

# 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

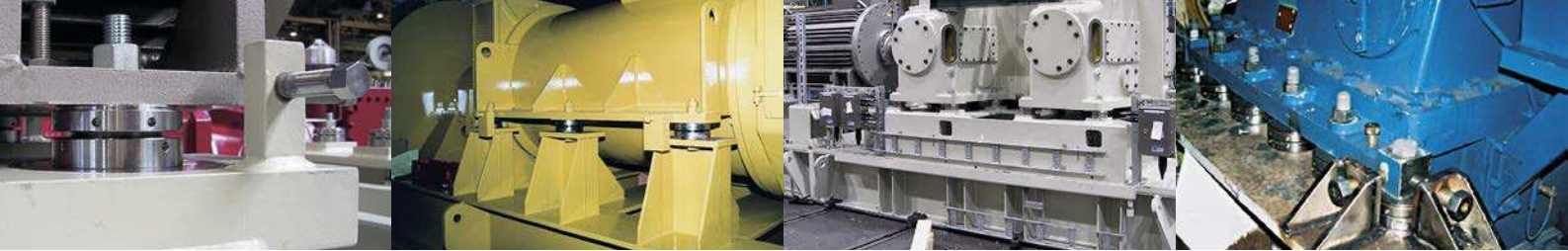


greatest range in the industry, which makes SKF Vibracon easy to install.

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.

### Surface treated chocks

Many installations where the SKF Vibracon chocks are applied can be found in tough, humid and salty climates, where protection against corrosion is advised. To cater for this need, SKF has been testing different solutions resulting in the surface treated SKF Vibracon chock. All parts are treated individually to guarantee an optimal result, consistent quality and extended corrosion protecting capabilities.

## 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-S-901D) 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.skfvibracon.com](http://www.skfvibracon.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.

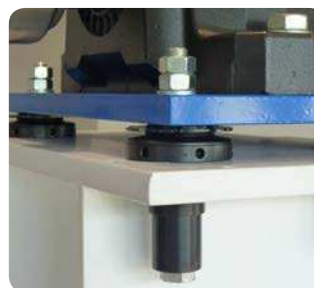
*Stainless steel SKF Vibracon*



*Surface treated SKF Vibracon low profile*



*Surface treated SKF Vibracon low profile and spherical washer*



*SKF Vibracon solution for resilient mounts*



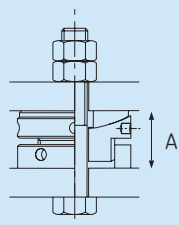


Intermediate shaft bearing

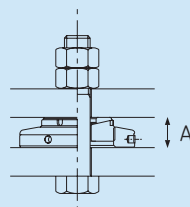
Skid mounted diesel engine

Main propulsion engine

Shaft bearing



SKF Vibracon



SKF Vibracon low profile

**SKF Vibracon**

Carbon Steel (-CS)  
Carbon Steel Surface  
Treated (-CSTR)  
Stainless Steel (-SS)  
K-Monel 500 (-KM)

DIN 1.1191 / 1.0570  
DIN 1.1191 / 1.0570

DIN 1.4404 (AISI 316L)  
QQ-N-286

In stock  
In stock  
In stock  
On request

**SKF Vibracon low profile**

Alloy Steel Surface  
Treated (-ASTR)

