HANGZHOU TRUEMAX MACHINERY & EQUIPMENT CO., LTD.
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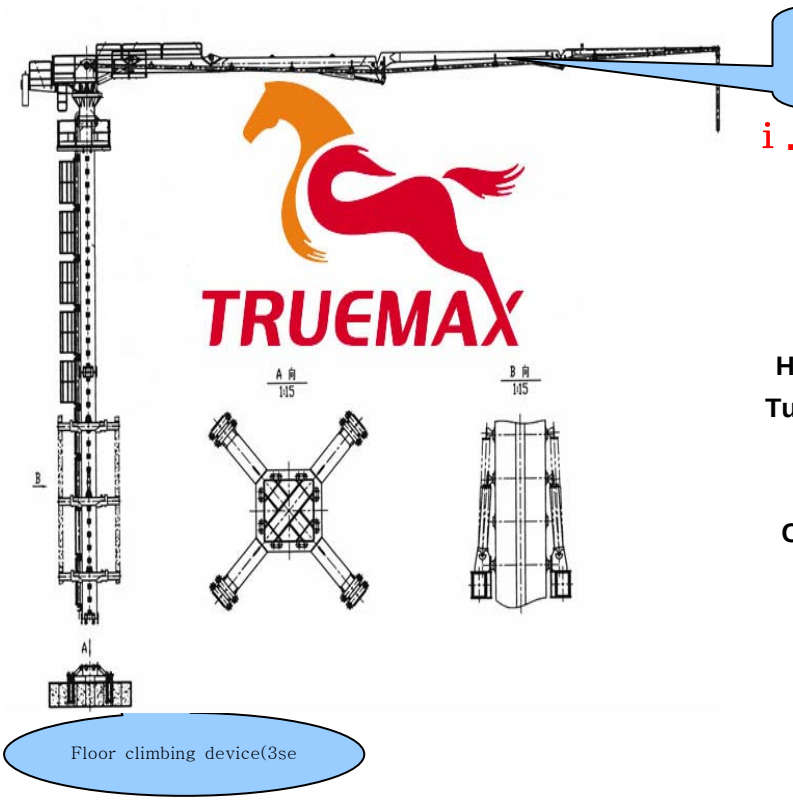
TRUEMAX HG32M (Concrete Placing Boom)



i. Main component:

Boom assembly,*
Platform of boom,*
Swivel table,*
Slewing ring support,*
Hydraulic control system,*
Tubular column assembly,*
Electrical system,*
Climbing device,*
Cruciform base template,*
balance arm.*
Detail as the scope of supply.

ii. Arrangement table of main component

No.	Name	Card	country
1	Solenoid directional valve	Rexroth/Atos	Germany/Italy
2	Twin throttle check valve	Rexroth/Atos	Germany/Italy
3	Pressure relief valve	Rexroth/Atos	Germany/Italy
4	Slewing cushion valve	Oil Control	Italy
5	Balance valve	Oil Control	Italy
6	Oil pump		China
7	Hydraulic hose	MaNuLi	Italy
8	Joint	EMC	U.S.A
9	Cable remote controller		China
10	Radio remote controller		Taiwan

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iii. Main Technical Specifications

Model		TMHG32
Delivery pipe dimension (outside diameter×thickness) JJ83（mm×mm）		Φ134×4
Delivery hose dimension (inside diameter×length) （″×mm）		5″×3000
Radius of placing boom(m)		**31.7**
Stationary height(to the join between the end of the boom and Swivel table (m)		22.9
Three hydraulic foldable arms	1st section	14.5m
	2nd section	9.2m
	3rd section	8.0m
Boom articulation	1st section	－4.2° ~ ＋82.5°
	2nd section	0° ~ 180°
	3rd section	0° ~ 180°
Slewing range(°)		360
Power of motor(kW)		**15**
Pressure of hydraulic system (MPa)		28
Type of hydraulic oil		ESSO NUTO H46
climbing	working pressure (MPa)	25
	climbing speed (m/min)	0.56
Mode of operation		cable remote control radio remote control
power		380V/50Hz
wind speed	Placing concrete	≤60 km/h
	Climbing	≤28 km/h
working temperature		0 ~ 48℃

