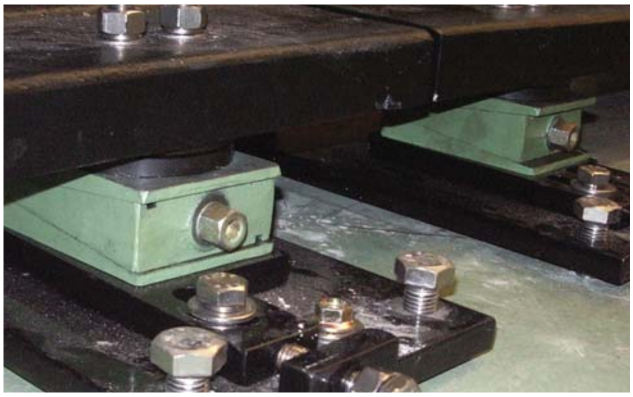
Wedgemounts
Levelling mounts with anti vibration variants

MAM-Wedgemounts-11a

Blow Moulding Machine, installed on Bolt-on Wedgemounts (WLB).

Aircraft NDT testing rig installed on Bolt Through Precision Levelling Elements (WLT-LE) with Spheriseats (SPS).



Freestanding, Bolt-on and Bolt-through Wedgemounts

Wedgemounts

www.farrat.com

Farrat.com

Farrat Isolevel Ltd. Balmoral Road, Altrincham,
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Fax: +44 (0) 161 924 1616 email: sales@farrat.com

Farrat

MAM-Wedgemounts-11a

Standard Wedgemounts
WL, WLF, WLB, WLT

Performance

Developed and manufactured by Farrat and used for decades in countless applications worldwide, these screw driven, vertical rise wedge adjustment machine mounts are the ideal solution for accurate, efficient and economical machine installations.

Features

- Precision vertical levelling adjustment with no horizontal forces applied when adjusting.
- High ratio of lifting force to adjustment torque to ensure accurate and smooth levelling.
- Enhanced machine stability (the machine is not sitting on the screw thread).
- Vibration Damping (in some variants).
- Allow for easy installation and relocation of the machinery to provide factory layout flexibility.

Typical Applications

- General Machine Tools.
- Printing machines.
- CNC lathes and machining centres.
- Boring and milling machines.
- Grinding machines.
- Transfer machines.
- Rolling mills.
- Sensitive / test equipment.
- Injection moulding machines.
- Die-casting machines.
- Power Presses.
- Long bed machinery.
- Buildings and structures.
- Civil Engineering.

Farrat Wedgemounts are available in a number of forms:

Standard Wedgemount as:

Freestanding (FS)
WL, WLF

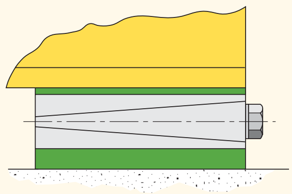


Fig. 2.01

Bolt-On (BO)
WLB

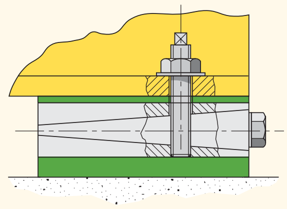


Fig. 2.02

Bolt-Through (BT)
WLT

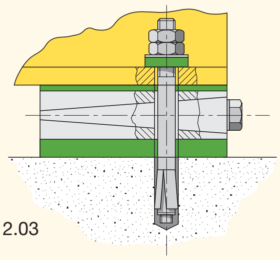
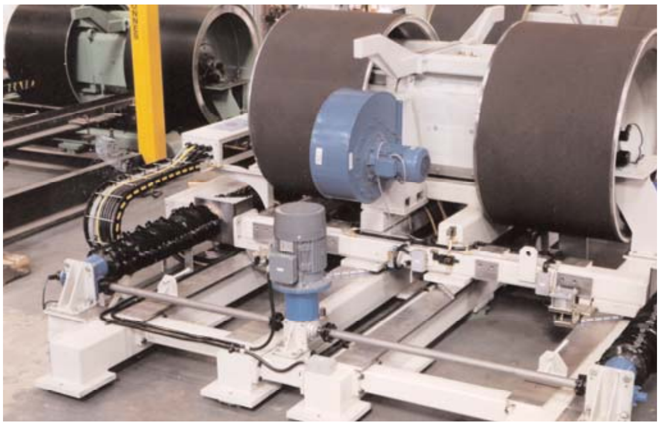


