

*Injection Moulding machine,
installed on Isomounts.*



Above: Turret punch installed on Isomounts



*Right: Injection moulding production
line installed on Isomounts*



Isomounts
Load range: 150 - 12,000kg per mount.

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Farrat.com

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Why use Farrat Isomounts?

Performance

Isomounts have been designed to provide effective vertical and horizontal shock absorption, vibration isolation and damping as well as easy and precise levelling for a wide variety of machinery and equipment.

Load range from 150kg up to 12,000kg per mount.

Layout Flexibility

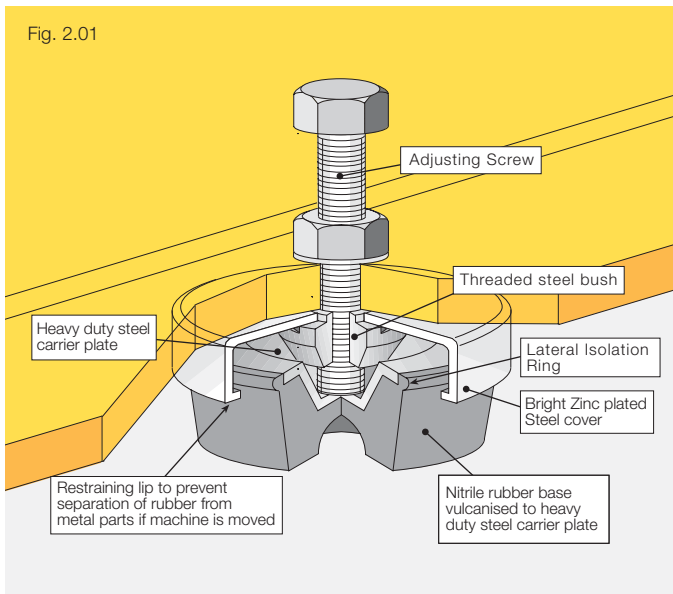
Isomounts provide a simple, economical and flexible solution to factory or plant room layout planning, enabling easy installation and movement of machines without the need for bolting down or grouting.

Quality & Durability

Isomounts are manufactured from the highest quality zinc plated steel and Farrat NBR high damping, oil resistant rubber. The design has been continuously improved to ensure long-term durability against mechanical degradation and chemical corrosion. This is proven with thousands of worldwide industrial applications.

Typical applications include:

- Compressors and Pump Sets
- Diecasting Machines
- Diesel Generators
- Hydraulic Power Packs
- Injection Moulding Machines
- Packaging Machinery
- Presses: Forging, Hydraulic and Mechanical
- Rubber Machinery
- Testing and Measuring Machinery



Above: Injection moulding machine installed on Isomounts



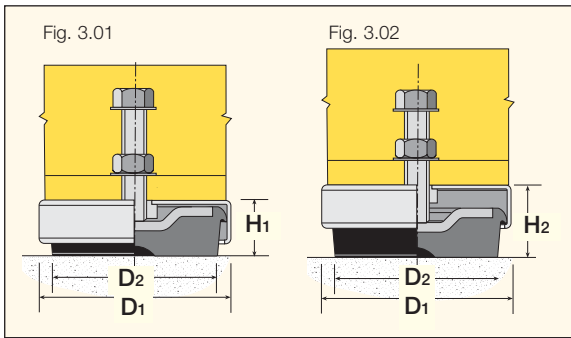
Right: Shock testing machine installed on Isomounts



Far Right: Power press, installed on Isomounts



Above: Turret punch installed on Isomounts



Select mounts so that:
Machine + Tooling + Workpiece Weight (kg)
Number of Mounts
is within the maximum load mount given in the table below

If the machine is made up of sections, calculate load per mount for each section.



Order examples (mount + screw assembly):
ISO5-80 + H30x2.0x200 or ISO2-80 + SH16x1.5x120
Standard steel cover finish: Bright zinc plated.
Alternative finishes available on request