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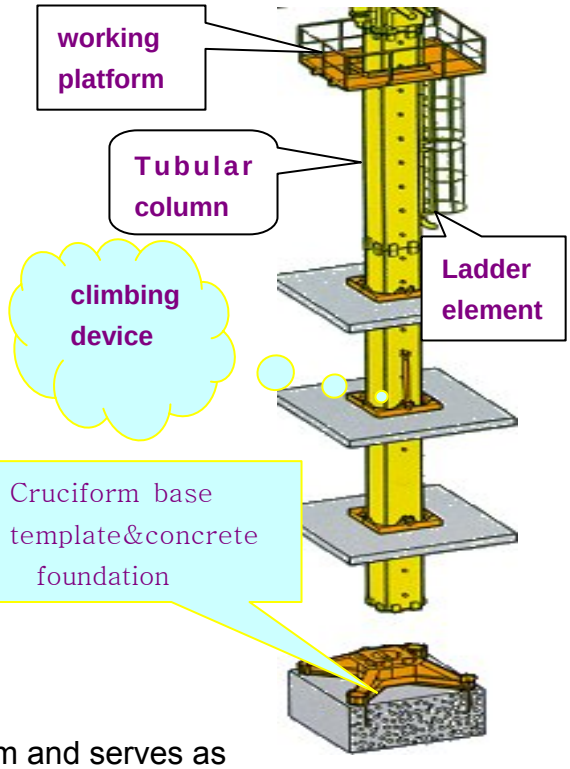
iv. Introduction of the TRUEMAX HG32M

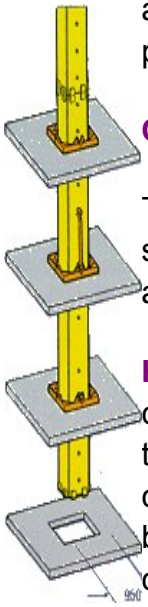


The climbing boom moves after the initial phase from built-on climbing device through the floors to the higher floors that still have to be built

Tubular columns with 10m length were coupled with bolts. They can be mounted quickly and easily to any height up to 20 m.

Ladder elements with 2 m length are simply plugged in along the pipe column and make safe access to the working platform possible.

The plugged-together **working platform** surrounds the head piece of the tubular column substructure. It is the platform when connecting up the boom and serves as access for the installations and gives a good view of the concreting points



Cross bases for safe anchoring in concrete foundation.

The **three floor frames** needed are used when climbing through small openings in the floor. they serve to clamp the tubular column and for receiving the vertical loads

Hydraulic climbing device is required for climbing when a construction site crane cannot be used or is not available to pull up the boom. Climbing is carried out simply and quickly by two lifting cylinders in follow-up method with the help of the hydraulics of the boom unit.. The concrete line is mounted on the tubular columns and climbs with it. The additional pipes with length compensation can easily insert.

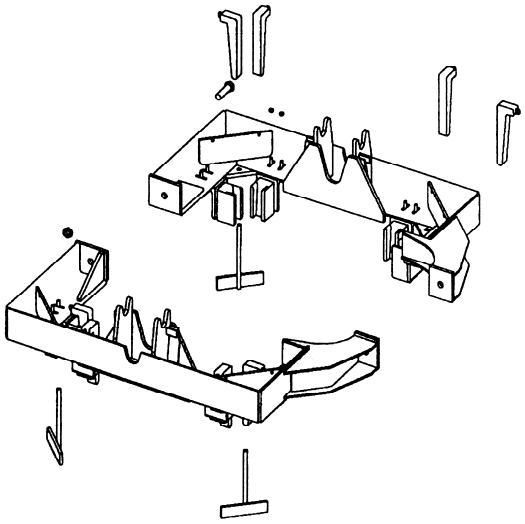
The tubular column boom is used in the initial phase for concreting the floors from 0-20M. It will be climbing when used in higher floor.

