



ALPHASCOPE



ALPHASCOPE TRANSMISSION TECHNOLOGY

One-stop Customized Transmission System Solution Expert

About Us

Founded in 2011, Shijiazhuang Alphascope Transmission Technology Co., Ltd. is a national high-tech enterprise specializing in design, R&D, manufacturing and service. Our portfolio includes two nationally patented technologies: Flexible Transmission Column Lift (rigid chain) and Unguided Rigid Column Lift. We deliver safe, smooth, compact and efficient high-quality driving solutions to leading enterprises in various sectors such as theater engineering, automotive, medical, food, logistics warehousing, wind power, aerospace and construction.

Alphascope Production Park spans 130,000 square feet and is equipped with high-end precision manufacturing equipment and employing advanced and precise production processes, strict and comprehensive quality testing. We have been honored with titles such as National High-Tech Enterprise, National Science and Technology SME, and Hebei Province Specialized and Innovative SME. Possessing multiple core patented technologies, our technical center has been recognized as a R&D Institution for Industrial Enterprises in Hebei Province.

Alphascope adopts modern production management and has established a comprehensive quality management system in accordance with the requirements of the ISO 9001 system. Our products have passed the European CE and Bureau Veritas of France certification, China Metrology Accreditation (CMA) and China National Accreditation Service for Conformity Assessment (CNAS) certification.

Adhering to the corporate spirit of "Focus Achieves Professionalism, Precision Casts Durability", Alphascope has completed over 700 domestic and international projects. At the opening and closing ceremonies of the 2022 Beijing Winter Olympics, Flexible Column Lift served as the primary drive for lifting the cover of the ground central stage system. This mechanism ensured the impressive ascent of the "Big Snowflake" atop the main torch, contributing to the integration of technology and art at the Winter Olympics.

Alphascope is committed to creating greater value for customers through continuous technological innovation, exceptional product performance and attentive after-sales service, striving for mutually beneficial cooperation.

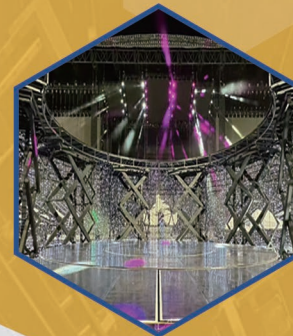
Corporate Honors



Project Highlights

ALPHASCOPE TRANSMISSION TECHNOLOGY

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+86 15810203189

+86 (0)311-88928979

alphascope66@gmail.com

en.alphascopelift.com

Flexible Transmission Scissor Lift Table

We collaborate with renowned enterprises and clients in fields such as aerospace, automotive, manufacturing and entertainment, etc. Utilizing Flexible Column Lift as elevation drive system, we design and develop precise and efficient drive solutions tailored to the specific requirements of different industries. From customized lifting tables to portable work platforms, our goal is to mitigate risks for users in various working environment, ensure safe transportation and optimize production efficiency.

- Uniform lifting, durable and precise operation.
- Accurate positioning and high synchronization accuracy.
- Maximum lifting speed of 0.3m/s.
- Compatible with direct drive by asynchronous AC dual-brake motors and servo motors with gearboxes, etc.
- Reliable, pollution-free, low noise and easy maintenance.

Note: Design and manufacture tailored to user function and dimension requirements.

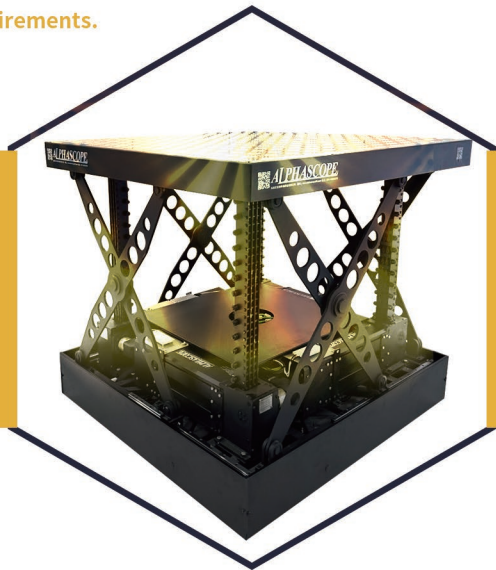


Smart Mobile Platform

Smart Mobile Platform is an advanced mobile platform equipped with the latest control system, enabling omnidirectional movement and lifting. It features excellent steering performance and flexibility, allowing it to easily navigate through various complex environments and narrow spaces, providing users with a novel mobile experience and application solutions. Flexible, user-friendly, and highly expandable, Smart Mobile Platform finds extensive applications in automated production lines, performances, exhibitions, logistics warehousing, etc., contributing to enhanced operational efficiency in industrial automation and fostering innovative breakthroughs in the entertainment industry.

- Smart Mobile Platform of 4 degrees of freedom (X, Y horizontal movement + Z-axis lifting + rotation around the Z-axis).
- Independent or combined operation of horizontal movement, rotation and lifting, with adjustable and controllable speed.
- Capable of continuous operation for arbitrary curve movement and lifting, such as rotation + revolution + lifting.
- Ensures that the object placed on the lifting platform always faces the specified direction under any combination of movements.
- Unaffected by unbalanced loading during operation.

Note: Design and manufacture tailored to user function and dimension requirements.



