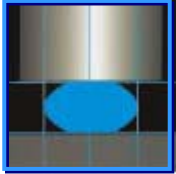


**BARRY  
CONTROLS**



# PAULSTRADYN®

**New!**



## DESCRIPTION

Paulstradyn series mounts are a low frequency, high deflection mount designed to provide maximum isolation efficiency required for equipment installations in industrial and other commercial buildings.

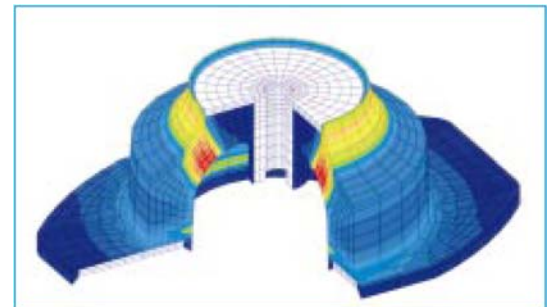
## APPLICATIONS

Excellent vibration isolation for stationary (non-mobile) equipment and machinery such as:

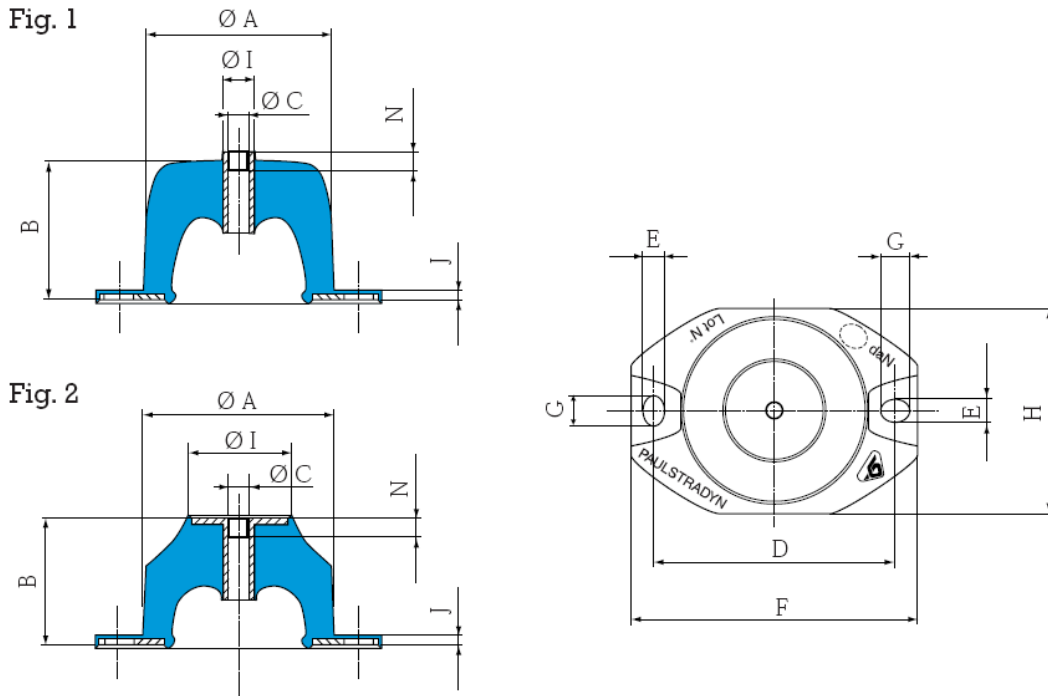
- Rotating machinery
  - Fans
  - Air-conditioning
  - Pumps
  - Compressors
  - Generator sets.
- Plumbing suspensions
- Loaded ceilings
- Transformers
- Electrical enclosures

## FEATURES

- Exceeds 90% isolation efficiency at 1,500 rpm (25 Hz).
- Constant height over wide load range.
- Designed using finite element modeling to reduce elastomer stresses and prolonging Service Life.
- Stable performance characteristics during Service Life.
- Simple to install.
- Oval mounting plate holes are rotated 90° opposite each other for fine alignment during installation reducing potential for radial pre-load of mount.
- 400 hours protection against salt spray (when mounted according to the recommendations given in the catalogue).
- Minimal increase of stiffness with frequency
- Minimal creep of resilient element.