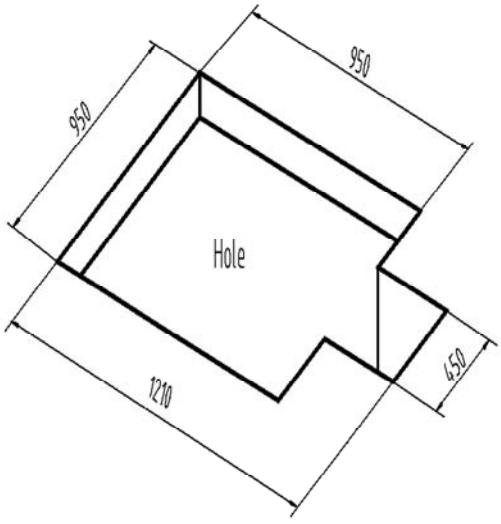
For large-section buildings, concrete must be placed quickly and economically. If **the reach of the truck-mounted concrete pumps and their**

possibilities are no longer adequate, tubular column booms offer themselves for concrete placement.

The boom always consists of twin tubular columns, a climbing system and a boom. In combination with a trailer or a truck mounted concrete pump, tubular column booms can be assembled for a great variety of efficient solutions that are ideal for the field. They shorten construction time when placing concrete and increase the placing performance.

Ⅴ. The climbing system





The climbing device install on the hole which is prepared on floor.

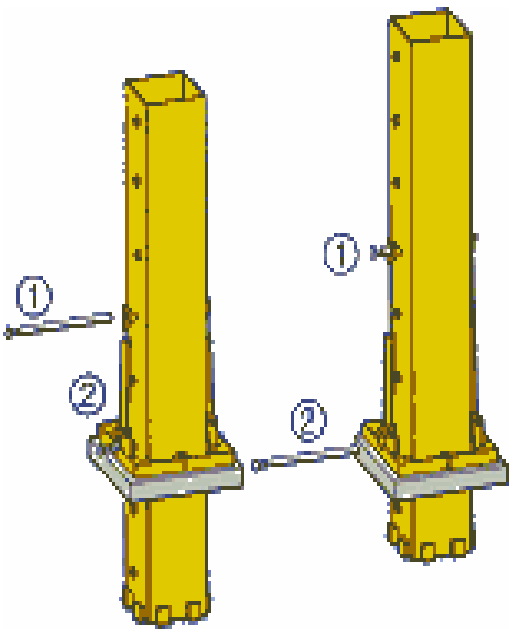
The detail of TRUEMAX HG32M floor frame placing boom climbing

1. Plugging-in of the climbing cylinders and push in the bolts 1.

2. Extend the climbing cylinder (100 mm), Make sure the system is OK. Extend the cylinder till about 520mm. Insert the bolt 2 into the hole in tubular column and retract the cylinder slowly.

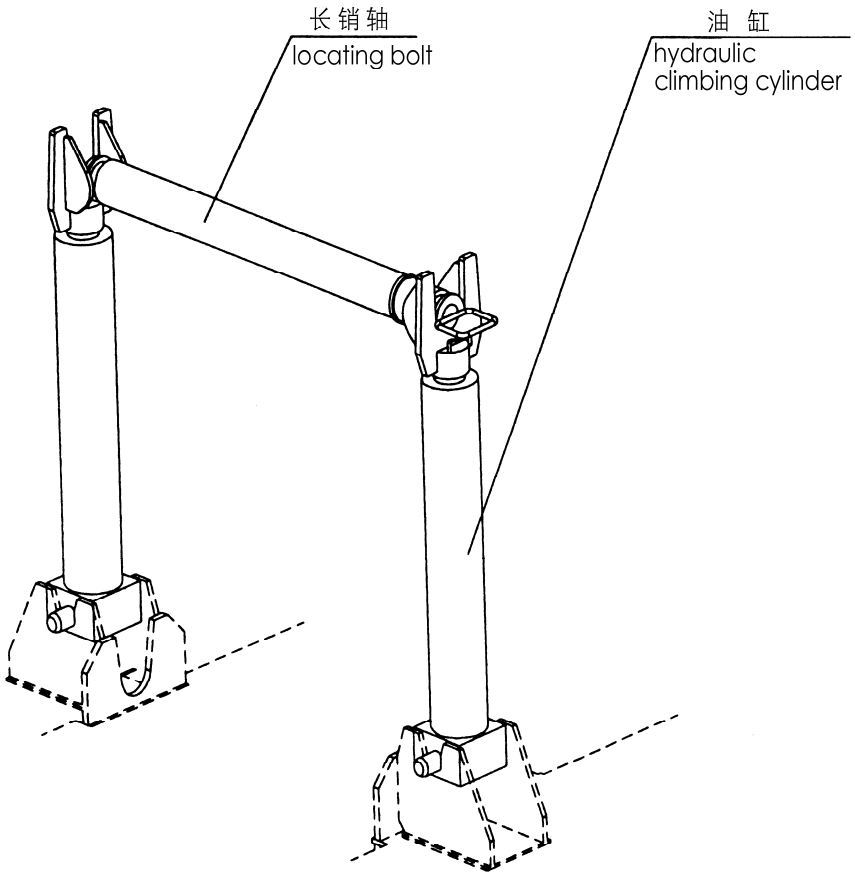
3. Bolting through bolt 2 onto the floor frame and driving in of the climbing cylinders.

