

AirLoc
stops vibrations

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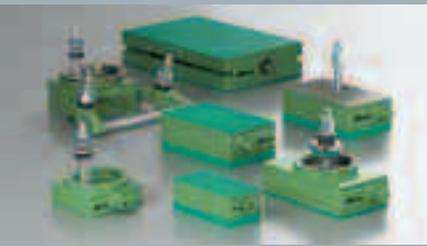
acorn@acornindprod.com

THE COMPANY



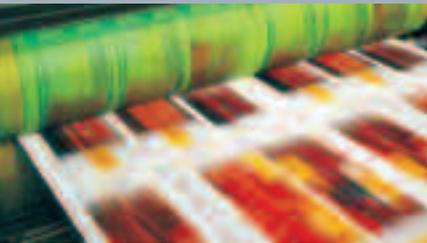
AirLoc – for innovations in leveling and vibration engineering

For more than 50 years the name AirLoc has stood for high-quality products in the areas of vibration engineering, impact sound insulation and machine setup technology. When it comes to foundation isolation for newspaper rotary printing presses and machine foundations, we are one of the world's leading suppliers of complete solutions. The quality of our products is ensured by our modern machinery, production depth and our own test laboratory. A world-wide sales network guarantees the availability of our products and services everywhere, anytime.



AirLoc – custom solutions for your ideas

We produce and market efficient and safe products at a fair price-performance ratio. A broad range of products available from stock is the basis for an economical product selection, high delivery reliability and an excellent reputation with our customers.



AirLoc – for complete one-stop service

We are a system supplier that offers our customers all-around service. From the planning phase of a project to the installation, we are your one-stop supplier. Our customers profit from our many years of experience because we offer efficient and complete solutions that increase our customers' competitiveness.

PRODUCTS AND SERVICES

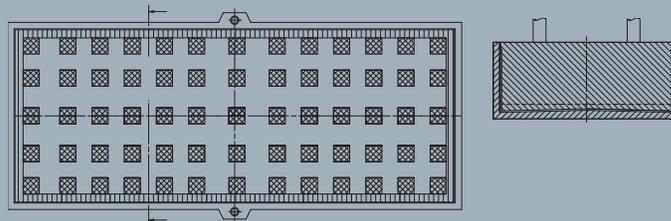


Measurements

With our modern measurement devices we offer our customers vibration measurements using FFT analyzers. We are able to determine the natural frequencies of buildings and disturbing frequencies of machines of all kinds. The measurement results serve as the basis for a problem analysis from which recommendations for improvement can be derived. Our Dynamometer measurement system permits us to measure static loads in order to determine the exact load distribution of a machine.

Foundation vibration isolation

One of our key know-how areas is designing custom vibration isolations for any kind of machine foundation. We have designed several hundred foundation isolation systems, even for large-scale foundation blocks of several thousand tons. The vibration isolation systems that we designed were manufactured in-house and properly installed at customer premises under our supervision.



Vibrations generated by machines and equipment are disturbing. The need to reduce vibration transmissions places increasing demands on machine engineers and operators. Targeted vibration prevention is therefore a must.

VIBRATION ENGINEERING

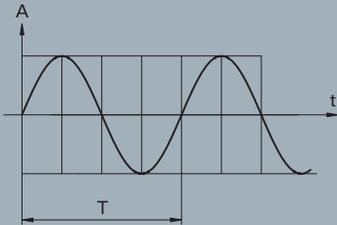


Figure 1: Harmonic vibration

Figure 1 shows a sinusoidal, undamped vibration. The most important terms in vibration engineering are frequency f , amplitude A and damping factor D . Natural frequency as well as resonance are also important figures when considering isolation systems.

Frequency f is a measure of the number of complete vibration cycles per second. $f = \frac{1}{T}$ [$\frac{1}{s} = \text{Hz}$]

Structure-borne noise are vibrations that are conveyed in a solid body. Low frequencies are generally what we call mechanical vibrations.

The **amplitude** is the vibration wave range around its equilibrium. It determines the severity of vibration and is usually expressed in terms of acceleration or displacement.

Damping D designates the measure of amplitude reduction of the vibration of a freely oscillating spring-mass system through friction. Damping refers to the conversion of energy to heat.

Natural frequency f_0 of a body is the frequency with which the body freely oscillates around its equilibrium without external influence. Each body has its own natural frequency, which however can only be calculated in the simplest of cases. Usually it can be easily measured using impact or impulse triggering. If this natural frequency is close to a vibration forcing frequency f_E , **resonance** is the result. In this case the amplitude increases, which could lead to the destruction of the system.

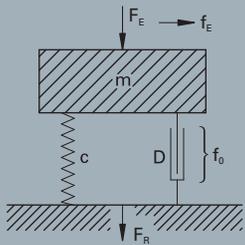


Figure 2: Vibration isolation of a dynamic system

VIBRATION ISOLATION

The vibration isolation of a dynamic system consists of isolating from the environment by means of an elastic body which has a considerably lower natural frequency f_0 from the system forcing frequency f_E .

Figure 2 schematically shows such a system with isolation. Of practical interest is the transmitted force F_R output and ratio of this force to the original input force. This ratio, called force transmission factor V_K , is shown in **Figure 3** as a function of the frequency ratio.

$$\eta = \frac{f_E}{f_0}$$

For $\eta = \sqrt{2}$ the V_K becomes 1 again and above $\eta = \sqrt{2}$ the result is isolation. The greater the ratio of vibration generator frequency f_E to natural f_0 , the better the degree of isolation $J = 1 - V_K$.

When elastic materials are used, it has been determined that below the resonance range of about $\eta = 0,5$ the vibration acceleration values are reduced and therefore isolation is provided.

The natural frequency as a function of the specific load must be determined for elastomers in laboratory measurements. The measurable reduction in thickness of the plates is designated compressive static deflection.

VIBRATION ISOLATED MACHINE SETUP

The demands for machine setup are nearly always contradictory. The machine should be firmly fixed and stable but well isolated against vibration. It should be quickly and easily assembled (and disassembled) but it should not move. And it should also be able to be leveled and re-leveled with great precision, but not displaced.

This is where the considerable practical experience of AirLoc Schrepfer Ltd. comes into play to find the right custom solution.

- m = mass
- c = spring constant
- D = damping core size

- f_0 = natural frequency of the isolation
- f_E = vibration generator frequency

- F_E = generator force
- F_R = remaining force

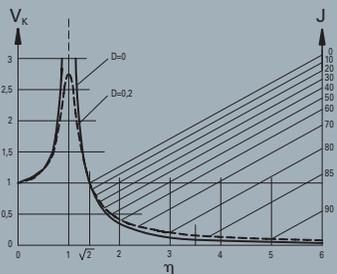


Figure 3: Force transmission factor as a function of the frequency ratio

$$V_K = \frac{F_R}{F_E} = \sqrt{\frac{1+(2D\eta)^2}{(1-\eta^2)^2+(2D\eta)^2}}$$

Selection table

The AirLoc selection table is designed to help you find the right AirLoc Jacmount® Adjustable Levelers or AirLoc Wedgmount® Precision Levelers for your machine.

Is your machine or your specific application not listed?

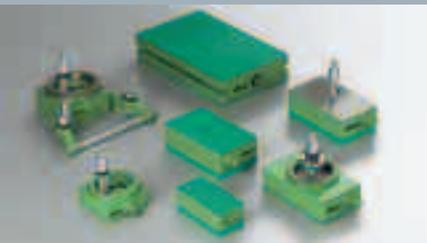
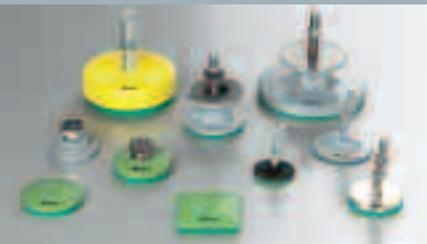
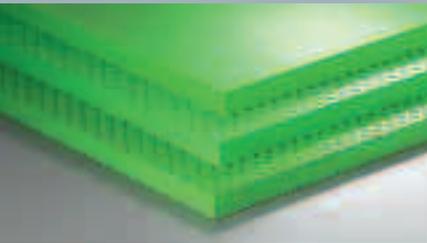
Please contact us by e-mail, telephone or fax. Our experienced team will help you with your selection. You will find the contact details on the last page of this catalogue.

Areas of application

Areas of application	Jacmount® Adjustable Levelers pages 14 – 23			Wedgmount® Precision Levelers pages 24 – 35				Engineering solutions pages 12 – 13		
	GLV, GLR and GLRI GLRN and GLP	Bolted onto the machine			Free standing	Bolted onto the machine	Bolt-through anchored in the floor	Rigid clamp without isolation lining	Pad sets	Foundation isolation
		PRS	PRG PGRI	PRP						
Metal processing										
Machining centers				●	●	●	●		●	
Drilling machines	○			●						
Boring machines						●	●		●	
Lathes	○		●	●						
Lathes, long bed						●	●		●	
Milling machines	○	●	●	●			●		●	
Pumps and compressors		●	●	●						
Presses, mechanical				●	●			●	●	
Presses, hydraulic				●	●			●	●	
Saws	○		●	●						
Shears and folding presses					●	●		●	●	
Grinding machines		●		●			●		●	
Forging machines								●	●	
Stamping and nibbling machine		●		●	●			●		
Transfer lines				●	●	●	●			
Plastic processing										
Granulators		●	●	●						
Mills and calenders					●			●		
Handling devices						●				
Injection moulding machine	●	●	●	●	●					
Printing and paper industry										
Book-binding machines	●		●					●		
Printing presses	○		●	●	●	●	●		●	
Folders			●	●	●			●		
Paper cutters	○		●	●	●			●		
Packaging machinery	●		●	●						
Other machines										
Chemical installations (INOX stainless steel)	●		●	●						
Woodworking machines	○	●	●	●	●					
Air conditioners			●	●		●		●		
Measuring instruments	○	●	●					●	●	
Food industry (INOX stainless steel)	●		●							
Optical devices			●					●	●	
Web machines	○		●	●	●	●		●		

● The leveler is optimally suited for this application.
On the catalogue page of the selected machine element, please look for a suitable element to match your application and machine weight.

○ For light-weight machines only



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Isolation pad

AirLoc is the only manufacturer offering conventional laminated pad materials and the new generation of advanced isolation pads.

Of course all AirLoc pad materials are RoHS certified.

Today's machines generate dynamic forces that were unthinkable a few years ago. AirLoc's new generation of isolation pads are highly developed materials for preventing problems due to vibrations and structure-borne noise. This new generation of pads effectively combats these problems. The technical and physical values are in line with the latest state of elastomer development and today cover application areas that were not possible a few years ago. Improved compression set and coefficient of friction maintain your machine's stability in the specified position for years, even when the dynamic load is high. Excellent resistance to all coolants, cleaning agents and lubricants used in modern machine engineering operations means that these products can be reliably used trouble-free (e.g. in oil troughs).

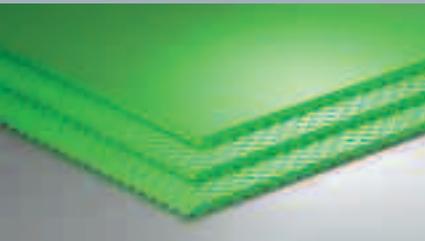
AirLoc pad materials can be easily cut with a ribbon saw, keyhole saw or disk saw to the desired shape. And of course all AirLoc pad materials are RoHS certified.

With our vibration isolation pads, all vibration-caused problems common to today's machine engineering operations can be solved economically and efficiently.



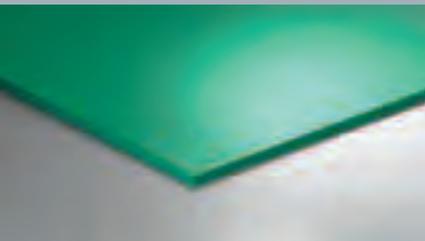
400 Series – the best for outstanding vibration isolation

AirLoc vibration pads of the 400 series have been specially developed for low-frequency applications. Provides very good resistance to many chemicals, lubricants and fuels guarantees long service life. A high coefficient of friction and very narrow production tolerances offer a high level of application security and the best protection for your valuable equipment.



700 Series – universal use for excellent damping

AirLoc vibration pads of the 700 series are the result of 50 years of development and application experience in vibration engineering. Thanks to the high level of damping, the application is secure and extremely effective, even when used in critical operational conditions. Very good resistance to oils, lubricants and fuels makes the 700 series isolation pads ideal for modern, cost-effective production machines and machine tools.



900F Series – dynamic for greatest load-bearing capacity

AirLoc vibration isolation pads of the 900F series were developed for all applications with high static and dynamic forces and for the greatest leveling stability. The very high load-bearing capacity and very good resistance to many chemicals, lubricants and fuels guarantee long service life. This makes the 900F series isolation pads the ideal material for modern, cost-effective production machines and machine tools.

400 Series – the best for outstanding vibration isolation

AirLoc vibration isolation pads of the 400 series have been specially developed for low-frequency applications. Provides very good resistance to many chemicals, lubricants and fuels guarantees long service life. A high coefficient of friction and very narrow production tolerances offer a high level of application security and the best protection for your valuable equipment.

Order no. =
article no. + index



Area of application

Type

Article no.

Pad
thickness

Load

Natural frequency,
medium load (Hz)

mm

psi

vertical

horizontal

Sensitive devices that are affected by vibrations. Low structure height.

410
without profile

2.00100.____

10

36 – 145

50

6.5



Highly effective isolation for sensitive devices that are affected by vibrations.

425
without profile

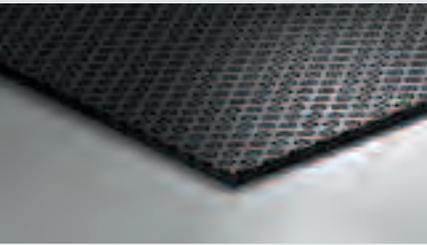
2.00425.____

25

36 – 109

22

4.5



Production machines on multi storied buildings, measuring machines.

