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Linear Motor Module Series

Zhiwei Linear motor module

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MEGMEET • Suzhou Zhiwei precision drive control Technology Co., Ltd.

2nd Floor, Building 3, No. 521, Nanguandu Road, Wuzhong District, Suzhou City, Jiangsu.

1F, Building B, Dingbao Hong Green High-Tech Park, 8 Gongye 2nd Road, Shiyan Street, Bao’an District, Shenzhen, China

TEL: 189 1315 2053 After-sales TEL：180 680 30560

WEB: zwmsc.megmeet.com WEB: www.zhiweijq.com

2026001

Suitable for 3C, new energy, photovoltaics, laser processing, semiconductors, automotive, LCD panel and other industries

CONTENTS

COMPANY PROFILE

2017
Founding

50+
Patent

10+
National Scientific Research Projects

ISO 9001
Quality Management System Certification

Suzhou Linear Precision Drive Control Technology Co., Ltd. was founded in Suzhou in February 2017, which is a holding subsidiary of Shenzhen MEGMEET Electrical Co., Ltd. (Listed on Shenzhen Stock Exchange, stock code: 002851). It is a national high-tech enterprise and a private science and technology enterprise in Jiangsu Province. Relying on the Institute of Robotics of Harbin Institute of Technology and Jiangsu Provincial Key Laboratory of Advanced Robotics located in Soochow University, we have led and participated in more than 10+ national scientific research projects. With the help of listed companies, we have achieved the industrialisation of high-end products.

It mainly develops, produces and sells various kinds of Linear Motors, Direct Drive Motors, Voice Coil Motors, Linear Modules, XY high precision positioning stages, aerostatic guideway and stages, which are widely used in semiconductor, photovoltaic, lithium electricity, precision machines, medical devices and other industries.

Corporate vision
Create a "core" of intelligent manufacturing

Corporate philosophy
High-quality products, customised services, continuous innovation, scientific management

Quality policy
Customer-oriented, quality first, continuous innovation, continuous improvement

DEVELOPMENT COURSE

2024 / **Industry Focus**
Focused on core processes and equipment such as semiconductor lithography, wafer dicing, AOI inspection, TGV packaging, display panel inspection and repair, perovskite coating, and lithium battery winding.

2020 / **Rapid Development**
Entered the semiconductor, lithium electricity and photovoltaic industries, and successfully developed high-precision positioning stages used for LDI, wafer dicing, laser cutting, vision inspection, etc.

2019 / **Financing and Development**
MEGMEET invests to quickly promote product series, standardisation and high quality.

2017 / **Industrialisation of Achievements**
The company was founded. Research and development, production and sales of linear motors, linear modules and DD motors.

2012 / **Technical Attack**
Relying on the Key Laboratory of Advanced Robot Technology of Soochow University, undertake the national "863 Plan" and the National Nature Fund projects, and focus on the research of high-speed and high-precision positioning technology.

2009 / **Demonstration Application**
Sewing machine motors, injection moulding machine motors, linear motors and drivers have been developed.

2002 / **Key Technologies**
Researched on key technologies such as AC permanent magnet synchronous motor, AC servo driver, magneto electric encoder, etc.

Linear Motor Module

With the rapid advancement of industrial technology, manufacturing industries have increasingly higher requirements for processing accuracy and speed. Due to the technical limitations of traditional transmission methods such as ball screws and timing belts, linear motor technology has become an ideal replacement and upgrade in relevant fields, effectively meeting and addressing the demand for more advanced manufacturing processes across various industries.

Zhiwei Precision Drive linear motor modules feature high accuracy, high speed, smooth operation, simple structure, high integration, standardized product series, and cost efficiency. They have been widely adopted across many industries and are highly recognized and favored by the market. From basic handling and conveying to precision measurement and high-precision machining, Zhiwei Precision Drive linear motor technology is applicable to a wide range of manufacturing processes and operating conditions.

At the same time, with flexible customization and modular combinations, high stability, and excellent cost performance, it can fully meet customers' diverse application requirements.

Applications

Linear motors are widely used across various industries, mainly including the 3C industry, new energy industry, photovoltaic industry, laser processing industry, semiconductor industry, automotive industry, liquid crystal display (LCD) panel industry, and more.

Linear Motor Module Features

Advantages

1) Molded components and standardization, resulting in lower cost
2) Compact structure
3) Supports multi-axis combined applications
   (Z-axis, cross, cantilever, gantry structures, etc.), flexible and versatile
4) Enables multiple mover slide applications
5) Stroke can be extended almost indefinitely
6) High precision with optional feedback units, achieving sub-micron level accuracy
7) Easy to customize with flexible design
8) Wide range of applications

Disadvantages

1)Higher cost compared to traditional transmission methods
2)Motion control is relatively complex

ZWM Series Linear Motor Module

Naming Rules

ZWM | 140 | - | 1 | - | L 00 | - | M | 0.5 | S0 | - | 3 | - | H35-1 | H | - | 5 | D00

1 Motor Type

Code	Motor Type
ZWM	Linear Motor Module
ZWMS	Fully Sealed Linear Motor Module

2 Module Width

Code	Module Width
65	65 mm
85	85 mm
140	140 mm
170	170 mm
210	210 mm
235	235 mm
…	…

3 Number of Carriages

Code	Number of Carriages
1	Single Carriage (Standard)
2	Dual Carriage (Customized)
…	…

4 Effective Travel

Code	Effective Travel
L200	200 mm
L300	300 mm
…	…

5 Feedback Type

Code	Feedback Type
M	Magnetic Scale
G	Optical Encoder
…	…

6 Resolution

Code	Resolution
1	1 um
0.5	0.5 um
…	…

7 Limit Type

Code	Limit Type
/	Photoelectric Switch
S0	Encoder Built-in Limit

8 Motor Type

Code	Motor Type
3-H35-1	ZW3-H35-1
3-H35-2	ZW3-H35-2
3-H35-3	ZW3-H35-3
30A-1	ZWU-30A-1
30A-2	ZWU-30A-2
…	…

9 Hall Sensor

Code	Hall Sensor
/	Hall Sensor Without
H	Hall Sensor With

10 Cable Length

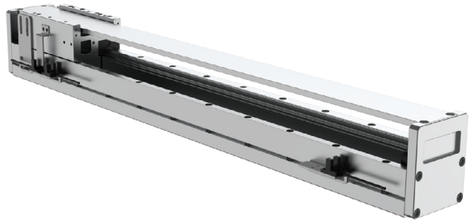
Code	Cable Length
1	1 m
2	2 m
/	5 m(Standard)
…	…

11 Customization

Code	Customization
/	Standard
D00	Standard Module Customization
D01	Gantry Stage Customization

ZWM65 Linear Motor Module

ZWM65-3-H20-1

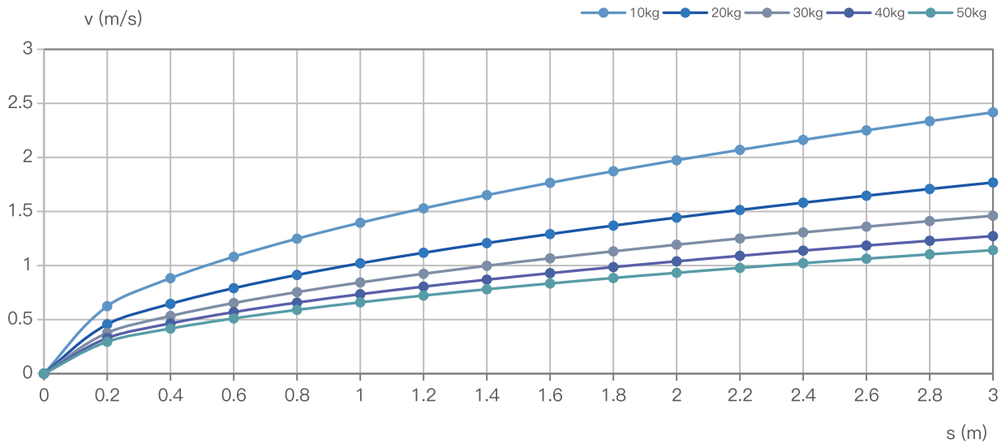


Specifications

Motor Type ZW3-H20-1-M01	Continuous Force (N)	Peak Force (N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	48	138	3.39	10.34	4	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	30	89.5	35~1985 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



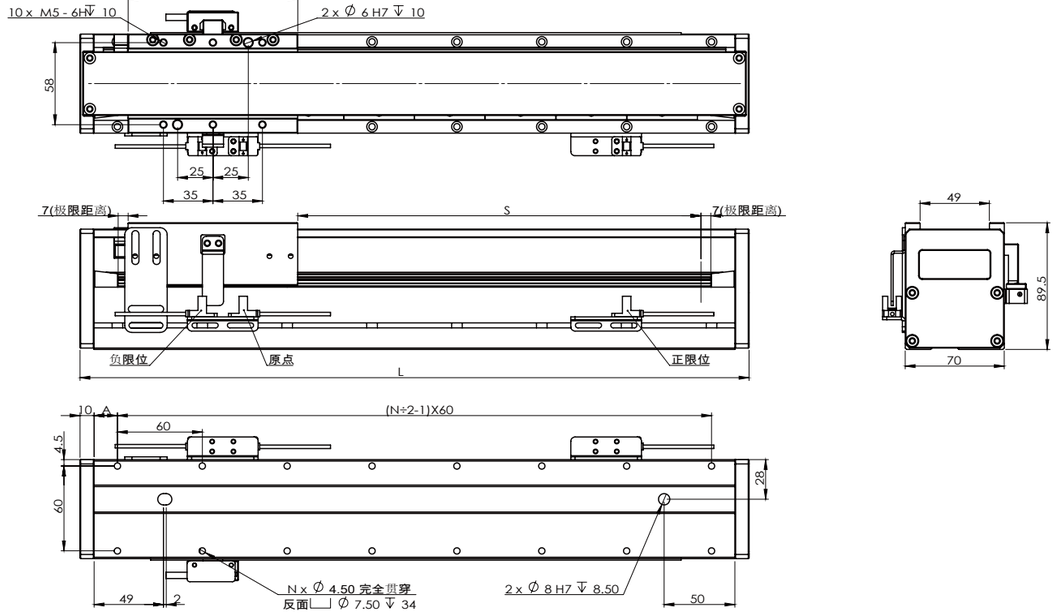
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.6	1.1	1.2	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.3	2.4
20kg	0.5	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8
30kg	0.4	0.7	0.8	0.8	0.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.5
40kg	0.3	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3
50kg	0.3	0.5	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1

Effective Travel:S	35	85	135	185	235	285	335	385	435	485	535	585	635	685	735	785	835	885	935	985
Mechanical Travel S+(Allowance)	49	99	149	199	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
Total Module Length:L	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173
Number of Holes:N	4	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19
Distance from Hole to End:A	11.5	36.5	31.5	26.5	21.5	16.5	11.5	36.5	31.5	26.5	21.5	16.5	11.5	36.5	31.5	26.5	21.5	16.5	11.5	36.5
Module Mass(KG)	3.4	3.8	4.2	4.6	5	5.4	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11
Moving Component Mass(KG)	1.5																			

Effective Travel:S	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
Mechanical Travel S+(Allowance)	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
Total Module Length:L	1223	1273	1323	1373	1423	1473	1523	1573	1623	1673	1723	1773	1823	1873	1923	1973	2023	2073	2123	2173
Number of Holes:N	20	21	22	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36
Distance from Hole to End:A	31.5	26.5	21.5	16.5	11.5	36.5	31.5	26.5	21.5	16.5	11.5	36.5	31.5	26.5	21.5	16.5	11.5	36.5	31.5	26.5
Module Mass(KG)	11.4	11.8	12.2	12.6	13	13.4	13.8	14.1	14.4	14.7	15	15.3	15.6	15.9	16.2	16.5	16.8	17.1	17.4	17.7
Moving Component Mass(KG)	1.5																			

Overall Dimensions

Unit:mm



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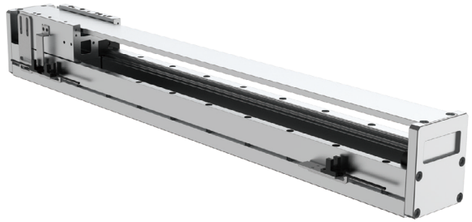
ZWM65 Linear Motor Module

ZWM65-3-H20-2

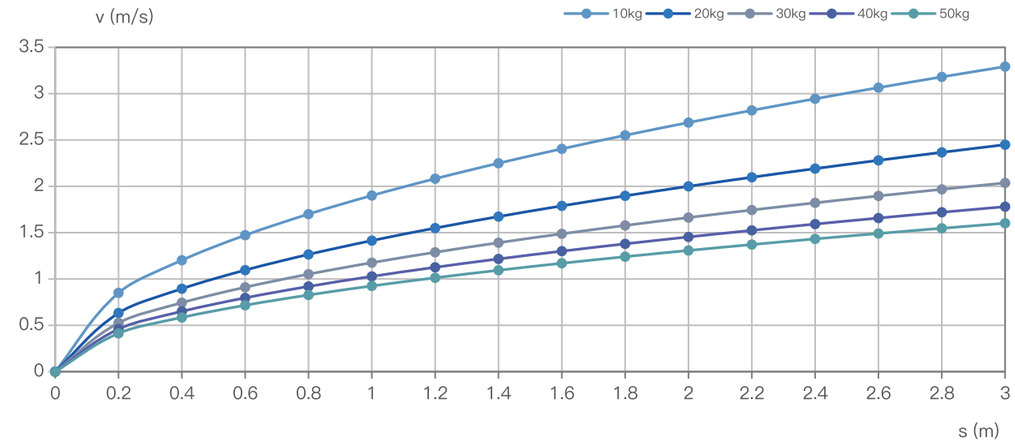


Specifications

	Continuous Force (N)	Peak Force (N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H20-2-M01	96	276	3.39	10.34	4	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (°C /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	30	89.5	47~1997 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3	2.8
	Max Speed(m/s)														
10kg	0.9	1.5	1.7	1.9	2.1	2.2	2.4	2.6	2.7	2.8	2.9	3.1	3.2	3.3	3.3
20kg	0.6	1.1	1.3	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.4	2.4
30kg	0.5	0.9	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	2.0	2.0	2.0
40kg	0.5	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.8
50kg	0.4	0.7	0.8	0.9	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.6

Effective Travel:S	47	97	147	197	247	297	347	397	447	497	547	597	647	697	747	797	847	897	947	997
Mechanical Travel S+(Allowance)	61	111	161	211	261	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011
Total Module Length:L	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275
Number of Holes:N	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21
Distance from Hole to End:A	32.5	27.5	22.5	17.5	12.5	37.5	32.5	27.5	22.5	17.5	12.5	37.5	32.5	27.5	22.5	17.5	12.5	37.5	32.5	27.5
Module Mass(KG)	5.2	5.6	6	6.4	6.8	7.2	7.6	8	8.4	8.8	9.2	9.6	10	10.4	10.8	11.2	11.6	12	12.4	12.8
Moving Component Mass(KG)	2.4																			