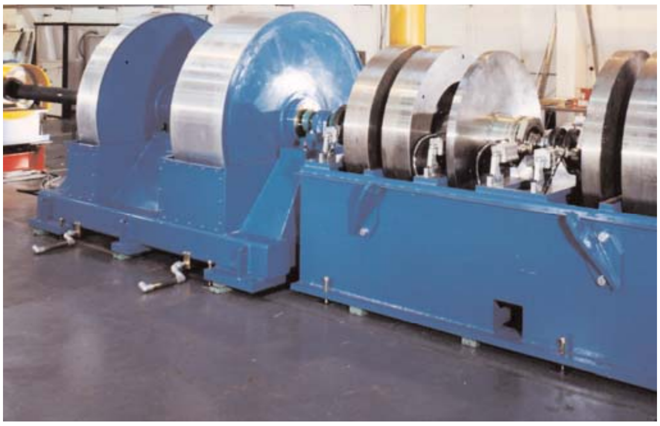
Fig. 2.03



*Automotive Rolling Road,
installed on Bolt-through
Wedgemounts (WLT).*

*Cam Shaft Grinder,
installed on Freestanding
Wedgemounts (WLF).*

*Blow Moulding Machine,
installed on Bolt-on Wedgemounts (WLB).*

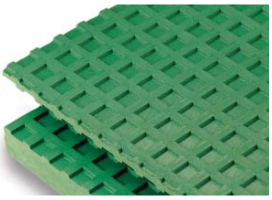


*Electric Motor Dynomometer
installed on Freestanding
Wedgemounts (WLF).*

Vibration Damping Grade Guide			
Damping Grade	Pad Bonded to Top	Pad Bonded to Bottom	Application Examples
A - Standard	SG5P1	SG15P1	General Machine Tools, Printing Machines etc.
B - Stiff	SG2P2	SG5P2	CNC Lathes, Machining Centres, Boring & Milling Machines, Grinders, Transfer Machines etc.
C - Elastic	SG2P2	IMBR70-25	Passive Isolation of Sensitive Equipment (e.g. Test Equipment) & Active Isolation of Impact machinery (e.g. Presses) etc.
D - Flexible	NBR70-5P1	NBR70-15P1	Shock Absorbing Injection Moulding & Die-casting Machines etc.
E - Very Stiff	SG2P2	SG2P2	Long bed machinery.
F - Standard	No pad	SG15P1	General Machine Tools, Printing Machines etc. **WLB/T Only.**
G - Stiff	No pad	SG5P2	CNC Lathes, Machining Centres, Boring and Milling Machines, Grinders, Transfer machines etc. **WLB/T Only.**
H - Very Stiff	No pad	SG2P2	Long bed machinery. **WLB/T Only.**
LE - Very Stiff	No pad	No pad	Long Bed Machinery Machined top and bottom surfaces, no vibration damping.

Guide to Pad materials

SG



Squaregrip (Nitrile rubber with fibre reinforcement) - High strength, stiff vibration damping material for machinery and equipment needing a stiff vibration damped support with minimum deflection.

NBR

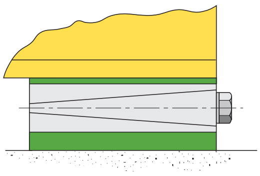
(Nitrile rubber) - High performance vibration & shock damping material with excellent chemical resistance properties.

IM BR

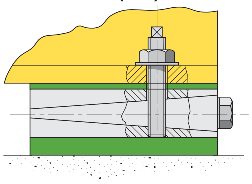
Isomat (Nitrile rubber) - Specially moulded material with excellent shock absorption and vibration isolation properties.