Flexible Transmission Column Lift



Dynamic Load- Pitch of Chain Link														
Model	07A	11A	15A	19A	23A	27A	31A	35A	39A	47A	53A	63A	71A	77A
Stroke (m)	Dynamic Load (kN)													
0	6.3	14	25	39	57	78	98	134	173	222	280	360	450	650
0.30	6.3	14	25	39	57	78	98	134	173	222	280	360	450	650
0.50	6.3	14	25	39	57	78	98	134	173	222	280	360	450	650
0.80	6.3	14	25	39	57	78	98	134	173	222	280	360	450	650
1.00	6.3	14	25	39	57	78	98	134	173	222	280	360	450	650
1.20	4.3	12	25	39	57	78	98	134	173	222	280	360	450	650
1.40	3	9	25	39	57	78	98	134	173	222	280	360	450	650
1.60		7	25	39	57	78	98	134	173	222	280	360	450	650
2.00		4	17	39	57	78	98	134	173	222	280	360	450	650
2.50			11	26	57	78	98	134	173	222	280	360	450	650
3.00				18	55	78	98	134	173	222	280	360	450	650
3.50					40	78	98	134	173	222	280	360	450	650
4.00					30	78	98	134	173	222	280	360	450	650
4.50					23	63	98	134	173	222	280	360	450	650
5.00						50	82	134	173	222	280	360	450	650
5.50						40	67	134	173	222	280	360	450	650
6.00						33	55	118	173	222	280	360	450	650
6.50							46	99	159	222	280	360	450	650
7.00							38	84	136	202	280	360	450	650
7.50								72	117	173	280	360	450	650
8.00								62	101	150	280	360	450	650
8.50								53	88	131	258	360	450	650
9.00									76	115	226	360	450	650
9.50										99	200	360	450	650
10.00										80	178	330	450	650
10.50											159	295	450	650
11.00											142	265	450	650
11.50											127	240	450	650
12.00												220	450	620
12.50												195	420	580
13.00												180	390	540
13.50												165	360	500
14.00													330	460
14.50													300	420
15.00													280	380
16.00													260	345
Please contact us for confirmation when selecting model of this color parameters. The color or above parameters can be selected according to the design.														

Note:

1. Total length of chain link = stroke + lifting margin.
2. To reduce vibration, add a rubber pad between the chain link connecting seat and the structural body. The thickness of the rubber pad is equivalent to the thickness of the chain link connecting plate.
3. The table is a reference value for model selection. If the guiding system is safe and reliable, the stroke and load can be increased appropriately, but the maximum bearing capacity remains unchanged.

Unguided Rigid Transmission Column Lift



Load-Pitch of Chain Link										
Model	19D	23D	27D	31D	35D	19D	23D	27D	31D	35D
Stroke(m)	Dyanmic Load (kN)					Static Load (kN)				
0	33.0	55.0	71.0	84.0	115.0	42.9	71.5	92.3	109.2	149.5
0.30	33.0	55.0	71.0	84.0	115.0	42.9	71.5	92.3	109.2	149.5
0.50	33.0	55.0	71.0	84.0	115.0	42.9	71.5	92.3	109.2	149.5
0.80	33.0	55.0	71.0	84.0	115.0	42.9	71.5	92.3	109.2	149.5
1.00	33.0	55.0	71.0	84.0	115.0	42.9	71.5	92.3	109.2	149.5
1.20	33.0	55.0	71.0	84.0	115.0	42.9	71.5	92.3	109.2	149.5
1.40	33.0	55.0	71.0	84.0	115.0	42.9	71.5	92.3	109.2	149.5
1.60	33.0	55.0	71.0	84.0	115.0	42.9	71.5	92.3	109.2	149.5
2.00	33.0	55.0	71.0	84.0	115.0	42.9	71.5	92.3	109.2	149.5
2.50	33.0	55.0	71.0	84.0	115.0	42.9	71.5	92.3	109.2	149.5
3.00	33.0	55.0	71.0	84.0	115.0	33.0	60.5	92.3	109.2	149.5
3.50	23.0	48.0	71.0	84.0	115.0	23.0	48.0	92.3	109.2	149.5
4.00	17.1	39.7	71.0	84.0	115.0	17.1	39.7	81.7	109.2	149.5
4.50	12.9	30.5	71.0	84.0	115.0	12.9	30.5	71.0	92.4	149.5
5.00		23.8	58.0	75.0	115.0		23.8	58.0	75.0	149.5
5.50		18.8	47.0	64.0	115.0		18.8	47.0	64.0	149.5
6.00			38.5	52.0	115.0			38.5	52.0	126.5
6.50			31.5	43.0	98.0			31.5	43.0	98.0
7.00				35.5	83.0				35.5	83.0
7.50				29.5	70.0				29.5	70.0
8.00				24.5	59.0				24.5	59.0
8.50					50.0					50.0
9.00					43.0					43.0
9.50					36.0					36.0
10.00					30.0					30.0
MTBM (kN.M)	2	4	6	8	12	3	5	8	10	15

Note:

1. When selecting model, the dynamic and static loads must include the weight of chain link itself. If the dynamic load is 100kg and the weight of chain link is 20kg, the dynamic load of the rigid column lift is 120kg.
2. If the bending moment generated by the horizontal load on the foundation surface exceeds transverse bending moment value, a guide system is necessary.