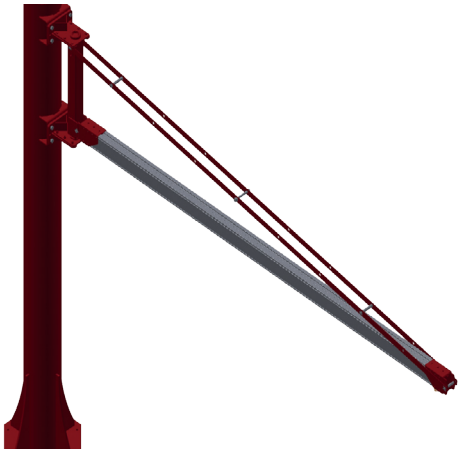
Operating and assembly instructions - Column-Mounted Jib Cranes



SSK.125-2.0 to 6.0
SSK.160-2.0 to 6.0
SSK.250-2.0 to 6.0
SSK.320-2.0 to 6.0
SSK.500-2.0 to 6.0

FIPA Column-Mounted Jib Cranes

FIPA
challenge accepted

Crane system for:

Customer:

Company:

Street:

Postcode / Town:

Country:

Email:

Phone/Fax:

Delivered by:

FIPA GmbH
Freisinger Strasse 30
85737 Ismaning / Germany

Assembly by:

Company:

Street:

Postcode / Town:

Country:

Email:

Phone/Fax:

Project data:

Order date:

Order number:

Project number:

Serial number:

Delivery date:

Technical data

Length of jib:

Lifting capacity:

Hoist supplied:

EC Declaration of Conformity

The company:
FIPA GmbH
Freisinger Str. 30
85737 Ismaning, Germany
Germany
www.fipa.com

declares under its own responsibility that the column-mounted jib cranes:

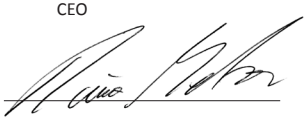
SSK.125-2.0 to 6.0
SSK.160-2.0 to 6.0
SSK.250-2.0 to 6.0
SSK.320-2.0 to 6.0
SSK.500-2.0 to 6.0

which this declaration refers to, are manufactured in accordance with the following Directives:

2006/42/EC (EC Machinery Directive)
2006/95/EC (Low Voltage Directive)
2004/108/EC (EMC Directive)

Ismaning, November 2015
Place, date

Rainer Mehrer,
CEO



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1. INTRODUCTION

FIPA column-mounted jib cranes with aluminium profiles are based on the FIPA modular system and provide the same ergonomic and comfortable smooth running characteristics as the other FIPA crane systems. The crane is easy to assemble and has a space-saving design. The FIPA column-mounted jib crane is an outstanding, cost-efficient solution for all applications where a roof crane system cannot be installed.

The operating manual contains a description of the safety regulations, installation, operation and maintenance as well as all technical data.

Peripheral systems installed alongside the crane system, e.g. FIPALIFT tube lifter or FIPA chain hoist, are not described in these operating instructions. Please take note of the separate descriptions for these system parts.

FIPA is constantly striving to develop and improve the design and construction of its crane systems. Therefore FIPA reserves the right to make modifications to the design and technical configuration without notice.

All information in these operating instructions corresponds to the features at the time of publication. Printing errors are possible. Only the metric system is used.

Rainer Mehrer,
CEO

**The design and construction of the column-mounted jib cranes may not be modified under any circumstances without approval from FIPA GmbH.
Only original FIPA accessories and spare parts may be used. Unapproved modifications and/or the use of third party accessories and spare parts can cause severe bodily injury during use and will result in the warranty being voided.**

2. SAFETY

Read these operating instructions carefully before initial commissioning and note the following safety regulations. The FIPA column-mounted jib crane may only be operated and maintained by personnel who have read these operating instructions and fully understand the content. Please hang the operating instructions near the crane system so as to be easily accessible and make operators aware of them.