Isomount - Sizes										
Isomount (ISO)	Unit	0-70	1-80	2-80	2H-80	3-80	3HM-80	35-80	4-80	5-80
Maximum Load / Mount	kg	150	500	1,200	1,500	3,000	3,000	4,000	5,000	12,000
Diameter D1	mm	50	78	118	120	160	160	200	228	320
Diameter D2	mm	36	60	100	100	140	140	170	200	300
Height, Min H1	mm	21	32	39	55	39	55	55	55	70
Height, Max H2	mm	30	44	55	70	55	75	75	75	100
Vertical Adjustment	mm	9	12	16	15	16	20	20	20	30
Standard Rubber	IRHD A	-70	-80	-80	-80	-80	-80	-80	-80	-80
Vertical Spring Constant	kN / mm	1.2	3.3	7	7	17	17	21	26	55
Horizontal Spring Constant	kN / mm	0.4	1.2	2.5	2.5	6	6	7	10	20
Damping Factor	C / Cc	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Ratio of Dynamic to Static Modulus		2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Mass without screw	kg	0.25	0.5	1.25	1.3	2.35	2.9	4.7	6.4	19.1
Screw Threads	H	M10x1.5	M10x1.5	M12x1.75	-	-	M20x1.5	M20x1.5	M20x1.5	M24x1.5
		-	M12x1.75	M16x2.0	-	-	-	M24x1.5	M24x1.5	M30x2.0
	SH	-	M12x1.25	M16x1.5	M16x1.5	M16x1.5	M16x1.5	M20x1.5	M20x1.5	M24x1.5
		-	-	-	-	-	M20x1.5	M24x1.5	M24x1.5	M30x1.5

Isomount - Adjusting Screws Sizes and Lengths Available						
H = Hexagon Head Screw - zinc plated						
Thread- H	M10x1.5	M12x1.75	M16x2.0	M20x1.5	M24x1.5	M30x2.0
Length (mm)	60	80	80	70	130	200
	80	100	100	100	150	-
	-	-	150	120	250	-
	-	-	-	150	-	-
	-	-	-	180	-	-
Spanner Required	17 A/F	19 A/F	24 A/F	30 A/F	36 A/F	46 A/F
SH = Hexagon Head Stud - zinc plated						
Thread- SH		M12 x 1.25	M16 x 1.5	M20 x 1.5	M24 x 1.5	M30 x 1.5
Length (mm)	-	-	100	100	-	-
	-	120	120	170	170	170
Spanner Required	-	9 A/F	12 A/F	15A/F	19A/F	24 A/F
Order Example (Mount + Screw Assembly): ISO5-80 + H30x2.0x200 ISO2-80 + SH16x1.5x120						



Testing Machine (Left) and Fly Press (Right), both installed on Isomounts.

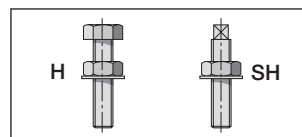


Fig 3.3

For any assistance or further information on Isomounts, Isoblocs and general Machine Mounting Methods we invite you to contact us.
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Hexagonal head (H)

Place machine on temporary packing e.g. blocks of wood about 10mm thicker than the minimum height of selected Isomount. Place mounts under machine base, at bolt hole positions.



Place steel washer on top of machine base over hole and pass adjusting screw into threaded hole in mount until the Isomount touches the machine.



With all the mounts installed, tighten up each adjusting screw clockwise until each Isomount starts to take load. Take away packings so that the machine rests on Isomount. Machines can now be levelled using the Isomount adjusting screws. NOTE: If the machine is heavy, only make small upward movements at a time or if necessary assist upward movement with jack.



Once levelled, tighten up locking nuts on adjusting screws. Remember to undo locknuts before re-adjusting mounts.

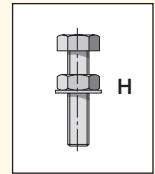
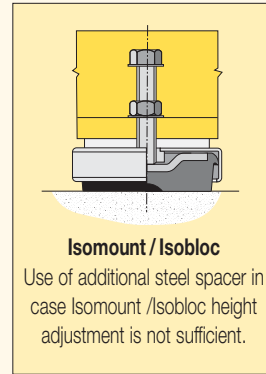


Fig. 4.01



Squarehead (SH)

Place machine on temporary packing e.g. blocks of wood about 10mm thicker than the minimum height of selected Isomount. Place mounts under machine base, at bolt hole positions.



Lower machine onto the Isomount so that the bolt passes through the bolt hole.



With all the mounts installed, tighten up each adjusting screw clockwise until each Isomount starts to take load. Take away packings so that the machine rests on Isomount. Machines can now be levelled using the Isomount adjusting screws. NOTE: If the machine is heavy, only make small upward movements at a time or if necessary assist upward movement with jack.



Once levelled, tighten up locking nuts on adjusting screws. Remember to undo locknuts before re-adjusting mounts.

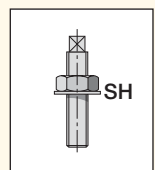
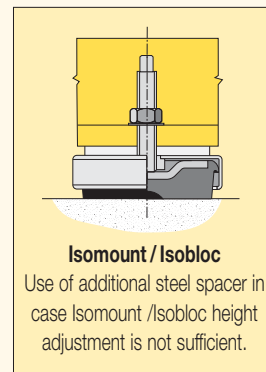


Fig. 4.02

Check the level of the machine after 24hrs operation, and re-level if necessary. Check machine level periodically according to machine manufacturer's recommendations or at least every 6 months, whichever is sooner.