ALIKRAFT ENGINEERS PRIVATE LIMITED

(An ISO 9001-2008 certified company)

WORKS / REGISTERED OFFICE
Block No.: 826, At & Post.: Samlaya,
Samlaya-Savli Road,
Tal.: Savli, Dist.: Vadodara-391 520,
Gujarat, India
Tel.: +91-2667-292029
E-mail: aepl@alikraft.com,
Web: www.alikraft.com

BRANCH OFFICES

BANGALORE:
1667, Pipeline Road, Prashanth Nagar,
T. D. Halli, Bangalore-560 057
+91 - 9986162361

CHENNAI:
Karthik Appartments, Plat No. 52,
Nelson Manickkam Road,
Choolaimadu Near Numgambakkam Railway Station
Chennai-Tamilnadu 600 094
+91 - 9099034987

KOLKATA:
Swagat Jyoti, DB-47, Block-A, Flat No. 4A,
Shastri Bagan, Baguihati, Kolkata-700 059
+91 - 9830502557

GURGAON:
C-001, Sun City Heights, Sector-54,
Gurgaon-122002
+91 - 9818700211

HYDERABAD:
Plot No. 10, 1st Floor, Park Avenue Colony,
Ameerpet, Hyderabad-500016, Telangana
+91 - 9347885705

MUMBAI:
302, Shree Ganesh Podma Building,
C 'Wing" Ganesh Nagar
Near Ragai Mata Mandir
Dombivili West
Mumbai-421 202
+91 90990 34986 / 96192 91381

ALIKRAFT

HOIST & ELEVATOR

ISO 9001 CERTIFIED ORGANIZATION

IAR International Accreditation Registry

Alikraft Engineers Private Limited

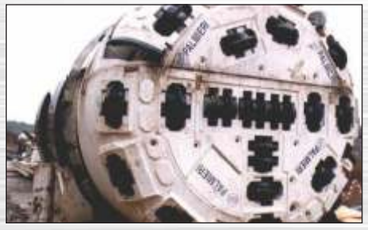
The current range of products manufactured by Alikraft includes

established in the year 2010 with vision to provide best & safe Rack & Pinion type PM Elevator. Alikraft is now the flagship company and leading manufacturer in India to provide the solution to the industries & infrastructure segment. The company is accredited with ISO-9001:2008, certification from QSI, Florida, USA and has competent engineering skills namely structural design capability, quality manufacturing, standardized bought out components, strict quality assurance, approved testing procedures. In short span of time "Alikraft" have created faith and goodwill with customers and looking to the enormous growth, set up a new plant of state-of art technology at Samlaya near Vadodara.

With economic liberalization and globalization of India economy and a deep understanding to the customer needs, Alikraft has emerged as a market leader and added more SBU in company.

Shaft Raising Platform

Shotcreting Machines & Systems
(Technical Knowhow from SIKA- Switzerland)



Tunneling Cutters
(Technical Knowhow from Palmieri- Italy)

Muck Car
(Technical Knowhow from Palmieri- Italy)

Segment Car
(Technical Knowhow from Palmieri- Italy)

Pressure / Thermal / Screwed / Creep Relief / Safety Valves in accordance with API-526

ALIKRAFT PHILOSOPHY

MISSION STATEMENT

Alikraft mission is to achieve excellence in Service, Quality, Reliability, Safety, Customer Satisfaction and Build long lasting customer relationship that will make us preferred supplier.

ORGANIZATION VALUES

Honesty and Integrity

Alikraft will act with absolute honesty and integrity in dealing with its customers, employees, vendors and society at large.

Care and Concern

Alikraft will always care for its customers by delivery value to them and delight them through quality products and services.

Team Work

Alikraft will encourage creativity and innovation across the organization and offer equal opportunity for growth to all employees through meritocracy, team work, commitment and discipline.

Trust and Reliability

Alikraft will always adopt fair practices and thereby will aim to become a symbol of trust and reliability of all customers, vendors and government bodies. We will strive to maximize value for our customer as well as vendors in a balanced manner.

ALIKRAFT'S STRENGTH

- Strong & well-experienced team
- Customized equipment
- On-time delivery
- Safety first, safety always
- PAN-India presence
- 24/7 service support

PERMANENT ELEVATOR

Alikraft model is the designation of a modular concept of Rack & Pinion Elevator & Hoist developed and designed for use in industrial environments. The lower capacity Elevator are perfect for personnel transportation and the bigger capacity Hoist are strong and spacious enough to carry materials of up to 2000 Kg weight. The range is thus extremely versatile.

