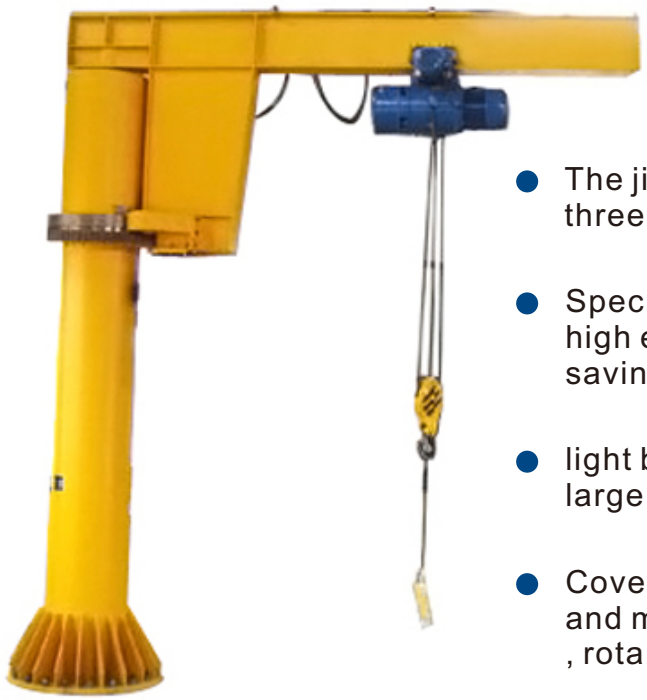
河南德钧实业有限公司
Henan Dejun Industrial Co.,Ltd

Jib Crane Specification



- The jib crane can be used freely in three dimensional space.
- Special structure, safe & reliable, high efficiency, energy and time saving.
- light body weight, moving flexible, large operating space.
- Cover an small area, easy operation and maintenance, economic durable , rotary flexible.

Part 1 Product Overview

Main Classification

(1) BZ Type Pillar Jib Crane, Lifting capacity: 0.5t-5t, lifting height:1m-10m, Working class: light (A3)
(2) BX Type Mural Jib Crane, lifting capacity 0.25t-1t, lifting height 1m-10m,Working class A3
(3) BB Type Wall-travelling Jib Crane,lifting capacity 0.5t-16t, lifting height 6m-30m,Working class A3

Application

(1) Widely used in workshop, storage, yard and some other fixed place
(2) Especially used for lifting in short-distance or serried place
(3) Forbidden to use it in inflammable, explosive corrosive condition

Main Features

(1) The jib crane is developed in recent years, can be used freely in three dimensional space
(2) Special structure, safe & reliable, high efficiency, energy and time saving
(3) Light body weight, moving flexible, large operating space
(4) Cover an small area, easy operation and maintenance, economic durable, rotary flexible

Application Scope and Condition

Ambient temperature: -25℃～+40℃, humidity ≤85%, elevation below 1000m, Power is 3-PH, 380V、50HZ(also can accord to client's requirement).

Standards

(1) GB3811-2008 "Crane Design Standards"
(2) GB6067-85 "Crane Machinery Safety Procedures"
(3) GB5950-86 "Crane Test Specification and Procedures"
(4) JB8906-1999 "Jib Crane"

Loaded Test

Unloaded Test

When unloaded, operate the lifting, rotating, travelling, moving, test their limiter device. Each test should operate three rounds.
1) Operating Standard: each mechanism is stable, no crawl, shake, clash, overheat, abnormal noise. No oil-leak on the moving parts.

2) The controlling system is reliable and accurate.
3) All the limiters on lifting,travelling and moving are reliable and accurate.
4) Rotating, lifting height, working radius are all in allowed scope.

Rated Loaded Test

According to rated loaded capacity demanding, start the operations of lifting, rotating, moving, travelling. At same time test the trip limiter. This step should repeat three rounds. And test if it comply the requirements of following:
1) The deflection corresponds to national rule.
2) All the speeds of lifting, rotating and travelling must be in allowed range.
3) Lowest dropping speed must be in allowed range(not include the variable speed)
4) Noise must be in allowed scope.
5) No-defection for main components.