B1 profile
both sides

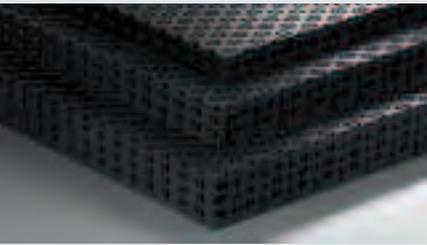
2.00132.____

13

14.5 – 72.5

21

6



Passive isolation for sensitive devices, e.g. laboratory instruments and weighing equipment.

B2 profile
both sides

2.04202.____

26

14.5 – 72.5

14

5

Foundation isolations, passive isolation for very sensitive devices and systems.

B3 profile
both sides

2.04203.____

39

14.5 – 72.5

10

4

B4 profile
both sides

2.04204.____

52

14.5 – 72.5

9

3.5

Temperature range –20 °C to +80 °C
Coefficient of friction 0.9
Shore hardness 40 – 45° Shore A

Standard pad sizes
400 series

Index

L
mm

W
mm

Other dimensions in all shapes
available from stock upon request.

____.70
____.71
____.72
____.76
____.80
____.85
____.86

1000
500
500
250
250
200
125
100

Only types 410 and 425

Multi-layered pads, see page 12, pad sets. For more information please visit our website.

700 Series – universal use for excellent damping

AirLoc vibration pads of the 700 series are the result of 50 years of development and application experience in vibration engineering. Thanks to the high level of damping, the application is secure and extremely effective, even when used in critical operational conditions. Very good resistance to oils, lubricants and fuels makes the 700 series isolation pads ideal for modern, cost-effective production machines and machine tools.

Order no. =
article no. + index

Area of application

Type

Article no.

Pad thickness

Load

Natural frequency, medium load (Hz)

mm

psi

vertical

horizontal

Economical isolation pad with high damping. Low structure height. Suitable for production systems, general machine engineering.

710
without profile

3.07100.__

10

72.5 – 290

92

19

711
profile one side

3.07101.__

10

72.5 – 290

77

18

712
profile both sides

3.07102.__

10

72.5 – 290

71

17

Universally usable isolation pad with high damping effect. Many years of proven performance in all printing presses, paper and textile machines.

715
without profile

3.07150.__

15

72.5 – 290

81

13

716
profile one side

3.07151.__

15

72.5 – 290

67

16

717
profile both sides

3.07152.__

15

72.5 – 290

58

15

Highly effective isolation pad especially developed for machines with high dynamic force, such as presses, sheering machines and stamping machines.

725
without profile

3.07250.__

25

72.5 – 290

44

10

726
profile one side

3.07251.__

25

72.5 – 290

33

8

727
profile both sides

3.07252.__

25

72.5 – 290

33

8

Temperature range -15 °C to +100 °C
Coefficient of friction 0.8
Shore hardness 70 – 75° Shore A

Standard pad sizes 700 series

Index

L mm

W mm

Other dimensions in all shapes
available from stock upon request.

____.70

1000

500

____.71

500

500

____.72

500

250

____.76

250

250

____.80

200

200

____.85

125

125

____.86

100

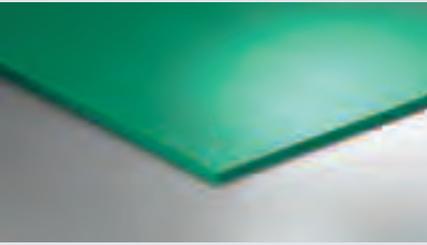
100

Multi-layered pads, see page 12, pad sets. For more information please visit our website.

900F Series – dynamic for greatest load-bearing capacity

AirLoc vibration isolation pads in the 900F series have been developed for all applications with high static and dynamic forces and for the greatest leveling stability. The very high load-bearing capacity and very good resistance to many chemicals, lubricants and fuels guarantee long service life. This makes the 900F series isolation pads the ideal material for modern, cost-effective production machines and machine tools.

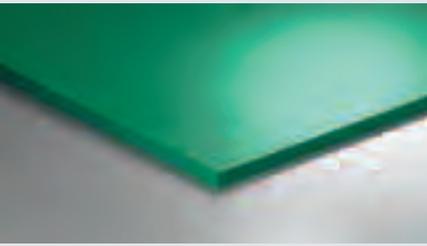
Order no. =
article no. + index



Area of application

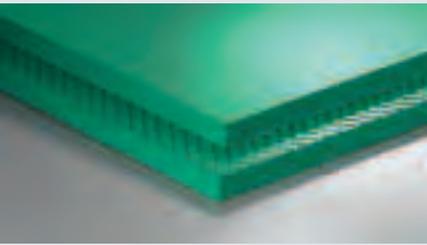
Economical isolation pad for high static loads. Low structure height. For machining centers, machine tools with the highest level of constancy.

Type	Article no.	Pad thickness mm	Load psi	Natural frequency, medium load (Hz)	
				vertical	horizontal
910F without profile	3.09100.__	10	109 – 580	70	21



High load capacity isolation pads, especially for transfer lines and long-bed machines.

915F without profile	3.09150.__	15	109 – 580	62	18
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Isolation pad for machines with high dynamic force, such as presses, sheering machines and stamping machines.

925F without profile	3.09250.__	25	109 – 580	42	14
927F profile both sides	3.09252.__	25	109 – 435	39	12

Temperature range –20 °C to +80 °C
Coefficient of friction 0.8
Shore hardness 90 – 95° Shore A

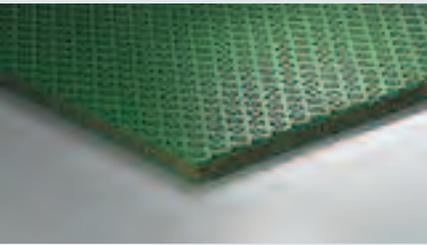
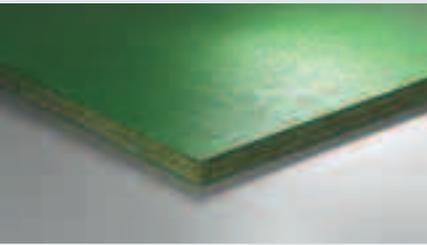
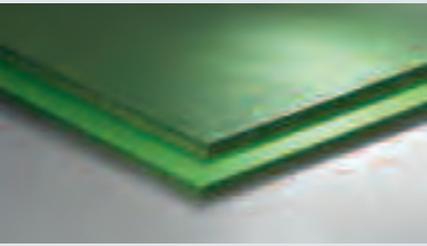
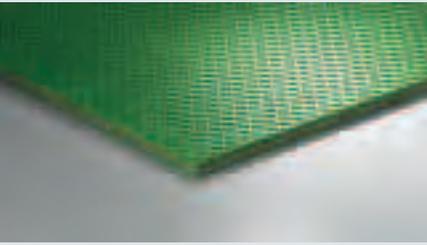
Standard pad sizes 900F series	Index	L mm	W mm
Other dimensions in all shapes available from stock upon request.	...70F	1000	500
	...71F	500	500
	...72F	500	250
	...76F	250	250
	...80F	200	200
	...85F	125	125
	...86F	100	100

Multi-layered pads, see page 12, pad sets. For more information please visit our website.

Composite pads series – tried and proven

AirLoc vibration isolation pads in composite quality for all applications have been tried and proven for over 50 years. Many years of experience and thousands of successful applications make these pads the ideal material for any kind of machine setup.

Order no. =
article no. + index



Area of application	Type	Article no.	Pad thickness		Load		Natural frequency, medium load (Hz)	
			mm	psi	vertical	horizontal		
Universally applied. Well suited for machine tools and printing presses.	4.17.4 profile both sides	1.00402.____	15.5	43.5 – 116	53	13		
Isolation pads with very high level stability, especially for transfer lines and machining centers.	610 without profile	1.00610.____	14	140 – 435	59	12		
High load capacity isolation pads for heavy-duty transfer lines and long-bed machines.	4.17.6 without profile	1.00600.____	14.5	140 – 435	61	16		
High load capacity isolation pads for machines with high dynamic force.	4.17.50 without profile	1.00500.____	25.5	87 – 290	45	9		
Soft isolation pads for highly effective vibration isolation of presses and stamping machines, also on multi storied buildings.	32 profile both sides	1.00302.____	22	14.5 – 43.5	31	11		

Temperature range 0 °C to +70 °C
Coefficient of friction 0.6 – 0.8

Standard composite pad sizes	Index	L mm	W mm
Other dimensions in all shapes available from stock upon request.	____.70	1000	500
	____.71	500	500
	____.72	500	250
	____.76	250	250
	____.80	200	200
	____.85	125	125
	____.86	100	100

Multi-layered pads, see page 12, pad sets. For more information please visit our website.

Non-skid and shim pads

AirLoc non-skid and shim pads are used as intermediate shims between two steel surfaces or to compensate different heights when a machine is set up. The use of top, proven materials mean applications you can count on for a long machine life.

Order no. =
article no. + index



Area of application

Type

Article no.

Pad thickness

Load

Natural frequency, medium load (Hz)

mm

psi

vertical

horizontal

Excellent non-skid properties.

405
without profile

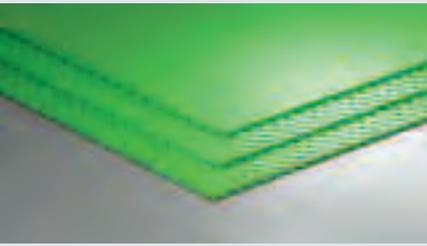
2.00050.__

5

36 – 145

–

–



Universally applied, long-term stability.

705
without profile

3.07050.__

5

72.5 – 290

–

–

706
profile one side

3.07051.__

5

72.5 – 290

–

–

707
profile
both sides

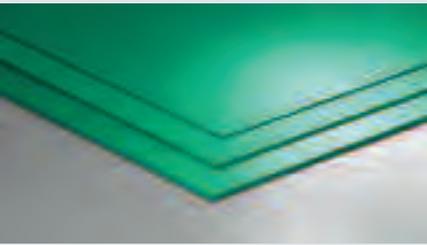
3.07052.__

5

72.5 – 290

–

–



High load capacity, good leveling stability, high long-term stability.

902F
without profile

3.09020.__F

2

109 – 580

–

–

903F
without profile

3.09030.__F

3

109 – 580

–

–

905F
without profile

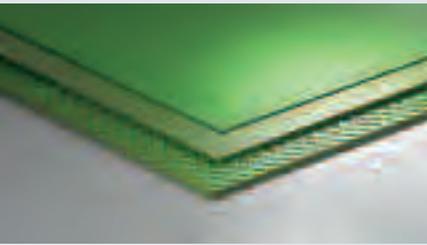
3.09050.__F

5

109 – 580

–

–



Proven quality with excellent form stability.

SP0
without profile

1.00000.__

2.5

145 – 435

–

–

S0
without profile

1.00200.__

5.5

145 – 435

–

–

SL
profile
both sides

1.00222.__

7

58 – 174

–

–

Temperature range:
400 and 900F –20 °C to +80 °C
700 –15 °C to +100 °C
SP0, S0 and SL 0 °C to +70 °C

Coefficient of friction 0.6 – 0.9

Standard pad sizes for non-skid and height compensation pads

Index

L mm

W mm

Other dimensions in all shapes available from stock upon request.

____.70

1000

500

____.71

500

500

____.72

500

250

____.76

250

250

____.80

200

200

____.85

125

125

____.86

100

100

Multi-layered pads, see page 12, pad sets. For more information please visit our website.

Pad sets

If the properties of the individual isolation pads are insufficient for optimal vibration isolation, isolation pads can be layered for additional adjustment. By layering 2 to 4 isolation pads to a set, the vertical natural frequency is reduced and effective vibration isolation is achieved.

Order no. =
article no. + index



Area of application

Soft quality for low-frequency isolation jobs, passive isolation of building vibrations, tiered machine setup, laboratory instruments, microscopes, EDP systems, analysis scales, foundation isolation.

Type

B2 profile
both sides

B3 profile
both sides

B4 profile
both sides

Article no.

2.04202.__

2.04203.__

2.04204.__

Pad thickness

mm

26

39

52

Load

psi

14.5 – 72.5

14.5 – 72.5

14.5 – 72.5

Natural frequency, medium load (Hz)

vertical

horizontal

14

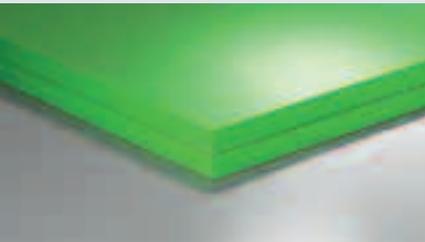
10

9

–

–

–



This 70° shore A material is characterised by very high damping and is therefore especially suitable for isolating setups of presses and similar machines. No profile, good non-skid properties.

K813
without profile

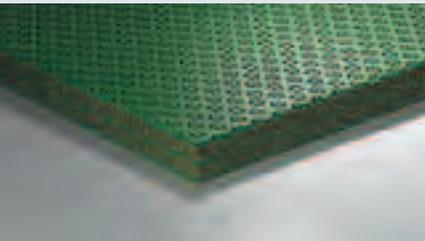
3.04813.__

50

72.5 – 290

31

–



Well suited as soft foundation isolation material. It is primarily used under foundations of presses and large machine tools of all kinds.

K975
profile
both sides

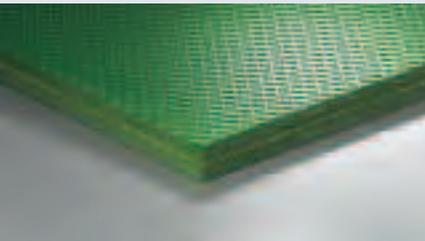
1.04975.__

44

14.5 – 43.5

20

–



Well suited as standard quality for foundation isolations. It is primarily used under large foundations of newspaper printing presses and other heavy machines with big dimensions.

