

# SKF Vibracon

## The universal adjustable chock

### The economical machinery mounting solution

#### Why use SKF Vibracon?

- SKF Vibracon is a self leveling, height adjustable and re-usable chock
- Easy and accurate mounting of all types of rotating equipment to base frames, steel foundations or concrete
- Eliminates soft foot from the production line through the life cycle of the equipment
- Reduces the cost of equipment foundations by design for the first build or through retrofit
- SKF Vibracon has many well documented applications and references.

### SKF Vibracon advantage

SKF Vibracon elements are permanent, strong and re-usable machinery mounting chocks for all types of rotating or critically aligned machinery. SKF Vibracon mounts are mechanically stiff elements that make accurate mounting simple and quick.

SKF Vibracon advantages are the absence of curing time, as with epoxy resin chocks, it eliminates the trial and error alignment process characteristic for the "mill and shim" method and adjustability during the life cycle of the machinery.

SKF Vibracon has many configurations and material options to satisfy technical concerns, in end user environments and production line costs.

All SKF Vibracon elements include the spherical top plate and mating middle section. This self leveling configuration accommodates the angular differences that are inherent with mounting surfaces. The height adjustment feature has the

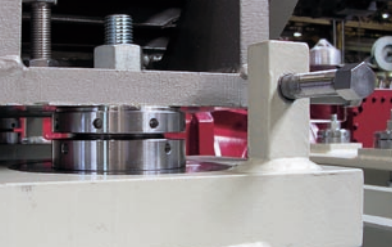


greatest range in the industry, which makes SKF Vibracon easy to install.

SKF Vibracon elements are the most economical means to establish a perfect mounting plane. SKF Vibracon advantage is the capability to perfectly create the mounting plane within minutes and repeatedly for production or service managers and accountants. SKF Vibracon can help save costs in:

- Industrial applications
- Marine applications
- Offshore applications
- Military and navy applications.

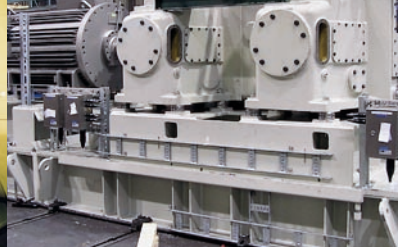




*Typical SKF Vibracon application*



*Generator*



*Electrical motor and compressor*



*Gearbox*

## SKF Vibracon

SKF Vibracon elements are machinery mounting chocks that are easily and accurately adjusted. The elements accommodate the angular difference between machine and the mounting base without expensive machining of the base or extra work of installing epoxy resin chocks. The self leveling capability combined with the height adjustment feature eliminates the possibility of a soft foot in the production line through the life cycle of the machinery.

## SKF Vibracon low profile

The low profile elements offer an economic solution for repair projects or fixed design systems where expensive milled chocks, shims or epoxy resins were applied previously. SKF Vibracon low profile configuration addresses those applications where the chock height between the foundation and component has been established by the previous design. Most of the other chocking methods are time-consuming and do not support the life cycle needs of the machine owners and installation activities on a tight schedule. A variety of adjustment tools for confined installation spaces are available.

## Other SKF Vibracon applications

The configurations and materials of SKF Vibracon mounts are not limited to the examples shown in the product tables. Many options are available and routinely deployed to solve mounting problems. Typical solutions include:

- **Concrete mounting kit.** SKF Vibracon and a sole plate are matched to suit components mounted on concrete.
- **Slotted elements.** Industrial repair applications where the anchor bolt and the machine cannot be moved. This applies typically to shore based engines and motors where the elements have to be installed as a traditional shim.
- **Shock hardened.** Elements for the Grade A Shock (MIL-STD-901) environments.
- **Additional bottom ring.** For installations with larger gaps between machine foot and foundation.
- **Spherical washer.** Compensating angular deviations between bolt and foundation. Saves costly spot facing of mating areas.
- **Stopper.** To avoid costly and time-consuming installation of fitted bolts.

Mounting instructions, references and comprehensive information is available via the SKF website ([www.skfmachinesupport.com](http://www.skfmachinesupport.com)).

SKF Vibracon mounts have been rigorously tested both in the laboratory and the field, in all types of environments and applications under the scrutiny of designers, production managers, OEM commissioning engineers, operators and owners. SKF Vibracon works technically and economically for many of the world's best. Contact SKF for application and trial examination.