Fixed loaded Test

Make the lifting weight is 1.25 times of rated capacity, comply to GB/T5905 standard to test:
1) the load-carrying parts without eternal shape distortion and damage.
2) No crack welding line
3) Joint without shake
4) The main parts without damage

Moving loading Test

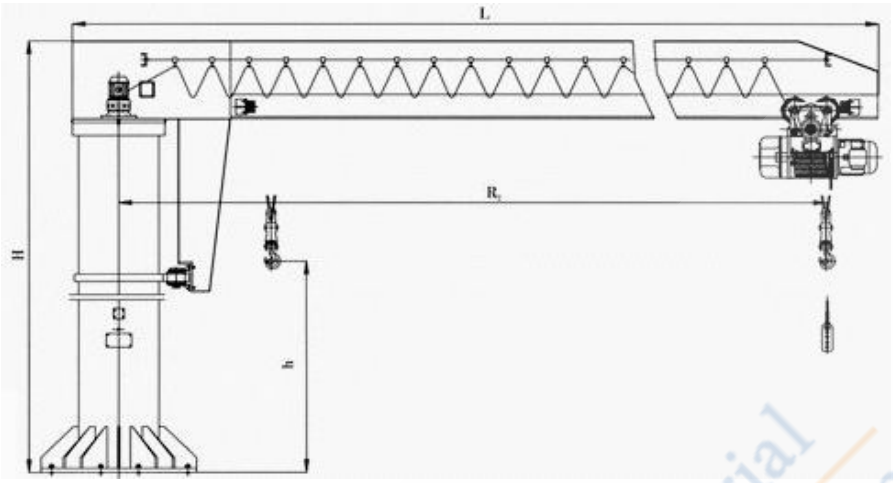
When 1.1 times of rated lifting capacity, according to GB/T5905 standards test:
1) Operating Standard: each mechanism is stable, no crawl, shake, clash, overheat, abnormal noise. No oil-leak on the moving parts.
2) The controlling system is reliable and accurate.
3) Reliable braking
4) Various spare parts and institutions without shake, damage and abnormal sound

Part 2 Pillar Jib Crane

Overview

(1) The Pillar jib crane is a Energy Saving And Efficient lifting equipment.
(2) Widely used in workshop, storage, mining and port
(3) Consisted with up-pillar, down-pillar, main beam, bar, electric hoist, rotating mechanism and electric system.

Overall Organization Drawing



Parameter

BZ Type Pillar Jib Crane 0.5t				
Lifting height	h（m）	5	5.5	6
Effective radius	R（m）	4	4.5	5
Lifting speed	m/min	8	8	8
Travelling speed	m/min	20	20	20
Rotating angle	°	arbitrarily	arbitrarily	arbitrarily
Rotation speed	r/min	0.7	0.7	0.7
Overall height	H(m)	5.93	6.43	6.93
Overall length	L(m)	4.59	5.09	5.59
Total weight	kg	1733	1933	2028

BZ Type Pillar Jib Crane 1t				
Lifting height	h（m）	5	5.5	6
Effective radius	R（m）	4	4.5	5
Lifting speed	m/min	8	8	8
Travelling speed	m/min	20	20	20
Rotating angle	°	arbitrarily	arbitrarily	arbitrarily
Rotation speed	r/min	0.7	0.7	0.7
Overall height	H(m)	5.987	6.487	6.987
Overall length	L(m)	4.61	5.11	5.61
Total weight	kg	1860	1960	2229

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BZ Type Pillar Jib Crane 2t				
Lifting height	h（m）	4	4.5	5
Effective radius	R（m）	4	4.5	5
Lifting speed	m/min	8	8	8
Travelling speed	m/min	20	20	20
Rotating angle	°	arbitrarily	arbitrarily	arbitrarily
Rotation speed	r/min	0.7	0.7	0.7
Overall height	H(m)	5.28	6.78	6.28
Overall length	L(m)	4.626	5.126	5.626
Total weight	kg	2478	2613	2748