K905
profile
both sides

1.04905.__

36.5

43.5 – 116

27

–

Temperature range 0 °C to +70 °C
Coefficient of friction 0.6 – 0.8

Standard pad sizes for pad sets

Index

L
mm

W
mm

Other dimensions in all shapes available from stock upon request.

____.70
____.71
____.72
____.76
____.80
____.85
____.86

1000
500
500
250
250
200
125
100

Only types K813, K975, K905

For more information please visit our website.

Foundations are for making a machine rigid or for gathering several machine components onto a common load-bearing ground. The additional weight of the foundation has a positive effect on the vibration behaviour. However, there are limits to this positive effect. Only by using vibration isolation and the resulting decoupling from the building ground can the area be reliably protected against disturbing vibrations.

AirLoc has many years of experience in designing foundation isolations. From the first vibration analysis to the site inspection of the laid foundation, we are your one-stop supplier.



Figure 1:
Foundation tank before installing the vibration isolation pads



Figure 2:
After installing the isolation (green)



Figure 3:
Block preparation for pouring the foundation



Figure 4:
Web rotary press

The basic principle of foundation isolation

The machine foundation is placed in a concrete tank for vibration isolation. Between foundation block and tank there is a layer of vibration isolation material. The calculation of this isolation layer requires considerable know-how and many years of experience in the vibration engineering.

Key parameters are:

- Total weight of foundation and machine
- Dynamic forces and moments of the machine
- Natural frequencies of the system
- Vibration isolation efficiency.

AirLoc isolation system for foundation isolation

The AirLoc foundation isolation has the following characteristic properties:

- Complete isolation of the machine block in vertical and horizontal directions
- Tuning the isolation frequency through project-specific design (number and distribution of the isolation pads) based on the effective load bearing mass, i.e. the customer-specific conditions.

In contrast to full surface isolations, the AirLoc isolation pads are adapted in terms of variable dimensions and number to the particular project. The AirLoc foundation isolation is calculated based on the effective load and laid according to the specific area. This permits tuning the full area of the installed foundation isolation to the current conditions.

Implementation example

The implementation of a foundation isolation system for a web rotary press documents the large-scale dimensions that are involved. Figure 1 shows the foundation tank before laying the isolation pads. In Figure 2 they are already laid. The actual vibration isolation elements are the green pads. Between them are the systems we have developed. This protects the covered vibration isolation material from the reinforcement and foundation concrete (Figure 3). After completion of the machine installation, the foundation can hardly be seen (Figure 4).



Jacmount® Adjustable Levelers

AirLoc Jacmount® Adjustable Levelers are characterised by their simple and effective construction. Continuous inspection of the raw materials by our in-house laboratory and our own production facilities ensure the highest possible quality without sacrificing cost-efficiency.

A broad range of products makes it easy to select the elements to suit your needs and helps you keep costs down without having to compromise quality.

Of course all AirLoc Jacmount® Adjustable Levelers are RoHS certified.



PRG elements are designed to make it easy, economical and reliable to set up your machine or system. The patented connection between the levelers and the leveling screws is permanent, has a high load capacity, and can automatically compensate ground unevenness of up to 4°. The anchor-free setup and the simple leveling with great leveling range guarantee maximum flexibility of your machinery.

PRS and PRSK levelers are a new development from AirLoc, especially for machines with high dynamic horizontal force. The robustly designed base plate is permanently connected to a pressure plate by means of precision guide. This design principle enables the greatest possible horizontal rigidity over the entire leveling range.

PRP levelers are excellently suited to quick and precise machine setups of up to 10 tons per foot. There is an easy and reliable connection between floor surface and your machine. The special construction of the pressure plate makes it possible to compensate ground unevenness of up to 4° while ensuring outstanding horizontal stability.

GLV and GLR levelers are proven-performance economical products from AirLoc. They are deployed when dependable vibration and impact sound isolation is required for machines that have suitable leveling screws in the machine foot. The mounting sink for the leveling screw is shaped so that skewing is not possible and ground unevenness is balanced.

GLRN levelers with interchangeable leveling sockets can be economically and flexibly deployed. The levelers can be raised up to +13 mm in height. Depending on the leveler socket in use, the connection to your machine can be bolted, anchored or custom designed as you require.

Stainless steel PRGI levelers are permanently attached to the leveling screw by means of a patented lock and yet are flexible enough that ground unevenness up to 4° can be leveled. When used with no-profile damping pads, they are ideally suited for the food and chemical industries.

PR levelers are made of reinforced thermoplastic. They are excellently suited to light machinery and applications requiring a high level of cost-efficiency. The studs of the PR levelers are quickly mounted and permanently anchored in the leveler, yet so flexible that ground unevenness up to 4° can be balanced.

If you have not found the optimal leveling elements despite the large selection range, please ask about our custom designs. We would gladly provide you with custom-made products based on your requirements. Phone us or send us your ideas as a sketch or drawing.

Your color is important to you! To us too!

This is why we can deliver in any color. Ask us – we'll make it possible.

PRG Jacmount® Adjustable Levelers

PRG Jacmount® Adjustable Levelers are designed to make it easy, economical and reliable to set up your machine or system. The patented connection between leveler and leveling screw is permanent, has a high load capacity, and can automatically compensate ground unevenness of up to 4°. The anchor-free setup and the simple leveling with great leveling range guarantee maximum flexibility of your machinery.

Ask us also about our custom solutions for your specific machine.

Order no. =
article no. + index

Color:
Silver grey RAL 7001

Other colors
upon request

The Best
Extremely stable.
Best suited for light
machines and sys-
tems for which there
is permanently de-
fined ground contact.

The Universal
Application secure
thanks to high level of
damping. Very good
stability due to high
ground adhesion.

The Load Bearer
For applications with
high static load. Excel-
lent leveling stability
and high overall stabil-
ity. Very economical.

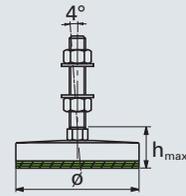
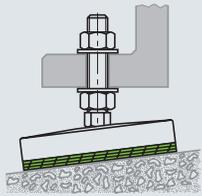
Pad type
Index

405
_.43

705
_.58

905
_.73

Dimension

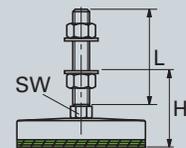


Type	Article no.	Max. load lbs	h max. mm	Max. load lbs	h max. mm	Max. load lbs	h max. mm	Ø mm	Leveling screw
PRG 85	1.16085.____	1000	38	2000	38	3000	38	85	G1
PRG 125	1.16125.____	2250	51	4500	51	6600	51	125	G2
PRG 170	1.16170.____	4500	51	9000	51	10000	51	170	G2
PRG 230	1.16230.____	8500	51	13500	51	13500	51	230	G2

Special studs G1 and G2 for PRG Jacmount® Adjustable Levelers

Blue zinc-plated. Delivery including 1 self-locking collar + 1 nut + 1 washer for M10, M12, M16 or 2 nuts + 2 washers for M20, M24

Metric thread	Order no. G1	Order no. G2	L mm	H mm	SW mm
M10	9.55102		100	40	13
M12	9.55122		100	41	13
M16	9.551621		100	49	17
M16		9.551622	100	52	19
M20		9.55202	100	63	22
M24		9.55242	100	74	24



Didn't find the right thread? Ask about our low-priced custom M10 – M30 screws in lengths of 75 to 500 mm.

PRS and PRSK Jacmount® Adjustable Levelers

PRS Jacmount® Adjustable Levelers are a new development from AirLoc, especially for machines with high dynamic horizontal force. The robustly designed base plate is permanently connected to a pressure plate by means of precision guide. This design principle enables the greatest possible horizontal rigidity over the entire leveling range. When using the high damping AirLoc isolation pads, the machine remains stable even when there are great disturbing forces.

PRSK Jacmount® Adjustable Levelers with spherical seat top parts are ideal for compensating ground unevenness of up to 3°.

Ask us also about our custom solutions for your specific machine.

Order no. =
article no. + index

Color:
Silver grey RAL 7001

Other colors
upon request

The Economiser
For secure non-skid machine fixation without vibration isolation. Extremely high degree of horizontal stability.

The Dynamic One
For presses, stamping and injection moulding machines, machines with high dynamic vertical force. Fast and effective movement damping.

The Stabiliser
For injection moulding machines, machines with high dynamic vertical force. Extremely high degree of horizontal stability.

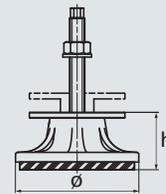
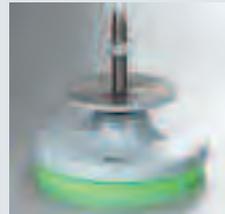
Pad type
Index

705
.....58

725
.....68

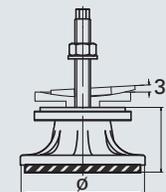
910
.....75

Dimension



Type	Article no.	Max. load lbs	h mm	Max. load lbs	h mm	Max. load lbs	h mm	Metric thread	Ø mm	Adjust. range mm
PRS 130-16	1.17130-16_	4900	55	4900	75	6700	60	M16 x 1.5	130	+20
PRS 130-20	1.17130-20_	4900	55	4900	75	6700	60	M20 x 1.5	130	+20
PRS 240-20	1.17240-20_	13500	75	13500	95	15700	80	M20 x 1.5	240	+30
PRS 240-24	1.17240-24_	13500	75	13500	95	15700	80	M24 x 2.0	240	+30

Other thread sizes upon request



Type	Article no.	Max. load lbs	h mm	Max. load lbs	h mm	Max. load lbs	h mm	Metric thread	Ø mm	Adjust. range mm
PRSK 130-16	1.17131-16_	4900	63	4900	83	6700	68	M16 x 1.5	130	+20
PRSK 130-20	1.17131-20_	4900	63	4900	83	6700	68	M20 x 1.5	130	+20
PRSK 240-20	1.17241-20_	13500	89	13500	109	15700	94	M20 x 1.5	240	+30
PRSK 240-24	1.17241-24_	13500	89	13500	109	15700	94	M24 x 2.0	240	+30

Other thread sizes upon request

You will find the matching leveling screws on page 17.

PRP Jacmount® Adjustable Levelers

PRP levelers are excellently suited for quick and precise machine setups. The selected AirLoc types cover a broad range of machine setups. The special construction of the pressure plate makes it possible to compensate ground unevenness of up to 4° while ensuring outstanding horizontal stability.

Ask us also about our custom solutions for your specific machine.

Order no. = article no. + index

Color: Zinc chrome RAL 1018

Other colors upon request

The Best

For stamping and nibbling machines and compressors. Best isolation effect, high stability and good damping.

The Dynamic One

For presses, stamping and injection moulding machines, machines with high dynamic vertical force. Fast and effective movement damping.

The Stabiliser

For injection moulding machines, machines with high dynamic vertical force, fast running presses.

Pad type Index

425

-.____.48

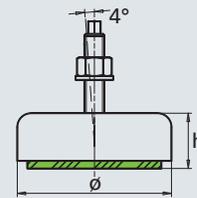
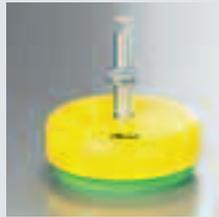
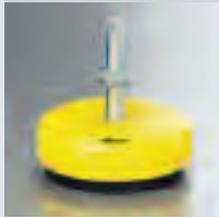
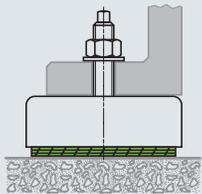
725

-.____.68

925

-.____.64

Dimension



Type	Article no.	Max. load lbs	h mm	Max. load lbs	h mm	Max. load lbs	h mm	Metric thread	Ø mm	Adjust. range mm
PRP 90	1.15091.____	900	50	2200	50	3300	50	M12 x 1.5	101	+20
PRP 120	1.15120.____	1200	50	3300	50	4000	50	M16 x 1.5	123	+25
PRP 160	1.15160.____	2500	52	6600	52	7700	52	M20 x 1.5	168	+25
PRP 200	1.15200.____	4000	54	8800	54	8800	54	M24 x 2.0	205	+25
PRP 250HD	1.15253.____	7000	60	17500	60	17500	60	M27 x 2.0	260	+25
PRP 300HD	1.15302.____	10000	73	22000	73	22000	73	M30 x 2.0	305	+25

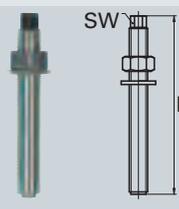
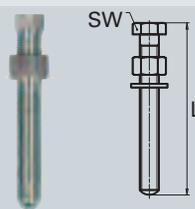
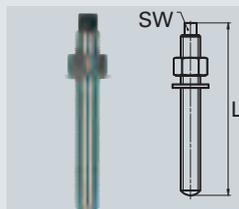
Leveling screws

Blue zinc-plated. Delivery includes 1 nut + 1 washer

PRP bolt-through R1

PRP with large hexagon R2

PRS and PRSK



Metric thread	Order no. L 125 mm	Order no. L 175 mm	SW mm	Order no. L 125 mm	Order no. L 175 mm	SW mm	Order no. L 150 mm	Order no. L 175 mm	SW mm
M12 x 1.5	9.05123		8	9.06123		13			
M16 x 1.5	9.05163	9.05165	10	9.06163	9.06165	17	9.60164		12
M20 x 1.5	9.05203	9.05205	13	9.06203	9.06205	24	9.60204	9.60215	15
M24 x 2.0	9.05243	9.05245	17	9.06243	9.06245	27		9.60245	17
M27 x 2.0	9.05273	9.05275	19	9.06273	9.06275	27			
M30 x 2.0	9.05303	9.05305	22	9.06303	9.06305	36			

Didn't find the right thread? Ask about our low-priced custom M10 – M30 screws in lengths of 75 to 500 mm.

GLV and GLR Jacmount® Adjustable Levelers

The economical, tried and proven AirLoc GLV and GLR Jacmount® Adjustable Levelers are deployed when dependable vibration and impact sound isolation is required for machines that have suitable fastening holes in the machine foot. The mounting sink for the leveling screw is shaped so that ground unevenness is leveled.