Effective Travel:S	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
Mechanical Travel S+(Allowance)	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011
Total Module Length:L	1325	1375	1425	1475	1525	1575	1625	1675	1725	1775	1825	1875	1925	1975	2025	2075	2125	2175	2225	2275
Number of Holes:N	22	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38
Distance from Hole to End:A	22.5	17.5	12.5	37.5	32.5	27.5	22.5	17.5	12.5	37.5	32.5	27.5	22.5	17.5	12.5	37.5	32.5	27.5	22.5	17.5
Module Mass(KG)	13.2	13.6	14	14.4	14.8	15.1	15.4	15.7	16	16.3	16.6	16.9	17.2	17.5	17.8	18.1	18.4	18.7	19	19.3
Moving Component Mass(KG)	2.4																			

Overall Dimensions

Unit:mm

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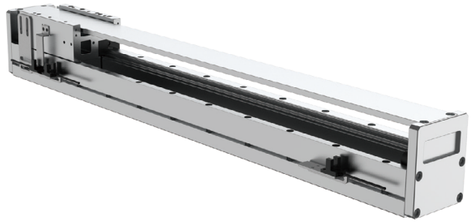
ZWM65 Linear Motor Module

ZWM65-3-H20-3

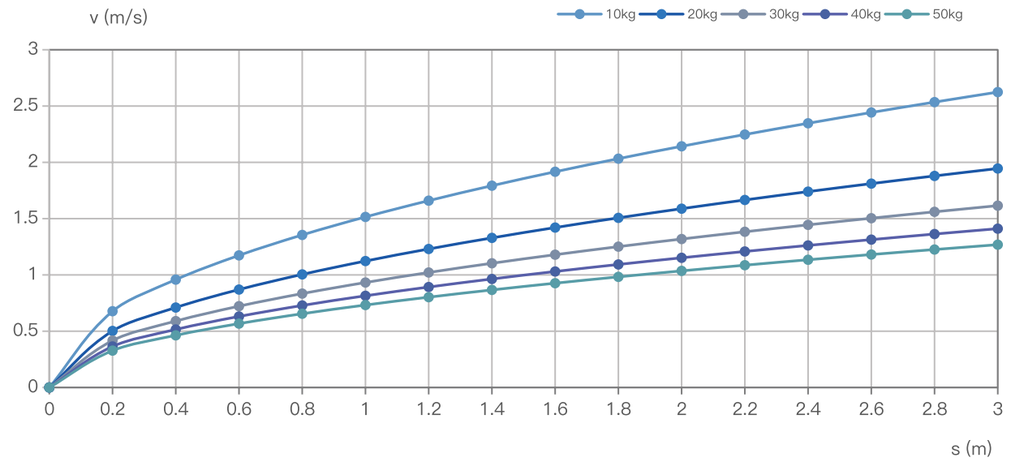


Specifications

Motor Type ZW3-H20-3-M01	Continuous Force (N)	Peak Force (N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	144	414	3.39	10.34	4	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (°C /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	30	89.5	10~1960 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



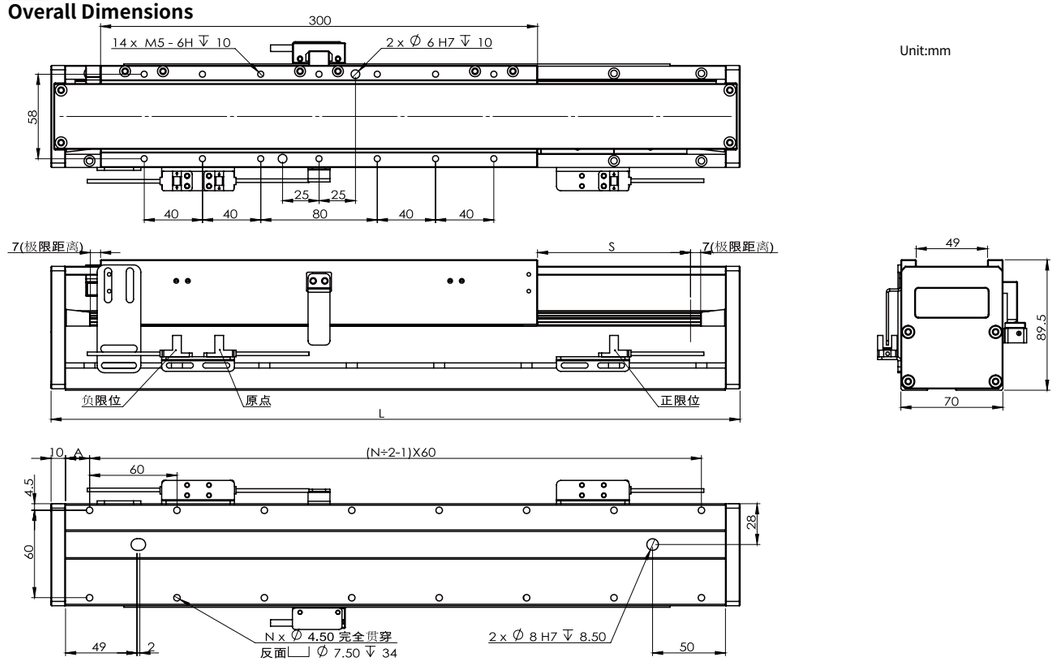
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.0	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.1	3.3	3.4	3.6	3.7	3.9
20kg	0.8	1.3	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
30kg	0.6	1.1	1.3	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.4
40kg	0.6	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.8	1.8	1.9	2.0	2.1	2.2
50kg	0.5	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	1.9

Effective Travel:S	10	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
Mechanical Travel S+(Allowance)	24	74	124	174	224	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974
Total Module Length:L	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328
Number of Holes:N	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22
Distance from Hole to End:A	29	24	19	14	39	34	29	24	19	14	39	34	29	24	19	14	39	34	29	24
Module Mass(KG)	7	7.4	7.8	8.2	8.6	9	9.4	9.8	10.2	10.6	11	11.4	11.8	12.2	12.6	13	13.4	13.8	14.2	14.6
Moving Component Mass(KG)	3.6																			

Effective Travel:S	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
Mechanical Travel S+(Allowance)	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
Total Module Length:L	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828	1878	1928	1978	2028	2078	2128	2178	2228	2278	2328
Number of Holes:N	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39
Distance from Hole to End:A	19	14	39	34	29	24	19	14	39	34	29	24	19	14	39	34	29	24	19	14
Module Mass(KG)	15	15.4	15.8	16.2	16.6	17	17.4	17.8	18.2	18.6	19	19.4	19.8	20.2	20.6	21	21.4	21.8	22.2	22.6
Moving Component Mass(KG)	3.6																			

Overall Dimensions

Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWM85 Linear Motor Module

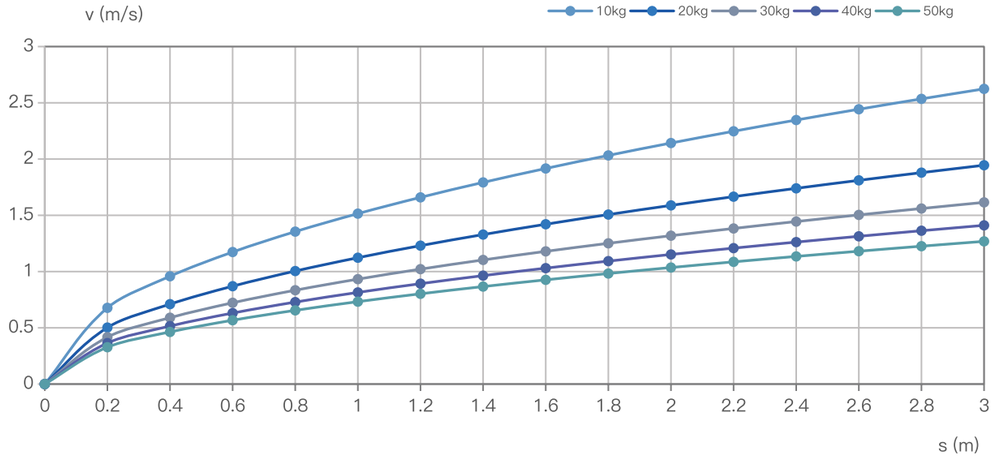
ZWM85-3-H25-1

Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H25-1-M01	60	173	3.4	10.37	40	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	50	88.5	35~1985 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



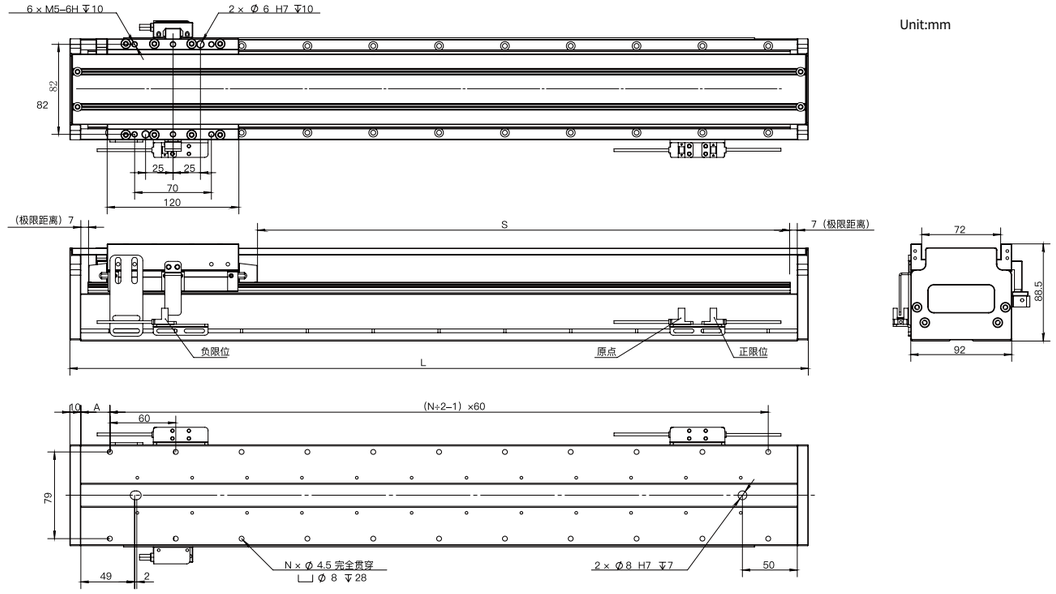
Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.7	1.2	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6
20kg	0.5	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	1.9
30kg	0.4	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6
40kg	0.4	0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.4
50kg	0.3	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3

Effective Travel:S	35	85	135	185	235	285	335	385	435	485	535	585	635	685	735	785	835	885	935	985
Mechanical Travel S+(Allowance)	49	99	149	199	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
Total Module Length:L	223	273	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1023	1073	1123	1173
Number of Holes:N	4	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19
Distance from Hole to End:A	11.5	36.5	31.5	26.5	21.5	16.5	11.5	36.5	31.5	26.5	21.5	16.5	11.5	36.5	31.5	26.5	21.5	16.5	11.5	36.5
Module Mass(KG)	4.7	5.3	5.8	6.4	6.9	7.5	8	8.6	9.1	9.7	10.2	10.8	11.3	11.9	12.4	13	13.5	14.1	14.6	15.2
Moving Component Mass(KG)	2.2																			

Effective Travel:S	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
Mechanical Travel S+(Allowance)	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
Total Module Length:L	1223	1273	1323	1373	1423	1473	1523	1573	1623	1673	1723	1773	1823	1873	1923	1973	2023	2073	2123	2173
Number of Holes:N	20	21	22	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36
Distance from Hole to End:A	31.5	26.5	21.5	16.5	11.5	36.5	31.5	26.5	21.5	16.5	11.5	36.5	31.5	26.5	21.5	16.5	11.5	36.5	31.5	26.5
Module Mass(KG)	15.7	16.3	16.8	17.4	17.9	18.5	18.4	18.9	19.4	19.9	20.4	20.9	21.4	21.9	22.4	22.9	23.4	23.9	24.4	24.9
Moving Component Mass(KG)	2.2																			

Overall Dimensions

Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWM85 Linear Motor Module

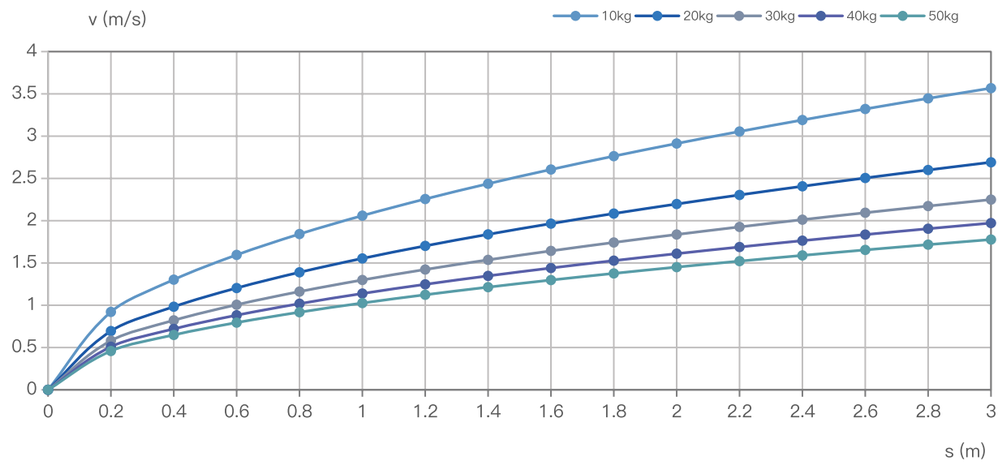
ZWM85-3-H25-2

Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H25-2-M01	120	346	3.4	10.37	40	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	50	88.5	47~1997 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