BZ Type Pillar Jib Crane 3t				
Lifting height	h（m）	4	4.5	5
Effective radius	R（m）	4.5	5	5.5
Lifting speed	m/min	8	8	8
Travelling speed	m/min	20	20	20
Rotating angle	°	arbitrarily	arbitrarily	arbitrarily
Rotation speed	r/min	0.7	0.7	0.7
Overall height	H(m)	5754	6254	6754
Overall length	L(m)	5820	6320	6820
Total weight	kg	3400	3577	3742

BZ Type Pillar Jib Crane 5t				
Lifting height	h（m）	4	4.5	5
Effective radius	R（m）	4.5	5	5.5
Lifting speed	m/min	8	8	8
Travelling speed	m/min	20	20	20
Rotating angle	°	arbitrarily	arbitrarily	arbitrarily
Rotation speed	r/min	0.7	0.7	0.7
Overall height	H(m)	6052	6522	7022
Overall length	L(m)	5440	5940	6440
Total weight	kg	4020	4224	4430

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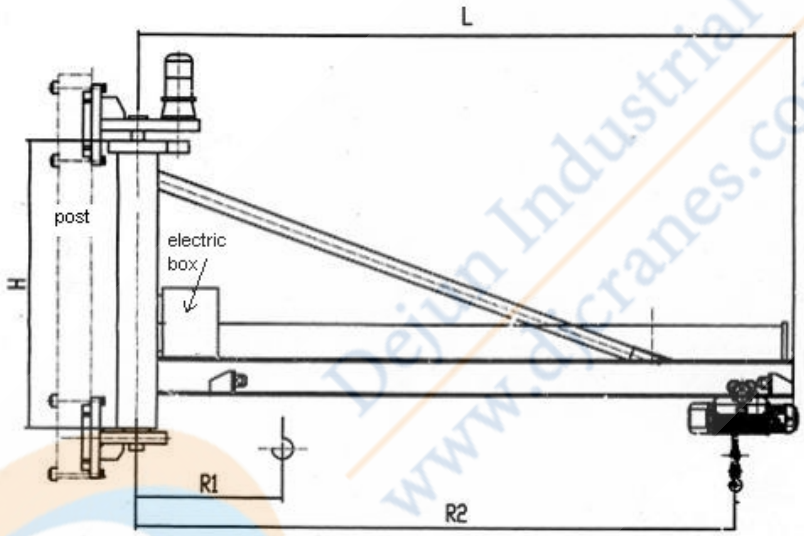
Part 3 Mural Jib Crane

Overview

(1) It is also called wall type jib crane or Mural Jib crane.
(2) Support,jib device and lifting device.
(3) The lifting device include electric hoist and chain block
(4) The jib is fixed on wall or concrete pillar, rotating can be planned by client's requirement.
(5) The rotating device is operated by hand or electric.

Structure Sketch



Parameter

BX Type Mural Jib Crane 0.25t				
Lifting height	h（m）	5	5.5	6
Effective radius	R（m）	4	4.5	5
Lifting speed	m/min	8	8	8
Travelling speed	m/min	20	20	20
Rotating angle	°	arbitrarily	arbitrarily	arbitrarily
Overall height	m	1.2	1.2	1.2
Overall length	m	4.326	4.826	5.326
Total weight	kg	343	362	378

BX Type Mural Jib Crane 0.5t				
Lifting height	h（m）	5	5.5	6
Effective radius	R（m）	4	4.5	5
Lifting speed	m/min	8	8	8
Travelling speed	m/min	20	20	20
Rotating angle	°	arbitrarily	arbitrarily	arbitrarily
Overall height	m	1.6	1.6	1.6
Overall length	m	4.43	4.93	5.43
Total weight	kg	389	405	420