Ask us also about our custom solutions for your specific machine.

Order no. =
article no. + index

Color:
Reseda green RAL 6011

Other colors
upon request

The Best

For laboratory instruments, passive placement of sensitive devices and machine placement in tiers. Best vibration isolation despite low installation height.

The Stabiliser

For transport lines and special machines. Excellent constant leveling stability and overall stability. Very low installation height.

The Universal

For tool, plastic and textile machines, graphic and general production machines. Superior isolation and damping properties. Excellent non-skid properties.

The Dynamic One

For machines with high static load. Excellent leveling stability and high overall stability even with great disturbance forces.

Pad type
Index

B1

____.50

711

____.92

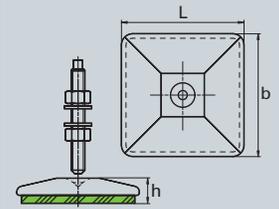
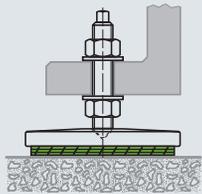
716

____.56

915

____.65

Dimension



Type Article no.

Max. load lbs h mm

L mm b mm

GLV 50 1.10050.____
GLV 75 1.10075.____
GLV 100 1.10100.____
GLV 110 1.10110.____
GLV 115 1.10115.____
GLV 150 1.10150.____
GLV 165 1.10165.____
GLV 175 1.10175.____

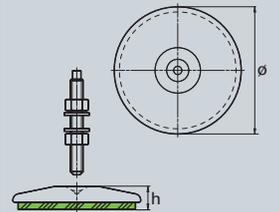
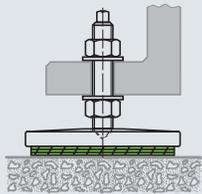
200 20 560 23 1100 25 1400 25 1240 27 2000 28 2250 30 3800 31

450 17 3400 22 4700 24 6100 25 8500 27 9700 28

450 22 3400 27 4700 29 6100 30 8500 32 9700 33

450 22 1700 25 3400 27 3800 27 4700 29 6100 30 8500 32 9700 33

50 50 81 81 108 108 123 123 148 91 145 145 199 123 243 163



Type Article no.

Max. load lbs h mm

Ø mm

GLR 50 1.11050.____
GLR 75 1.11075.____
GLR 110 1.11110.____

160 20 500 22 1070 25

380 17 3800 22

380 22 1700 24 3800 27

380 22 1700 24 3800 27

50 84 123

You will find matching studs on page 19.

GLRN Jacmount® Adjustable Levelers

These interchangeable leveling sockets make AirLoc GLRN levelers can be economically and flexibly deployed. The levelers can be raised up to +13 mm in height. Depending on the leveler socket in use, the connection to your machine can be bolted, anchored or custom designed as you require.

Ask us also about our custom solutions for your specific machine.

Order no. =
article no. + index

Color:
Reseda green RAL 6011

Other colors
upon request

The Best

For laboratory instruments, passive placement of sensitive devices and machine placement in tiers. Best vibration isolation despite low installation height.

The Stabiliser

For transport lines and special machines. Excellent constant leveling stability and overall stability. Very low installation height.

The Universal

For tool, plastic and textile machines, graphic and general production machines. Superior isolation and damping properties. Excellent non-skid properties.

The Dynamic One

For machines with high static load. Excellent leveling stability and high overall stability even with great disturbance forces.

Pad type
Index

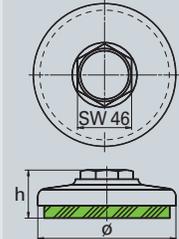
B1
....50

711
....92

716
....56

915
....65

Dimension

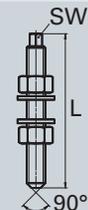


Type	Article no.	Max. load lbs	h mm	Ø mm	Leveling socket						
GLRN 115	1.14115._	800	47	3400	44	3400	49	6700	49	121	ø23
GLRN 155	1.14155._	1700	49	6970	46	6970	51	11200	51	162	
GLRN 235	1.14235._	4300	55	11200	52	11200	57	11200	57	248	
GLRN 116	1.14116._	800	47	3400	44	3400	49	6700	49	121	M20
GLRN 156	1.14156._	1700	49	6970	46	6970	51	11200	51	162	
GLRN 236	1.14236._	4300	55	11200	52	11200	57	11200	57	248	
GLRN 117	1.14117._	800	47	3400	44	3400	49	6700	49	121	
GLRN 157	1.14157._	1700	49	6970	46	6970	51	11200	51	162	
GLRN 237	1.14237._	4300	55	11200	52	11200	57	11200	57	248	

Stud type S for GLV, GLR, and GLRN Jacmount® Adjustable Levelers and for TA/SL heavy duty dowels, page 35.

Blue zinc-plated. Delivery with 2 nuts + 2 washers

Metric thread	Order no.	SW					
	L 100 mm	L 125 mm	L 150 mm	L 200 mm	L 250 mm	L 300 mm	
M10	9.00102		9.00104				7
M12	9.00122	9.00123	9.00124	9.00126			8
M16	9.00162	9.00163	9.00164	9.00166			10
M20	9.00202	9.00203	9.00204	9.00206			13
M24			9.00244	9.00246	9.00247	9.00248	17



Didn't find the right thread? Ask about our low-priced custom M10 – M30 screws in lengths of 75 to 500 mm.

PRGI and GLRI Jacmount® Adjustable Levelers – INOX stainless steel

The stainless steel AirLoc PRGI Jacmount® Adjustable Levelers are permanently attached to the leveling screw by means of a patented lock and yet are flexible enough that ground unevenness up to 4° can be leveled. Ideally suited to the food and chemical industries.

The economical, stainless steel AirLoc GLRI Jacmount® Adjustable Levelers are deployed when dependable vibration and impact sound isolation is required for machines that have suitable fastening holes in the machine foot. The mounting sink is shaped so that ground unevenness is leveled.

Ask us also about our custom solutions for your specific machine.

**Order no. =
article no. + index**

**Stainless steel
INOX 1.4301**

The Best
Passive placement of sensitive devices and machine placement in multi storied buildings. Best vibration isolation despite low installation height.

The Universal
For tool, production, plastic and textile machines. Superior isolation and damping properties. Excellent non-skid properties.

The Stabiliser
For transport lines and special machines. Excellent constant leveling stability and overall stability.

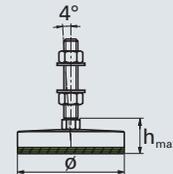
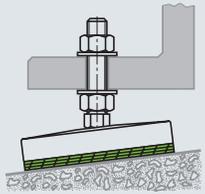
**Pad type
Index**

410
...45

710
...91

910
...75

Dimension



Type Article no.

Max. load lbs h max. mm

Max. load lbs h max. mm

Max. load lbs h max. mm

Ø Leveling screw mm

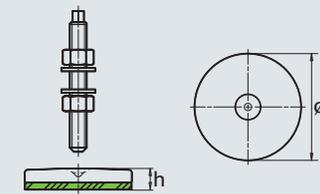
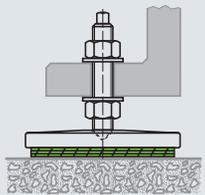
PRGI 50 1.19141._
PRGI 70 1.19142._
PRGI 100 1.19144._
PRGI 120 1.19146._

225 38
675 48
1350 48
2250 48

380 38
1000 48
2100 48
3300 48

900 38
2250 48
4500 48
6700 48

51 G1
76 G2
107 G2
132 G2



Type Article no.

Max. load lbs h mm

Max. load lbs h mm

Max. load lbs h mm

Ø mm

GLRI 50 1.19111._
GLRI 70 1.19112._
GLRI 100 1.19114._
GLRI 120 1.19116._

225 17
675 17
1350 19
2250 21

380 17
1000 17
2100 19
3250 21

900 17
2250 17
4500 19
6750 21

51
76
107
132

On request, the stainless steel PRGI and GLRI type Jacmount® Adjustable Levelers can also be delivered in acid-resistant quality, material no. 1.4435.

We would be pleased to receive your order for the following products: PRGI 410, 710, 910, 50, 70, 100, 120, GLRI 50, 70, 100, 120. Phone: +31 (0) 40 600 523-5474 | E-Mail: acorn@acornindprod.com

For more information please visit our website.

PR Jacmount® Adjustable Levelers – thermoplastic

The PR series of AirLoc Jacmount® Adjustable Levelers are made of reinforced thermoplastic. They are excellently suited to light machinery and applications requiring a high level of cost-efficiency. The studs of the PR levelers are quickly mounted and permanently anchored in the leveler, yet so flexible that ground unevenness up to 4° can be balanced. The damping pads can be individually selected to meet your requirements.

Ask us also about our custom solutions for your specific machine.

**Order no. =
article no. + index**

**Color:
Jet black RAL 9005**

The Best

For light-weight systems and laboratory instruments which require a very high level of effective isolation.

The Universal

For light-weight machines which demand excellent damping properties.

The Stabiliser

For light-weight machines and systems requiring superior leveling stability and very good overall stability.

**Pad type
Index**

B1

.....50

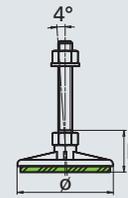
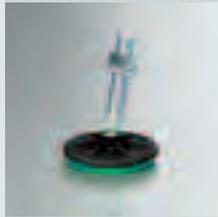
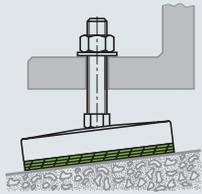
710

.....91

910

.....75

Dimension



Type

Article no.

**Max. load
lbs**

**h
mm**

**Max. load
lbs**

**h
mm**

**Max. load
lbs**

**h
mm**

**Ø
mm**

PR 50 1.13050-9005.____

225

33

225

30

225

30

57

PR 75-2 1.13076-9005.____

500

38

1125

35

1125

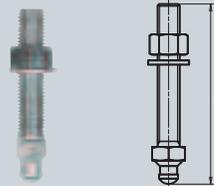
35

82

Special studs type U for PR Jacmount® Adjustable Levelers

Blue zinc-plated. Delivery includes nut + washer

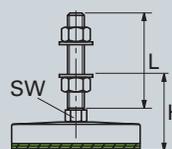
Metric thread	Order no. for PR 50		Order no. for PR 75-2	
	L 100 mm	L 150 mm	L 100 mm	L 150 mm
M10	9.04102	9.04104	9.04102.02	9.04104.02
M12	9.04122	9.04124	9.04122.02	9.04124.02
M16			9.04162	9.04164



INOX stainless steel special studs G1 and G2 for PRGI Jacmount® Adjustable Levelers

INOX 1.4305. Delivery with 2 nuts + 2 washers

Metric thread	Order no. G1	Order no. G2	L mm	H mm	SW mm
M10	9.56102		100	40	13
M12	9.56122		100	41	13
M16	9.561621		100	49	17
M16		9.561622	100	52	19
M20		9.56202	100	63	22
M24		9.56242	100	74	24



INOX stainless steel stud type S for GLRI Jacmount® Adjustable Levelers

INOX 1.4305. Delivery with 2 nuts + 2 washers

Order no. GLRI	L mm
9.09102	100
9.09122	100
9.09162	100
9.09164	150
9.09202	100
9.09244	150



Upon request, also available in acid-resistant quality, material no. 1.4435. We would be pleased to advise you.

Ask about Acorn Industrial Products Co. | 1520 Hertzog Boulevard, King of Prussia, PA 19406 | 800-523-5474 | E-Mail acorn@acornindprod.com

For more information please visit our website.



Custom designed Jacmount® Adjustable Levelers

AirLoc offers its customers the largest selection of Jacmount® Adjustable Levelers that can be delivered on short notice. This gives our customers a technically optimal and economical choice of Jacmount® Adjustable Levelers for different applications. If there are advantages to be gained for our customers in having a custom-tailored solution, our experienced team of engineers can develop a custom Jacmount® Adjustable Leveler that perfectly suits the application or machine. Here you see just a few examples of Jacmount® Adjustable Levelers that have been successfully implemented for specific customer requirements or based on our recommendations.



Area Jacmount® Adjustable Levelers GLP and GLP-S

GLP and GLP-S Jacmount® Adjustable Levelers enable wide area load distribution for floors with low load bearing capacity or when large loads have to be set down softly. This is a very efficient solution which is available using standard components in many variations.



GLP-S element without fastening screws, only with non-skid, can be freely placed under the machine.



This leveling element with large adjustment range can be used for all switch cabinet supports of various heights. Machine installations are made easier since only one uniform leveling element is necessary for the different switch cabinet versions.

Leveling can be performed very quickly and easily. The floor surface is fitted with a non-skid layer.

**GLRN 100 – M42 x 1.5**

This leveling element was developed for a customer who did not need vibration isolation. Top priority was a low-cost, precise installation of his machine. Both development objectives were optimally achieved with this leveling element.

**GLR 130, GLR 135 and GLR 136**

These special round elements have particularly large centring holes specified by the customer. They enable the use of special machine screws (e.g. hollow screws) of the customer and increase flexibility when setting up the machine.

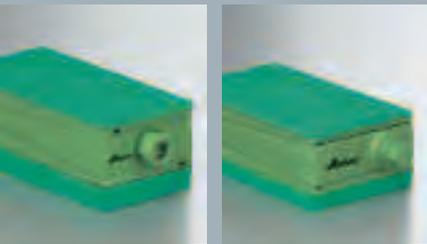


Wedgmount® Precision Levelers

AirLoc offers the world's largest selection of Wedgmount® Precision Levelers. The large, even surface ensures optimal support of the machine bed. Heavy loads of up to 100 t per Wedgmount® Precision Leveler can be quickly aligned to within of $\frac{1}{100}$ mm accuracy using little force. This shortens the setup time of a machine considerably.