4. Repeat the operation.



2 Hydraulic climbing cylinder

Two hydraulic climbing cylinders whose rated pressure is 16Mpa should be installed on the seat of the two main support bar of the mid-frame, which must be ensured work synchronously. The balance valve relief pressure is 22Mpa.



Locating bolt

Locating bolt is mainly used to transfer vertical loads. For easy inserting and p ulling out, there is a clasp at one side.

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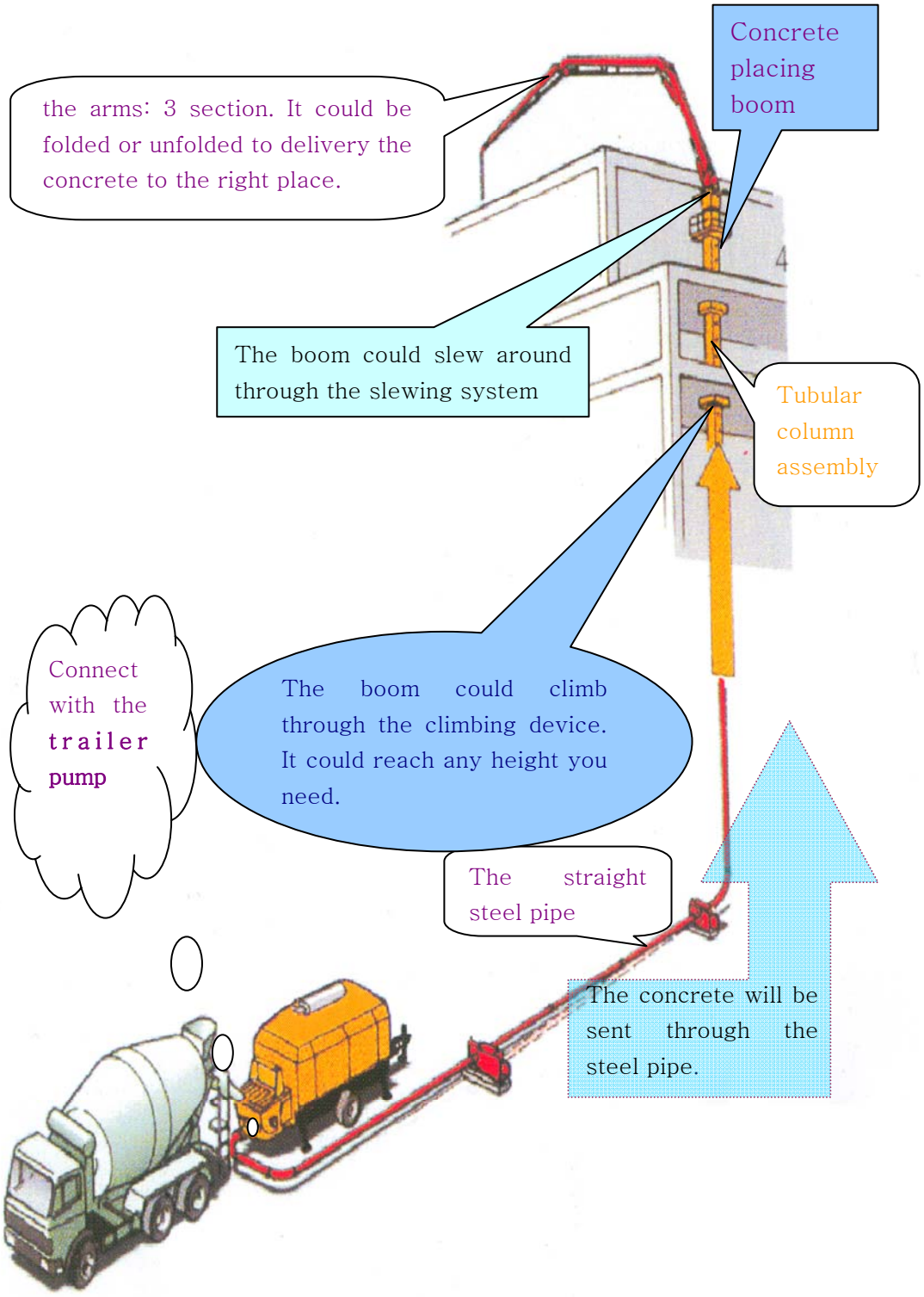
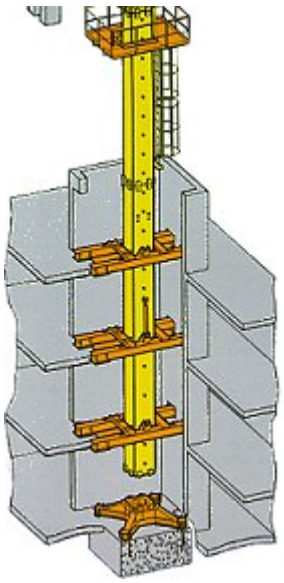
vi.The introduction of the working detail