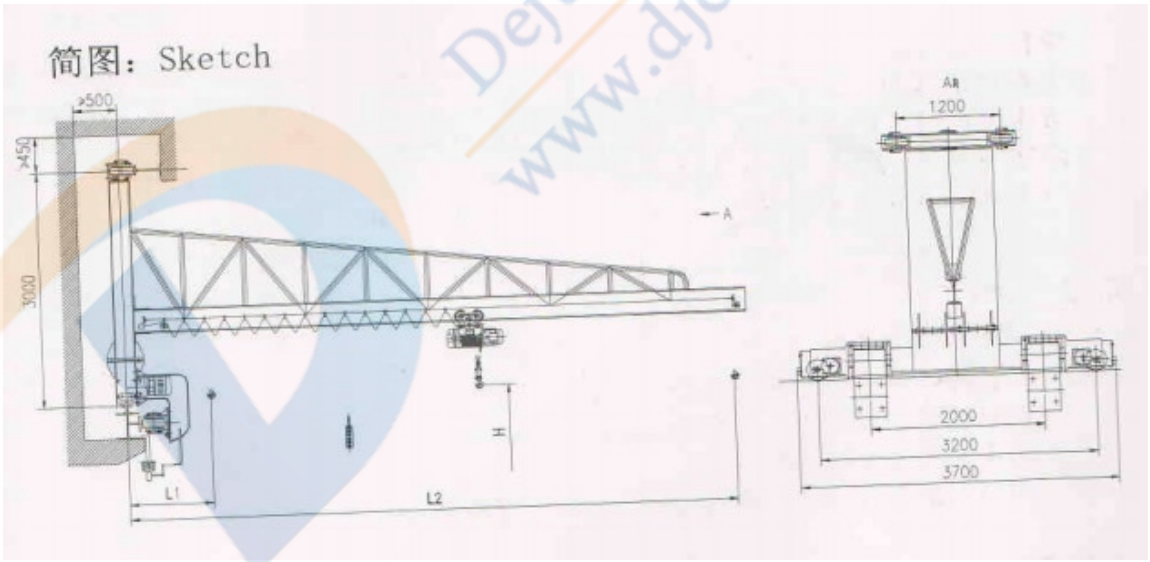
BX Type Mural Jib Crane 1t				
Lifting height	h（m）	5	5.5	6
Effective radius	R（m）	4	4.5	5
Lifting speed	m/min	8	8	8
Travelling speed	m/min	20	20	20
Rotating angle	°	arbitrarily	arbitrarily	arbitrarily
Overall height	m	2.56	2.56	2.56
Overall length	m	4.525	5.025	5.525
Total weight	kg	768	782	810

Part 4 Wall-travelling Jib Crane

Overview

(1) A new type material lifting device, designed based onmural jib crane.
(2) Its rail is installed on concrete post in workshop, it can move on longitudinal direction, at the same time, the electric hoist can achieve the horizontal direction off the jib and the vertical lifting direction.
(3) This crane greatly expand and make full use of the work space, which is more convenient to use.
(4) Used in workshop or storage, where is wide and high. If it is near to wall, it is applied to work in high frequency.
(5) The crane is usually used matching with bridge crane on ceiling. It is placed near to wall working in a cuboid space, mainly lift light objects.