Wedgemount Specification

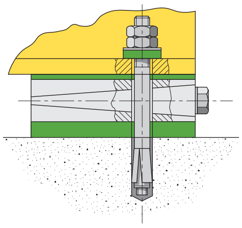
Freestanding (FS) WL, WLF



Bolt-On (BO) WLB



Bolt-Through (BT) WLT



Model*			Maximum Load / Mount (kg) / Damping Grade								
Free standing	Bolt on	Bolt through	A	B	C	D	E	F	G	H	LE**
WLF 1	WLB 1	WLT 1	1,000	1,300	800	1,000	3,000	900	1,200	3,000	3,000
WL 2	-	-	900	1,200	700	900	3,000	-	-	-	3,000
WLF 2	WLB 2	WLT 2	1,300	1,600	1,000	1,300	4,000	1,300	1,600	4,000	4,000
WL 3	-	-	1,900	2,200	1,500	1,900	6,000	-	-	-	6,000
WLF 3	WLB 3	WLT 3	2,300	3,000	1,800	2,300	7,000	2,300	3,000	7,000	7,000
WL 4	WLB 4	WLT 4	4,000	5,000	3,200	4,000	12,000	4,000	5,000	12,000	12,000
WL 5	-	-	3,000	4,000	2,300	3,000	9,000	-	-	-	9,000
WL 55	WLB 55	WLT 55	5,000	6,000	4,000	5,000	12,000	5,000	6,000	12,000	12,000
WL 6	WLB 6	WLT 6	6,000	7,000	4,000	6,000	14,000	6,000	7,000	14,000	14,000
WL 7	WLB 7	WLT 7	9,000	10,000	6,500	9,000	25,000	9,000	10,000	25,000	25,000

*Specify Damping Grade: e.g. WL 2-B or WL 2-LE

** See seperate catalogue on Wedge Levelling Elements

Fig. 5.01

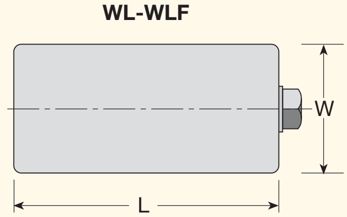


Fig. 5.02

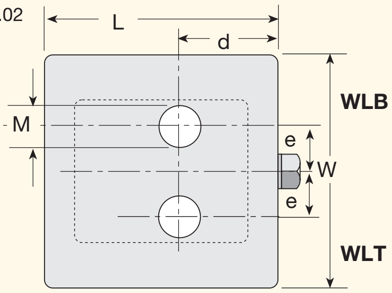
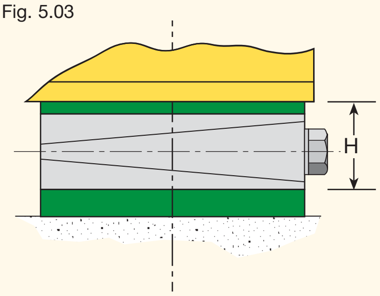


Fig. 5.03

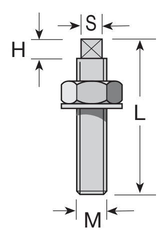


Model - Damping Grade to be specified: e.g. WL 2-B or WL 2-LE			Maximum Load / Mount / Damping Grade (kg)								
Freestanding	Bolt on	Bolt through	A	B	C	D	E	F	G	H	LE
WLF 1	WLB 1	WLT 1	1,000	1,300	800	1,000	3,000	900	1,200	3,000	3,000
WL 2			900	1,200	700	900	3,000	-	-	-	3,000
WLF 2	WLB 2	WLT 2	1,300	1,600	1,000	1,300	4,000	1,300	1,600	4,000	4,000
WL 3			1,900	2,200	1,500	1,900	6,000	-	-	-	6,000
WLF 3	WLB 3	WLT 3	2,300	3,000	1,800	2,300	7,000	2,300	3,000	7,000	7,000
WL 4	WLB 4	WLT 4	4,000	5,000	3,200	4,000	12,000	4,000	5,000	12,000	12,000
WL 5			3,000	4,000	2,300	3,000	9,000	-	-	-	9,000
WL 55	WLB 55	WLT 55	5,000	6,000	4,000	5,000	12,000	5,000	6,000	12,000	12,000
WL 6	WLB 6	WLT 6	6,000	7,000	4,000	6,000	14,000	6,000	7,000	14,000	14,000
WL 7	WLB 7	WLT 7	9,000	10,000	6,500	9,000	25,000	9,000	10,000	25,000	25,000