RACK AND PINION

The Rack and Pinion system is simplicity beyond question; with a 100 percent mechanical efficiency to provide precise and positive control and operations for transportation to unlimited heights. Each and every rack segment and pinion is machined to produce the quality finish required for safe and positive operation.

RACK AND PINION ADVANTAGE

- Higher factor of safety.
- Greater resistance to windy and hostile environment.
- Low operational costs and minimal maintenance.
- Curved and inclined traveling possible.
- Suitable for external and internal applications.
- No machinery room is needed.
- Easy erection from cage roof.
- Modular interchangeable system for various combinations.
- No Ropes or Sheaves required.
- No restriction in lifting height.
- Easily be retrofitted to existing structure.

TECHNICAL SPECIFICATION PERMANENT ELEVATOR

Particulars	Unit	Model AK400	Model AK1000	Model AK1500	Model AK2000
Pay load capacity	Kg	400	1000	1500	2000
Cage internal Dimension (WxLxH)	M	1.0 x 1.1 x 2.1	1.3 x 2.2 x 2.1	1.3 x 2.5 x 2.1	1.3 x 3.0 x 2.1
Maximum Mast Height					
Flat Mast	M	300	-	-	-
Rectangular Mast	M	425	250	200	200
Square Mast	M	425	250	250	250
Speed at 50 Hz	m/min	28.0/40.0	28.0/40.0	28.0/40.0	28.0/40.0
Motors					
Power	KW	1 x 9.2	2 x 7.5/2 x 9.2	2 x 9.2/2 x 12.5	2 x 12.5/3 x 12.5
Weight					
Fast Mast	Kg	65	-	-	-
Rectangular Mast	Kg	110	110	110	110
Square Mast	Kg	130	130	130	130
Mast Length	M	1.508	1.508	1.508	1.508
Height required above top landing	M	4.5	4.5	4.5	4.5
Minium clear space required	M	1.5 x 1.5	2.9 x 3.0	3.2 x 3.0	3.7 x 3.0
Distance between cable guides	M	6/9	6/9	6/9	6/9
Distance between anchors	M	1.5	6/9	6/9	6/9

- Increased lifting height can be offered on request.
- Twin cage on single mast can be offered on request.
- Floor selection can be offered on request.

Specifications of products and equipment shown herein are subject to change without notice.

CONSTRUCTION HOIST

TECHNICAL SPECIFICATION CONSTRUCTION HOIST

Particulars	Unit	Model AK1000	Model AK1500	Model AK2000
Pay load capacity	Kg	1000	1500	2000
Cage internal Dimension (WxLxH)	M	1.4 x 2.2 x 2.4	1.4 x 2.5 x 2.4	1.4 x 3.0 x 2.4
Maximum Mast Height				
Flat Mast	M	-	-	-
Rectangular Mast	M	250	250	250
Square Mast	M	300	300	300
Speed at 50 Hz	m/min	28.0/40.0	28.0/40.0	28.0/40.0/51.0/63.0
Motors				
Power	KW	2 x 7.5/2 x 9.2	2 x 9.2/3 x 9.2	2 x 12.5/3 x 12.5/ 2 x 15/3 x 15
Weight				
Fast Mast	Kg	-	-	-
Rectangular Mast	Kg	110	110	110
Square Mast	Kg	130	130	130
Mast Length	M	1.508	1.508	1.508
Height required above top landing	M	4.5	4.5	4.5
Minium clear space required	M	3.3 x 3.2	3.6 x 3.2	4.1 x 3.2
Distance between cable guides	M	6/9	6/9	6/9
Distance between anchors	M	6/9	6/9	6/9

- Increased lifting height can be offered on request.
- Twin cage on single mast can be offered on request.
- Floor selection can be offered on request.

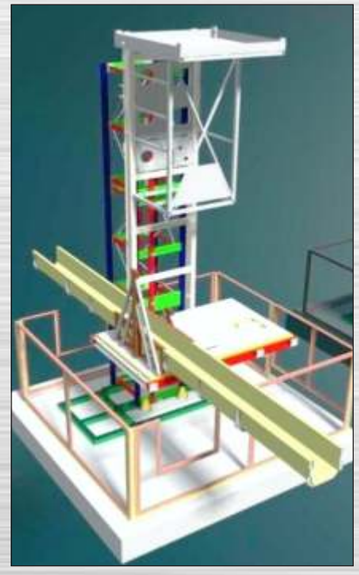
Specifications of products and equipment shown herein are subject to change without notice.