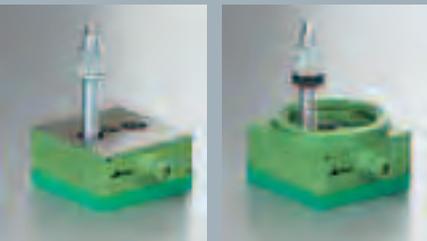
Of course all AirLoc Wedgmount® Precision Levelers are RoHS certified.

We manufacture Wedgmount® Precision Levelers in our main plant. Modern manufacturing methods, such as the complete processing in one clamping operation, mean the maximum precision and tight tolerances. Our Wedgmount® Precision Levelers can therefore be easily leveled even with the heaviest loads. We do not compromise when it comes to the dependability and long service life of our products. This is why all Wedgmount® Precision Levelers designed for heavy loads are manufactured from modular cast iron. Guide bolts and leveling spindles are made of high-strength steels. The patented top and bottom part lock provides optimal locking adhesion. The Wedgmount® Precision Leveler always remains a cohesive unit and never falls apart into single elements even when lifted.



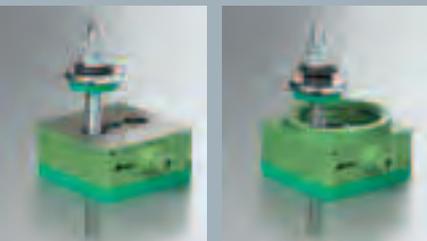
Precision Wedgmount® Precision Leveler – free standing

Ideal for machines without fastening holes and for free placement under the machine bed. Available in different versions, even for especially heavy loads for special bed constructions.



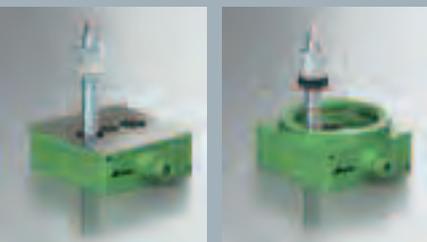
Wedgmount® Precision Levelers – bolt-on

These are used where a permanent connection to the machine bed is necessary, e.g. machines with high dynamic force, such as stamping and injection moulding machines. The milled surface guarantees a precise and long-lasting connection to the machine bed. Also available in a spherical seat version for compensating angle differences of up to 3°.



Wedgmount® Precision Levelers – bolt-through

For machines which, due to low rigidity of the machine bed, have to be anchored to the ground, e.g. long-bed machines, boring machines, milling and machining centers. The milled surfaces guarantee a precise and long-lasting connection to the machine bed. Also available in a spherical seat version for compensating angle differences of up to 3°, e.g. for long-bed machines and uneven floors.

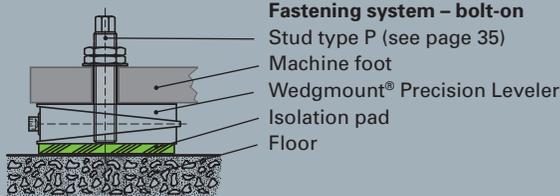


Wedgmount® Precision Levelers – rigid clamp

For machines for which geometry is essential and, due to the low rigidity of the machine bed, have to be anchored in the ground without vibration isolation. The milled surfaces guarantee a precise and long-lasting connection to the machine bed. Also available in a spherical seat version for compensating angle differences of up to 3°.

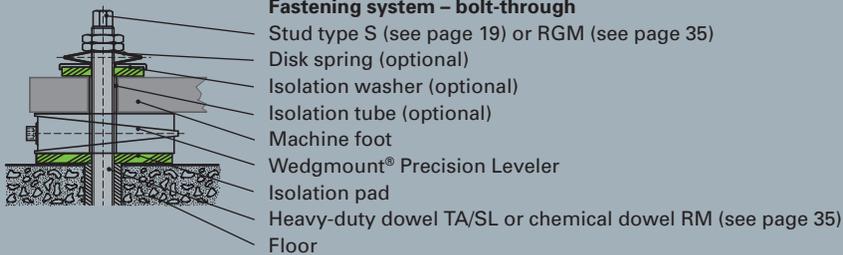
Wedgmount® Precision Levelers

AirLoc offers different fastening systems for its Wedgmount® Precision Levelers. The systems can be delivered for our bolt-on and bolt-through Wedgmount® Precision Levelers with or without spherical seat compensation. The materials and design of the systems are optimally tuned to the Wedgmount® Precision Levelers and the isolation pads. This results in a complete system that fixes your machine securely and dependably to the floor.



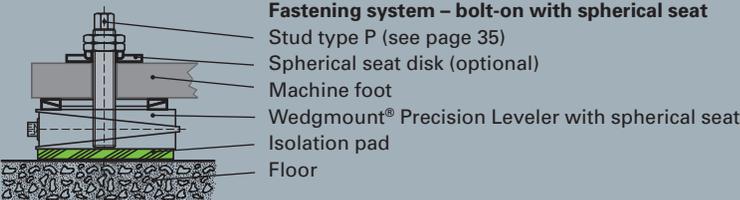
Fastening system – bolt-on

- Stud type P (see page 35)
- Machine foot
- Wedgmount® Precision Leveler
- Isolation pad
- Floor



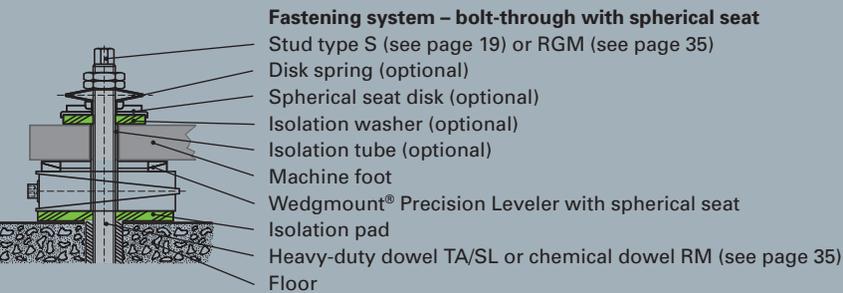
Fastening system – bolt-through

- Stud type S (see page 19) or RGM (see page 35)
- Disk spring (optional)
- Isolation washer (optional)
- Isolation tube (optional)
- Machine foot
- Wedgmount® Precision Leveler
- Isolation pad
- Heavy-duty dowel TA/SL or chemical dowel RM (see page 35)
- Floor



Fastening system – bolt-on with spherical seat

- Stud type P (see page 35)
- Spherical seat disk (optional)
- Machine foot
- Wedgmount® Precision Leveler with spherical seat
- Isolation pad
- Floor



Fastening system – bolt-through with spherical seat

- Stud type S (see page 19) or RGM (see page 35)
- Disk spring (optional)
- Spherical seat disk (optional)
- Isolation washer (optional)
- Isolation tube (optional)
- Machine foot
- Wedgmount® Precision Leveler with spherical seat
- Isolation pad
- Heavy-duty dowel TA/SL or chemical dowel RM (see page 35)
- Floor



VRC Wedgmount® Precision Levelers – free standing

AirLoc precision Wedgmount® Precision Levelers with patented spring tensioning of top and bottom part achieve a unique lateral and longitudinal stability. Fast and easy adjustment to within $\frac{1}{100}$ mm accuracy is possible with full machine load. This is your competitive edge when it comes to the precision and quality of your products.

Ask us also about our custom solutions for your specific machine.

Order no. =
article no. + index

Color:
Reseda green RAL 6011

Other colors
upon request

Pad type
Index

The Best

For passive placement of sensitive devices and machine placement in multi storied buildings. Best vibration isolation.

The Universal

For tool, plastic and textile machines, graphic and general production machines. Superior isolation and damping properties. Excellent non-skid properties.

The Dynamic One

For transport lines, special machines and tool machines. High load capacity, excellent constant leveling stability and overall stability.

The Stabiliser

For lathes, grinding machines, boring machines, transport lines and special machines. Ideal stability and non-skid properties. Without vibration isolation.

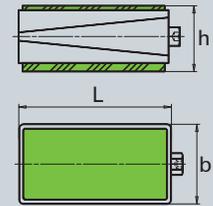
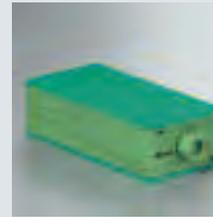
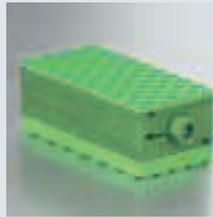
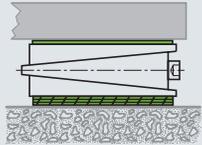
NF Top bottom
_.61 903 B1

NA Top bottom
_.56 706 716

NK Top bottom
_.65 903 915

NS Top bottom
_.73 902 902

Dimension



Type	Article no.	Max. load lbs	h mm	L mm	b mm	+/- h mm						
1-VRC	1.30001. _	560	54	2500	58	4500	56	5500	42	105	55	+2.5 -7
2-VRC	1.30002. _	1240	54	4900	58	9000	56	11000	42	150	75	+5 -5
3-VRC	1.30003. _	2250	62	8300	66	14600	64	16500	50	200	95	+6 -6
3-VRC-72	1.30003-72. _	2250	88	8300	92	14600	90	16500	76	200	95	+6 -6
4-VRC	1.30004. _	4500	62	17500	66	31000	64	31000	50	200	200	+6 -6
4-VRC-72	1.30004-72. _	4500	88	17500	92	31000	90	31000	76	200	200	+6 -6
6-VRC	1.30006. _	3100	86	12400	90	18000	88	18000	74	115	250	+6 -10
7-VRC	1.30007. _	4500	86	18000	90	22000	88	22000	74	175	230	+8 -10
302-VRC	1.30302. _	1400	56	5600	61	10000	59	10000	45	115	115	+4 -5
303-VRC	1.30303. _	2250	61	8500	66	14600	64	14600	50	140	140	+6 -6
304-VRC	1.30304. _	2900	68	12000	73	18000	71	18000	57	170	170	+5 -8
306-VRC	1.30306. _	1400	83	5600	88	9000	86	9000	72	115	115	+8 -10
406-VRC	1.30406. _	3100	70	12400	74	18000	72	18000	58	115	250	+5.5 -6
407-VRC	1.30407. _	5600	81	22500	85	36000	83	36000	69	250	200	+11 -10
410-VRC	1.30410. _	8400	96	34000	100	56000	98	56000	84	300	250	+11 -11
414-VRC	1.30414. _	8400	100	34000	104	66000	102	66000	88	300	250	+9 -9
450-VRC	1.30450. _	13500	100	53000	104	110000	102	110000	88	300	400	+9 -9

For more information please visit our website.



VRC Wedgmount® Precision Leveler – free standing, 4-wedge system

AirLoc Wedgmount® Precision Levelers with 4-wedge system (types 5-VRC to 12-VRC) are constructed for heavy loads. The patented adjustment mechanism permits leveling heavy loads to within $\frac{1}{100}$ mm accuracy and with a minimum of applied force.

AirLoc Wedgmount® Precision Levelers with eccentric leveling screw (types 2006-VRC to 2024-VRC) complete our programme. This is your competitive edge when it comes to the precision and quality of your products.

Ask us also about our custom solutions for your specific machine.

Order no. =
article no. + index

Color:
Reseda green RAL 6011

Other colors
upon request

The Best

For passive placement of sensitive devices and machine placement in multi storied buildings. Best vibration isolation.

The Universal

For tool, plastic and textile machines, graphic and general production machines. Superior isolation and damping properties. Excellent non-skid properties.

The Dynamic One

For transport lines, special machines and tool machines. High load capacity, excellent constant leveling stability and overall stability.

The Stabiliser

For lathes, grinding machines, boring machines, transport lines and special machines. Ideal stability and non-skid properties. Without vibration isolation.

Pad type
Index

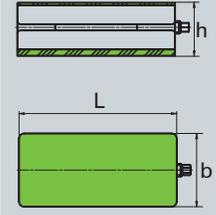
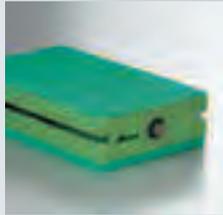
NF Top bottom
_.61 903 B1

NA Top bottom
_.56 706 716

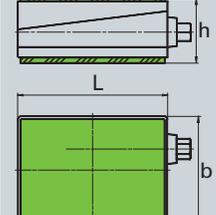
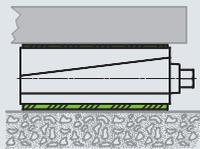
NK Top bottom
_.65 903 915

NS Top bottom
_.73 902 902

Dimension



Type	Article no.	Max. load lbs	h mm	L mm	b mm	+/- h mm							
5-VRC	1.30005.____	3100	86	12400	90	21000	88	21000	74	250	115	+8	-7
8-VRC	1.30008.____	5600	86	22500	90	34000	88	34000	74	255	205	+8	-7
10-VRC	1.30010.____	9400	86	38000	90	56000	88	56000	74	370	230	+13	-7
11-VRC	1.30011.____	17000	89	67000	93	112000	91	112000	77	502	302	+12	-4
12-VRC	1.30012.____	29000	146	112000	150	225000	148	225000	134	650	400	+16	-4



Type	Article no.	Max. load lbs	h mm	L mm	b mm	+/- h mm							
2006-VRC	1.30106.____	2000	76	8300	80	13500	78	13500	64	160	115	+6	-6
2012-VRC	1.30112.____	2700	68	11000	72	22000	70	22000	56	200	120	+6	-6
2024-VRC	1.30124.____	4500	106	18000	110	36000	108	36000	94	250	160	+8	-7

For more information please visit our website.

VRC Wedgmount® Precision Levelers – bolt-on

AirLoc bolt-on precision Wedgmount® Precision Levelers with patented spring tensioning of top and bottom part. The Wedgmount® Precision Leveler is bolted permanently onto the machine, but it can move freely on the ground and is set up with vibration isolation. The 2000 series permits bolting on centrally. The milled surface and the fast and easy adjustment to within 1/100 mm accuracy make your machinery flexible and cost-efficient. This is your competitive edge when it comes to the precision and quality of your products.

