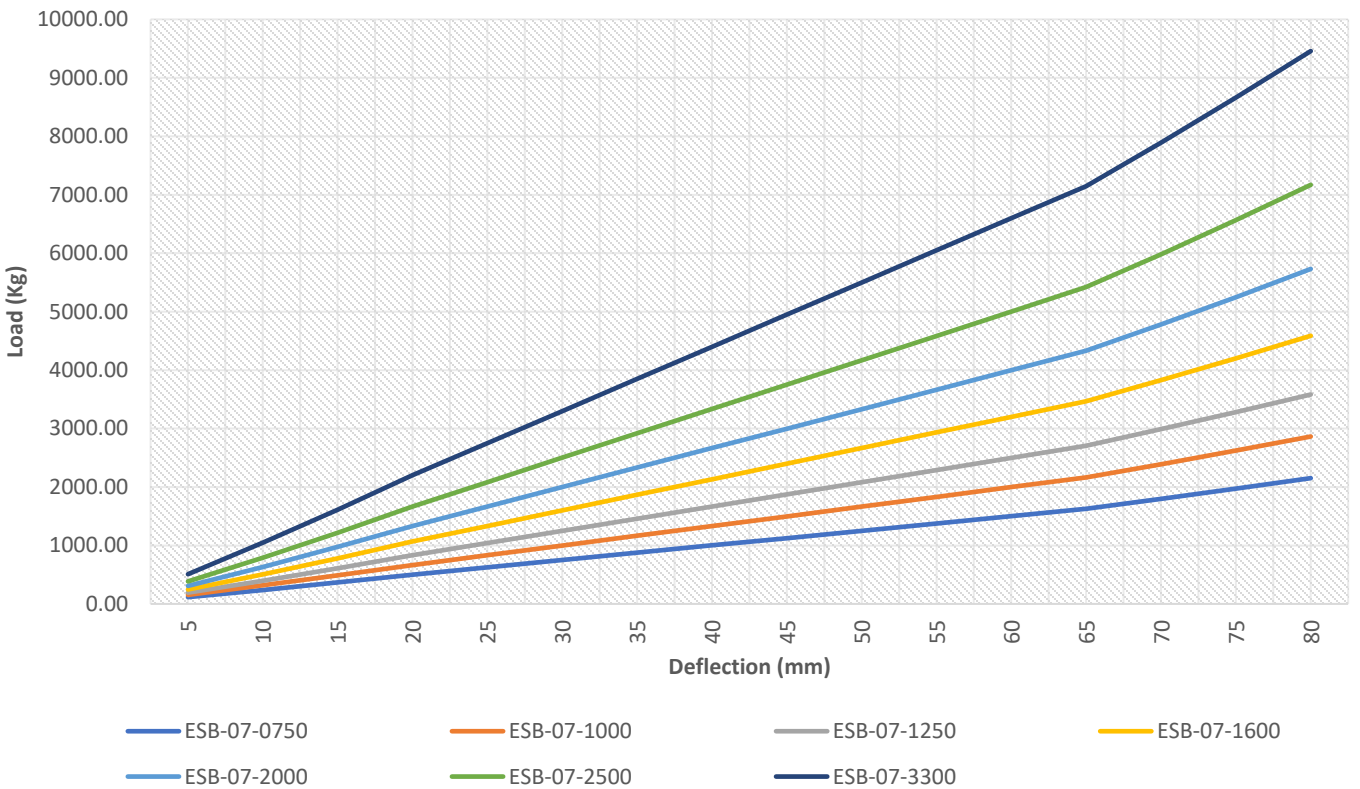
MESCO ESB SERIES 0.7 M/S RATED LOAD		
Recommended For PASS / Max Rated Load, kg	Single Buffer (1X)	Double Buffer (2X)
6 PASS / 750 kg	ESB-07-0750	-
8 PASS / 1000 kg	ESB-07-1000	-
10 PASS / 1250 kg	ESB-07-1250	-
13 PASS / 1600 kg	ESB-07-1600	ESB-07-750
16 PASS / 2000 kg	ESB-07-2000	ESB-07-1000
20 PASS / 2500 kg	ESB-07-2500	ESB-07-1250
26 PASS / 3300 kg	ESB-07-3300	ESB-07-1600

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ESB 0.7 m/s Load vs Deflection Characteristics

ESB 0.7 m/s
Load (Kg) vs Deflection (mm)



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ESB Specifications for 1.0 M/S