MATERIAL HOIST

In our Rack & Pinion series, we have three variants of load carrying capacity, 1 Tons (AK1000 MH), 1.5 Tons (AK1500 MH) & 2 Tons (AK2000 MH). By multi-functionality, we mean we have various accessories through which we can carry material, we have the cage to carry material like bricks, sand, mortar etc. We have a revolutionary horizontal rebar attachment for safe transit of steel bars. In addition to it, we have a Bucket Attachment with safety railing, which can carry labour through cage.

HORIZONTAL REBAR ATTACHMENT

Option of using easy to assemble & dismantable rebar Carrying attachment. Carries upto 9 mtr. Long rebar. The swing design makes it easy to load & unload the rebar's. The attachment reaches the desired floor, it has to be rotated using the lever extension provided. Heavy duty bearing a single man operator for rotation. Rebar limits switch, ensures the main supply to hoist is cut-off once rebar attachment leaves the parking position to avoid accident, once it is rotated to unload. The rotation is directed to reach a desired place for safe & convenient unloading. Easy & comfortable unloading of rebar is done by simply lifting the rebar & pulling it on the building.



TECHNICAL SPECIFICATION
MATERIAL HOIST

Particulars	Unit	Model AK1000 MH	Model AK1500 MH	Model AK2000 MH
Pay load capacity	Kg	1000	1500	2000
Cage Internal Dimensions (WxLxH)	M	2.0 x 1.3 x 1.2	2.2 x 1.3 x 1.2	2.5 x 1.3 x 1.2
Horizontal Steel Bar Carrying Attachment				
Capacity	Kg	1000	1500	2000
Bar Length	M	9	9	9
Floor type located at Below Bottom of cage	-	Yes	Yes	Yes
Safety Device (Fail safe progressive type positive action)	-	Yes	Yes	Yes
Digital Load Cell Indicator on Panel Door	-	Yes	Yes	Yes
Operation from ground only & VFD	-	Yes	Yes	Yes
Maximum Mast Height				
Square Mast	M	100	100	100
Speed at 50 Hz	M/Min	28.0	28.0	28.0
Mast Length	M	1.508	1.508	1.508
Motors				
Power	KW	2 x 7.5	2 x 9.2	2 x 12.5
Limit Switches				
Top & Bottom Limit	-	Yes	Yes	Yes
Entry & Exit Door	-	Yes	Yes	Yes
Over Travel	-	Yes	Yes	Yes
Re-Bar position	-	Yes	Yes	Yes
Height required above top landing	M	4.5	4.5	4.5
Minimumclear space required	M	3.3 x 3.6	3.5 x 3.6	3.8 x 3.6
Distance between cable guides	M	6	6	6
Distance between anchors	M	6	6	6

Specifications of products and equipment shown herein are subject to change without notice.

BUILT-IN SAFETY

The Elevator mast is provided with top and bottom limit cams. These cams will actuate limit switches fitted to the Elevator itself, making it stop automatically. A three-phase switch breaks the current if the normal control limit switches fail to function

The cage cannot climb off the mast, thanks to the safety hooks around the corner tubes of the mast.

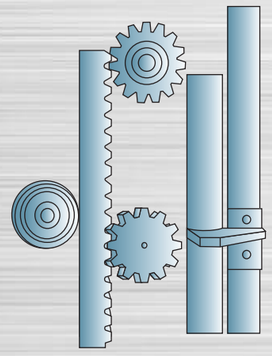
There are also strong buffer springs fitted at the bottom for extra safety.

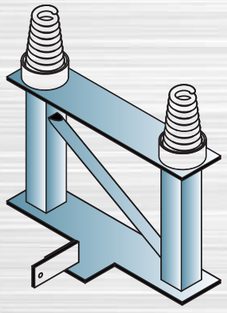
It is vital to have a safe way of stopping the Elevator cage, if the speed becomes high then rated speed. The Elevator has a safety device that brings the Elevator to a smooth stop.

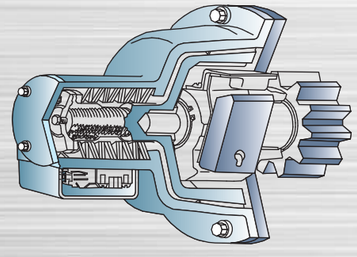
The pinion of the safety device is driven by the rack. At normal speeds, the centrifugal weight is retracted, allowing the pinion to rotate freely.