Ask us also about our custom solutions for your specific machine.

Order no. =
article no. + index

Color:
Reseda green RAL 6011

Other colors
upon request

The Universal
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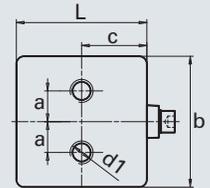
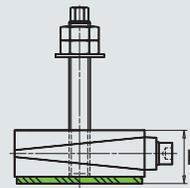
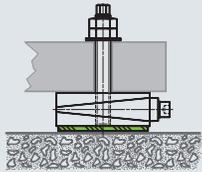
Pad type
Index

716
_.56

915
_.65

902
_.59

Dimension



Type	Article no.	Max. load lbs	h mm	Max. load lbs	h mm	Max. load lbs	h mm	Metric thread d1	c mm	a mm	L mm	b mm	+/- h mm	
202-VRC	1.31202.____	5600	56	9000	56	9000	43	M16	58	27	115	115	+4	-5
203-VRC	1.31203.____	8500	61	13500	61	13500	48	M16	70	27	140	140	+6	-6
204-VRC	1.31204.____	12400	68	18000	68	18000	55	M20	68	27	170	170	+5	-8
205-VRC	1.31205.____	18000	77	22500	77	22500	64	M20	90	27	180	230	+9	-9
206-VRC	1.31206.____	18000	77	27000	77	27000	64	M20	90	27	205	230	+9	-9
407.1-VRC	1.31407.____	22500	80	36000	80	36000	67	M24	125	32	250	200	+11	-10
410.1-VRC	1.31410.____	34000	95	56000	95	56000	82	M24	143	41	300	250	+11	-11
414.1-VRC	1.31414.____	34000	99	66000	99	66000	86	M24	143	41	300	250	+9	-9
450.1-VRC	1.31450.____	53000	99	110000	99	110000	86	M24	143	42	300	400	+9	-9

Metric

thread

d1

c

a

L

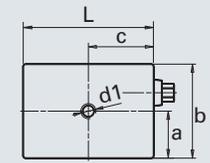
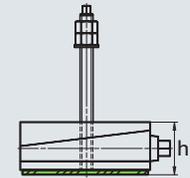
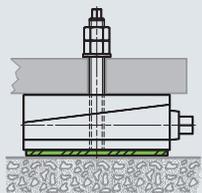
b

+/- h

mm

Other thread

sizes upon request



Type	Article no.	Max. load lbs	h mm	Max. load lbs	h mm	Max. load lbs	h mm	Metric thread d1	c mm	a mm	L mm	b mm	+/- h mm	
2006.1-VRC	1.31106.____	8300	75	13500	75	13500	62	M16	80	58	160	115	+6	-6
2012.1-VRC	1.31112.____	11000	67	22000	67	22000	54	M16	100	60	200	120	+6	-6
2024.1-VRC	1.31124.____	18000	105	36000	105	36000	92	M24	125	80	250	160	+8	-7

Metric

thread

d1

c

a

L

b

+/- h

mm

VRKC Wedgmount® Precision Leveler – bolt-on, spherical seat

AirLoc bolt-on Wedgmount® Precision Levelers in the spherical seat version with patented spring tensioning of top and bottom part. The Wedgmount® Precision Leveler is bolted permanently onto the machine, but it can move freely on the ground and is set up with vibration isolation. The 2000 series permits bolting on centrally. For machine supports that are not machined or for uneven ground, the spherical seat version guarantees a fixed connection to a slope of up to 3°. This is your competitive edge when it comes to the precision and quality of your products.

Ask us also about our custom solutions for your specific machine.

Order no. =
article no. + index

Color:
Reseda green RAL 6011

Other colors
upon request

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For lathes, grinding machines, boring machines, transport lines and special machines. Ideal stability and non-skid properties. Without vibration isolation.

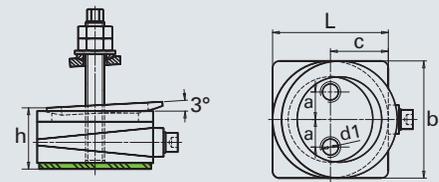
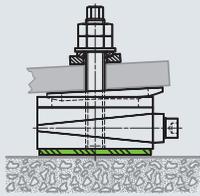
Pad type
Index

716
_.56

915
_.65

902
_.59

Dimension



Type	Article no.	Max. load lbs	h mm	Max. load lbs	h mm	Max. load lbs	h mm	Metric thread d1	c mm	a mm	L mm	b mm	+/- h mm
202-VRKC	1.36202. __	5600	68	9000	68	9000	55	M16	58	27	115	115	+4 -5
203-VRKCV	1.36243. __	8500	77	13500	77	13500	64	M16	70	27	140	140	+6 -6
204-VRKC	1.36204. __	12400	84	18000	84	18000	71	M20	68	27	170	170	+5 -8
205-VRKC	1.36205. __	18000	93	22500	93	22500	80	M20	90	27	180	230	+9 -9
206-VRKC	1.36206. __	18000	93	27000	93	27000	80	M20	90	27	205	230	+9 -9
407.1-VRKC	1.36407. __	22500	96	36000	96	36000	83	M24	125	32	250	200	+11 -10
410.1-VRKC	1.36410. __	34000	130	56000	130	56000	117	M24	143	41	300	250	+11 -11
414.1-VRKC	1.36414. __	34000	134	66000	134	66000	121	M24	143	41	300	250	+9 -9
450.1-VRKC	1.36450. __	53000	134	110000	134	110000	121	M24	143	42	300	400	+9 -9

Metric

thread d1

c mm

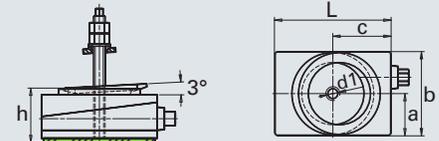
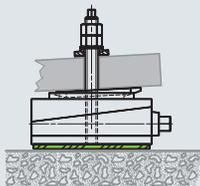
a mm

L mm

b mm

+/- h mm

Other thread sizes upon request



Type	Article no.	Max. load lbs	h mm	Max. load lbs	h mm	Max. load lbs	h mm	Metric thread d1	c mm	a mm	L mm	b mm	+/- h mm
2006.1-VRKCV	1.36106V. __	8300	91	13500	91	13500	78	M16	80	58	160	115	+6 -6
2012.1-VRKCV	1.36112V. __	11000	83	22000	83	22000	70	M16	100	60	200	120	+6 -6
2024.1-VRKC	1.36124. __	18000	121	36000	121	36000	108	M24	125	80	250	160	+8 -7

Metric

thread d1

c mm

a mm

L mm

b mm

+/- h mm

Other thread sizes upon request

Fastening systems suited to our Wedgmount® Precision Levelers are found on page 35.

VRC Wedgmount® Precision Leveler – bolt-through

AirLoc bolt-through precision Wedgmount® Precision Levelers with patented spring tensioning of top and bottom part. The right choice for machines with changing loads, one-sided load bias or high dynamic disturbance forces. The 2000 series permits bolt-ing on centrally. The Wedgmount® Precision Leveler is permanently anchored to the machine and ground and nevertheless offers highly effective vibration isolation and impact isolation. The flat surface plus fast and precise adjustment to within $\frac{1}{100}$ mm make your machinery setup easy and economical. This is your competitive edge when it comes to the precision and quality of your products.

Ask us also about our custom solutions for your specific machine.

**Order no. =
article no. + index**

**Color:
Reseda green RAL 6011**

**Other colors
upon request**

The Universal

For tool, plastic and textile machines, graphic and general production machines. Superior isolation and damping properties. Excellent non-skid properties.

The Dynamic One

For transport lines, special machines and tool machines. High load capacity, excellent constant leveling stability and overall stability.

The Stabiliser

For lathes, grinding machines, boring machines, transport lines and special machines. Ideal stability and non-skid properties. Without vibration isolation.

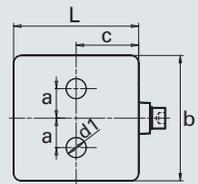
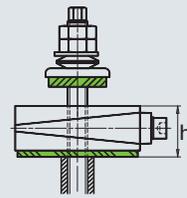
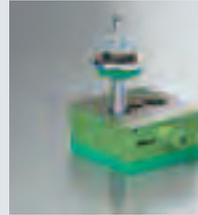
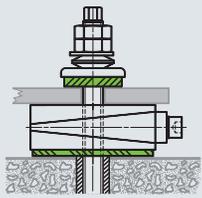
**Pad type
Index**

716
...56

915
...65

902
...59

Dimension



Type Article no.

Max. load lbs h mm

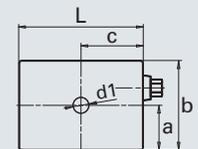
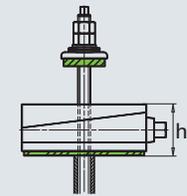
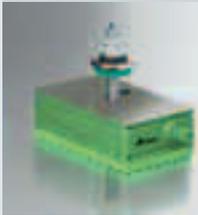
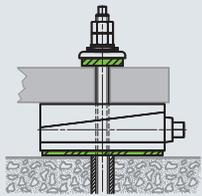
Max. load lbs h mm

Max. load lbs h mm

Bore

d1 mm c mm a mm L mm b mm +/- h mm

212-VRC	1.32212.____	5600	56	9000	56	9000	43	22	58	27	115	115	+4	-5
213-VRC	1.32213.____	8500	61	13500	61	13500	48	22	70	27	140	140	+6	-6
214-VRC	1.32214.____	12400	68	18000	68	18000	55	26	68	27	170	170	+5	-8
215-VRC	1.32215.____	18000	77	22500	77	22500	64	26	90	27	180	230	+9	-9
216-VRC	1.32216.____	18000	77	27000	77	27000	64	26	90	27	205	230	+9	-9
407.2-VRC	1.32407.____	22500	80	36000	80	36000	67	28	125	32	250	200	+11	-10
410.2-VRC	1.32410.____	34000	95	56000	95	56000	82	28	143	41	300	250	+11	-11
414.2-VRC	1.32414.____	34000	99	66000	99	66000	86	28	143	41	300	250	+9	-9
450.2-VRC	1.32450.____	53000	99	110000	99	110000	86	28	143	42	300	400	+9	-9



Type Article no.

Max. load lbs h mm

Max. load lbs h mm

Max. load lbs h mm

Bore

d1 mm c mm a mm L mm b mm +/- h mm

2006.2-VRC	1.32106.____	8300	75	13500	75	13500	62	21	80	58	160	115	+6	-6
2012.2-VRC	1.32112.____	11000	67	22000	67	22000	54	21	100	60	200	120	+6	-6
2024.2-VRC	1.32124.____	18000	105	36000	105	36000	92	27	125	80	250	160	+8	-7

Fastening systems suited to our Wedgmount® Precision Levelers are found on page 35.

VRKC Wedgmount® Precision Leveler – bolt-through, spherical seat

AirLoc bolt-through Wedgmount® Precision Levelers in the spherical seat version with patented spring tensioning of top and bottom part. The right choice for machines with changing loads, one-sided load bias or high dynamic disturbance forces. The 2000 series permits bolting on centrally. The Wedgmount® Precision Leveler is permanently anchored to the machine and ground and nevertheless offers highly effective vibration isolation and impact isolation. For machine supports that are not machined or for uneven ground, the spherical seat version guarantees a fixed connection to a slope of up to 3°. This is your competitive edge when it comes to the precision and quality of your products.

Ask us also about our custom solutions for your specific machine.

**Order no. =
article no. + index**

**Color:
Reseda green RAL 6011**

**Other colors
upon request**

The Universal
For tool, plastic and textile machines, graphic and general production machines. Superior isolation and damping properties. Excellent non-skid properties.

The Dynamic One
For transport lines, special machines and tool machines. High load capacity, excellent constant leveling stability and overall stability.

The Stabiliser
For lathes, grinding machines, boring machines, transport lines and special machines. Ideal stability and non-skid properties. Without vibration isolation.

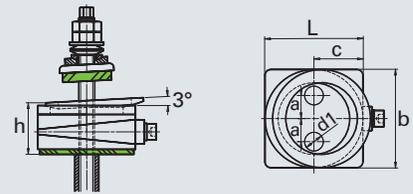
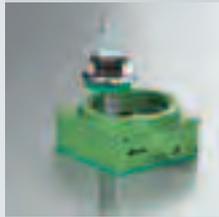
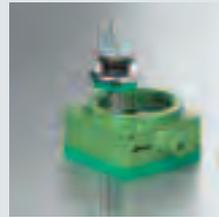
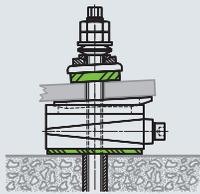
**Pad type
Index**

716
...56

915
...65

902
...59

Dimension



Type Article no.

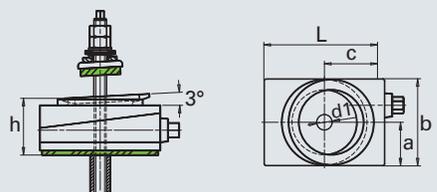
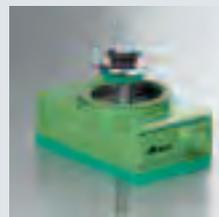
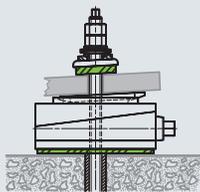
Max. load lbs h mm

Max. load lbs h mm

Max. load lbs h mm

Bore d1 mm c mm a mm L mm b mm +/- h mm

212-VRKC	1.37212...	5600	68	9000	68	9000	55	22	58	27	115	115	+4	-5
213-VRKCV	1.37243...	8500	77	13500	77	13500	64	22	70	27	140	140	+6	-6
214-VRKC	1.37214...	12400	84	18000	84	18000	71	26	68	27	170	170	+5	-8
215-VRKC	1.37215...	18000	93	22500	93	22500	80	26	90	27	180	230	+9	-9
216-VRKC	1.37216...	18000	93	27000	93	27000	80	26	90	27	205	230	+9	-9
407.2-VRKC	1.37407...	22500	96	36000	96	36000	83	28	125	32	250	200	+11	-10
410.2-VRKC	1.37410...	34000	130	56000	130	56000	117	28	143	41	300	250	+11	-11
414.2-VRKC	1.37414...	34000	134	66000	134	66000	121	28	143	41	300	250	+9	-9
450.2-VRKC	1.37450...	53000	134	110000	134	110000	121	28	143	42	300	400	+9	-9



Type Article no.