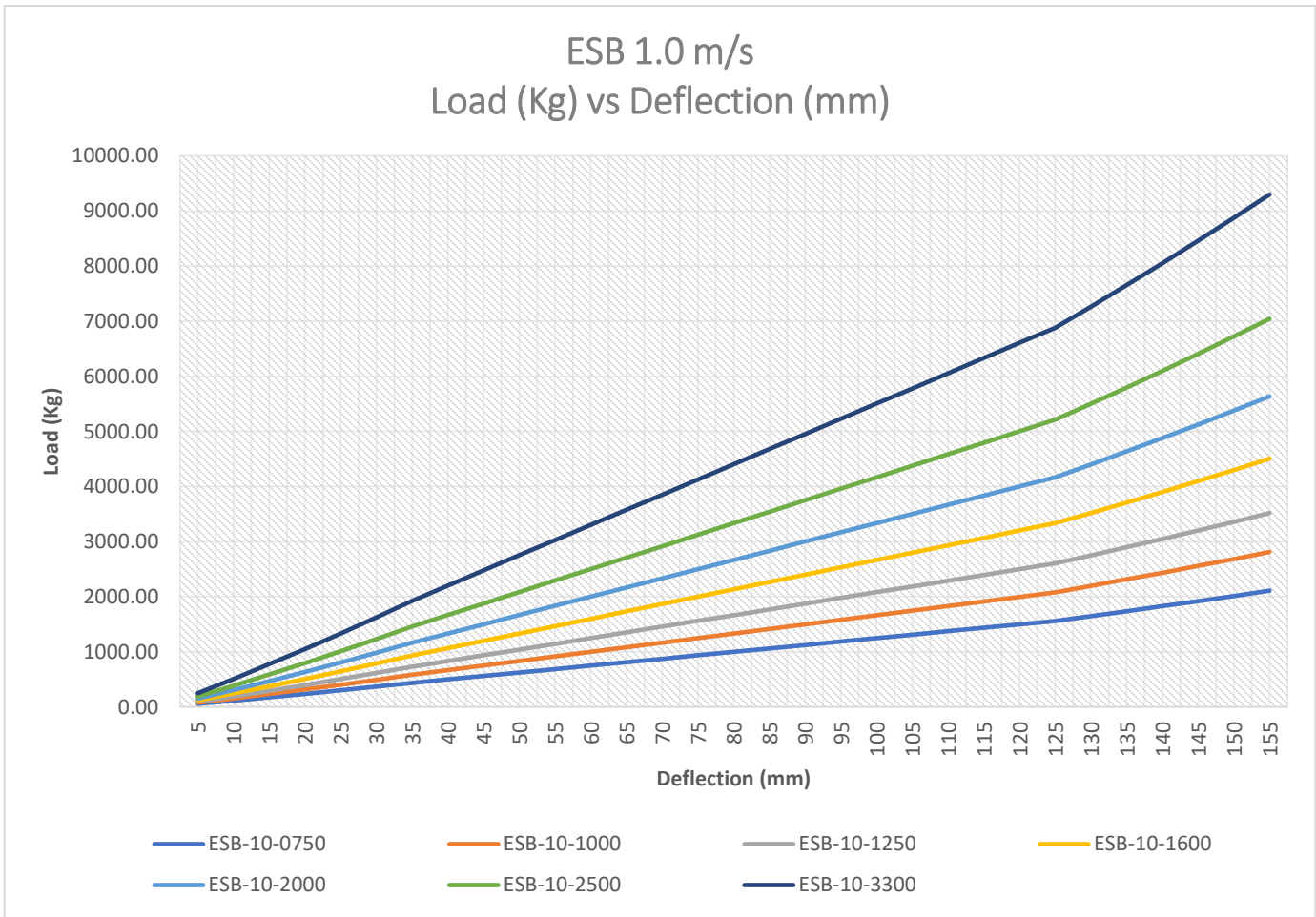
MESCO ESB SERIES 1.0 M/S SPECIFICATIONS					
Item Code	Outside Dia (mm)	Height (mm)	Load at Stroke (135-155mm) (Kg)	Max Load (Kg)	Color Strip
ESB-10-0750	102	305	1686	1875	Yellow
ESB-10-1000	110	320	2247	2500	Red
ESB-10-1250	105	362	2811	3125	Green
ESB-10-1600	112	367	3600	4000	White
ESB-10-2000	118	404	4500	5000	Black
ESB-10-2500	123	422	5627	6250	Orange
ESB-10-3300	133	447	7430	8250	Pink
Bottom Plate: 250mm X 150mm X 6mm Thk -2 Holes 13mm each CTC 200mm					
Finish: High gloss Signal Grey (RAL 7004) - Epoxy Coating					

MESCO ESB SERIES 1.0 M/S RATED LOAD		
Recommended For PASS / Max Rated Load, kg	Single Buffer (1X)	Double Buffer (2X)
6 PASS / 750 kg	ESB-10-0750	-
8 PASS / 1000 kg	ESB-10-1000	-
10 PASS / 1250 kg	ESB-10-1250	-
13 PASS / 1600 kg	ESB-10-1600	ESB-10-750
16 PASS / 2000 kg	ESB-10-2000	ESB-10-1000
20 PASS / 2500 kg	ESB-10-2500	ESB-10-1250
26 PASS / 3300 kg	ESB-10-3300	ESB-10-1600

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ESB 1.0 m/s Load vs Deflection Characteristics



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ESB Kit and Installation Accessories

STANDARD ESB KIT

Buffers: Matched pair/quantity per **car rating and stroke**

Baseplate & alignment slots: For squaring and level adjustment

Anchoring hardware: Heavy-duty anchors sized to baseplate and pit slab specification

Graded fasteners: Nuts, washers, shims with corrosion protection

DOCUMENTATION & INSTALLER AIDS

Torque specifications: At-a-glance tightening values for installers/supervisors

Installation checklist: Step-by-step site verification and sign-off

Bill of Materials (BOM): Itemized part codes and quantities

ASSEMBLY OPTIONS (AS REQUIRED)

Top & bottom plate set: Base plate with pre-drilled holes

Pedestal stand: Fixed or variable pedestal with plates

Special assemblies: Twin-spring configuration between top and bottom plates (*where specified*)



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Springs for Elevator Safety & Control Systems

We manufacture springs of all types for the elevator industry



- Rope Bolt
- Thimble Socket
- Rope Anchorage



- Overspeed Governors
- Door Closure Springs

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