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# MICROCELLULAR POLYURETHANE IMPACT BUFFERS



WITH SQUARE BASE PLATE

WITH CENTRAL MOUNTING BOLT



# MICROCELLULAR POLYURETHANE IMPACT BUFFERS

Buffers are required to prevent damage to equipment and structural work resulting from travel units colliding with each other or with the end of track. It is also very important to avoid unsafe working conditions and to ensure safety of workers.

'Supracell' Polyurethane Buffers with elastomeric cellular structure exhibit high energy absorption capacities under loads and speeds.

## ADVANTAGES OF 'SUPRACELL' BUFFERS

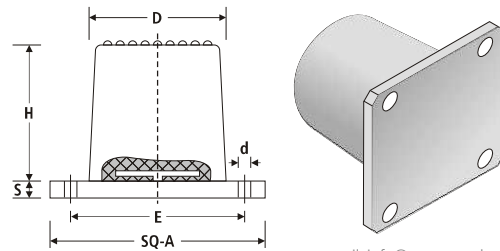
- High energy absorption.
- Extensive compressibility upto 75% of buffer length.
- High volume compressibility results into minimal bulging.
- Noiseless impact absorption.
- Integral construction without any moving component.
- Favourable diameter-to-height ratio avoiding buckling.
- Low weight.
- Possibility to arrange buffers against each other.
- Studded surface to avoid skidding after impact.
- Resistant to oil, grease, ozone and ageing.
- Wide temperature stability - 40<sup>o</sup> C to 80<sup>o</sup> C.
- Simple to assemble.

## TYPICAL APPLICATIONS:

- Cranes • Industrial Lifts • Scissor Lifts • Wagons
- Loading Docks & Platforms



### WITH SQUARE BASE PLATE

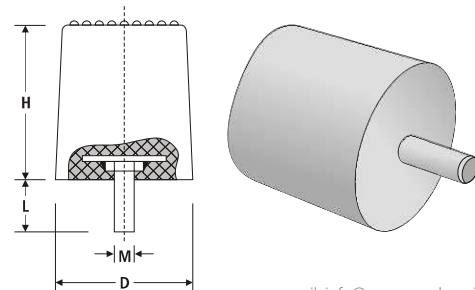


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Size	D	H	S	A	E	d	Energy Capacity (kJ)	Compression (mm)	End Force (kN)
80 X 80	80	80	8	110	80	12.5	1.35	60	45
100 X 100	100	100	8	125	100	12.5	2.7	75	72
125 X 125	125	125	10	160	125	17	5.13	94	112.5
160 X 160	160	160	10	200	160	17	10.8	120	180

Data is applicable for speed less than 1 m/s & 75% compression.  
Buffer Material : Microcellular polyurethane with 0.55 gm/cm<sup>3</sup> density.

### WITH CENTRAL MOUNTING BOLT



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Size	D	H	Mounting Bolt (MXL)	Energy Capacity (kJ)	Compression (mm)	End Force (kN)
80 X 40	80	40	M12 X 35	0.72	30	45
80 X 80	80	80	M12 X 35	1.35	60	45
100 X 50	100	50	M12 X 35	1.35	38	72
100 X 100	100	100	M12 X 35	2.7	75	72
125 X 63	125	63	M12 X 35	2.61	47	112
125 X 125	125	125	M12 X 35	5.13	94	112
160 X 80	160	80	M12 X 35	5.4	60	180
160 X 160	160	160	M12 X 35	10.8	120	180

Data is applicable for speed less than 1 m/s & 75% compression.  
Buffer Material : Microcellular polyurethane with 0.55 gm/cm<sup>3</sup> density.

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