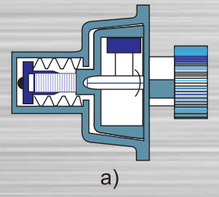
At excessive speeds, the centrifugal weight is thrown outwards and connects the pinion to the brake cone.

Which is screwed in against the brake drum. The Elevator is brought to a smooth halt, and simultaneously the power to the drive unit is cut off. It is simple to reset the safety device by using a tool provided in the cage.

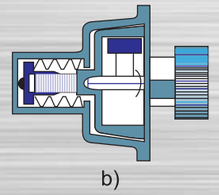




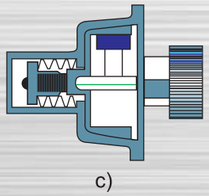




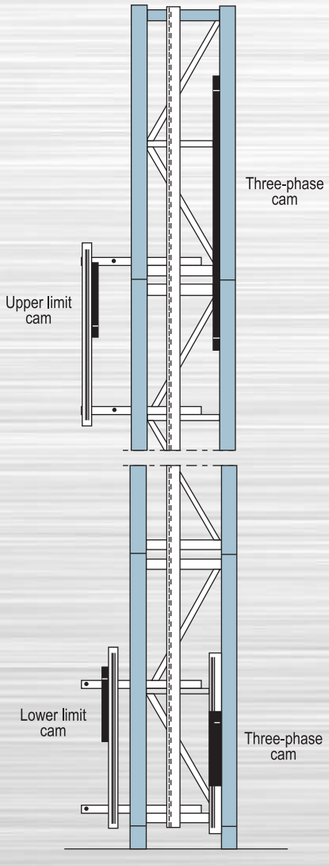
a)

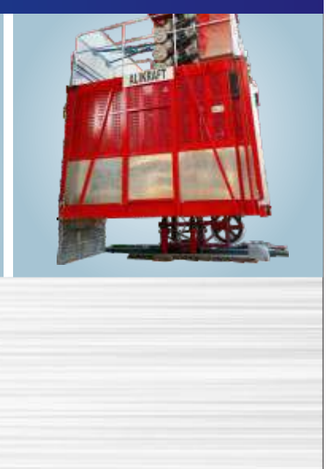


b)



c)



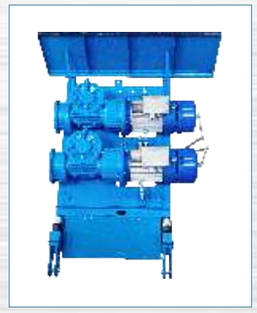


Modular system is built up around basic elements comprising of comprehensive range of masts, Elevators cages and drive units. This system enables Elevator to be tailored to suit almost any projects.

CAGES & MACHINERY

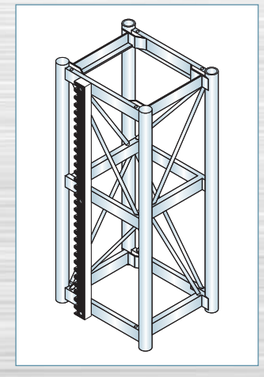
The Elevators are available in different cage dimensions. Due to the shape of the mast and cage, wind has minimal effect and least possible force is transferred to the wall. The cage can be fitted with different types of gates, interlocks and control systems.

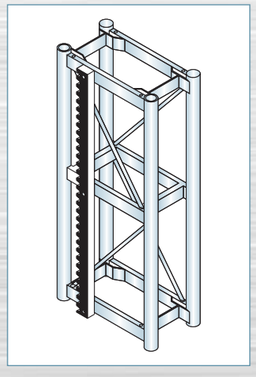
The machinery consisting of brake motor and worm gear is placed on top of the cage as well as inside the cage depending upon the requirement. The pinion is attached to the secondary shaft of the worm gear. The safety device is located below the drive system. A centrifugal brake allows for a controlled descent in the event of power failure.