◆ Structure Sketch



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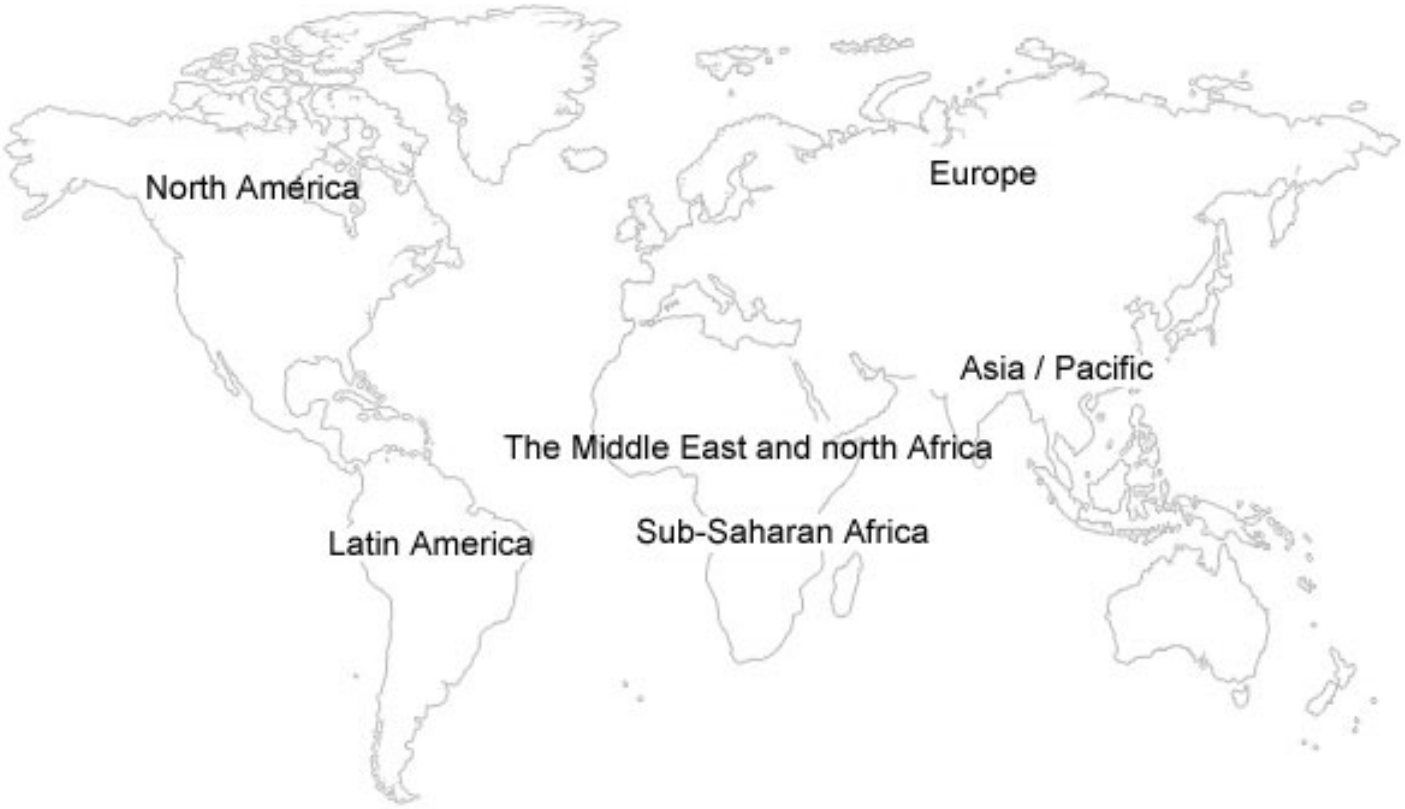
Parameter

BB Type Wall-travelling Jib Crane 0.5t				
Lifting height	h（m）	6	9	12
Maximum cantilever	R1（m）	5	6	7
Minimum cantilever	R2（m）	1	1	1
Lifting speed	m/min	8	8	8
Trolley speed	m/min	20	20	20
Travelling speed	m/min	30	30	30

BB Type Wall-travelling Jib Crane 1t				
Lifting height	h（m）	6	9	12
Maximum cantilever	R1（m）	5	6	7
Minimum cantilever	R2（m）	1	1	1
Lifting speed	m/min	8	8	8
Trolley speed	m/min	20	20	20
Travelling speed	m/min	30	30	30

BB Type Wall-travelling Jib Crane 2t				
Lifting height	h（m）	6	9	12
Maximum cantilever	R1（m）	5	7	9
Minimum cantilever	R2（m）	1.2	1.2	1.2
Lifting speed	m/min	8	8	8
Trolley speed	m/min	20	20	20
Travelling speed	m/min	30	30	30

BB Type Wall-travelling Jib Crane 3t				
Lifting height	h（m）	6	9	12
Maximum cantilever	R1（m）	5	7	9
Minimum cantilever	R2（m）	1.2	1.2	1.2
Lifting speed	m/min	8	8	8
Trolley speed	m/min	20	20	20
Travelling speed	m/min	30	30	30



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Tips:
You can use the phone dimensional code recognition software to scan the right side of the two-dimensional code, to quickly and easily access our web site for more information.