Intended Use

> The FIPA column-mounted jib crane is designed for indoor use only at temperatures between -20 and 60 °C.
> For applications with special requirements (e.g. higher temperatures or aggressive atmospheres), the crane system must be specially modified by FIPA GmbH.
> The FIPA column-mounted jib crane may only be used for the application specified when the order was placed.
> The FIPA column-mounted jib crane was only designed to lift loads.
> The maximum load specified on the load-capacity plates (includes the load being lifted together with load-handling or lifting equipment) must not be exceeded.
> In order to ensure that the crane is operated correctly, the operating, maintenance and servicing instructions provided by the manufacturer must be observed.
> In order to ensure that our products are used correctly, the basic principles of system dimensioning outlined in the chapter System design must be applied at all times. If in doubt, please contact our Technical Sales Department (+49 89 962489-0) for assistance in designing your system professionally.

Unauthorised use

> The specified maximum load may not be exceeded (observe the load-capacity plates).
> Loads may not be hauled or pulled at an incline.
> The crane must not be used to dislodge secured or jammed loads.
> Loads must not be transported over personnel.
> Suspended loads must not be left unattended.
> The transport of people is not permitted.
> Lifting gear such as chains and ropes must not be used incorrectly.
> The load must be guided by hand and must not be spun around.

General safety information

All appointed operating personnel must always read and understand the operating instructions before starting work, in particular the safety instructions!

> In order to operate FIPA crane systems, the operating regulations for cranes BGV D6 (VBG 9) must be observed. A copy of the regulations must be kept at an easily accessible location.

> The operating company is responsible for ensuring that
  - the FIPA crane system is always operated in perfect technical condition.
  - the relevant safety regulations are observed.
  - the operational and maintenance measures outlined in the operating instructions are fulfilled.
> All national regulations and safety regulations applicable at the place of work must be observed when working on the crane system.
  Ignoring these regulations may result in serious or even fatal injuries!
> Operating personnel should wear tight-fitting clothing and tie up long hair. There is a risk of injury from being pulled into or becoming caught in the machinery.
> Adhesive labels, signs and markings must not be removed or rendered illegible.
> Covers and protective devices may not be removed.
> System modifications and conversions may not be made without written permission from FIPA GmbH.
> The specified deadlines for performing inspections and tests must be observed.
> Parts may only be fitted if they meet the technical requirements defined by FIPA GmbH. Therefore, always use original FIPA parts.

Safety instructions for assembly

Before and during assembly, take the following points into consideration to avoid assembly errors and prevent creating a danger to others.

Mechanical:

> Cordon off the assembly area before starting assembly.
> Refer to the FIPA assembly instructions for information on the tightening torques of screws.
> Check that all safety components such as spring connectors, cotter pins and retaining clips are seated correctly.
> Components that require regular inspections and tests must be mounted in an easily accessible location.
> The components may only be used for the purpose for which they were designed and not for any other purpose.
> Self-locking nuts must be replaced no later than after the fourth time of being unscrewed.
> Pre-assembled parts must not be removed.
> Lost parts such as clamping sleeves, spring connectors, bolts or screws must not be replaced with parts that are not approved by FIPA GmbH.
> A function check of the entire crane system must be performed after assembly. See Chapter 4 Installation and commissioning.

Electrical:

> Work on electrical equipment may only be performed by specialist electricians.
> Before starting assembly, de-energise the system and secure to prevent it from being switched back on accidentally.
> Protective earth:
  - The protective earth must be identified with the colours green/yellow along its entire length.

- The protective earth must not carry current.
- Protective earth connectors must be secured against coming loose.
- The protective earth must not be connected to a fastening screw.

> Mains isolator/isolating switch:
- A mains isolator for the power supply must be installed and secured against accidental activation. It should be mounted in an easily accessible location.

Safety instructions for initial commissioning

The FIPA column-mounted jib crane must not be put into service unless it has been installed according to regulations and inspected by an expert authority or technical expert. After assembly, the entire crane system must be checked for flawless operation.