Max. load lbs h mm

Max. load lbs h mm

Max. load lbs h mm

Bore d1 mm c mm a mm L mm b mm +/- h mm

2006.2-VRKCV	1.37106V...	8300	91	13500	91	13500	78	21	80	58	160	115	+6	-6
2012.2-VRKCV	1.37112V...	11000	83	22000	83	22000	70	21	100	60	200	120	+6	-6
2024.2-VRKC	1.37124...	18000	121	36000	121	36000	108	27	125	80	250	160	+8	-7

Fastening systems suited to our Wedgmount® Precision Levelers are found on page 35.

KSC Wedgmount® Precision Leveler – rigid clamp

AirLoc rigid clamp precision Wedgmount® Precision Levelers with patented spring tensioning of top and bottom part. The best choice when machines do not require vibration isolation and have to be connected to the ground or foundation prestressed. The milled surface and the fast and precise adjustment to within $1/100$ mm accuracy make the high-precision setup of your machinery easy and economical. This is your competitive edge when it comes to the precision and quality of your products.

Ask us also about our custom solutions for your specific machine.

Color:
Reseda green RAL 6011

Other colors
upon request

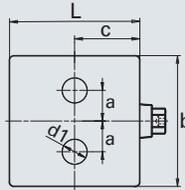
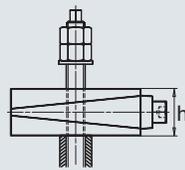
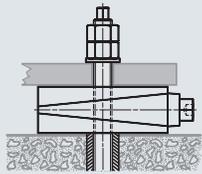
The Interlocker

For bore, milling, long-bed machines and for machines that have to be aligned extremely precisely in all spatial axes.

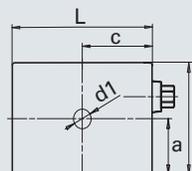
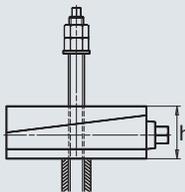
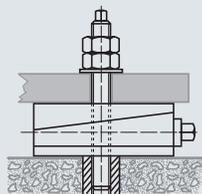
Pad type

without

Dimension



Type	Order no.	Max. leveling load lbs	Max. leveling load + preload lbs	h mm	Bore				+/- h mm		
					d1 mm	c mm	a mm	L mm			b mm
2120-KSC	1.42212	11250	22500	41	22	58	27	115	115	+4	-5
2130-KSC	1.42213	15750	31500	46	22	70	27	140	140	+6	-6
2140-KSC	1.42214	18000	36000	53	26	68	27	170	170	+5	-8
2150-KSC	1.42215	22500	45000	62	26	90	27	180	230	+9	-9
2160-KSC	1.42216	45000	90000	62	26	90	27	205	230	+9	-9
414-KSC	1.42414	90000	135000	84	28	143	41	300	250	+9	-9
450-KSC	1.42450	112500	180000	84	28	143	42	300	400	+9	-9



Type	Order no.	Max. leveling load lbs	Max. leveling load + preload lbs	h mm	Bore				+/- h mm		
					d1 mm	c mm	a mm	L mm			b mm
2006-KSC	1.42106	13500	27000	60	21	80	58	160	115	+6	-6
2012-KSC	1.42112	27000	54000	52	21	100	60	200	120	+6	-6
2024-KSC	1.42124	54000	108000	90	27	125	80	250	160	+8	-7

Fastening systems suited to our Wedgmount® Precision Levelers are found on page 35.

KSKC Wedgmount® Precision Leveler – rigid clamp, spherical seat

AirLoc rigid clamp precision Wedgmount® Precision Levelers in the spherical seat version with patented spring tensioning of top and bottom part. The best choice when machines do not require vibration isolation and have to be connected to the ground or foundation prestressed. For machine supports that are not machined or for uneven ground, the spherical seat version guarantees a fixed connection to a slope of up to 3°. This is your competitive edge when it comes to the precision and quality of your products.

Ask us also about our custom solutions for your specific machine.

Color:
Reseda green RAL 6011

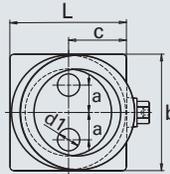
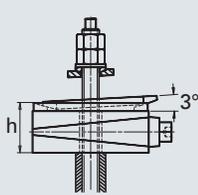
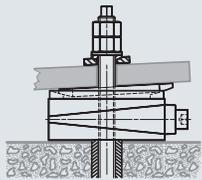
Other colors
upon request

The Interlocker
For boring, milling and long-bed machines with unmachined supports and for machines that have to be aligned extremely precisely in all spatial axes.

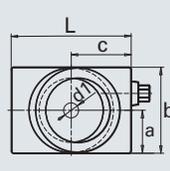
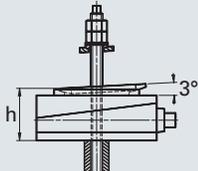
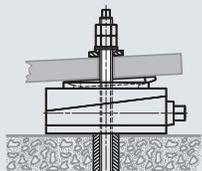
Pad type

without

Dimension



Type	Order no.	Max. leveling load lbs	Max. leveling load + preload lbs	h mm	Bore			L mm	b mm	Spherical seat		Spherical seat Ømm
					d1 mm	c mm	a mm			+/- h mm	mm	
2120-KSKC	1.47212	11250	22500	53	22	58	27	115	115	+4	-5	115
2130-KSKCV	1.47213.1	15750	31500	62	22	70	27	140	140	+6	-6	140
2140-KSKC	1.47214	18000	36000	69	26	68	27	170	170	+5	-8	140
2150-KSKC	1.47215	22500	45000	78	26	90	27	180	230	+9	-9	140
2160-KSKC	1.47216	45000	90000	78	26	90	27	205	230	+9	-9	140
414-KSKC	1.47414	90000	135000	119	28	143	41	300	250	+9	-9	190
450-KSKC	1.47450	112500	180000	119	28	143	42	300	400	+9	-9	190



Type	Order no.	Max. leveling load lbs	Max. leveling load + preload lbs	h mm	Bore			L mm	b mm	Spherical seat		Spherical seat Ømm
					d1 mm	c mm	a mm			+/- h mm	mm	
2006-KSKCV	1.47106.1	13500	27000	76	21	80	58	160	115	+6	-6	113
2012-KSKCV	1.47112.1	27000	54000	68	21	100	60	200	120	+6	-6	113
2024-KSKC	1.47124	54000	108000	106	27	125	80	250	160	+8	-7	140

Fastening systems suited to our Wedgmount® Precision Levelers are found on page 35.

Wedgmount® Precision Leveler – KaBloc

You know the problem with machines and systems that are interconnected with each other. The exact anchor position is painstakingly measured, and expensive machine seat templates have to be made. The AirLoc Wedgmount® Precision Levelers in the KaBloc series permit subsequent anchoring where it is necessary once the system or machine interconnection is completely set up. This means an 80 to 90% reduction in anchoring costs. Secure this competitive advantage today and talk with us about your individual application.

Ask us also about our custom solutions for your specific machine.

Order no. =
article no. + index

Color:
Reseda green RAL 6011

Other colors
upon request

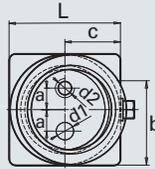
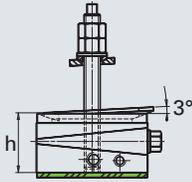
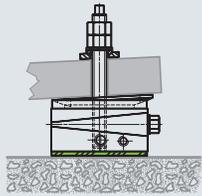
The Cost Saver

For all interconnected machines and systems. Ideal interlockability, excellent constant leveling stability and overall stability.

Pad type
Index

903
.....60

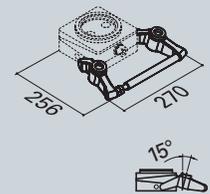
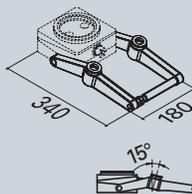
Dimension



Type	Article no.	Max. leveling		h mm	Connection		Connection					+/- h mm	
		load lbs	load + preload lbs		d1 mm	d2 mm	c mm	a mm	L mm	b mm			
203.51V	1.34951.____	15750	31500	80	M20	22	70	27	140	140	+6	-6	
203.52V	1.34952.____	15750	31500	80	22	M20	70	27	140	140	+6	-6	
203.53V	1.34953.____	15750	31500	80	M20	M20	70	27	140	140	+6	-6	
203.54V	1.34954.____	15750	31500	80	22	22	70	27	140	140	+6	-6	

KaBloc brackets, complete, with fastening material

Preload force 4500 lbs



Type	Order no.	Consisting of:
AP3	1.34903	<ul style="list-style-type: none"> - 2 brackets AP3 - 2 fastening screws - 1 bracket stretcher with 2 M12 nuts - 2 spherical washer sets M20 - 2 chemical dowels RM20 - 2 studs RGM20 x 260 mm complete

Type	Order no.	Consisting of:
AP4	1.34904	<ul style="list-style-type: none"> - 2 brackets AP4 - 2 fixing screws - 1 bracket stretcher with 2 M12 nuts - 2 spherical washer sets M20 - 2 chemical dowels RM20 - 2 studs RGM20 x 260 mm complete

For more information please visit our website.



Fastening systems for Wedgmount® Precision Levelers

AirLoc fastening systems are adjusted to your AirLoc Wedgmount® Precision Levelers or your AirLoc Jacmount® Adjustable Levelers. High-quality material from the best suppliers guarantee easy, secure mounting, reliable functioning, and long-life even under severe conditions.

Fastening system with stud type P for bolt-on Wedgmount® Precision Levelers

Stud type S (see page 19) and heavy-duty dowel

Stud type P

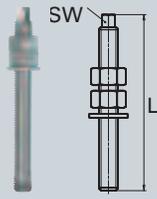
Blue zinc-plated. Delivery includes 2 nuts + 1 washer

Heavy-duty dowel TA/SL

Shape TA = M12 SL = M16 – M24

Metric thread	Order no.	Order no.	Order no.	SW mm	For metric thread	Order no.	Hole	
	125 mm	150 mm	200 mm				Ø mm	t mm
M12	9.01123	9.01124	9.01126	8	M12	9.41112	18	105
M16	9.01163	9.01164	9.01166	10	M16	9.41016	24	110
M20	9.01203	9.01204	9.01206	13	M20	9.41020	30	120
M24			9.01246	17	M24	9.41024	35	150

Other thread lengths upon request




Fastening system stud RGM and chemical dowel RM

Stud RGM

Zinc-plated. Delivery includes 1 nut + 1 washer (M12 – M20)

Chemical dowel RM

Type and metric thread	Order no.	L mm	Working length mm	SW mm	Type and metric thread	Order no.	Hole Ø mm	t mm	Extraction force concrete B25
RGM12	9.43126	220	90	8	RM12	9.42012.1	14	110	2250 lbs
RGM12	9.43127	250	120	8	RM16	9.42016.1	18	125	3600 lbs
RGM16	9.43165	165	13	12	RM20	9.42020.1	25	170	5625 lbs
RGM16	9.43168	300	148	12	RM24	9.42024.1	28	210	6975 lbs
RGM20	9.43207	260	65	12					
RGM20	9.43209	350	155	12					
RGM24*	9.43248	300	65						

*without hexagonal + 2 nuts + 1 washer

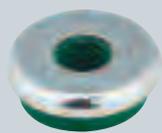
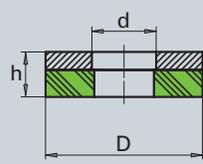
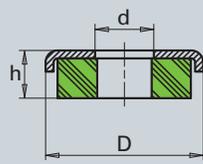
Other thread lengths upon request




Isolating washers

Type	Order no.	For metric thread	D mm	d mm	h mm
F905	9.20040.73	M10 – M12	40	13	8
N915	9.20060.65	M16 – M20	60	22	18
G915	9.20070.65	M20 – M24	70	26	18

Other thread lengths upon request

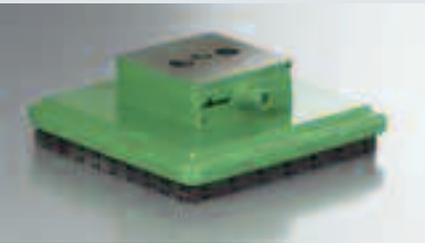




Disk springs are designed by our application engineers and offered with the system.

For more information visit our website www.acornindustrialproducts.com or call 800-523-5474 | E-Mail acorn@acornindprod.com

Wedgmount® Precision Levelers, custom designs, accessories

AirLoc offers its customers the largest selection of Wedgmount® Precision Levelers that can be delivered on short notice. This gives our customers a technically optimal and economical choice of Wedgmount® Precision Levelers for different applications. If there are advantages to be gained for our customers in having a custom-tailored solution, our experienced team of engineers can develop a custom Wedgmount® Precision Leveler that perfectly suits your application or machine. Here you see just a few examples of Wedgmount® Precision Levelers that have been successfully implemented for specific customer requirements or based on our recommendations and help our customers to remain successful in an increasingly competitive market.



Area Wedgmount® Precision Leveler VAP

VAP Wedgmount® Precision Levelers enable wide area load distribution for floors with low load bearing capacity or when large loads have to be set down softly. This is a very efficient solution which is available using standard components in many variations.