# DIMENSIONS



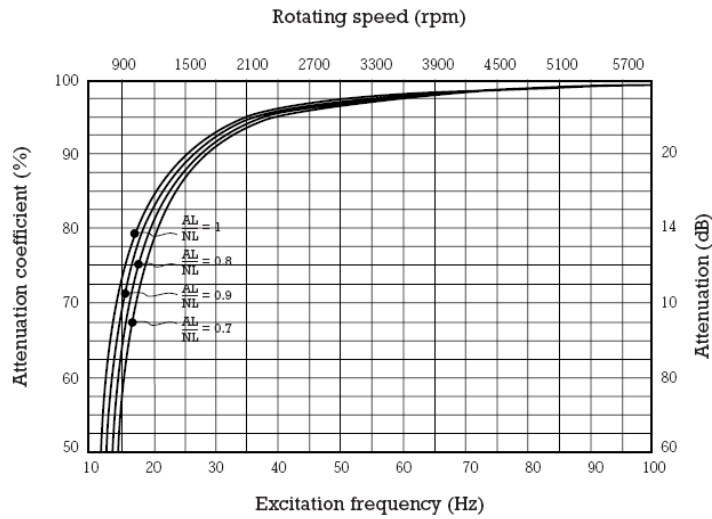
*B = Height, unloaded 1.575in (40 mm), under load 1.260in (32) mm (see Technical Characteristics).  
 NL: Nominal static load with mounting under axial compression.*

Paulstradyn Designation	Ref. P/N	Nominal Load NL - lbs	Ref. Fig.	Ø A in	B in	C	D in	E in	F in	G in	H in	Ø I in	J in	N in
4	533701	9	1	1.575	1.575	M6	2.047	0.244	2.520	0.244	1.732	0.472	0.098	0.236
7	533702	15	1	1.575	1.575	M6	2.047	0.244	2.520	0.244	1.732	0.472	0.098	0.236
12	533703	25	1	1.575	1.575	M6	2.047	0.244	2.520	0.244	1.732	0.472	0.098	0.236
20	533704	45	2	2.362	1.575	M6	2.992	0.244	3.543	0.323	2.520	1.260	0.098	0.236
30	533705	65	2	2.362	1.575	M6	2.992	0.244	3.543	0.323	2.520	1.260	0.098	0.236
50	533706	110	2	2.362	1.575	M6	2.992	0.244	3.543	0.323	2.520	1.260	0.098	0.236
70	533707	155	2	3.150	1.575	M8	3.937	0.323	4.803	0.480	3.307	1.890	0.098	0.472
100	533708	220	2	3.150	1.575	M8	3.937	0.323	4.803	0.480	3.307	1.890	0.098	0.472
130	533709	290	2	3.150	1.575	M8	3.937	0.323	4.803	0.480	3.307	1.890	0.098	0.472
160	533710	355	2	3.937	1.575	M10	4.882	0.402	5.984	0.638	4.094	2.677	0.118	0.394
200	533711	440	2	3.937	1.575	M10	4.882	0.402	5.984	0.638	4.094	2.677	0.118	0.394
260	533712	575	2	3.937	1.575	M10	4.882	0.402	5.984	0.638	4.094	2.677	0.118	0.394
325	533713	720	2	5.906	1.575	M12	7.165	0.480	8.425	0.795	6.063	4.567	0.177	0.394
400	533714	880	2	5.906	1.575	M12	7.165	0.480	8.425	0.795	6.063	4.567	0.177	0.394
500	533715	1100	2	5.906	1.575	M12	7.165	0.480	8.425	0.795	6.063	4.567	0.177	0.394
640	533716	1415	2	7.874	1.575	M16	9.449	0.559	11.024	0.953	8.031	6.260	0.217	0.787
820	533717	1810	2	7.874	1.575	M16	9.449	0.559	11.024	0.953	8.031	6.260	0.217	0.787
1050	533718	2320	2	7.874	1.575	M16	9.449	0.559	11.024	0.953	8.031	6.260	0.217	0.787
1350	533719	2980	2	7.874	1.575	M16	9.449	0.559	11.024	0.953	8.031	6.260	0.217	0.787