Observe the following points prior to initial commissioning:

> The working area must be secured.
> Ensure that all screws have been tightened and all stops have been fitted.
> Safety distances must be observed.
> It must be possible to move the trolley easily.
> A constant media supply must be guaranteed, e.g.
- if there is cable drag, the cable trolleys in the station must be protected against pinching.
- the compressed air hose must not be kinked.

3. OPERATING INSTRUCTIONS AND PRODUCT DESCRIPTION

Operating instructions

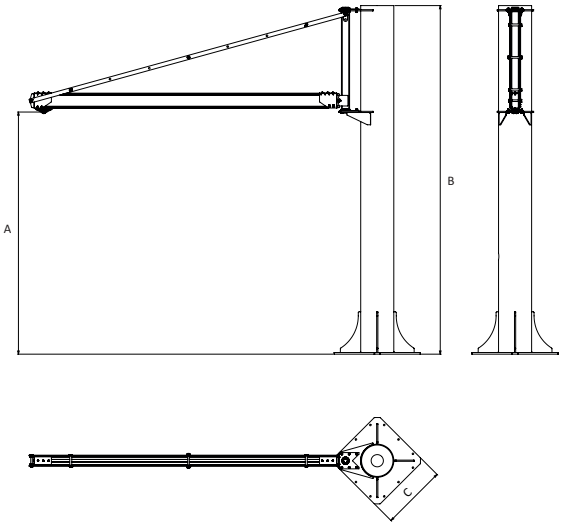
In order to operate FIPA column-mounted jib cranes, the operating regulations for cranes BGV D6 (VBG 9) must be observed. A copy of the regulations must be kept at an easily accessible location.

The following points must be observed when operating the system:

> Work on the system may only be performed by qualified and instructed personnel. Regulations regarding minors must be observed.
> Before starting work, the person assigned to operate the system must have read and understood the operating instructions, in particular the safety information. The operating company must query the knowledge of the operator assigned, if necessary.
> People under the influence of drugs (alcohol, medication, narcotics, etc.) that impair their ability to react are not permitted to use, maintain or repair the system in any way, shape or form.
> Operators must use safety equipment depending on the local conditions.
> The operator must check that the system is in perfect condition prior to each startup.

- The following functions must be checked:
  - Function of the control equipment as well as the integral emergency-stop button. If the system is operated by remote control, the batteries must be charged in good time.
  - Check the function of the limit switches on the lifting equipment and the trolley (if available) by carefully moving towards them.
  - Check the stops, buffers or shock absorbers.
- > The system must be shut down immediately if faults or damage of any kind is identified on the system, in particular faults affecting the safety equipment. The same applies to accessibility of the control devices.
- > The system may only be commissioned once all safety equipment has been installed correctly. Consult the manufacturer before using the safety equipment for a different purpose.
- > If local conditions give rise to situations that were not foreseeable at the time of writing these operating instructions, the user is responsible for the safe operation of the system. If necessary, operation should be discontinued until measures to restore operation have been undertaken in consultation with the manufacturer.
- > If personnel enter the danger area around the system during operation (e.g. walk under a suspended load), the operator must cease all operations immediately.
- > At the end of operations, all loads must be lowered, the crane must be moved to a rest position that does not pose a danger or create an obstruction and the mains isolator for the power supply must be switched off.