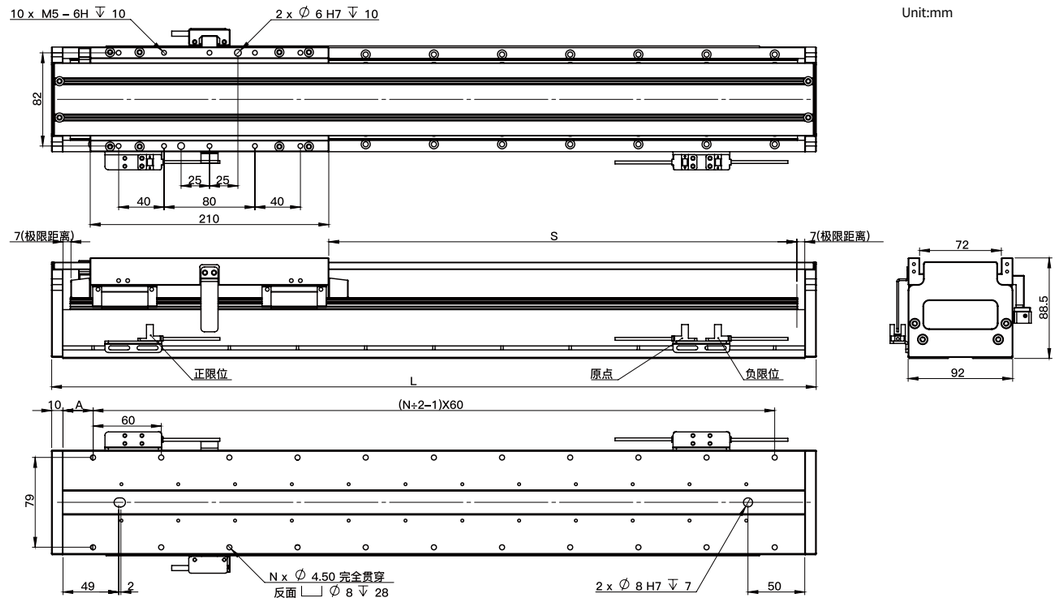
Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.9	1.6	1.8	2.1	2.3	2.4	2.6	2.8	2.9	3.1	3.2	3.3	3.4	3.6
20kg	0.7	1.2	1.4	1.6	1.7	1.8	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7
30kg	0.6	1.0	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.2
40kg	0.5	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.8	1.9	2.0
50kg	0.5	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8

Effective Travel:S	47	97	147	197	247	297	347	397	447	497	547	597	647	697	747	797	847	897	947	997
Mechanical Travel S+(Allowance)	61	111	161	211	261	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011
Total Module Length:L	325	375	425	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275
Number of Holes:N	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21
Distance from Hole to End:A	32.5	27.5	22.5	17.5	12.5	37.5	32.5	27.5	22.5	17.5	12.5	37.5	32.5	27.5	22.5	17.5	12.5	37.5	32.5	27.5
Module Mass(KG)	6.9	7.5	8	8.6	9.1	9.7	10.2	10.8	11.3	11.9	12.4	13	13.5	14.1	14.6	15.2	15.7	16.3	16.8	17.4
Moving Component Mass(KG)	3.2																			

Effective Travel:S	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
Mechanical Travel S+(Allowance)	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011
Total Module Length:L	1325	1375	1425	1475	1525	1575	1625	1675	1725	1775	1825	1875	1925	1975	2025	2075	2125	2175	2225	2275
Number of Holes:N	22	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38
Distance from Hole to End:A	22.5	17.5	12.5	37.5	32.5	27.5	22.5	17.5	12.5	37.5	32.5	27.5	22.5	17.5	12.5	37.5	32.5	27.5	22.5	17.5
Module Mass(KG)	17.9	18.5	19	19.6	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5	26	26.5	27
Moving Component Mass(KG)	3.2																			

Overall Dimensions

Unit:mm



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Product appearance and specifications are subject to change without prior notice.

ZWM85 Linear Motor Module

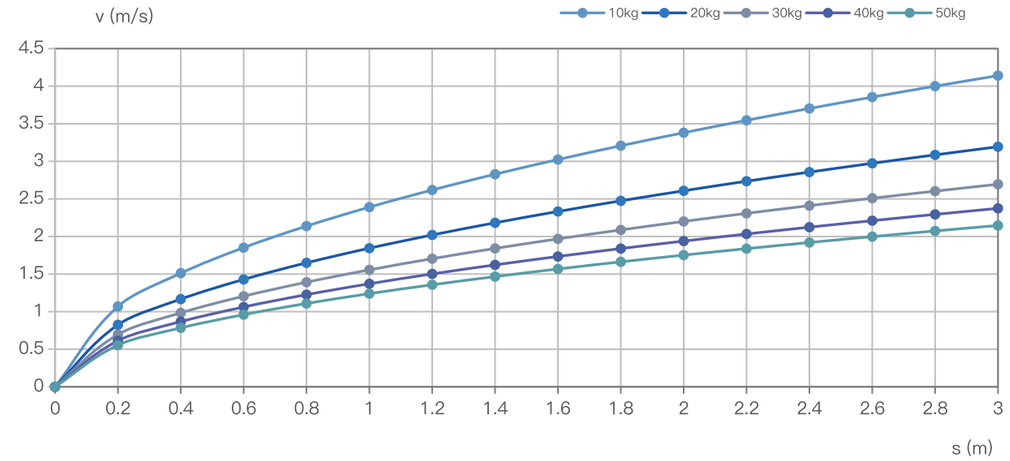
ZWM85-3-H25-3

Specifications

Motor Type ZW3-H25-3-M01	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	180	519	3.4	10.37	40	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	50	88.5	10~1960 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



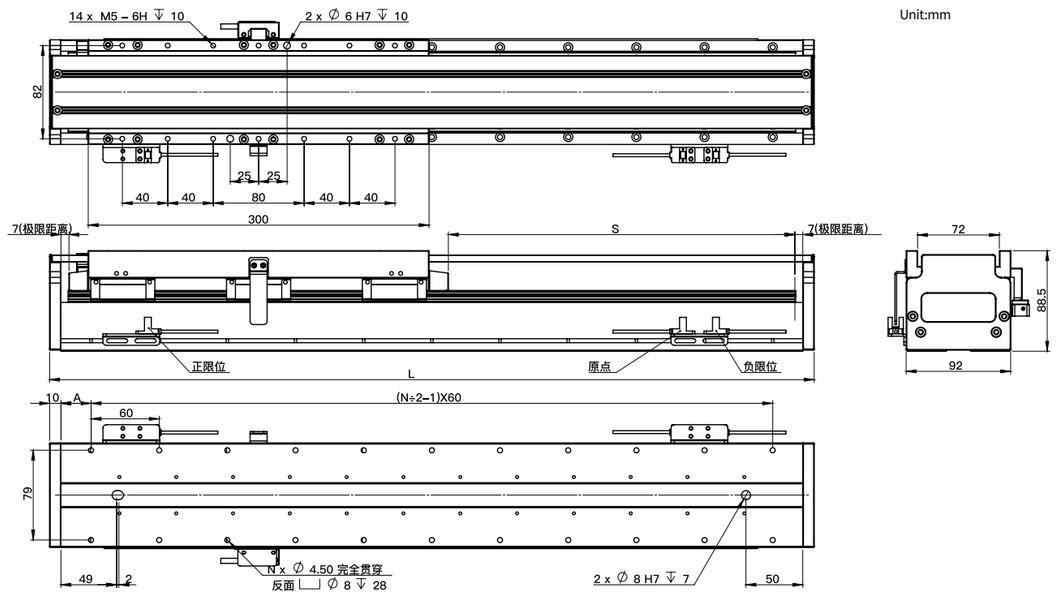
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.1	1.9	2.1	2.4	2.6	2.8	3.0	3.2	3.4	3.5	3.7	3.9	4.0	4.1
20kg	0.8	1.4	1.6	1.8	2.0	2.2	2.3	2.5	2.6	2.7	2.9	3.0	3.1	3.2
30kg	0.7	1.2	1.4	1.6	1.7	1.8	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7
40kg	0.6	1.1	1.2	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
50kg	0.6	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.8	1.8	1.9	2.0	2.1	2.1

Effective Travel:S	10	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
Mechanical Travel S+(Allowance)	24	74	124	174	224	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974
Total Module Length:L	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328
Number of Holes:N	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22
Distance from Hole to End:A	29	24	19	14	39	34	29	24	19	14	39	34	29	24	19	14	39	34	29	24
Module Mass(KG)	9.2	9.8	10.3	10.9	11.4	12.0	12.5	13.1	13.6	14.2	14.7	15.3	15.8	16.4	16.9	17.5	18.0	18.6	19.1	19.7
Moving Component Mass(KG)	4.7																			

Effective Travel:S	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
Mechanical Travel S+(Allowance)	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
Total Module Length:L	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828	1878	1928	1978	2028	2078	2128	2178	2228	2278	2328
Number of Holes:N	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39
Distance from Hole to End:A	19	14	39	34	29	24	19	14	39	34	29	24	19	14	39	34	29	24	19	14
Module Mass(KG)	20.2	20.8	21.3	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2
Moving Component Mass(KG)	4.7																			

Overall Dimensions

Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWM140 Linear Motor Module

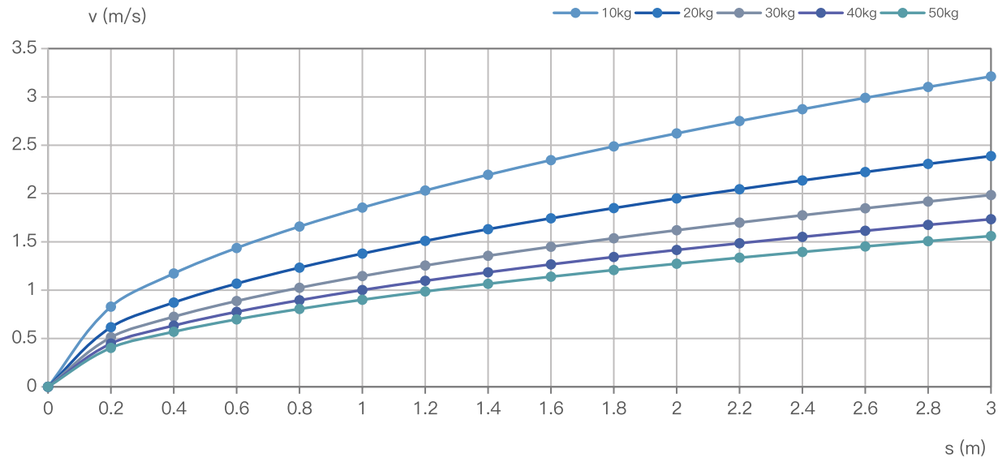
ZWM140-3-H35-1

Specifications

Motor Type ZW3-H35-1	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	91	252	3.38	10.31	5	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	100	78.5	35~1985 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



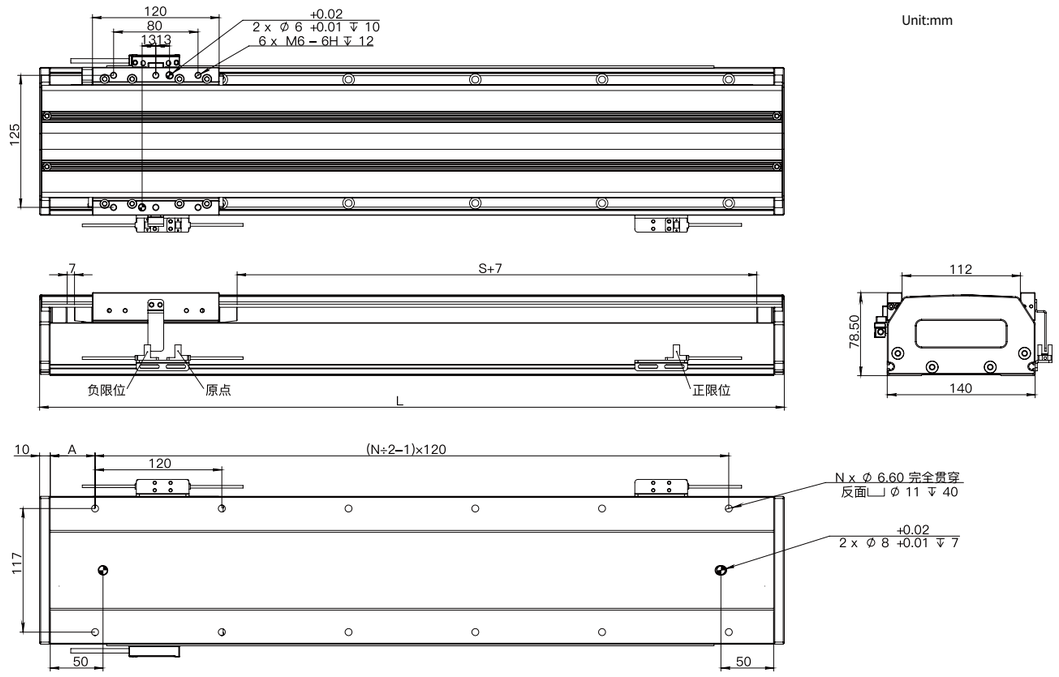
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.8	1.4	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.8	2.9	3.0	3.1	3.2
20kg	0.6	1.1	1.2	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
30kg	0.5	0.9	1.0	1.1	1.3	1.4	1.4	1.5	1.6	1.7	1.8	1.8	1.9	2.0
40kg	0.4	0.8	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.7
50kg	0.4	0.7	0.8	0.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6

Effective Travel:S	35	85	135	185	235	285	335	385	435	485	535	585	635	685	735	785	835	885	935	985
Mechanical Travel S+(Allowance)	49	99	149	199	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
Total Module Length:L	255	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205
Number of Holes:N	4	6	6	6	8	8	10	10	12	12	12	14	14	16	16	16	18	18	20	20
Distance from Hole to End:A	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5
Module Mass(KG)	6.15	6.92	7.69	8.46	9.23	10	10.8	11.5	12.31	13.1	13.8	14.6	15.38	16.2	16.9	17.7	18.5	19.2	20	20.8
Moving Component Mass(KG)	2.35																			

Effective Travel:S	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
Mechanical Travel S+(Allowance)	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
Total Module Length:L	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705	1755	1805	1855	1905	1955	2005	2055	2105	2155	2205
Number of Holes:N	22	22	22	24	24	26	26	26	28	28	30	30	32	32	32	34	34	36	36	36
Distance from Hole to End:A	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5
Module Mass(KG)	21.5	22.3	23.08	23.8	24.6	25.4	26.2	26.9	27.69	28.5	29.2	30	30.77	31.5	32.3	33.1	33.8	34.6	35.38	36.4
Moving Component Mass(KG)	2.35																			