Socket Wedgmount® Precision Leveler

Socket Wedgmount® Precision Levelers were developed for customers whose machines have a closed machine foot without the possibility of tightening a fastening screw. To fix the AirLoc socket Wedgmount® Precision Levelers only a blind thread is necessary in the machine foot. A sleeve is screwed in there and the leveler is simply mounted on it. This creates a strong and secure connection between Wedgmount® Precision Leveler and machine foot. And of course the leveling capability remains completely intact. Also the spherical seat variant for unevenness of up to 3° can be reliably compensated – another clever solution of our team to give our customers the competitive edge.

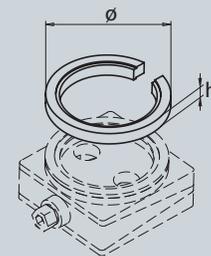


KSU 3100

The Wedgmount® Precision Leveler KSU was developed for customers who needed a central fastening hole and a central adjusting screw. The leveler is constructed very robustly with a cast housing. Despite the compact and very flat construction, the leveler can level up to 5 tons. If requested, it can be added to the floor pad of each AirLoc isolation layer for optimal vibration isolation.

Spacer for Wedgmount® Precision Levelers

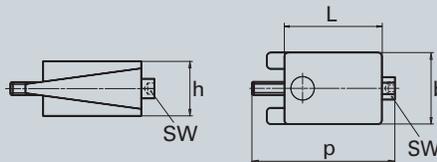
For Wedgmount® Precision Levelers types	Ø mm	h mm	Order no.
202-VRKC, 212-VRKC, 2120-KSKC	115	6	9.33115.06
		12	9.33115.12
		18	9.33115.18
203-VRKC, 213-VRKC, 2130-KSKC, 203.5_V KaBloc, 204-VRKC, 214-VRKC, 2140-KSKC, 407-VRKC, 205-VRKC, 215-VRKC, 2150-KSKC, 2024 VRKC + KSKC 206-VRKC, 216-VRKC, 2160-KSKC	140	6	9.33140.06
		12	9.33140.12
		18	9.33140.18
2006.1-VRKCV, 2006.2-VRKCV, 2006-KSKCV 2012.1-VRKCV, 2012.2-VRKCV, 2012-KSKCV	113	6	9.33116.06
		12	9.33116.12



Mounting Wedgmount® MSC

The mounting Wedgmounts® are for taking heavy machines or machine groups from a crane or other handling equipment. The mounting Wedgmounts® have a large leveling range.

The equipment can be easily aligned on the machined surface of the mounting shoes in the X and Y axes and then lowered onto the intended AirLoc Wedgmount® Precision Levelers and leveled in the Z axis. This is followed by the precision leveling of the machine. Now the machine is ready for use, is fixed in place and cannot be displaced, thanks to AirLoc's non-skid pads or isolation pads with their high adhesive coefficients.

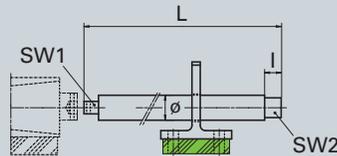
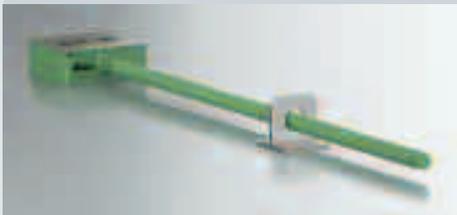


Type	Order no.	Max. load lbs	h mm	p mm	SW mm	L mm	b mm	+/- h mm
10-MSC	1.90010	22500	62	181	19*	130	80	+10 -10
20-MSC	1.90020	45000	83	220	17/30	150	110	+14 -15

*only outer hexagon

Leveling screw extension for hexagon socket

The leveling screw extension permits you to level difficult to reach Wedgmount® Precision Levelers that are not positioned on the outer periphery but rather far under a machine. The choice is based on the size of the hexagon socket of the concerned leveling Wedgmount®.



Type	Order no. L 500 mm	Order no. L 750 mm	Order no. L 1000 mm	Order no. L 1250 mm	Order no. L 1500 mm	Order no. L 1750 mm	Order no. L 2000 mm	Ø mm	SW1 mm	SW2 mm	I mm
6	9.90006.0500	9.90006.0750	9.90006.1000	9.90006.1250	9.90006.1500	9.90006.1750	9.90006.2000	15	6	13	13
10	9.90010.0500	9.90010.0750	9.90010.1000	9.90010.1250	9.90010.1500	9.90010.1750	9.90010.2000	20	10	17	14
12	9.90012.0500	9.90012.0750	9.90012.1000	9.90012.1250	9.90012.1500	9.90012.1750	9.90012.2000	20	12	17	14
14	9.90014.0500	9.90014.0750	9.90014.1000	9.90014.1250	9.90014.1500	9.90014.1750	9.90014.2000	20	14	17	14
17	9.90017.0500	9.90017.0750	9.90017.1000	9.90017.1250	9.90017.1500	9.90017.1750	9.90017.2000	24	17	19	16

Appropriate solutions are also available for outer hexagon.

Horizontal supports – Wedgmount® Precision Leveler VC Compact

AirLoc horizontal supports are an important part of a complete AirLoc machine setup system. Today's machines have light and compact constructions on the one hand; on the other they have fast cycle times and therefore high dynamic forces. AirLoc horizontal supports help you keep machine movements under control. The installation then remains operationally safe and reliable even in critical situations, for example during an emergency stop. It is your advantage when the machine is reliable.

Ask our specialists – we would be glad to assist you with seemingly unsolvable applications.

Order no. =
article no. + index

Color:
Reseda green RAL 6011

Other colors
upon request

The Stabiliser

High damping capability and thus fast neutralisation of machine movements.

The Strong One

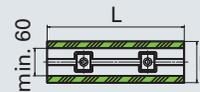
For machines with extremely high horizontal forces. Outstanding stability for lowest possible machine movements.

Pad type
Index

NN (725 two sided)
....68

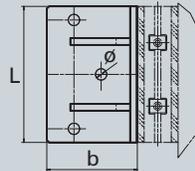
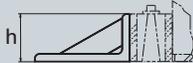
NL (915 two sided)
....66

Dimension



Type	Article no.	Max. load lbs	h mm	Max. load lbs	h mm	L mm	b mm	+/- h mm
VC/NN	1.94200._	13500	100	–	–	300	110	+9.5 -0.0
VC/NL	1.94200._	–	–	22500	100	300	90	+9.5 -0.0

Bracket support L2 for Wedgmount® Precision Leveler VC



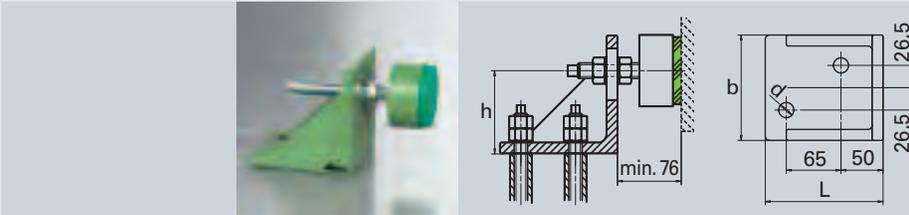
Type	Order no.	Max. load lbs	h mm	L mm	b mm	Ø mm	Consisting of:
L2	1.941321	22500	100	300	200	25	<ul style="list-style-type: none"> – 1 bracket support L2 – 3 chemical dowels RM24 – 3 studs RGM24 x 300 – 6 nuts M24 – 3 washers

Horizontal supports – HZA

AirLoc HZA horizontal supports are an important part of a complete AirLoc machine setup system. The delivery provides you with all required components including complete fastening materials. The threaded spindle with lock nut ensures precision adjustment of your machine geometry. The solid bracket supports guarantee a minimum of machine movement over the long-term even under maximum load. It is your advantage when the machine is reliable.

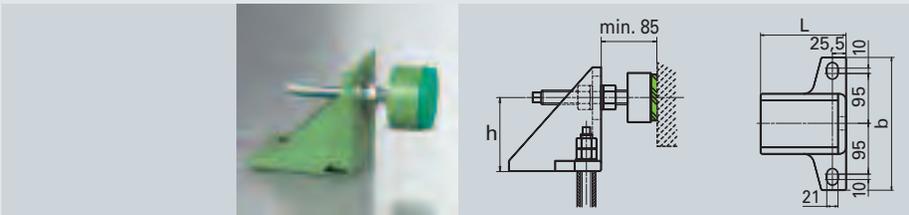
Ask our specialists – we would be glad to assist you with seemingly unsolvable applications.

Horizontal support HZA-W2, with B 80-2/915



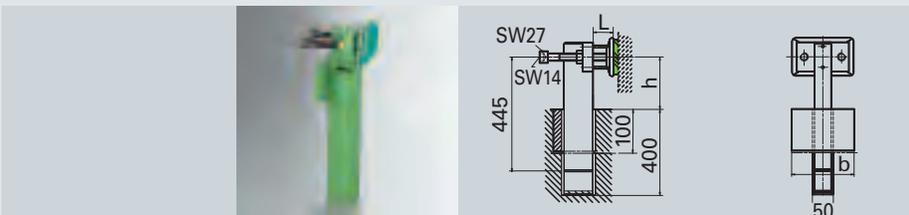
Type	Order no.	Max. load lbs	h min. mm	h max. mm	L mm	b mm	Support element	d mm	Consisting of:
HZA-W2	1.94102.65	5600	75	115	140	125	B 80-2/915	18	<ul style="list-style-type: none"> – 1 bracket support W2 – 1 element B 80-2 /915 – 1 Kokobo O-2 M16 x 150 + 2 nuts + 2 washers – 2 chemical dowels RM16 – 2 studs RGM16 x 190 + 4 nuts + 2 washers

Horizontal support HZA-W4, with B 80-2/915



Type	Order no.	Max. load lbs	h min. mm	h max. mm	L mm	b mm	Support element	Oblong hole mm	Consisting of:
HZA-W4	1.94104.65	9000	100	150	160	250	B 80-2/915	31	<ul style="list-style-type: none"> – 1 bracket support W4 – 1 element B 80-2 /915 – 1 Kokobo O-2 M20 x 150 + 2 nuts + 2 washers – 2 chemical dowels RM20 – 2 studs RGM20 x 260 + 4 nuts + 2 washers

Horizontal support, pour-in, HZA series H



Type	Order no.	Max. load lbs	h max. mm	L mm	b mm	Support element	Pour-in depth mm
HZA-H5	1.94054.65	9000	200	40–70	150	GLV115/915	400
HZA-H7	1.94075.65	13500	200	40–80	300	GLV165/915	400



Isolation pads – press isolation example

Arrangement: The AirLoc isolation pads are mounted between the press foot and the installation surface of the press foundation.

Purpose: Active isolation, prevents propagation of disturbance vibrations in the surroundings.

Benefits: No negative influences on personnel due to disturbance vibrations; reduction of dynamic load peaks reduces the load on presses, tools, foundation and thereby increases service life and decreases susceptibility to faults.

AirLoc advantages: Isolation pads precisely customised to customer requirements for a long-life, no-wear, maintenance-free isolation concept.



Jacmount® Adjustable Levelers – printing industry example

Arrangement: The AirLoc Jacmount® Adjustable Levelers are screwed onto the feet of the components with a leveling screw.

Purpose: Active isolation, prevents propagation of disturbance vibrations in the surroundings.

Benefits: Efficient isolation of the machine from the surroundings; fast, stable machine leveling.

AirLoc advantages: Broad selection of Jacmount® Adjustable Levelers:
 – Elements with and without permanent connection of the leveling screw
 – Application-specific isolation pads to fit all elements.



Wedgmount® Precision Levelers – metal forming machine example

Arrangement: The AirLoc Wedgmount® Precision Levelers are under the machine feet of the machine bed.

Purpose: Structure-borne sound isolation, highly precise alignment of the machine, stable level setup.

Benefits: Highly precise leveling, high load-bearing capacity of the Wedgmount® Precision Levelers, eccentric non-skid properties thanks to high friction coefficients of the isolation pads.

AirLoc advantages: Very compact, low construction. Solution from the AirLoc system components for choice of advantages: setups, bolt-on or bolt-through, isolation variants.



Rigid clamp Wedgmount® Precision Levelers – machining center example

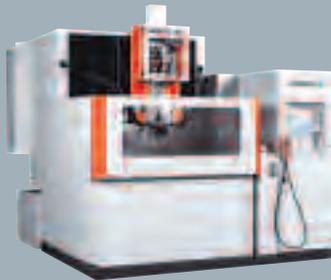
Arrangement: The AirLoc Wedgmount® Precision Levelers are part of the rigid clamp anchoring of the machine bed with building foundation.

Purpose: Stable leveling setup, strong connection of the machine bed to the building foundation, high rigidity of leveling components.

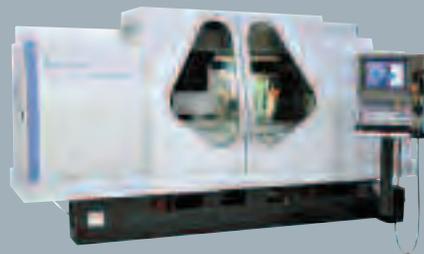
Benefits: Effective use of the foundation for achieving stable machine geometry.

AirLoc advantages: Large height adjustment range, high load-bearing leveling capacity, high precision leveling device. Strong spherical seats and spacer for uneven ground, bed surfaces, etc.

Customers who place their trust in us.



Agie Charmilles SA, Meyrin



L. Kellenberger & Co. AG, St. Gallen



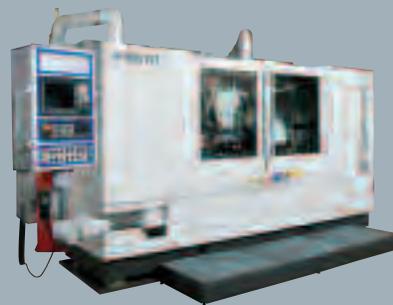
Comau France, Castres



The Minster Machine Company, Minster (Ohio)



Ferag AG, Hinwil



Samputensili S.p.A., Bologna



Finn Power Lillbacka, Kauhava



Feintool Technologie AG, Lyss