Product description



Item no.	Lifting capacity [kg]	A [mm]	B [mm]	C [mm]	Jib length [mm]
SSK.125-2.0	125	2,976	3,555	500	2,000
SSK.125-2.5	125	2,976	3,555	500	2,500
SSK.125-3.0	125	2,976	3,555	500	3,000
SSK.125-3.5	125	2,976	3,555	500	3,500
SSK.125-4.0	125	2,976	3,555	500	4,000
SSK.125-4.5	125	2,976	3,555	500	4,500
SSK.125-5.0	125	2,976	3,555	500	5,000
SSK.125-5.5	125	2,976	3,555	500	5,500
SSK.125-6.0	125	2,976	3,555	500	6,000
SSK.160-2.0	160	2,976	3,555	500	2,000
SSK.160-2.5	160	2,976	3,555	500	2,500
SSK.160-3.0	160	2,976	3,555	500	3,000
SSK.160-3.5	160	2,976	3,555	500	3,500
SSK.160-4.0	160	2,976	3,555	500	4,000
SSK.160-4.5	160	2,976	3,555	500	4,500
SSK.160-5.0	160	2,976	3,555	500	5,000
SSK.160-5.5	160	2,976	3,555	500	5,500
SSK.160-6.0	160	2,976	3,555	500	6,000
SSK.250-2.0	160	2,976	3,555	500	2,000
SSK.250-2.5	250	2,976	3,555	500	2,500
SSK.250-3.0	250	2,976	3,555	500	3,000
SSK.250-3.5	250	2,976	3,555	500	3,500
SSK.250-4.0	250	2,976	3,555	500	4,000
SSK.250-4.5	250	2,976	3,555	500	4,500
SSK.250-5.0	250	2,976	3,555	500	5,000
SSK.250-5.5	250	2,976	3,555	500	5,500
SSK.250-6.0	250	2,976	3,555	500	6,000
SSK.320-2.0	320	2,973	3,870	650	2,000
SSK.320-2.5	320	2,973	3,870	650	2,500
SSK.320-3.0	320	2,973	3,870	650	3,000
SSK.320-3.5	320	2,973	3,870	650	3,500
SSK.320-4.0	320	2,973	3,870	650	4,000
SSK.320-4.5	320	2,973	3,870	650	4,500
SSK.320-5.0	320	2,973	3,870	650	5,000
SSK.320-5.5	320	2,973	3,870	650	5,500
SSK.320-6.0	320	2,973	3,870	650	6,000
SSK.500-2.0	500	2,973	3,870	650	2,000
SSK.500-2.5	500	2,973	3,870	650	2,500
SSK.500-3.0	500	2,973	3,870	650	3,000
SSK.500-3.5	500	2,973	3,870	650	3,500
SSK.500-4.0	500	2,973	3,870	650	4,000
SSK.500-4.5	500	2,973	3,870	650	4,500
SSK.500-5.0	500	2,973	3,870	650	5,000
SSK.500-5.5	500	2,973	3,870	650	5,500
SSK.500-6.0	500	2,973	3,870	650	6,000

The operating range of all column-mounted jib cranes is 270°. It is possible to restrict the operating range using corresponding accessories.

Please refer to the dimension sheet of the relevant model for information on the exact dimensions. If the sheet was not provided, you can request this information from the Technical Sales Department at FIPA GmbH (+49 89 962489-0).

4. INSTALLATION AND COMMISSIONING

Observe the following points prior to commissioning the system:

1. All points in the maintenance instructions and risk analysis must be fulfilled.
2. During commissioning and after performing work on the power supply line, check that the control equipment is functioning correctly because if the phases are confused, the equipment may not operate as intended and subsequently pose a risk of accident.
3. Inspection for compliance with any safety regulations (UVV, safety clearances, etc.)
4. Dynamic load test with 1.1 x rated load.
5. Static load test
   > (only lifting movement of lifting equipment) with 1.25 x rated load.
   > all movements (also lifting movements using manual chain hoist) made by human force with 1.5 x rated load.
6. The load tests may cause the jib to lower slightly. Therefore, after the tests, check that the jib is aligned correctly and adjust if necessary.
7. Ensure that the power or compressed air supply is correctly installed and the operating sequence cannot be impeded.
   > Side-mounted compressed air lines must not impede the operating range of the jib.
   > The variable stop must protect the cable trolleys against pinching.

Installation (assembly instructions)

If a tightening torque is pre-specified, apply the following values. Always use a suitable torque wrench!