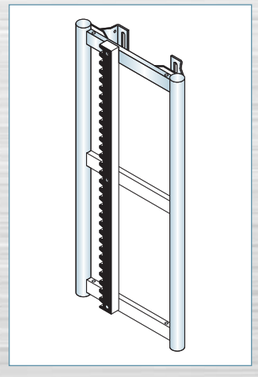


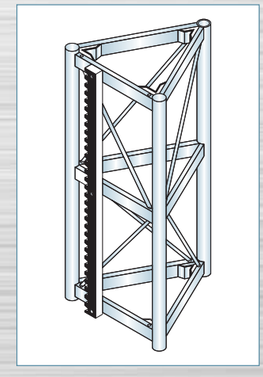
MASTS

The masts are available in different cross-section for a wide variety of applications and various load parameters. Some are square basically for heavy load capacity; others are rectangular in cross-section for medium and light capacity duties. There are flat sections mainly for permanent installations. There are interlinking sections for coupling square masts to rectangular masts. The sections are supplied complete with a rack.









ELEVATOR CONTROL SYSTEM

The Elevators are equipped with variable Frequency Control (VFC) for advantages such as, less starting current, smooth start & stop, better leveling accuracy, ride comfort etc.

Depending on the frequency of use, the intended purpose and other factors such as number of landings,
several options are available.

OPERATOR CONTROL SYSTEM

The Elevator can be operated from inside the cage. Press the "STOP" button at the desired landing and the Elevator will stop. At top & bottom landings the Elevator cage will stop automatically due to the limit cams in the mast.

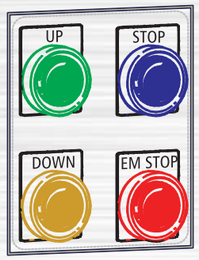
SEMI AUTOMATIC CONTROL SYSTEM

The Elevator can be operated from inside the cage. as well as from landings. Push buttons of type"UP". "DOWN", "STOP", "STOP", " AT NEXT LANDING" are placed inside the cage & landings. Press the "STOP NEXT LANDING" button before you approach the desired landing and the Elevator will stop automatically due to the landing cams in the mast. At top & bottom landings the Elevator cage will stop automatically due to the limit cams in the mast.a

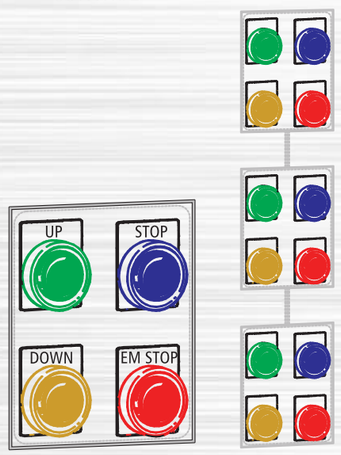
SINGLE AUTOMATIC FLOOR CALL SYSTEM

The Elevator can be operated from inside the cage. by destination push buttons-one button for each floor. The Elevator cage then will stop automatically at selected landing.

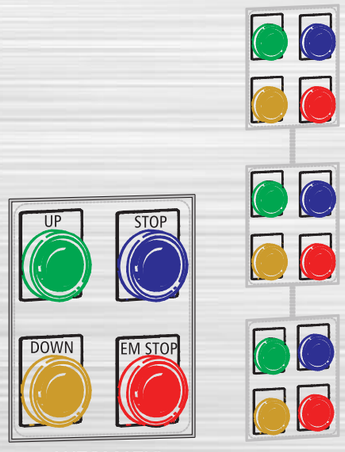
The Elevator can be operated from landings. Push buttons of type "UP", "DOWN", "STOP AT NEXT LANDING" are placed in landings. Press the "STOP NEXT LANDING" button before you approach the desired landing and the Elevator will stop automatically due to the limit cams in the mast. At top & bottom landings the Elevator cage will stop automatically due to the limit cams in the mast.



OPERATOR CONTROL



SEMI AUTOMATIC CONTROL



AUTOMATIC CONTROL

AFTER SALES SERVICES

In order to provide a high level of after sales service, the spare parts are available off-the-self at factory. Also, all key components are available at local office, enabling customers to enjoy trouble-free operation and minimal break down of the Elevator-Alikraft Parts-for confidence, safety and reliability.

Alikraft believe “Customer service is not a department it’s an attitude.”

Alikraft Service Engineers are fully qualified and highly experienced in Rack and Pinion drives for erection and commissioning of Elevator. Also, Alikraft Service Engineers provide customer maintenance personnel with training and resources required to carry out the maintenance task that better meet with customer’s convenience.

No matter when and where we are, we will try to provide the best solutions of after-sales service. The service is not only after, but before the problems occur, we will do more to avoid the problems and help customers get more benefits.


ALIKRAFT


ALIKRAFT
ALIKRAFT


ALIKRAFT