vii. Option: the wall frame climbing system



The **three wall frames** for climbing through shafts are also used alternatively like the floor frames. The dimensions of the frames are adapted to the size of the shafts.(optional)

Hydraulic climbing device is required for climbing when a construction site crane cannot be used or is not available to pull up the boom. Climbing is carried out simply and quickly by two lifting cylinders in follow-up method with the help of the hydraulics of the boom unit. The concrete line is mounted on the tubular columns and climbs with it. The additional pipes with length compensation can easily insert.

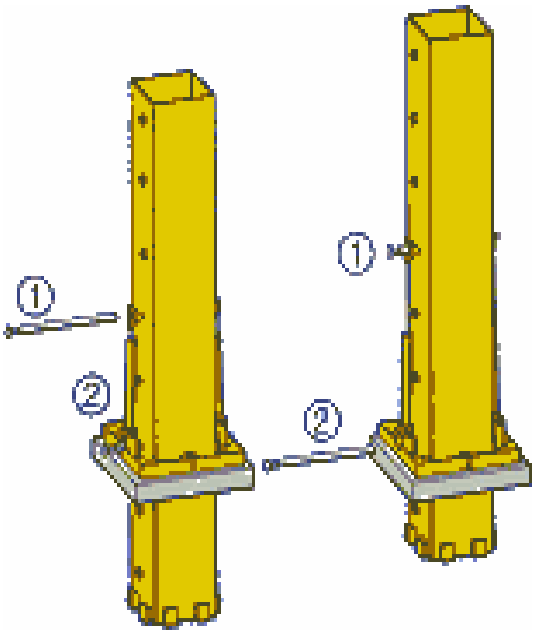
The detail of wall frame placing boom climbing

1. Plugging-in of the climbing cylinders and push in the bolts 1.

2. Extend the climbing cylinder (100 mm), Make sure the system is OK. Extend the cylinder till about 520mm. Insert the bolt 2 and retract the cylinder slowly.