Torque chart

M8	40 Nm
M12	80 Nm
M16	200 Nm
Anchor	Please observe the data sheet

4.1 Mains isolator for the power supply/Main crane switch

Work on electrical equipment may only be performed by specialist personnel. Before performing work on the crane, the system must be de-energised and secured against accidental activation.

Actuating the emergency-stop mushroom button only interrupts the power supply to the lifting equipment and the system remains energised.

According to EN 60204 Part 32, it must be possible to activate a hoist and secure it against reactivation using a mains power supply isolator or a plug-in connector.
The mains isolator is located on the column and is responsible for isolating the mains power supply during repairs and maintenance work. This switch may also be used as an emergency-stop switch, if necessary.
Ensure that the mains power supply isolator is not covered and is easy to access.

4.2 Floor conditions and drilling specifications for anchoring

Please refer to the accompanying data sheet for information on the concrete quality, floor thickness, drilling of boreholes and insertion of anchors.
If necessary, have a third party check the suitability of the concrete floor prior to installation.

4.3 Attaching the anchoring

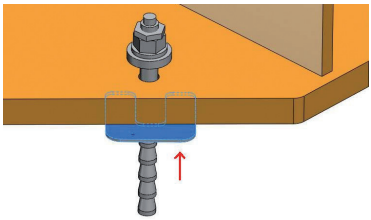
> Install the column so that the crane covers the required operating range.
> The operating range of the jib is approx. 270° - 135° to both the left and right.
> Drill the boreholes for anchoring the column through the existing boreholes in the base plate.
> Clean the boreholes thoroughly, remove the drilling dust and any loose debris as this may interfere with the connection to the concrete.
> Fill injection mortar through the base plate and into the boreholes and then insert the anchors. Allow the injection mortar to harden.

Follow the exact instructions on the injection mortar packaging!
At the end of the specified hardening time, check the strength of the anchors by pulling and turning them. If the anchors can be moved, the injection mortar may not have been mixed correctly. The borehole must be cleaned thoroughly and the process repeated!

Do not use the filling at either end of the cartridge as the mixing ratio here may not be balanced.

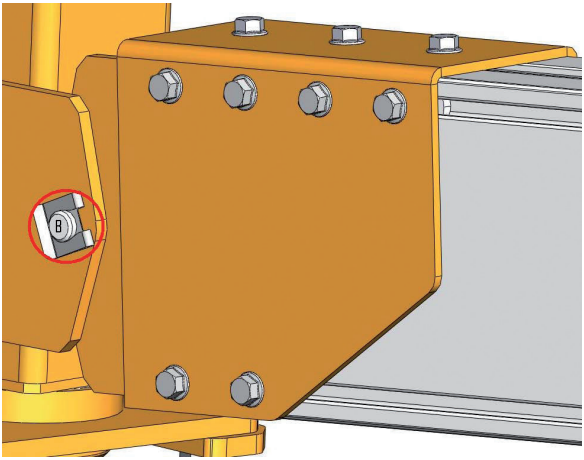
4.4 Installing the column

Slide the plates provided under the base plate until they are firmly in position and the column is aligned vertically. Tighten the nuts on the anchors to the pre-specified torque (see anchor data sheet).