Overall Dimensions

Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWM140 Linear Motor Module

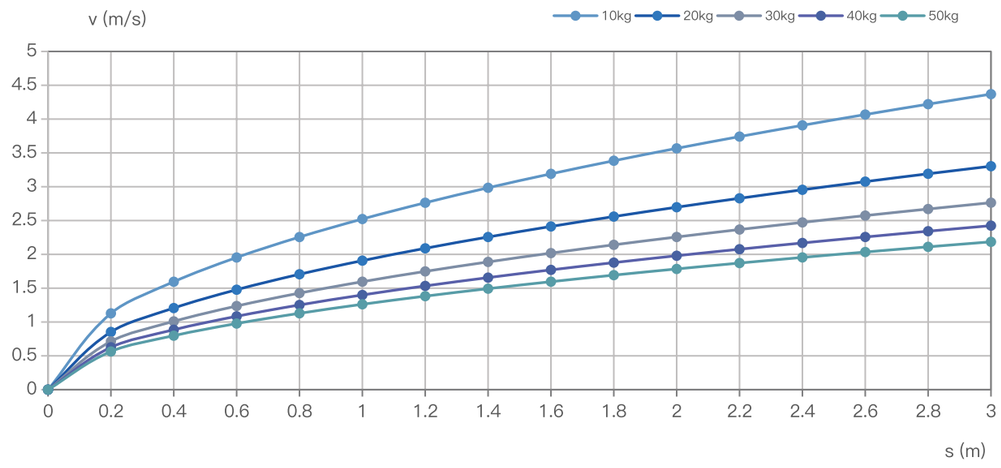
ZWM140-3-H35-2

Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H35-2	182	504	3.38	10.31	5	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	100	78.5	47~1997 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.1	2.0	2.3	2.5	2.8	3.0	3.2	3.4	3.6	3.7	3.9	4.1	4.2	4.4
20kg	0.9	1.5	1.7	1.9	2.1	2.3	2.4	2.6	2.7	2.8	3.0	3.1	3.2	3.3
30kg	0.7	1.2	1.4	1.6	1.7	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8
40kg	0.6	1.1	1.3	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.3	2.4
50kg	0.6	1.0	1.1	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.0	2.1	2.2

Effective Travel:S	47	97	147	197	247	297	347	397	447	497	547	597	647	697	747	797	847	897	947	997
Mechanical Travel S+(Allowance)	61	111	161	211	261	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011
Total Module Length:L	357	407	457	507	557	607	657	707	757	807	857	907	957	1007	1057	1107	1157	1207	1257	1307
Number of Holes:N	6	6	8	8	10	10	12	12	12	14	14	16	16	16	18	18	20	20	22	22
Distance from Hole to End:A	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5
Module Mass(KG)	8.13	8.9	9.67	10.4	11.2	12	12.7	13.5	14.28	15.1	15.8	16.6	17.36	18.1	18.9	19.7	20.4	21.2	21.97	22.7
Moving Component Mass(KG)	3.35																			

Effective Travel:S	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
Mechanical Travel S+(Allowance)	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011
Total Module Length:L	1357	1407	1457	1507	1557	1607	1657	1707	1757	1807	1857	1907	1957	2007	2057	2107	2157	2207	2257	2307
Number of Holes:N	22	24	24	26	26	26	28	28	30	30	32	32	32	34	34	36	36	36	38	38
Distance from Hole to End:A	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5
Module Mass(KG)	23.5	24.3	25.05	25.8	26.6	27.4	28.1	28.9	29.67	30.4	31.2	32	32.74	33.5	34.3	35.1	35.8	36.6	37.36	38.1
Moving Component Mass(KG)	3.35																			

Overall Dimensions

Unit:mm

This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWM140 Linear Motor Module

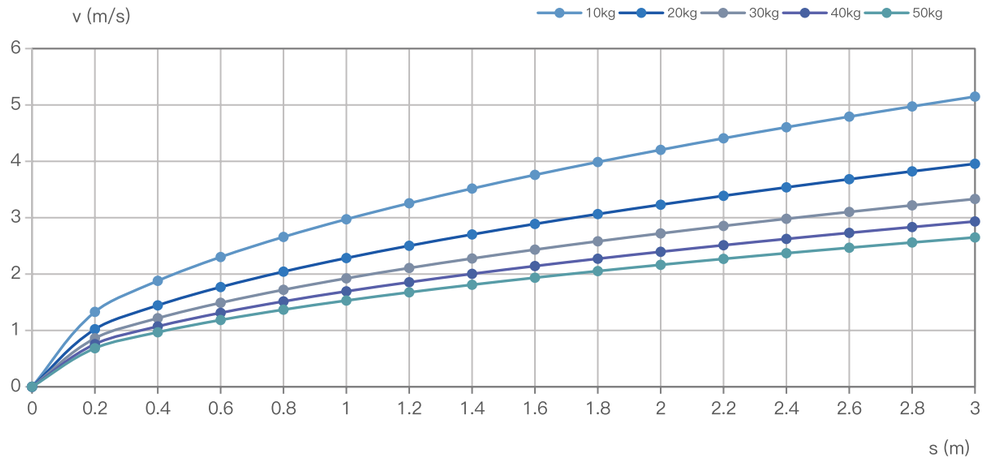
ZWM140-3-H35-3

Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H35-3	273	756	3.38	10.31	5	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	100	78.5	10~1960 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load

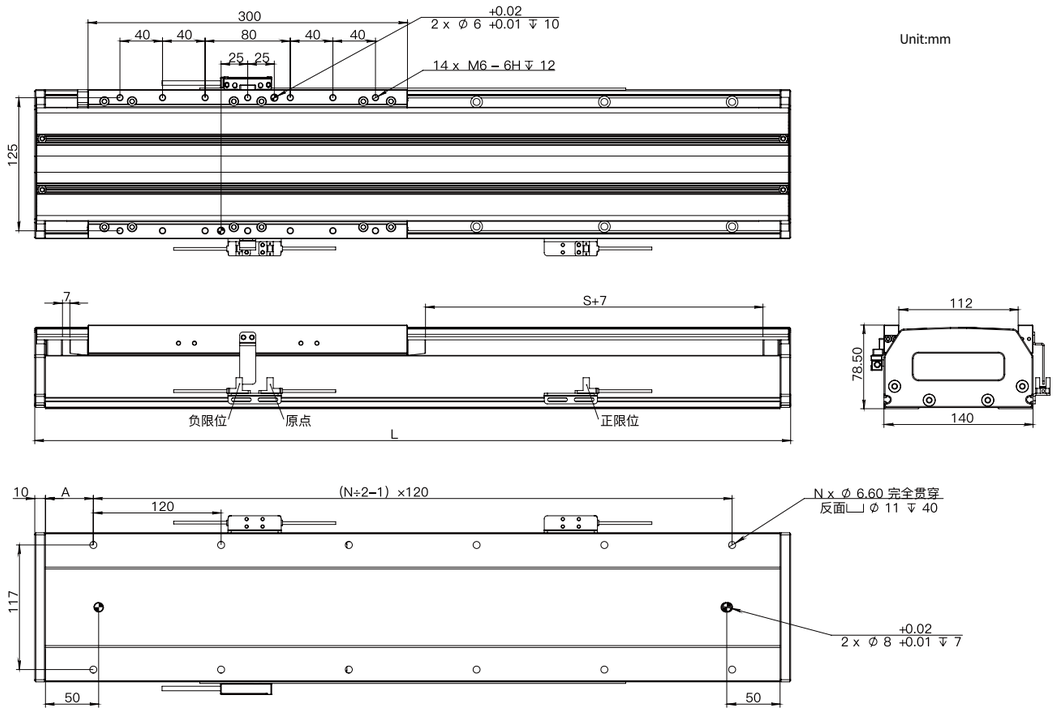


Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.3	2.3	2.7	3.0	3.3	3.5	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.1
20kg	1.0	1.8	2.0	2.3	2.5	2.7	2.9	3.1	3.2	3.4	3.5	3.7	3.8	4.0
30kg	0.9	1.5	1.7	1.9	2.1	2.3	2.4	2.6	2.7	2.9	3.0	3.1	3.2	3.3
40kg	0.8	1.3	1.5	1.7	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
50kg	0.7	1.2	1.4	1.5	1.7	1.8	1.9	2.1	2.2	2.3	2.4	2.5	2.6	2.7

Effective Travel:S	10	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
Mechanical Travel S+(Allowance)	24	74	124	174	224	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974
Total Module Length:L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310	1360
Number of Holes:N	6	8	8	10	10	12	12	12	14	14	16	16	16	18	18	20	20	22	22	22
Distance from Hole to End:A	75	40	65	30	55	20	45	70	35	60	25	50	75	40	65	30	55	20	45	70
Module Mass(KG)	10.6	11.3	12.11	12.9	13.6	14.4	15.1	15.9	16.65	17.4	18.2	18.9	19.68	20.4	21.2	22	22.7	23.5	24.23	25
Moving Component Mass(KG)	4.42																			

Effective Travel:S	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
Mechanical Travel S+(Allowance)	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
Total Module Length:L	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960	2010	2060	2110	2160	2210	2260	2310	2360
Number of Holes:N	24	24	26	26	26	28	28	30	30	32	32	32	34	34	36	36	36	38	38	40
Distance from Hole to End:A	35	60	25	50	75	40	65	30	55	20	45	70	35	60	25	50	75	40	65	30
Module Mass(KG)	25.7	26.5	27.26	28	28.8	29.5	30.3	31.1	31.81	32.6	33.3	34.1	34.84	35.6	36.4	37.1	37.9	38.6	39.39	40.1
Moving Component Mass(KG)	4.42																			

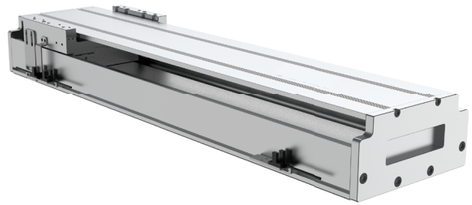
Overall Dimensions



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWM170 Linear Motor Module

ZWM170-3-H55-1

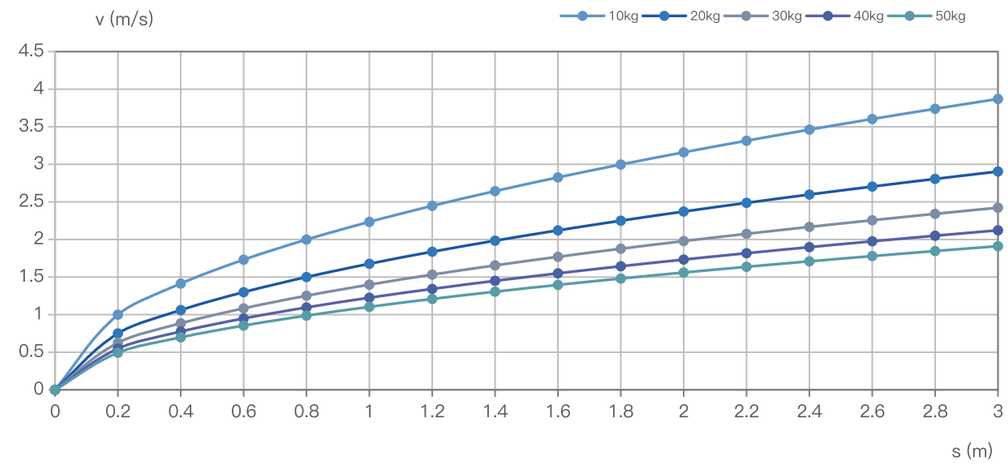


Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H55-1	138	371	3.23	10.31	5	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	160	90.5	35~1985 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load

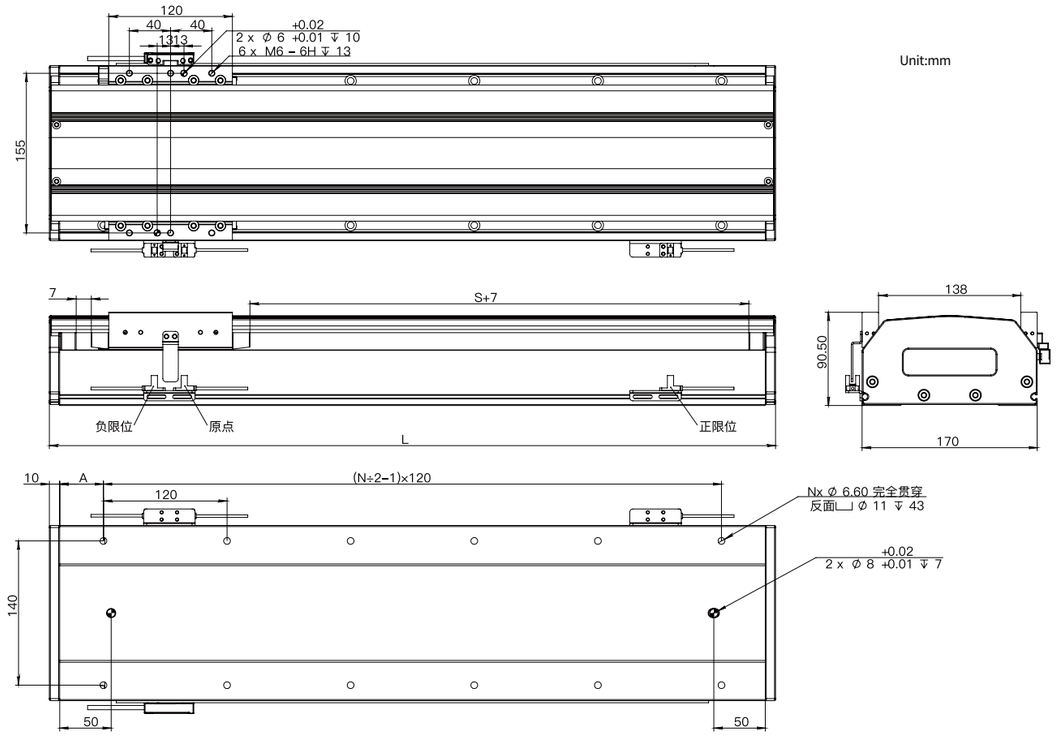


Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.0	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.3	3.5	3.6	3.7	3.9
20kg	0.7	1.3	1.5	1.7	1.8	2.0	2.1	2.2	2.4	2.5	2.6	2.7	2.8	2.9
30kg	0.6	1.1	1.3	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.3	2.4
40kg	0.5	0.9	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1
50kg	0.5	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.8	1.9

Effective Travel:S	35	85	135	185	235	285	335	385	435	485	535	585	635	685	735	785	835	885	935	985
Mechanical Travel S+(Allowance)	49	99	149	199	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
Total Module Length:L	255	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1002	1055	1105	1155	1205
Number of Holes:N	4	6	6	6	8	8	10	10	12	12	12	14	14	16	16	16	18	18	20	20
Distance from Hole to End:A	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5
Module Mass(KG)	8.03	9.07	10.11	11.1	12.2	13.2	14.3	15.3	16.34	17.4	18.4	19.5	20.49	21.5	22.6	23.6	24.6	25.7	26.72	27.8
Moving Component Mass(KG)	2.9																			

Effective Travel:S	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
Mechanical Travel S+(Allowance)	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
Total Module Length:L	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705	1755	1805	1855	1905	1955	2005	2055	2105	2155	2205
Number of Holes:N	22	22	22	24	24	26	26	26	28	28	30	30	32	32	32	34	34	36	36	36
Distance from Hole to End:A	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5
Module Mass(KG)	28.8	29.8	30.87	31.9	32.9	34.5	35.1	36.1	37.1	38.1	39.2	40.2	41.25	42.3	43.3	44.4	45.4	46.4	47.48	48.5
Moving Component Mass(KG)	2.9																			