3. Bolting through bolt 2 onto the floor frame and driving in of the climbing cylinders.

4. Repeat the operation.



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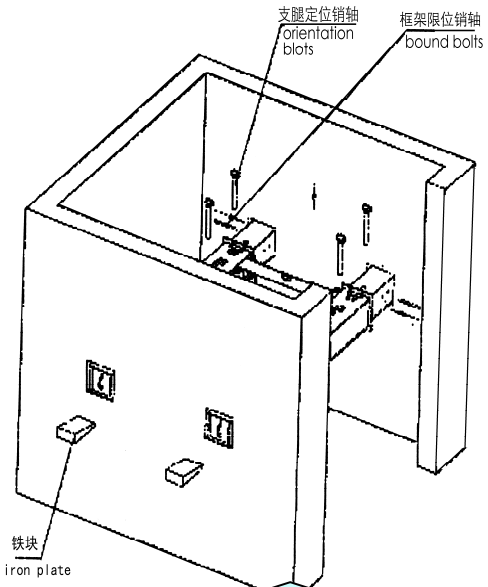
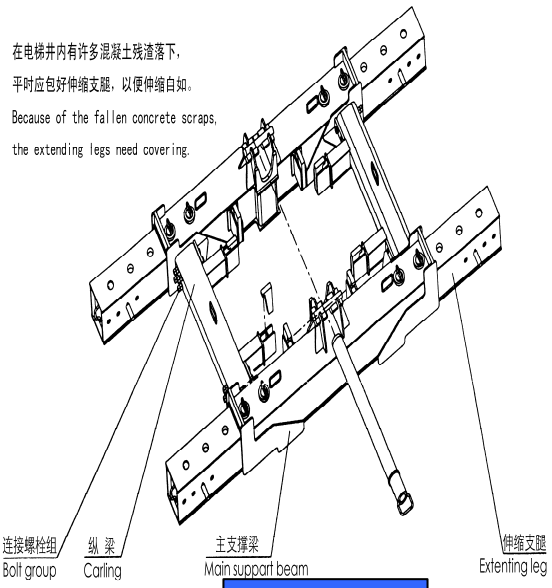
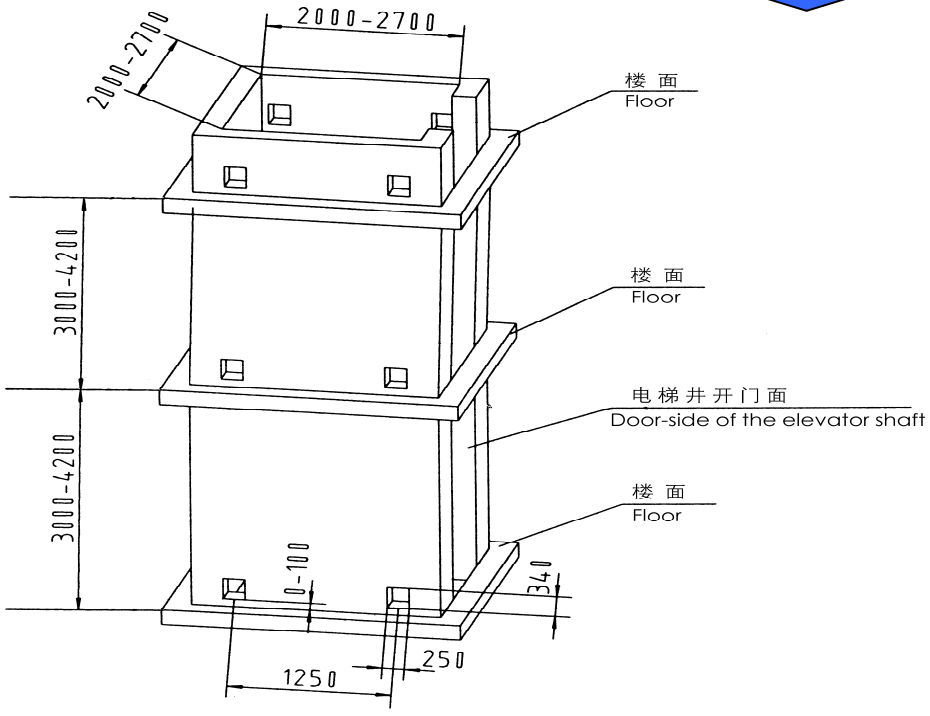


Fixed the climbing frame



The device should be installed in the wall



Note: the dimension should special design if the dimension of the elev ator shaft well is not 2.0≈2.7m.