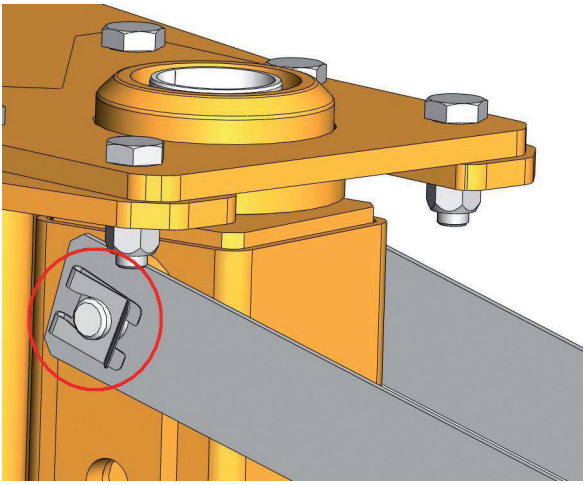


4.5 Installing the jib

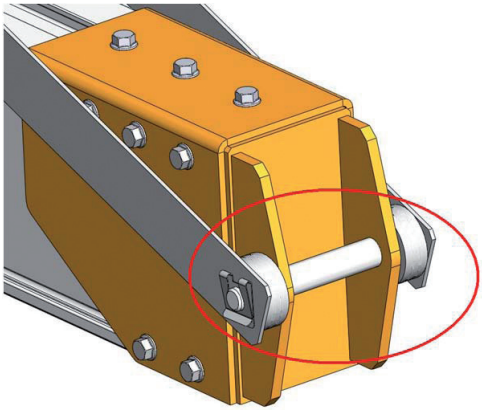
Step 1: Mount the jib to the swivel joint using bolt "B".



Step 2: Mount the anchoring to the swivel joint using the bolt.

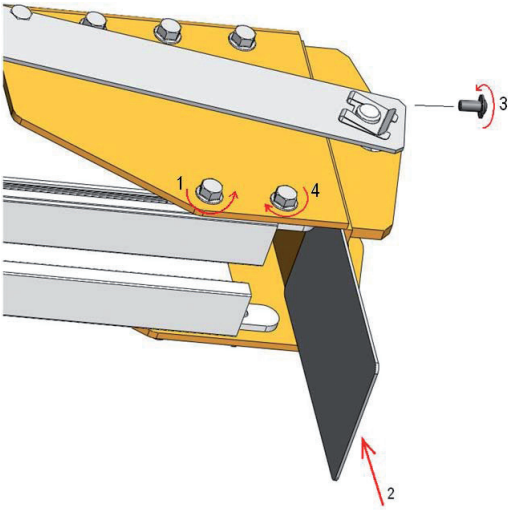


Step 3: Attach the anchoring to the tip of the jib using bolts and spacer sleeves.



4.6 Aligning the jib horizontally

Step 1: Loosen all screws on the mounting shoe. Raise the extrusion so that the mounting shoe on the extrusion slides forward.
Step 2: Insert plates between the extrusion and mounting shoe until the extrusion is hanging in almost perfect horizontal position.
Step 3: When the correct number of spacer plates are inserted, tighten the screw to secure the plates.
Step 4: Then tighten the screws on the mounting shoe.

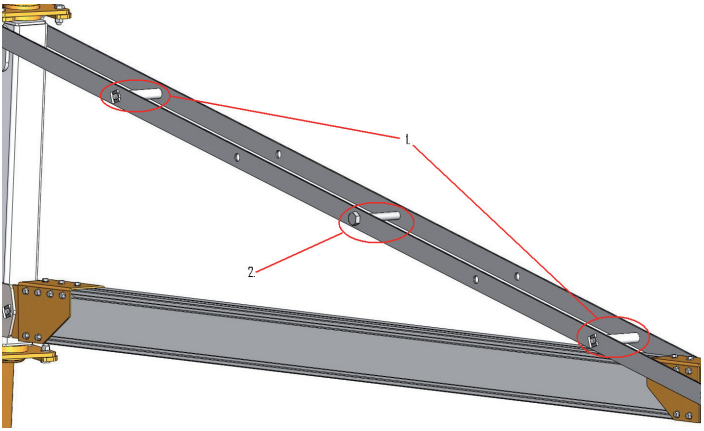


4.7 Mounting the inner anchoring

(components only available on models with second anchoring)
Step 1: Mount the anchoring to the swivel joint using the bolt.
Step 2: Insert bolt "A" in the anchor bracket.
Step 3: Slide the anchor bracket towards the tip of the jib until the anchoring is taut. Tighten the nuts on the anchor bracket.