Overall Dimensions



Unit:mm

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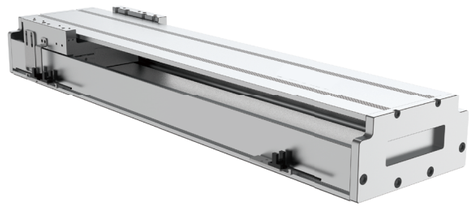
ZWM170 Linear Motor Module

ZWM170-3-H55-2

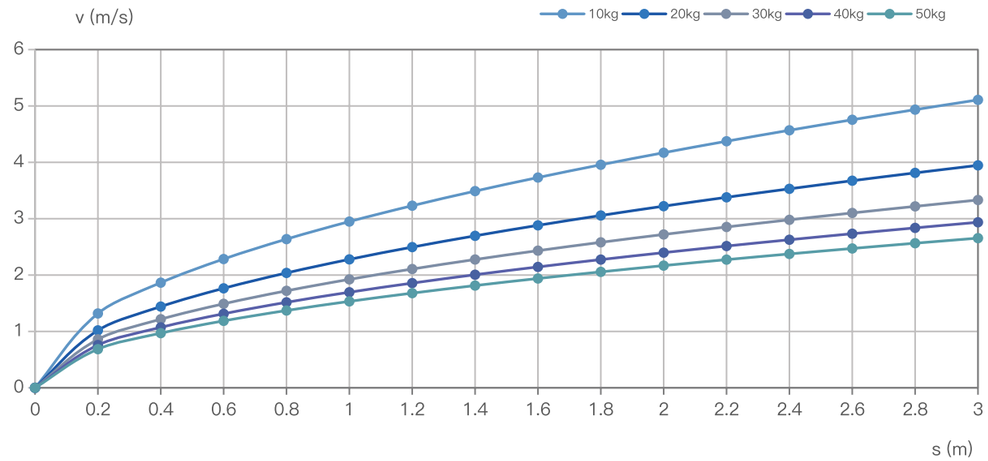


Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H55-2	276	742	3.23	10.31	5	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	160	90.5	47~1997 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load

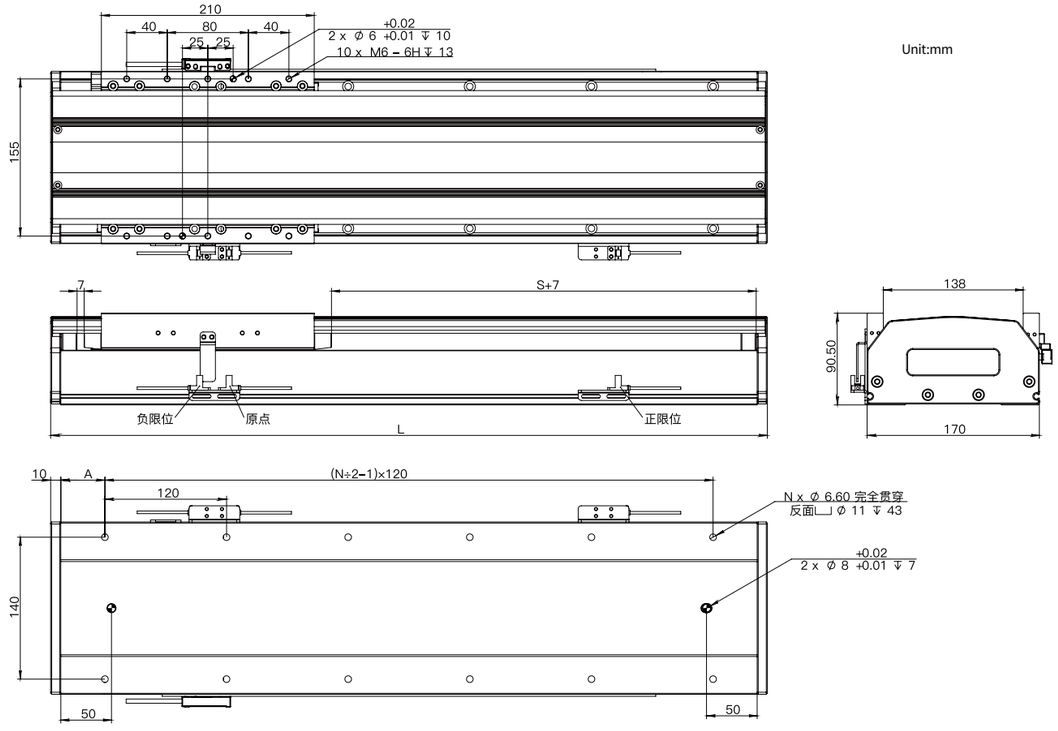


Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.3	2.3	2.6	2.9	3.2	3.5	3.7	4.0	4.2	4.4	4.6	4.8	4.9	5.1
20kg	1.0	1.8	2.0	2.3	2.5	2.7	2.9	3.1	3.2	3.4	3.5	3.7	3.8	3.9
30kg	0.9	1.5	1.7	1.9	2.1	2.3	2.4	2.6	2.7	2.9	3.0	3.1	3.2	3.3
40kg	0.8	1.3	1.5	1.7	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
50kg	0.7	1.2	1.4	1.5	1.7	1.8	1.9	2.1	2.2	2.3	2.4	2.5	2.6	2.7

Effective Travel:S	47	97	147	197	247	297	347	397	447	497	547	597	647	697	747	797	847	897	947	997
Mechanical Travel S+(Allowance)	61	111	161	211	261	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011
Total Module Length:L	357	407	457	507	557	607	657	707	757	807	857	907	957	1007	1057	1107	1157	1207	1257	1307
Number of Holes:N	6	6	8	8	10	10	12	12	12	14	14	16	16	16	18	18	20	20	22	22
Distance from Hole to End:A	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5
Module Mass(KG)	12.1	13.1	14.16	15.2	16.2	17.3	18.3	19.4	20.42	21.5	22.5	23.5	24.59	25.6	26.7	27.7	28.8	29.8	30.85	31.9
Moving Component Mass(KG)	4.81																			

Effective Travel:S	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
Mechanical Travel S+(Allowance)	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011
Total Module Length:L	1357	1407	1457	1507	1557	1607	1657	1707	1757	1807	1857	1907	1957	2007	2057	2107	2157	2207	2257	2307
Number of Holes:N	22	24	24	26	26	26	28	28	30	30	32	32	32	34	34	36	36	36	38	38
Distance from Hole to End:A	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5
Module Mass(KG)	32.9	34	35.2	26.1	37.1	38.1	39.2	40.2	41.28	42.3	43.4	44.4	45.45	46.5	47.5	48.6	49.6	50.7	51.7	52.7
Moving Component Mass(KG)	4.81																			

Overall Dimensions



Unit:mm

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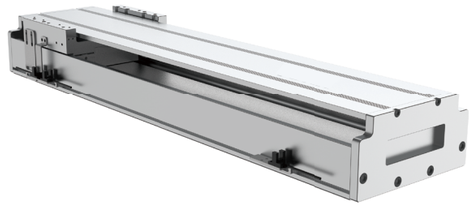
Product appearance and specifications are subject to change without prior notice.

ZWM170 Linear Motor Module

ZWM170-3-H55-3

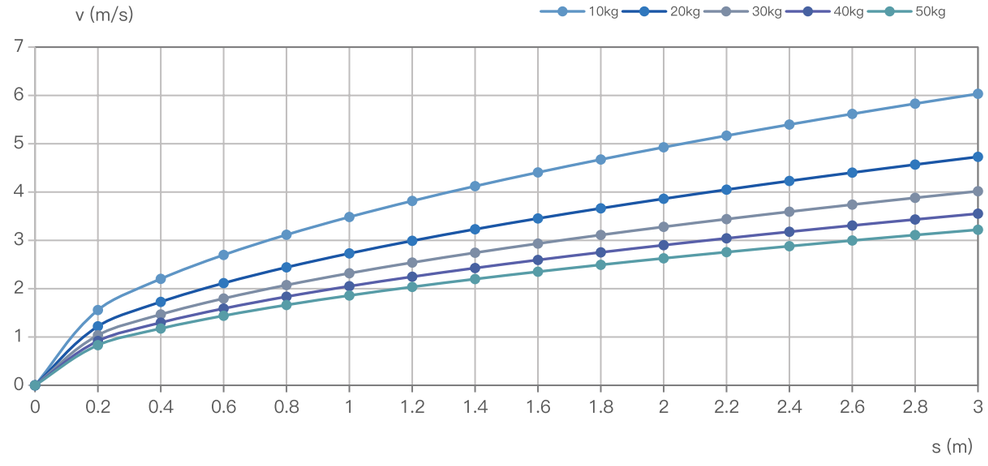


Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H55-3	414	1113	3.23	10.31	5	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	160	90.5	10~1960 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load

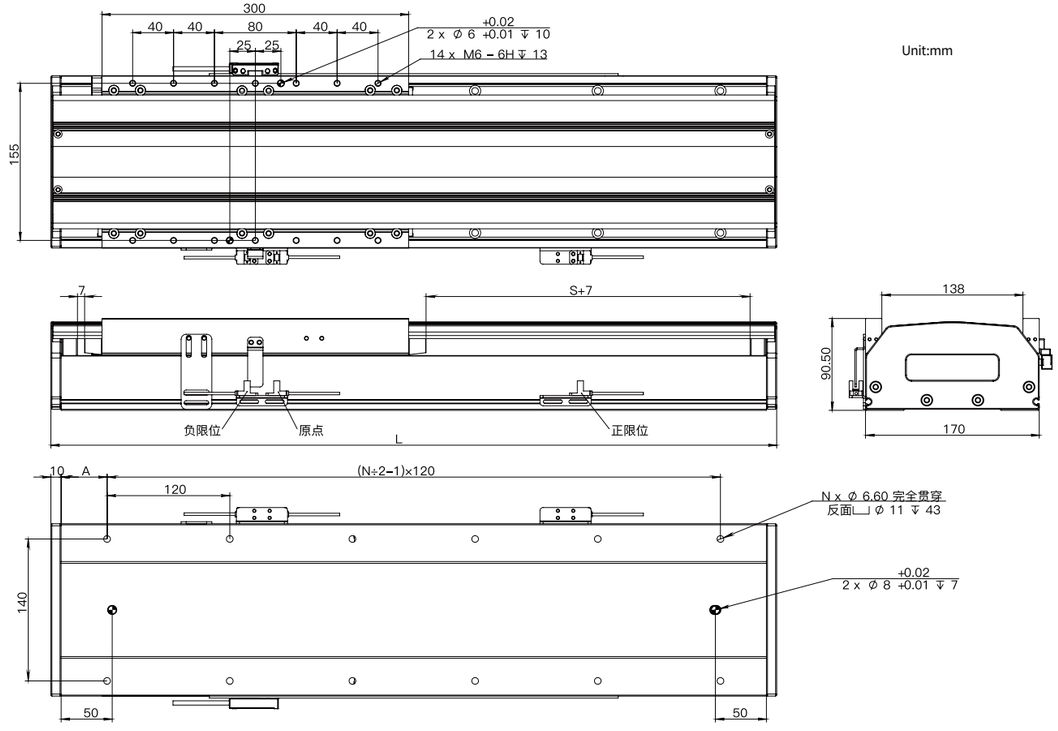


Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.6	2.7	3.1	3.5	3.8	4.1	4.4	4.7	4.9	5.2	5.4	5.6	5.8	6.0
20kg	1.2	2.1	2.4	2.7	3.0	3.2	3.5	3.7	3.9	4.0	4.2	4.4	4.6	4.7
30kg	1.0	1.8	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.4	3.6	3.7	3.9	4.0
40kg	0.9	1.6	1.8	2.1	2.2	2.4	2.6	2.8	2.9	3.0	3.2	3.3	3.4	3.6
50kg	0.8	1.4	1.7	1.9	2.0	2.2	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.2

Effective Travel:S	10	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
Mechanical Travel S+(Allowance)	24	74	124	174	224	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974
Total Module Length:L	378	428	478	528	578	628	678	728	778	828	878	928	978	1028	1078	1128	1178	1228	1278	1328
Number of Holes:N	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	19	20	21	22
Distance from Hole to End:A	29	24	19	14	39	34	29	24	19	14	39	34	29	24	19	14	39	34	29	24
Module Mass(KG)	9.2	9.8	10.3	10.9	11.4	12.0	12.5	13.1	13.6	14.2	14.7	15.3	15.8	16.4	16.9	17.5	18.0	18.6	19.1	19.7
Moving Component Mass(KG)	5.92																			

Effective Travel:S	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
Mechanical Travel S+(Allowance)	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
Total Module Length:L	1378	1428	1478	1528	1578	1628	1678	1728	1778	1828	1878	1928	1978	2028	2078	2128	2178	2228	2278	2328
Number of Holes:N	23	24	24	25	26	27	28	29	29	30	31	32	33	34	34	35	36	37	38	39
Distance from Hole to End:A	19	14	39	34	29	24	19	14	39	34	29	24	19	14	39	34	29	24	19	14
Module Mass(KG)	20.2	20.8	21.3	21.2	21.7	22.2	22.7	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.7	27.2	27.7	28.2	28.7	29.2
Moving Component Mass(KG)	5.92																			

Overall Dimensions



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWM210 Linear Motor Module

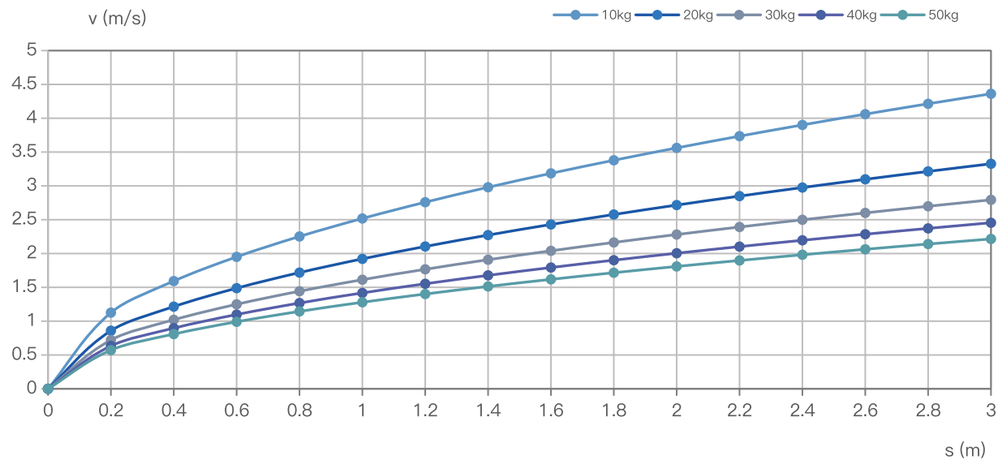
ZWM210-3-H75-1

Specifications

Motor Type ZW3-H75-1	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	189	522	3.28	10.3	5	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	250	97	35~1985 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