Wedgemounts: Free Standing (WL & WLF), Bolt-On (WLB), Bolt-Through (WLT) and Precision Wedge Levelling Elements (WL-LE)																					AWR Washer included with WLT	Unit Mass (kg)
Model (Damping Grade to be specified: e.g. WL 2-B or WL 2-LE)			All Dimensions in mm																			
			Length	Width	Mid Position Heights - H										Height	Bolt On / Bolt Through holes						
Free standing	Bolt on	Bolt through	L (mm)	W (mm)	Without Pads	A	B	C	D	E	F	G	H	LE	Adj. +/- (mm)	d	e	WLB Thread	WLT Hole dia			
WLF 1	WLB 1	WLT 1	115	80	40	60	47	67	60	44	55	45	42	40	5	45	17	M12	14	AWR12	2.60	
WLF AL (Aluminium)			115	80	40	-	-	-	-	-	-	-	-	40	5	-	-	-	-	-	0.95	
WL 2	-	-	150	75	40	60	47	67	60	44	55	45	42	40	5	-	-	-	-	-	3.20	
WLF 2	WLB 2	WLT 2	115	115	46	66	53	73	66	50	61	51	48	46	6	50	24	M16	18	AWR16	3.50	
WL 3	-	-	200	95	46	66	53	73	66	50	61	51	48	46	6	-	-	-	-	-	5.25	
WLF 3	WLB 3	WLT 3	150	150	46	66	53	73	66	50	61	51	48	46	6	60	24	M20	22	AWR20	6.90	
WL 4	WLB 4	WLT 4	200	200	46	66	53	73	66	50	61	51	48	-	6	75	27	M20	22	AWR20	11.80	
WL 5	-	-	250	115	70	90	77	97	90	74	85	75	72	70	9	-	-	-	-	-	13.50	
WL 55	WLB 55	WLT 55	200	200	72	92	79	99	92	76	87	77	74	72	10	97	27	M20	22	AWR20	14.35	
WL 6	WLB 6	WLT 6	200	250	72	92	79	99	92	76	87	77	74	72	10	95	27	M20	22	AWR20	18.00	
WL 7	WLB 7	WLT 7	250	330	70	90	77	97	90	74	85	75	72	70	9	125	117	M24	25	AWR24	33.10	

WLB Bolt on Screw Assemblies (SN)					
Material: Zinc Plated Mild Steel, All Dimensions mm					
Thread	M	M12x1.75	M16x2	M20x2.5	M24x3
	S	8	11	13	18
	H	10	10	10	10
	L	100	100	100	100
		150	150	150	-
Order Example: **SN M16x2x100**					
Alternative screw lengths are available on request					

Fig. 5.04



Order Examples	
WL 1-B	Freestanding Wedgemount with Damping Grade 'B'
WLB 1-F+ 1-SN M12x1.75x100	Bolt-on Wedgemount with Damping Grade 'F' with one (1) Bolt on screw per mount
WLB 2-G+ 2-SN M16x2x150	Bolt-on Wedgemount with Damping Grade 'G' with two (2) Bolt on screws per mount
WLB 3-H	Bolt-on Wedgemount with Damping Grade 'H' with no Bolt on screws
WLT 7	Bolt through Wedgemount with no screws (screws to be supplied by customer)

For any assistance or further information on Wedgemounts, Levelling Elements or general machine mounting methods we invite you to contact us. Tel: +44 (0) 161 924 1600 Email: sales@farrat.com Web: www.farrat.com

Farrat

MAM-Wedgemounts-11a

Wedgemount Spacer Plates (SPWL)

Wedgemount Spacer Plates are used where floor levels change more than the Wedgemount adjustment will accomodate. They are made up of a 5mm thick steel plate and a 2mm thick Squaregrip (SG) pad to provide a full seating over minor surface irregularities in the floor.