# TECHNICAL AND PERFORMANCE CHARACTERISTICS

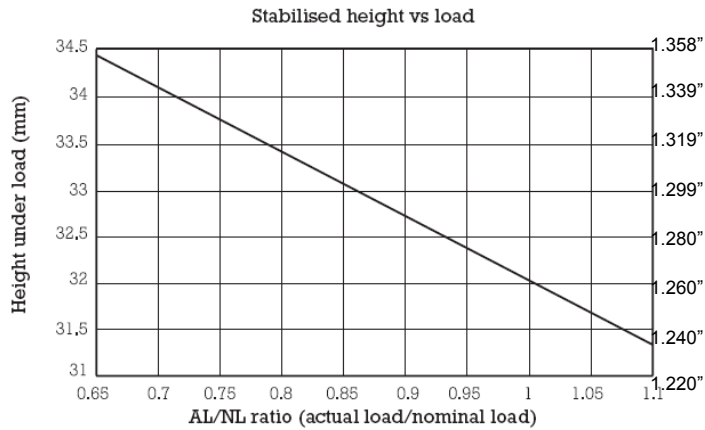
- Vibration isolation and height characteristics under nominal load are stabilized after one month under load at 68°F (20°C).
- Natural Frequency:
  - Axial = 7 Hz, with nominal load
  - Radial = 3 to 5.5 Hz.
- Maximum displacement:
  - axial : .472 in
  - radial : ± .394 in
- Temperature:
  - Operating = -4°F (-20°C) to +158°F (+70°C)
- Good dynamic performance at high frequency
- Withstands fatigue from shock
- Reduced creep

## Vibration Isolation



$$\frac{AL}{NL} = \text{Ratio} \frac{\text{Actual load}}{\text{Nominal load}}$$

## Height under load

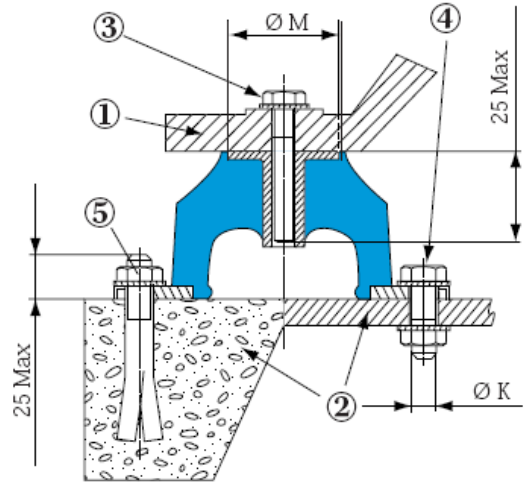


# INSTALLATION

## Standard installation

1. Machine base or foot dimensions  $> \varnothing M^*$
2. Supporting structure (floor) dimensions  $>$  base of mounting  $F \times H^*$  (refer to page 39 in catalogue)
3. Fastener  $\varnothing C^{**}$
4. Fastener  $\varnothing K$ , a washer is required between the fastener head and the PAULSTRADYN\*
5. Fastener  $\varnothing K$ , a washer is required between the fastener head and the PAULSTRADYN\*

- Notes: \* to distribute the load evenly and resist corrosion  
 \*\* fasteners and nuts  $\geq$  grade 4.6
1. Do not paint the mounts after installation.
  2. Some installations may require a grounding strap.



ON CONCRETE                      ON CHASSIS

Fig. 1

## Recommended torque

$\varnothing K$	M6	M8	M10	M12
Torque: in lbs.	138	44.4	106.8	177.6

## Alternative installation

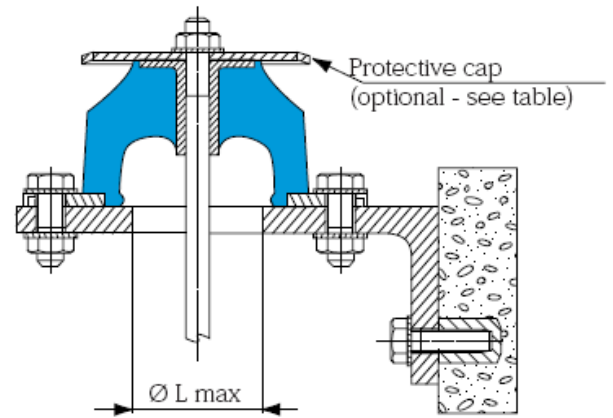


Fig. 2

## Protective cap cross reference

Paulstradyn P/N References	Dimensions (Metric are Defaults)					Optional Protection Cap
	$\varnothing K$ - fig 1	$\varnothing L$ max - fig 2		$\varnothing M$ max - fig 1		
		mm	in	mm	In	
533701, 533702, 533703	M5	27	1.063	14	.551	342919
533704, 533705, 533706	M5	40	1.575	34	1.339	342356
533707, 533708, 533709	M6	46	1.811	50	1.969	342733
533710, 533711, 533712	M8	47	1.850	70	2.756	342734
533713, 533714, 533715	M10	99	3.898	118	4.646	342353
533716, 533717, 533718, 533719	M12	127	5.0	162	6.378	342354