4.8 Inserting the spacers and tensioning screws in the anchoring

Step 1: Insert bolt "F" in the outermost vacant holes in the anchor rods.
Step 2: Insert the tensioning screw. The closer the anchor rods are pushed together, the higher the tip of the jib is raised. **The position of the jib can be fine-adjusted by moving the rods together or apart.**



4.9 Aligning the jib

The jib with attached hoist must be aligned in such a way that it remains stationary at every position within the operating range. If this is not the case, loosen the nuts on the anchoring and proceed as described in Item 4.6 until the jib is aligned correctly.

5. SERVICING AND MAINTENANCE

- > Maintenance work may only be undertaken by qualified personnel. All other persons are prohibited from such activities.
- > Before commencing maintenance work, the power supply must be disconnected and moving parts must be fixed in place and secured. Similarly, accidental reconnection to the power supply must be made impossible.
- > In order to prevent accidents, only approved and suitable tools may be used when working on the systems.
- > Extreme heat (e.g. welding) should be avoided when using cleaning materials on the systems. The same applies for proximity to readily combustible or heat-sensitive components (e.g. plastics). Failure to observe this point will lead to a risk of fire wherein the release of toxic gases is possible.
- > The running surfaces of the trolleys in the extrusions must be kept clear of dirt.
- > Contact with concentrated bases and acids can lead to dangerous degradation and corrosion of the crane; if necessary, affected parts should be replaced immediately.
- > The intervals and procedures for maintenance work, as they are described in the operating instructions, must be adhered to. The same applies for intervals relating to the replacement of spare parts and wear parts.
- > Only original FIPA spare parts may be used.
- > Tightening torques for screws and installation data for any spare parts can be found in the assembly instructions.
- > Locknuts should be replaced after the fourth time of being unscrewed. They must not be replaced with normal nuts.
- > The manufacturer must be allowed to inspect the installed aluminium extrusions of the crane system(s) after an operating life of 15 years with regard to their remaining service life.

6. SERVICE LOG

Service log (maintenance instructions)

> **The service log must be completed and kept safe by the customer and presented as required.**

The specified inspection intervals are valid for FIPA crane systems in single-shift normal operation. In the case of multi-shift operation and in difficult conditions, such as extreme heat or aggressive atmospheres, shorter servicing intervals are necessary.
The service log must be kept safe by the customer and presented as required.

Type of inspection:
A: Visual inspection; check components for damage
B: Mechanical inspection; check components for mechanical damage/faults (e.g. tighten screws)
C: Ergonomic inspection; check the smooth running and practical usability of the product

Copy this page for use during the next inspection. You can download this page under "Info & Catalogs" on our homepage www.fipa.com.

No.	Type	Inspection characteristic	Inspection intervals			Checked		Findings	Next inspection
			3 months	6 months	12 months	on:	by:		
1-Entire system									
1. 1	A	Overall impression of the system, ask operating personnel about deficiencies		x					
2-Column									
2.1	B	Inspect slide bushing and disc for wear			x				
2.2	A	Inspect column for deformation and damage			x				
2.3	A, B	Inspect screws and anchors			x				
3-Running rails									
3.1	A	Inspect the aluminium extrusions for damage or deformation (in particular after being transported by a forklift)			x				
3.2	A	Clean the running surfaces in the extrusions and inspect for wear			x				
3.3	A, B	Inspect the stops and buffers for wear, tighten screws and inspect retaining clips			x				
4-Trolleys									
4.1	A	Inspect all trolleys for damage (in particular at load-bearing points)			x				
4.2	A, C	Check all rollers for smooth, quiet running and wear			x				
4.3	A, C	Check side pinch rollers for smooth running and wear			x				
4.4	A	Check wear on the suspension bolts, max. 1 mm in diameter			x				
4.5	A	Check retaining clips on the suspension bolts			x				
4.6	A	Check the connectors between trolleys and lifting equipment			x				
5-Trailing line power supply									
5.1	A	Check damage and route of the line (kinks), clamping of the line in the trolley			x				
5.2	B	Wear and running characteristics of the cable trolleys			x				
5.3	A	Seat of cable driver and end clamps			x				

7. ACCEPTANCE INSPECTION

The personnel responsible for performing the inspection, e.g. the crane driver, must be sufficiently qualified to undertake this activity.
The acceptance inspection of the crane system must be performed before initial commissioning by the inspector. Ensure that no person is put at risk during the inspection.