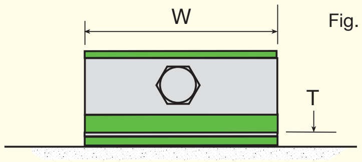


Fig. 6.01

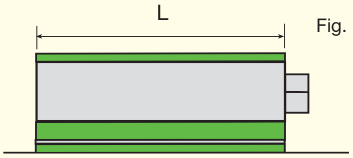


Fig. 6.02

Wedgemount Spacer Plates - SPWL

Freestanding mounts	Bolt on mounts	Appropriate Spacer plate	Bolt through mounts	Appropriate Spacer plate	Spacer Plate Dimensions Length L (mm)	Width W (mm)	Thickness T (mm)
WLF 1	WLB 1	**SPWLF107**	WLT 1	**SPWLT107**	115	80	7
WL 2	-	**SPWL207**	-	**-**	150	75	7
WLF 2	WLB 2	**SPWLF207**	WLT 2	**-**	115	115	7
WL 3	-	**SPWL307**	-	**-**	200	95	7
WLF 3	WLB 3	**SPWLF307**	WLT 3	**SPWLT307**	150	150	7
WL 4	WLB 4	**SPWL407**	WLT 4	**SPWLT407**	200	200	7
WL 5	-	**SPWL507**	-	**-**	250	115	7
WL 55	WLB 55	**SPWL5507**	WLT 55	**SPWLT5507**	200	200	7
WL 6	WLB 6	**SPWL607**	WLT 6	**SPWLT607**	200	250	7
WL 7	WLB 7	**SPWL707**	WLT 7	**SPWLT707**	250	330	7

Screw Extenders (SX-WL)

Screw Extenders are used where Wedgemounts need to be placed inwards of the outer edge where access to the adjustment bolt is restricted. They are made to order according to customer requirements depending on the length and the Wedgemount type.

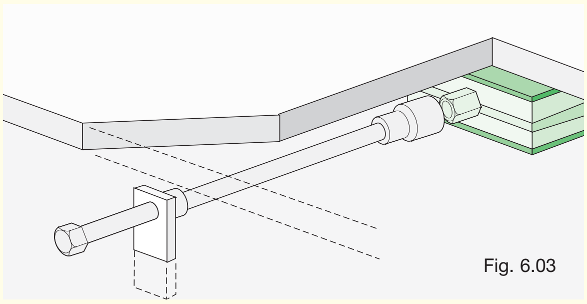


Fig. 6.03

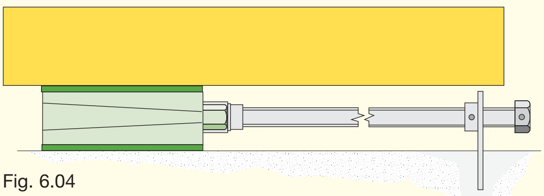


Fig. 6.04

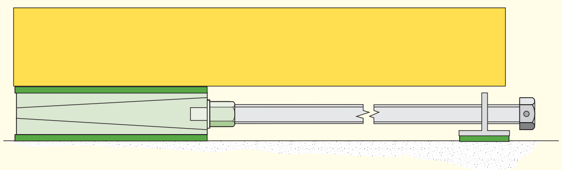


Fig. 6.05

Fig. 6.06

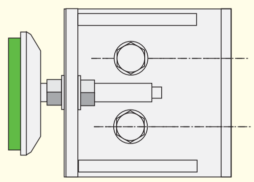


Fig. 6.07

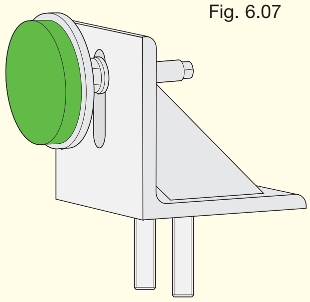


Fig. 6.08

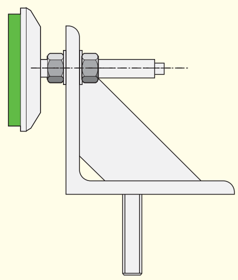
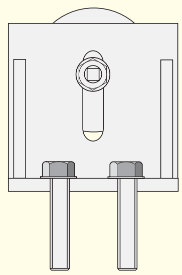


Fig. 6.09



Farrat Endstop (ESP)

Endstops can be used to provide extra support and prevent excessive movement to equipment where there is a danger of extreme, short term loads induced either from the equipment itself or from external forces.

Accessories

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