DIN 1.7225

In stock

Vibracon type	Bolt size		Tightening torque		Machine load	Max. bolt size <sup>1)</sup>		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		Metric	kN											
<b>SKF Vibracon</b>																		
SM 12 -CS	M12	85	M14	110	8	M16	48	30	<b>34</b>	38	23	60	17	<b>60</b>	6	1	0,6	
SM 16 -CS	M16	215	M18	270	15	M20	90	35	<b>40</b>	45	26	80	21	<b>80</b>	6	1,5	1,2	
SM 20 -CS	M20	420	M22	500	25	M24	140	40	<b>45</b>	50	31	100	25	<b>100</b>	8	2	2,2	
SM 24 -CS	M24	730	M27	890	35	M30	200	45	<b>51</b>	57	34	120	31	<b>120</b>	8	2	3,5	
SM 30 -CS	M30	1 460	M33	1 745	60	M36	325	50	<b>56</b>	62	39	140	37	<b>140</b>	10	2	5,3	
SM 36 -CS	M36	2 570	M39	3 000	90	M42	475	55	<b>61</b>	67	44	160	44	<b>160</b>	10	2	7,5	
SM 42 -CS	M42	4 125	M45	4 995	120	M48	675	60	<b>66</b>	72	49	190	50	<b>190</b>	10	2	12,0	
SM 48 -CS	M48	6 210	M52	7 175	160	M56	850	70	<b>77</b>	85	56	220	60	<b>220</b>	10	3	17,0	
SM 56 -CS	M56	10 035	M60	10 360	225	M64	1 150	75	<b>82</b>	90	61	230	66	<b>230</b>	12	3	23,0	
SM 64 -CS	M64	15 165	M68	16 320	300	M72	1 500	80	<b>87</b>	95	66	250	74	<b>250</b>	12	3	27,0	
<b>SKF Vibracon low profile</b>																		
SM 16 LP-ASTR	M16	215	M18	270	15	M20	90	20	<b>25</b>	30	20	80	21	<b>80</b>	6	1,5	0,6	
SM 20 LP-ASTR	M20	420	M22	500	25	M24	140	20	<b>25</b>	30	20	100	25	<b>100</b>	6	2	0,9	
SM 24 LP-ASTR	M24	730	M27	890	35	M30	200	20	<b>25</b>	30	20	120	31	<b>120</b>	6	2	1,3	
SM 30 LP-ASTR	M30	1 460	M33	1 745	60	M36	325	20	<b>25</b>	30	20	140	37	<b>140</b>	6	2	1,8	
SM 36 LP-ASTR	M36	2 570	M39	3 000	90	M42	475	30	<b>35</b>	40	30	160	44	<b>160</b>	6	2	3,7	
SM 42 LP-ASTR	M42	4 125	M45	4 995	120	M48	675	35	<b>40</b>	45	35	190	50	<b>190</b>	6	2	6,2	

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.

<sup>1)</sup> For an engineered solution, please contact [vibracon@skf.com](mailto:vibracon@skf.com)

## Marine product portfolio

- ✓ Condition monitoring hardware and software
- ✓ Shaft alignment and vibration calculation software
- ✓ Bearings
- ✓ Slewing bearings
- ✓ Bearing housings
- ✓ Bolts
- ✓ Couplings
- ✓ Lubrication systems
- ✓ Lubricants
- ✓ Chocking solutions
- ✓ Sealing solutions
- ✓ Wear sleeves
- ✓ Propeller sleeves
- ✓ Hydraulic nuts
- ✓ Maintenance products and tools
- ✓ Power transmission products
- ✓ Electromechanical actuation systems
- ✓ Hydraulic bolt tensioners
- ✓ Steer-by-wire systems
- ✓ Sensorised bearings
- ✓ Magnetic bearings

## Marine service portfolio

- ✓ Alignment (static and dynamic)
- ✓ Shaft alignment calculations
- ✓ 3D measurement surveys
- ✓ On-site machining
- ✓ Chocking and calculations
- ✓ Mounting
- ✓ Balancing
- ✓ Engineering
- ✓ Testing and validation
- ✓ Condition-based maintenance
- ✓ Vibration analysis
- ✓ Oil analysis
- ✓ Dynamic motor analyzing
- ✓ Torsional vibration analysis
- ✓ Turbocharger monitoring
- ✓ Electric motor monitoring
- ✓ Thermographic measurement
- ✓ Remote monitoring
- ✓ Training and certification
- ✓ Asset management
- ✓ Spare part optimisation
- ✓ Logistics services
- ✓ Bearing analysis
- ✓ Remanufacturing services

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