The following points must be performed during the inspection:

- > Check the inspection log, from page 21.
- > Inspection for compliance with any safety regulations (UVV BGV D 6, safety clearances, etc.)
- > Check that the fully assembled system conforms to the given technical specifications.
- > Ensure that the power supply is correctly installed and the operating sequence cannot be impeded.
- > Check for compliance with any safety regulations to be complied with, e.g. accident prevention regulations.
- > Inspect the safety devices and check all measures.
- > The results of the inspection must be documented in the inspection log book.
- > The inspector must make a decision on commissioning.
- > If defects are discovered during the course of the inspection, the operator has to ensure they are redressed immediately. The inspector has to decide whether a new inspection should be performed following remedy of defects.

Acceptance inspection after a substantial change
If substantial changes have been made to the system, an acceptance inspection must be drawn up by the inspector before the system is re-commissioned. The sequence is the same as the inspection before the initial commissioning.

Regularly recurring inspection
The system must be inspected by a trained inspector according to the conditions of use (utilisation of the max. load capacity, operating frequency and the environmental conditions). A system with a large number of operating hours that is mainly operated at full load should be inspected more frequently than, for example, a system that is only used occasionally.
Dusty or aggressive atmospheres can also shorten the inspection interval. The inspection periods vary from the maximum inspection period of 1 year and therefore should be specified in consideration of the conditions of use, and in consultation with the manufacturer in case of doubt.

The results of this inspection must be documented in the crane inspection log book.

Basically the recurring inspection must include:

- > Check the identity of the system against the details in the inspection log book.
- > Inspect the condition of components and equipment in terms of damage, wear, corrosion and other changes.
- > Check the completeness and effectiveness of the safety equipment.
- > Re-inspect if defects affecting safety have occurred and have been rectified.

INSPECTION DOCUMENTS AND INSPECTION LOG BOOK

Inspection before initial commissioning or after retrofit
in accordance with UVV for cranes Section 25 BGV D6 (accident insurance regulations)

Inspection before initial commissioning has been performed.

For commissioning there are

- ☐ no reservations
- ☐ reservations, see inspection sheet for reasons (page 19)

Re-inspection is

- ☐ not necessary
- ☐ necessary

Place, date	Signature of the inspector	BG-Z No. (stamp controller)

Re-inspection (if required)

Place, date	Signature of the inspector	BG-Z No. (stamp controller)

Inspection log book for recurring inspections

The inspection log book must be stored carefully and presented to supervisory authorities on request.

Manufacturer: FIPA challenge accepted	Installation company:	Date:
FIPA GmbH Freisinger Strasse 30 D-85737 Ismaning, Germany Tel.: +49 89 962489-0 Fax: +49 89 962489-11		FIPA project number:

Comments	**Name and company of the inspector**
The recurring inspection in accordance with the *maintenance instructions* has been performed. - No - defects were identified (see inspection findings report number _____)	--- Date / Signature
The recurring inspection in accordance with the *maintenance instructions* has been performed. - No - defects were identified (see inspection findings report number _____)	--- Date / Signature
The recurring inspection in accordance with the *maintenance instructions* has been performed. - No - defects were identified (see inspection findings report number _____)	--- Date / Signature
The recurring inspection in accordance with the *maintenance instructions* has been performed. - No - defects were identified (see inspection findings report number _____)	--- Date / Signature

Comments	**Name and company of the inspector**
The recurring inspection in accordance with the *maintenance instructions* has been performed. - No - defects were identified (see inspection findings report number _______________________)	-- Date / Signature
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Comments	**Name and company of the inspector**
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Notes

Notes

Notes

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FIPA
challenge accepted