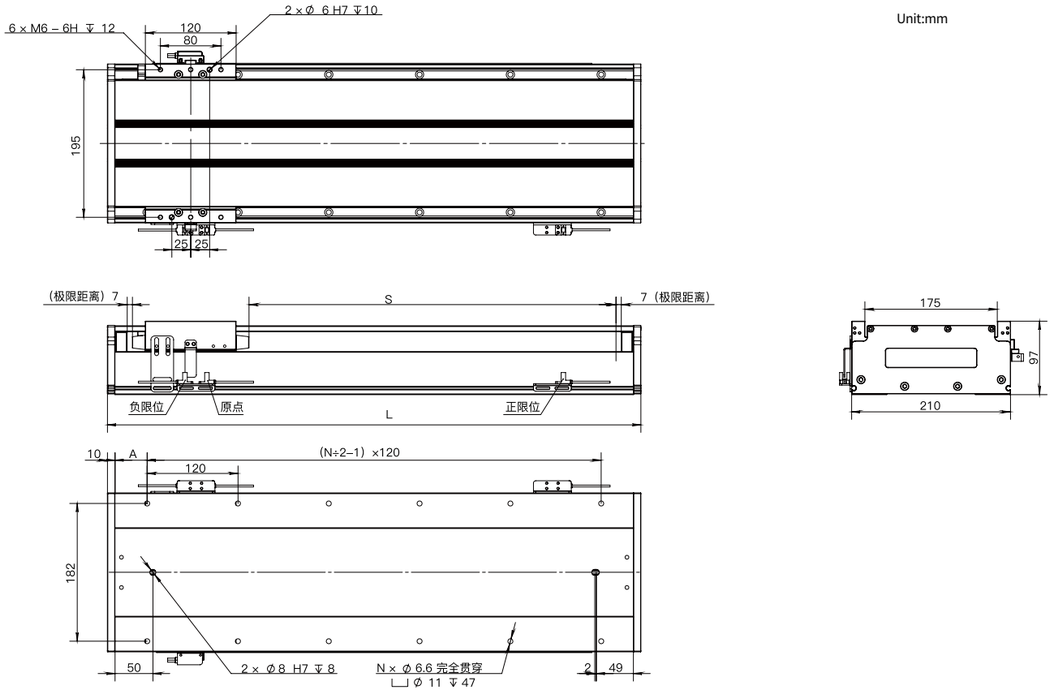
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.1	2.0	2.3	2.5	2.8	3.0	3.2	3.4	3.6	3.7	3.9	4.1	4.2	4.4
20kg	0.9	1.5	1.7	1.9	2.1	2.3	2.4	2.6	2.7	2.8	3.0	3.1	3.2	3.3
30kg	0.7	1.2	1.4	1.6	1.8	1.9	2.0	2.2	2.3	2.4	2.5	2.6	2.7	2.8
40kg	0.6	1.1	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
50kg	0.6	1.0	1.1	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2

Effective Travel:S	35	85	135	185	235	285	335	385	435	485	535	585	635	685	735	785	835	885	935	985
Mechanical Travel S+(Allowance)	49	99	149	199	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
Total Module Length:L	255	305	355	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205
Number of Holes:N	4	6	6	6	8	8	10	10	12	12	12	14	14	16	16	16	18	18	20	20
Distance from Hole to End:A	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5
Module Mass(KG)	10.7	12	13.42	14.8	16.2	17.6	19	20.4	21.74	23.1	24.5	25.9	27.29	28.7	30.1	31.4	32.8	34.2	35.61	37
Moving Component Mass(KG)	3.91																			

Effective Travel:S	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
Mechanical Travel S+(Allowance)	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
Total Module Length:L	1255	1305	1355	1405	1455	1505	1555	1605	1655	1705	1755	1805	1855	1905	1955	2005	2055	2105	2155	2205
Number of Holes:N	22	22	22	24	24	26	26	26	28	28	30	30	30	32	32	34	34	36	36	36
Distance from Hole to End:A	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5
Module Mass(KG)	38.4	39.8	41.16	42.5	43.9	45.3	46.7	48.1	49.47	50.9	52.2	53.6	55.02	56.4	57.8	59.2	60.6	62	63.33	64.7
Moving Component Mass(KG)	3.91																			

Overall Dimensions

Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWM210 Linear Motor Module

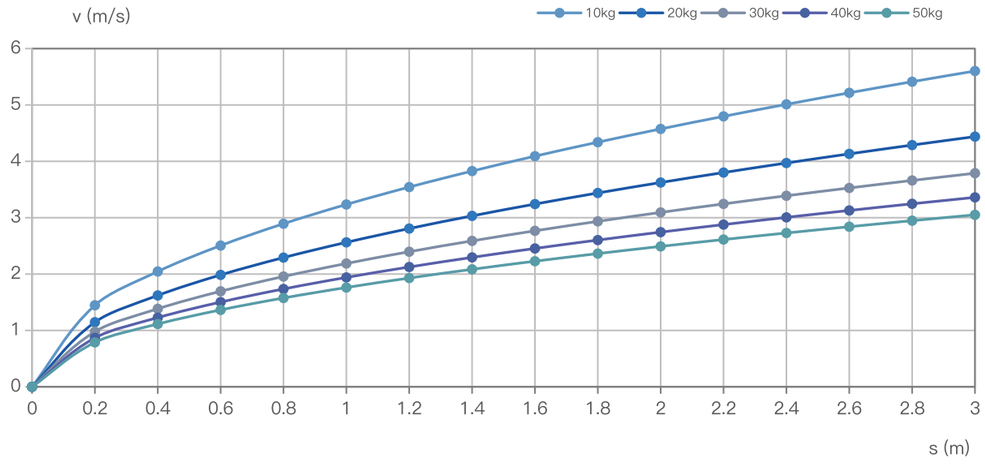
ZWM210-3-H75-2

Specifications

Motor Type ZW3-H75-2	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	378	1044	3.28	10.3	5	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	250	97	47~1997 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load

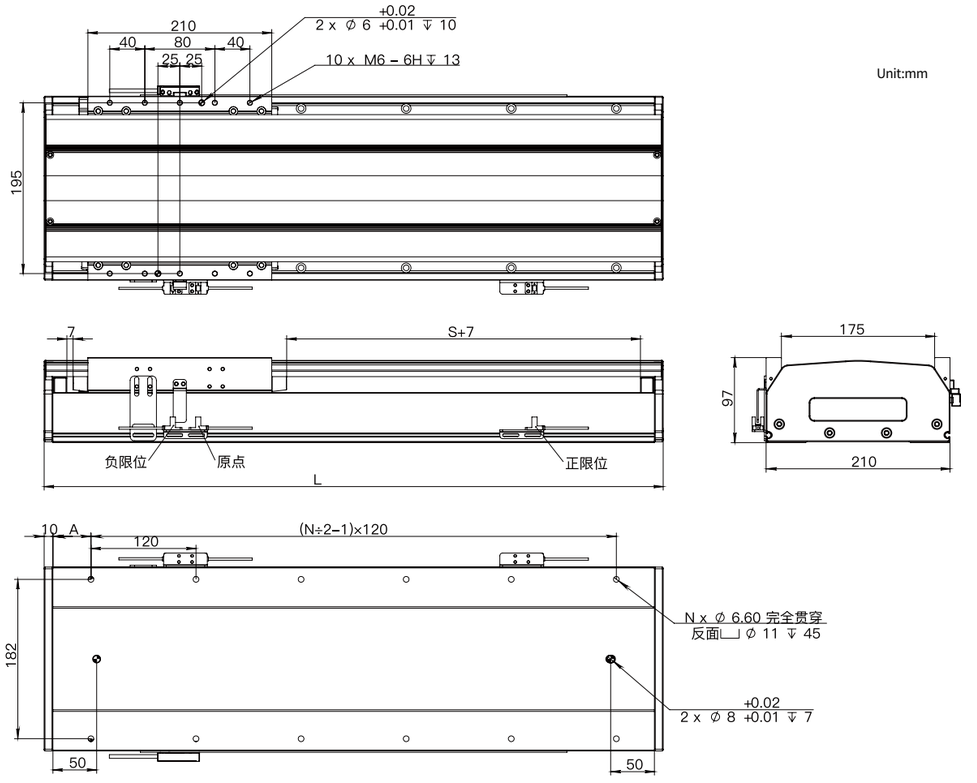


Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.4	2.5	2.9	3.2	3.5	3.8	4.1	4.3	4.6	4.8	5.0	5.2	5.4	5.6
20kg	1.1	2.0	2.3	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
30kg	1.0	1.7	2.0	2.2	2.4	2.6	2.8	2.9	3.1	3.2	3.4	3.5	3.7	3.8
40kg	0.9	1.5	1.7	1.9	2.1	2.3	2.5	2.6	2.7	2.9	3.0	3.1	3.2	3.4
50kg	0.8	1.4	1.6	1.8	1.9	2.1	2.2	2.4	2.5	2.6	2.7	2.8	2.9	3.1

Effective Travel:S	47	97	147	197	247	297	347	397	447	497	547	597	647	697	747	797	847	897	947	997
Mechanical Travel S+(Allowance)	61	111	161	211	261	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011
Total Module Length:L	357	407	457	507	557	607	657	707	757	807	857	907	957	1007	1057	1107	1157	1207	1257	1307
Number of Holes:N	6	6	8	8	10	10	12	12	12	14	14	16	16	16	18	18	20	20	22	22
Distance from Hole to End:A	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5
Module Mass(KG)	16.4	17.8	19.19	20.6	22	23.4	24.7	26.1	27.51	28.9	30.3	31.7	33.05	34.4	35.8	37.2	38.6	40	41.36	42.7
Moving Component Mass(KG)	6.86																			

Effective Travel:S	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
Mechanical Travel S+(Allowance)	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011
Total Module Length:L	1357	1407	1457	1507	1557	1607	1657	1707	1757	1807	1857	1907	1957	2007	2057	2107	2157	2207	2257	2307
Number of Holes:N	22	24	24	26	26	26	28	28	30	30	32	32	32	34	34	36	36	36	38	38
Distance from Hole to End:A	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5
Module Mass(KG)	44.1	45.5	46.9	48.3	49.7	51.1	52.4	53.8	55.21	56.6	58	59.4	60.75	62.1	63.5	64.9	66.3	67.7	69.06	70.4
Moving Component Mass(KG)	6.86																			

Overall Dimensions



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWM210 Linear Motor Module

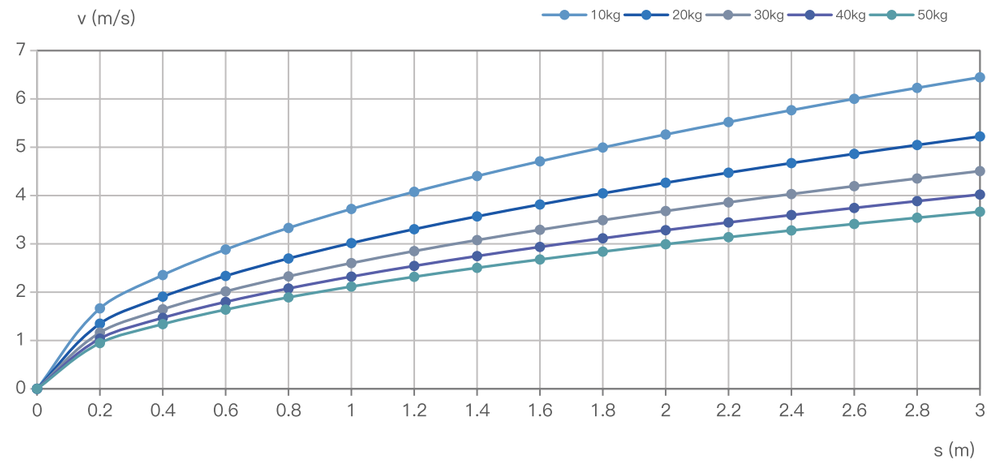
ZWM210-3-H75-3

Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H75-3	567	1566	3.28	10.3	5	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	250	97	10~1960 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load

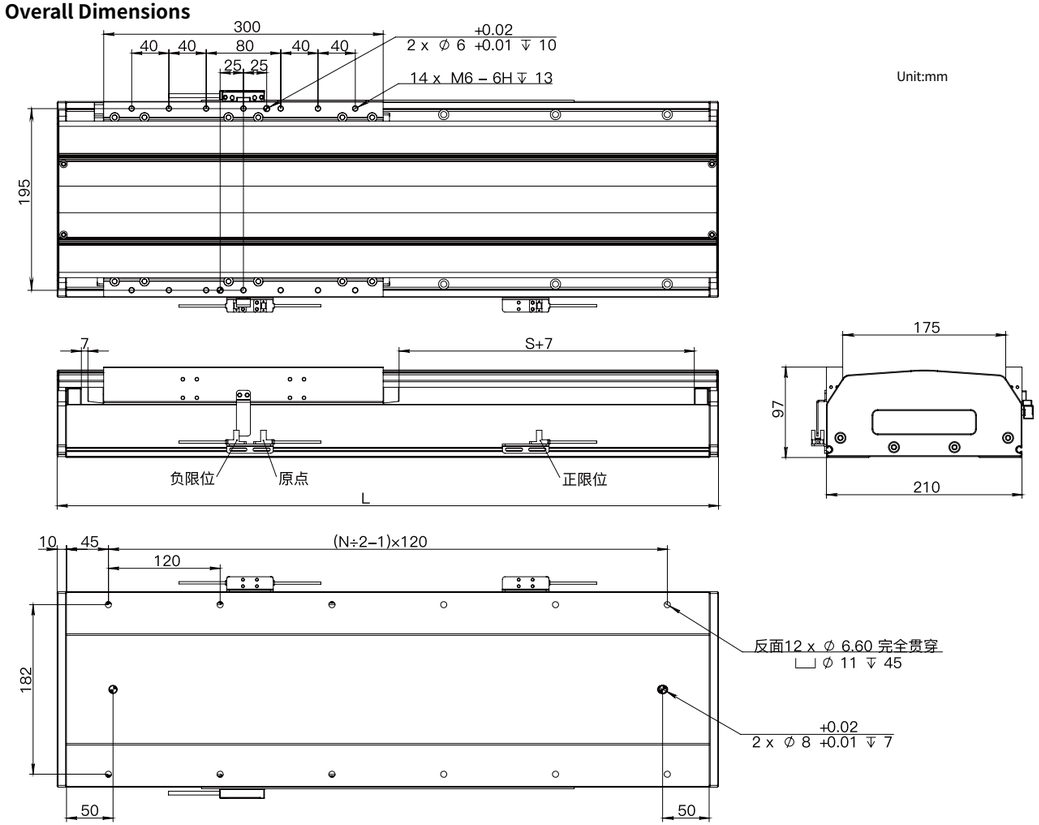


Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.7	2.9	3.3	3.7	4.1	4.4	4.7	5.0	5.3	5.5	5.8	6.0	6.2	6.4
20kg	1.3	2.3	2.7	3.0	3.3	3.6	3.8	4.0	4.3	4.5	4.7	4.9	5.0	5.2
30kg	1.2	2.0	2.3	2.6	2.8	3.1	3.3	3.5	3.7	3.9	4.0	4.2	4.4	4.5
40kg	1.0	1.8	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.4	3.6	3.7	3.9	4.0
50kg	0.9	1.6	1.9	2.1	2.3	2.5	2.7	2.8	3.0	3.1	3.3	3.4	3.5	3.7