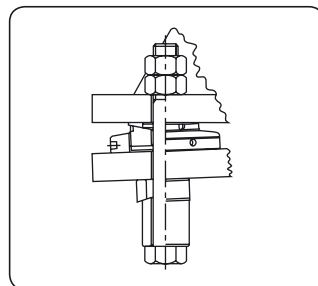
*SKF Vibracon*



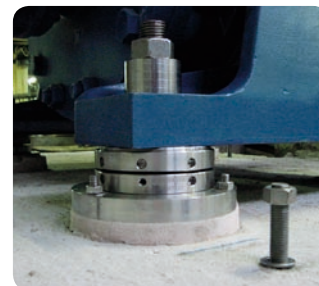
*SKF Vibracon low profile*



*Spherical washer*



*Concrete mounting kit*





Gas engine on concrete



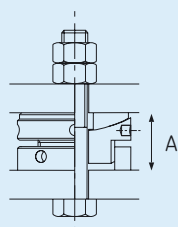
Skid mounted diesel engine



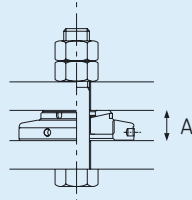
Main propulsion engine



Shaft bearing



SKF Vibracon



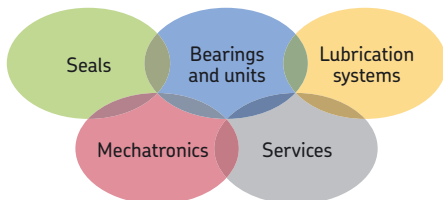
SKF Vibracon low profile

Vibracon type	Bolt size	Tightening torque	Bolt size	Tightening torque	Machine load	Max. element load	Min. height	(A) Nominal height	Max. height	Min. reduced height	Max. extended height	Bolt hole	Diameter	Key holes	Pitch	Mass
–	Metric	Nm	Metric	Nm	kN	kN	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
<b>SKF Vibracon</b>																
<b>12</b>	M12	85	M14	110	8	48	30	<b>34</b>	38	23	60	15	<b>60</b>	6	1	0,6
<b>16</b>	M16	215	M18	270	15	90	35	<b>40</b>	45	26	80	19	<b>80</b>	6	1,5	1,2
<b>20</b>	M20	420	M22	500	25	140	40	<b>45</b>	50	31	100	23	<b>100</b>	8	2	2,2
<b>24</b>	M24	730	M27	890	35	200	45	<b>51</b>	57	34	120	28	<b>120</b>	8	2	3,5
<b>30</b>	M30	1 460	M33	1 745	60	325	50	<b>56</b>	62	39	140	34	<b>140</b>	10	2	5,3
<b>36</b>	M36	2 570	M39	3 000	90	475	55	<b>61</b>	67	44	160	40	<b>160</b>	10	2	7,5
<b>42</b>	M42	4 125	M45	4 995	120	675	60	<b>66</b>	72	49	190	46	<b>190</b>	10	2	12,0
<b>48</b>	M48	6 210	M52	7 175	160	850	70	<b>77</b>	85	56	220	54	<b>220</b>	10	3	17,0
<b>56</b>	M56	10 035	M60	10 360	225	1 150	75	<b>82</b>	90	61	230	62	<b>230</b>	12	3	23,0
<b>64</b>	M64	15 165	M68	16 320	300	1 500	80	<b>87</b>	95	66	250	70	<b>250</b>	12	3	27,0
<b>SKF Vibracon low profile</b>																
<b>16LP</b>	M16	215	M18	270	15	90	20	<b>25</b>	30	20	80	19	<b>80</b>	6	1,5	0,6
<b>20LP</b>	M20	420	M22	500	25	140	20	<b>25</b>	30	20	100	23	<b>100</b>	6	2	0,9
<b>24LP</b>	M24	730	M27	890	35	200	20	<b>25</b>	30	20	120	29	<b>120</b>	6	2	1,3
<b>30LP</b>	M30	1 460	M33	1 745	60	325	20	<b>25</b>	30	20	140	35	<b>140</b>	6	2	1,8
<b>36LP</b>	M36	2 570	M39	3 000	90	475	30	<b>35</b>	40	30	160	40	<b>160</b>	6	2	3,7
<b>42LP</b>	M42	4 125	M45	4 995	120	675	35	<b>40</b>	45	35	190	46	<b>190</b>	6	2	6,2

#### Materials

<b>Standard (CS)</b>	DIN 1.1191 / 1.0570	In stock
<b>Stainless Steel (SS)</b>	DIN 1.4404 (AISI 316L)	In stock
<b>Alloy Steel (AS)</b>	DIN 1.7225	On request
<b>K-Monel 500 (KM)</b>	QQ-N-286	On request

Calculations are valid for bolts with usual thread, material grade 8.8, yield strength >630 N/mm<sup>2</sup>, oil lubricated thread courses and nut mating surfaces without slide additives. Monel is a registered trademark of Special Metals Corporation



### The Power of Knowledge Engineering

Drawing on five areas of competence and application-specific expertise amassed over 100 years, SKF brings innovative solutions to OEMs and production facilities in every major industry worldwide.

These five competence areas include bearings and units, seals, lubrication systems, mechatronics (combining mechanics and electronics into intelligent systems), and a wide range of services, from 3-D computer modelling to advanced condition monitoring and reliability and asset management systems.

A global presence provides SKF customers uniform quality standards and universal product availability.

#### This brochure was presented by:

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