Effective Travel:S	10	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
Mechanical Travel S+(Allowance)	24	74	124	174	224	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974
Total Module Length:L	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310	1360
Number of Holes:N	6	8	8	10	10	12	12	12	14	14	16	16	16	18	18	20	20	22	22	22
Distance from Hole to End:A	75	40	65	30	55	20	45	70	35	60	25	50	75	40	65	30	55	20	45	70
Module Mass(KG)	20.1	21.5	22.86	24.2	25.6	27	28.4	29.8	31.17	32.6	33.9	35.3	36.72	38.1	39.5	40.9	42.3	43.6	45.04	46.4
Moving Component Mass(KG)	9.1																			

Effective Travel:S	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
Mechanical Travel S+(Allowance)	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
Total Module Length:L	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960	2010	2060	2110	2160	2210	2260	2310	2360
Number of Holes:N	24	24	26	26	26	28	28	30	30	32	32	32	34	34	36	36	36	38	38	40
Distance from Hole to End:A	35	60	25	50	75	40	65	30	55	20	45	70	35	60	25	50	75	40	65	30
Module Mass(KG)	47.8	49.2	50.58	52	53.4	54.7	56.1	57.5	58.9	60.3	61.7	63.1	64.44	65.8	67.2	68.6	70	71.4	72.76	74.1
Moving Component Mass(KG)	9.1																			

Overall Dimensions



Unit:mm

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ZWM235 Linear Motor Module

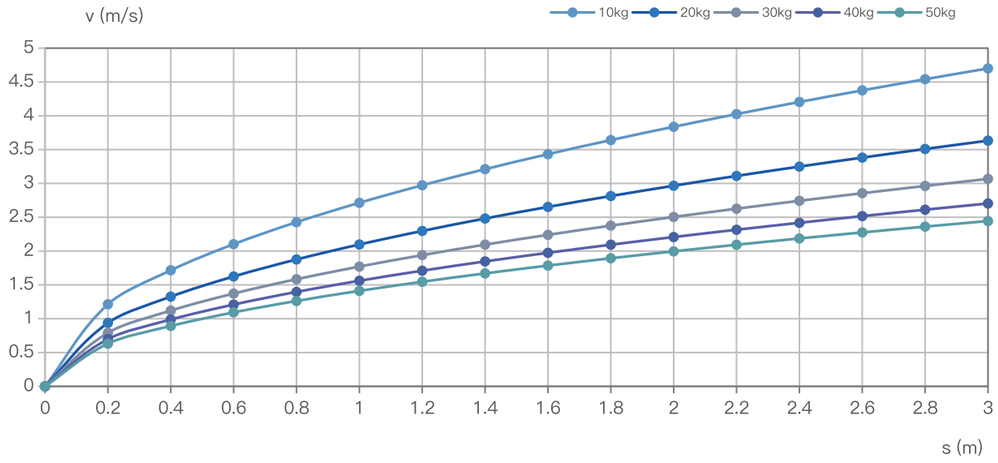
ZWM235-3-H95-1

Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H95-1	234	648	3.22	10.29	4	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	300	105	35~1985 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.2	2.1	2.4	2.7	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.5	4.7
20kg	0.9	1.6	1.9	2.1	2.3	2.5	2.7	2.8	3.0	3.1	3.2	3.4	3.5	3.6
30kg	0.8	1.4	1.6	1.8	1.9	2.1	2.2	2.4	2.5	2.6	2.7	2.9	3.0	3.1
40kg	0.7	1.2	1.4	1.6	1.7	1.8	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7
50kg	0.6	1.1	1.3	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.4

Effective Travel:S	35	85	135	185	235	285	335	385	435	485	535	585	635	685	735	785	835	885	935	985
Mechanical Travel S+(Allowance)	49	99	149	199	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
Total Module Length:L	265	315	365	415	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215
Number of Holes:N	4	6	6	6	8	8	10	10	12	12	12	14	14	16	16	16	18	18	20	20
Distance from Hole to End:A	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5
Module Mass(KG)	13.4	15.1	16.84	18.6	20.3	22	23.8	25.5	27.21	28.9	30.7	32.4	34.12	35.8	37.6	39.3	41	42.8	44.49	46.2
Moving Component Mass(KG)	4.63																			

Effective Travel:S	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
Mechanical Travel S+(Allowance)	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
Total Module Length:L	1265	1315	1365	1415	1465	1515	1565	1615	1665	1715	1765	1815	1865	1915	1965	2015	2065	2115	2165	2215
Number of Holes:N	22	22	22	24	24	26	26	26	28	28	30	30	32	32	34	34	36	36	36	36
Distance from Hole to End:A	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5
Module Mass(KG)	47.9	49.7	51.4	53.1	54.9	56.6	58.3	60	61.77	63.5	65.2	67	68.68	70.4	72.1	73.9	75.6	77.3	79.05	80.8
Moving Component Mass(KG)	4.83																			

Overall Dimensions

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Product appearance and specifications are subject to change without prior notice.

ZWM235 Linear Motor Module

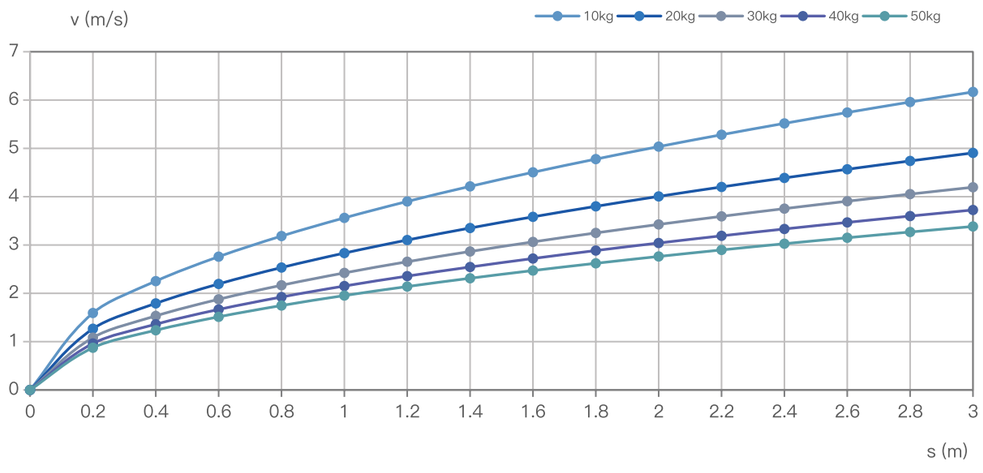
ZWM235-3-H95-2

Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H95-2	468	1296	3.22	10.29	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	300	105	47~1997(50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.6	2.8	3.2	3.6	3.9	4.2	4.5	4.8	5.0	5.3	5.5	5.7	6.0	6.2
20kg	1.3	2.2	2.5	2.8	3.1	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.7	4.9
30kg	1.1	1.9	2.2	2.4	2.7	2.9	3.1	3.2	3.4	3.6	3.8	3.9	4.1	4.2
40kg	1.0	1.7	1.9	2.2	2.4	2.5	2.7	2.9	3.0	3.2	3.3	3.5	3.6	3.7
50kg	0.9	1.5	1.7	2.0	2.1	2.3	2.5	2.6	2.8	2.9	3.0	3.2	3.3	3.4

Effective Travel:S	47	97	147	197	247	297	347	397	447	497	547	597	647	697	747	797	847	897	947	997
Mechanical Travel S+(Allowance)	61	111	161	211	261	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011
Total Module Length:L	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317
Number of Holes:N	6	6	8	8	10	10	12	12	12	14	14	16	16	16	18	18	20	20	22	22
Distance from Hole to End:A	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5
Module Mass(KG)	19.3	21	22.72	24.4	26.2	27.9	29.6	31.3	33.03	34.8	36.5	38.2	39.9	41.6	43.3	45.1	46.8	48.5	50.21	51.9
Moving Component Mass(KG)	7.22																			

Effective Travel:S	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
Mechanical Travel S+(Allowance)	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011
Total Module Length:L	1367	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2257	2317
Number of Holes:N	22	24	24	26	26	26	28	28	30	30	32	32	32	34	34	36	36	36	38	38
Distance from Hole to End:A	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5
Module Mass(KG)	53.6	55.4	57.08	58.8	60.5	62.4	64	65.7	67.39	69.1	70.8	72.5	74.26	76	77.7	79.4	81.2	82.9	84.57	86.3
Moving Component Mass(KG)	7.22																			

Overall Dimensions

Unit:mm

This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWM235 Linear Motor Module

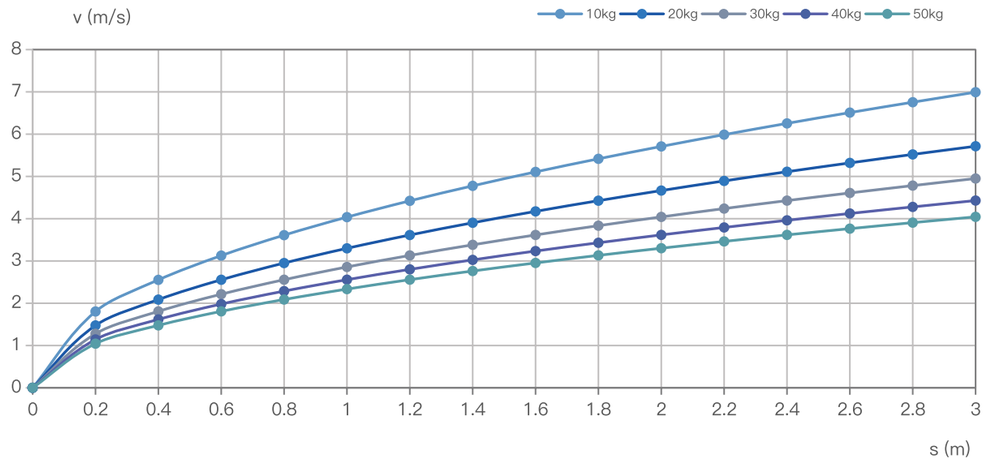
ZWM235-3-H95-3

Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H95-3	702	1944	3.22	10.29	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	300	105	10~1960 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



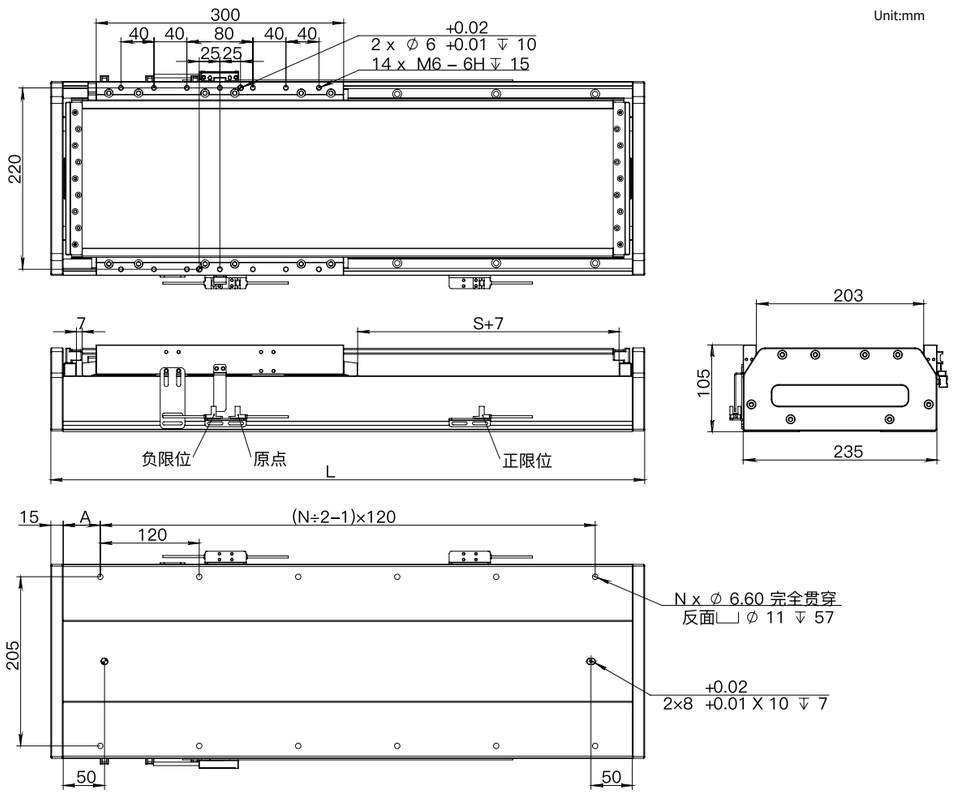
Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.8	3.1	3.6	4.0	4.4	4.8	5.1	5.4	5.7	6.0	6.3	6.5	6.8	7.0
20kg	1.5	2.6	3.0	3.3	3.6	3.9	4.2	4.4	4.7	4.9	5.1	5.3	5.5	5.7
30kg	1.3	2.2	2.6	2.9	3.1	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0
40kg	1.1	2.0	2.3	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.4
50kg	1.0	1.8	2.1	2.3	2.6	2.8	3.0	3.1	3.3	3.5	3.6	3.8	3.9	4.0

Effective Travel:S	10	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
Mechanical Travel S+(Allowance)	24	74	124	174	224	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974
Total Module Length:L	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370
Number of Holes:N	6	8	8	10	10	12	12	12	14	14	16	16	16	18	18	20	20	22	22	22
Distance from Hole to End:A	75	40	65	30	55	20	45	70	35	60	25	50	75	40	65	30	55	20	45	70
Module Mass(KG)	23.9	25.6	27.36	29.1	30.8	32.6	34.3	36.1	37.79	39.5	41.3	43	44.74	46.5	48.2	50	51.7	53.4	55.17	56.9
Moving Component Mass(KG)	10.1																			

Effective Travel:S	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
Mechanical Travel S+(Allowance)	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
Total Module Length:L	1420	1470	1520	1570	1620	1670	1720	1770	1820	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370
Number of Holes:N	24	24	26	26	26	28	28	30	30	32	32	32	34	34	36	36	36	38	38	40
Distance from Hole to End:A	35	60	25	50	75	40	65	30	55	20	45	70	35	60	25	50	75	40	65	30
Module Mass(KG)	58.6	60.4	62.12	63.9	65.6	67.3	69.1	70.8	72.55	74.3	76	77.8	79.5	81.2	83	84.7	86.5	88.2	89.93	91.7
Moving Component Mass(KG)	10.1																			

Overall Dimensions

Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWM235 Linear Motor Module

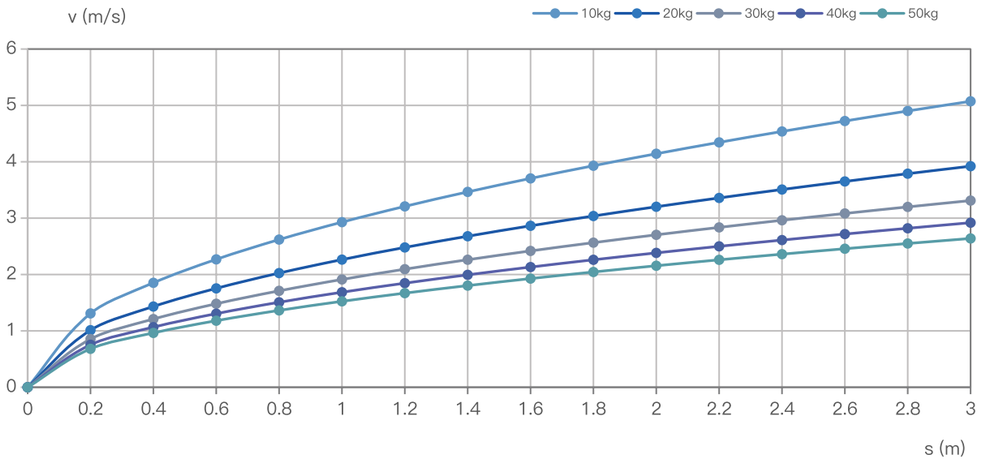
ZWM235-3-H105-1

Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H105-1	273	759	3.38	10.28	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	300	105	35~1985 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load

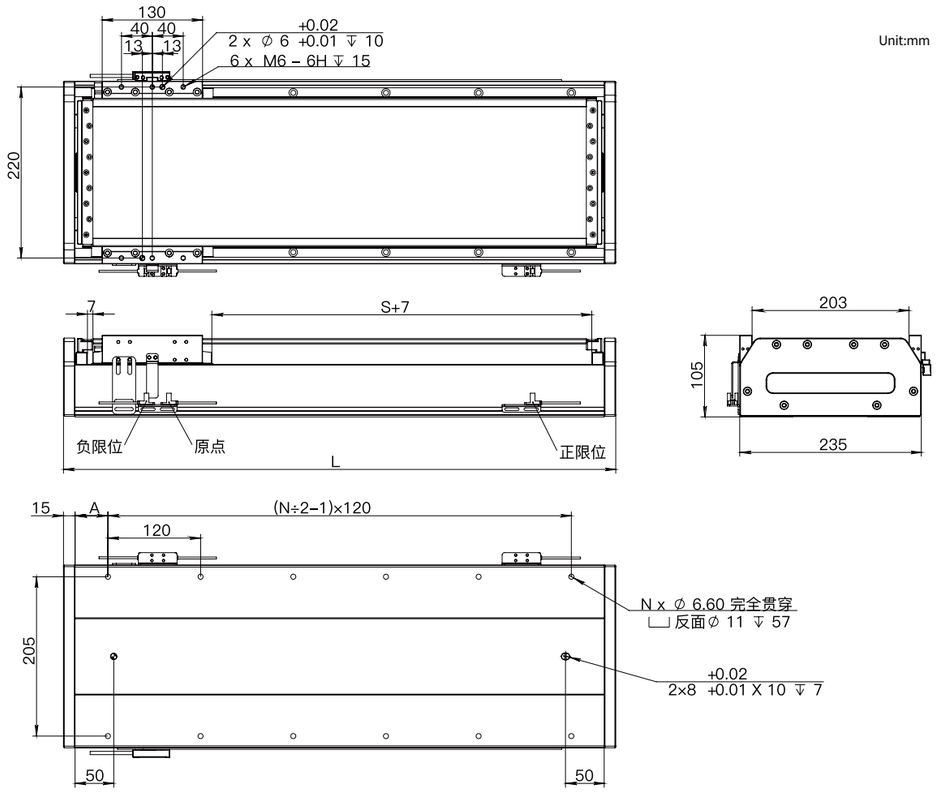


Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.3	2.3	2.6	2.9	3.2	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.1
20kg	1.0	1.8	2.0	2.3	2.5	2.7	2.9	3.0	3.2	3.4	3.5	3.7	3.8	3.9
30kg	0.9	1.5	1.7	1.9	2.1	2.3	2.4	2.6	2.7	2.8	3.0	3.1	3.2	3.3
40kg	0.8	1.3	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
50kg	0.7	1.2	1.4	1.5	1.7	1.8	1.9	2.0	2.2	2.3	2.4	2.5	2.6	2.6

Effective Travel:S	35	85	135	185	235	285	335	385	435	485	535	585	635	685	735	785	835	885	935	985
Mechanical Travel S+(Allowance)	49	99	149	199	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
Total Module Length:L	265	315	365	415	465	515	565	615	665	715	765	815	865	915	965	1015	1065	1115	1165	1215
Number of Holes:N	4	6	6	6	8	8	10	10	12	12	12	14	14	16	16	16	18	18	20	20
Distance from Hole to End:A	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5
Module Mass(KG)	14.4	16.1	17.84	18.6	21.3	23	24.8	26.5	28.21	29.9	31.7	33.4	35.12	36.8	38.6	40.3	42	43.8	45.49	47.2
Moving Component Mass(KG)	4.85																			

Effective Travel:S	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
Mechanical Travel S+(Allowance)	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
Total Module Length:L	1265	1315	1365	1415	1465	1515	1565	1615	1665	1715	1765	1815	1865	1915	1965	2015	2065	2115	2165	2215
Number of Holes:N	22	22	22	24	24	26	26	26	28	28	30	30	32	32	32	34	34	36	36	36
Distance from Hole to End:A	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	72.5
Module Mass(KG)	48.9	50.7	52.4	54.1	55.9	57.6	59.3	61	62.77	64.5	66.2	69	69.68	71.4	73.1	74.9	76.6	78.3	80.05	81.8
Moving Component Mass(KG)	4.85																			

Overall Dimensions



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Product appearance and specifications are subject to change without prior notice.

ZWM235 Linear Motor Module

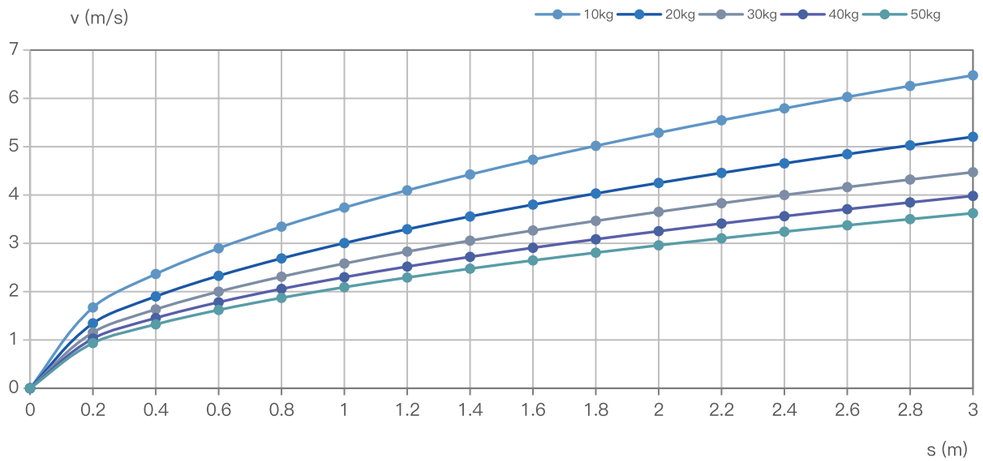
ZWM235-3-H105-2

Specifications

Motor Type ZW3-H105-2	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	546	1518	3.38	10.28	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	300	105	47~1997(50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load

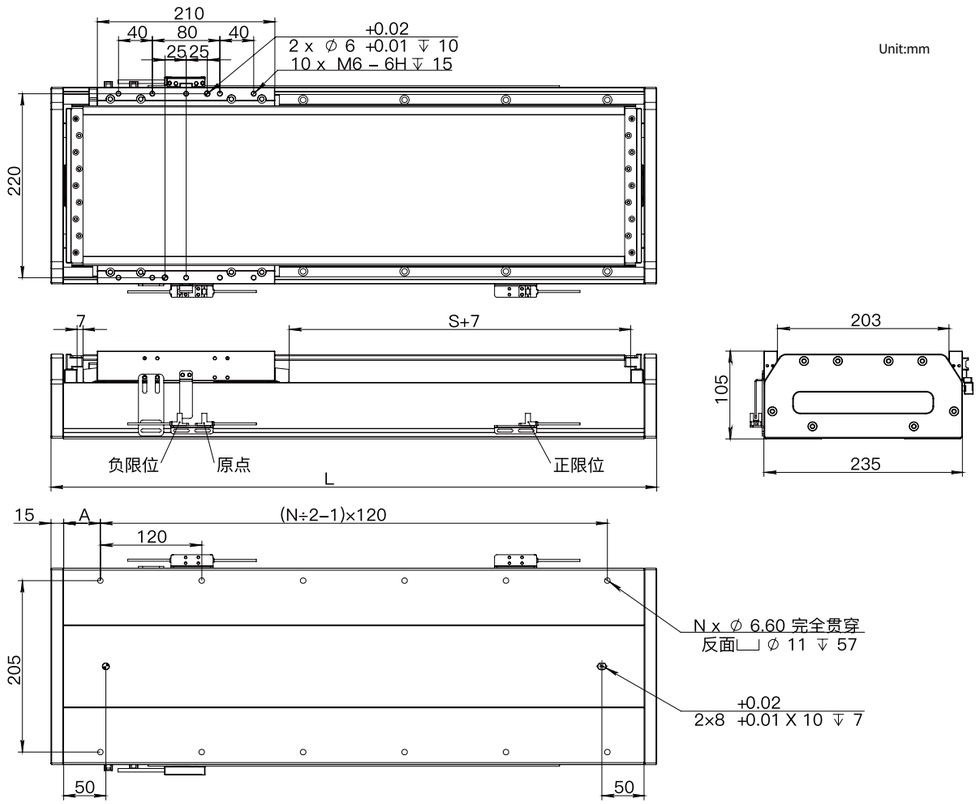


Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.7	2.9	3.3	3.7	4.1	4.4	4.7	5.0	5.3	5.5	5.8	6.0	6.3	6.5
20kg	1.3	2.3	2.7	3.0	3.3	3.6	3.8	4.0	4.2	4.5	4.7	4.8	5.0	5.2
30kg	1.2	2.0	2.3	2.6	2.8	3.1	3.3	3.5	3.7	3.8	4.0	4.2	4.3	4.5
40kg	1.0	1.8	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.4	3.6	3.7	3.8	4.0
50kg	0.9	1.6	1.9	2.1	2.3	2.5	2.6	2.8	3.0	3.1	3.2	3.4	3.5	3.6

Effective Travel:S	47	97	147	197	247	297	347	397	447	497	547	597	647	697	747	797	847	897	947	997
Mechanical Travel S+(Allowance)	61	111	161	211	261	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011
Total Module Length:L	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317
Number of Holes:N	6	6	8	8	10	10	12	12	12	14	14	16	16	18	18	18	20	20	22	22
Distance from Hole to End:A	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5
Module Mass(KG)	21.3	23	24.72	26.4	28.2	30.9	32.6	34.3	36.03	37.8	38.5	40.2	41.9	43.6	45.3	47.1	48.8	50.5	52.21	53.9
Moving Component Mass(KG)	8.22																			

Effective Travel:S	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
Mechanical Travel S+(Allowance)	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011
Total Module Length:L	1367	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2257	2317
Number of Holes:N	22	24	24	26	26	26	28	28	30	30	32	32	32	34	34	36	36	36	38	38
Distance from Hole to End:A	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	23.5	48.5	73.5	38.5	63.5
Module Mass(KG)	55.6	57.4	59.08	60.8	62.5	64.2	66	67.7	69.39	71.1	72.8	74.5	76.26	78	79.7	81.4	83.1	84.9	86.57	88.3
Moving Component Mass(KG)	8.22																			

Overall Dimensions



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Product appearance and specifications are subject to change without prior notice.

ZWM235 Linear Motor Module

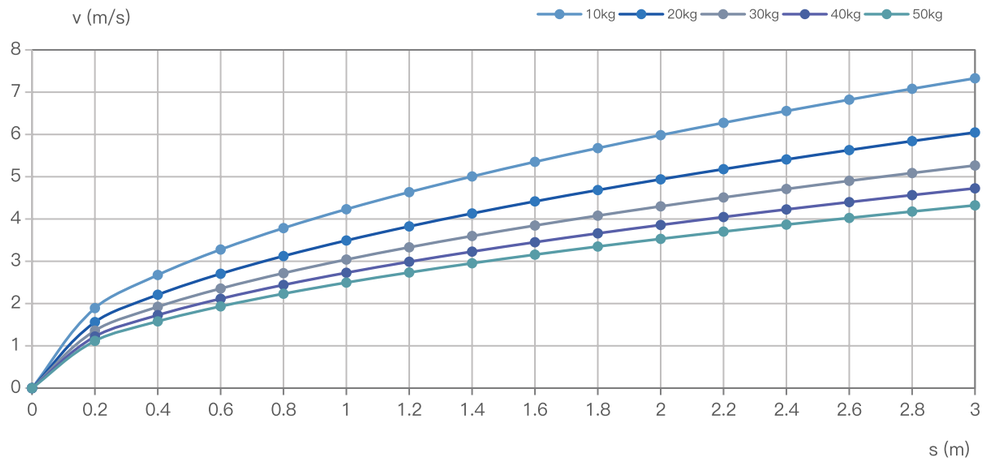
ZWM235-3-H105-3

Specifications

Motor Type ZW3-H105-3	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	819	2277	3.38	10.28	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	300	105	10~1960 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



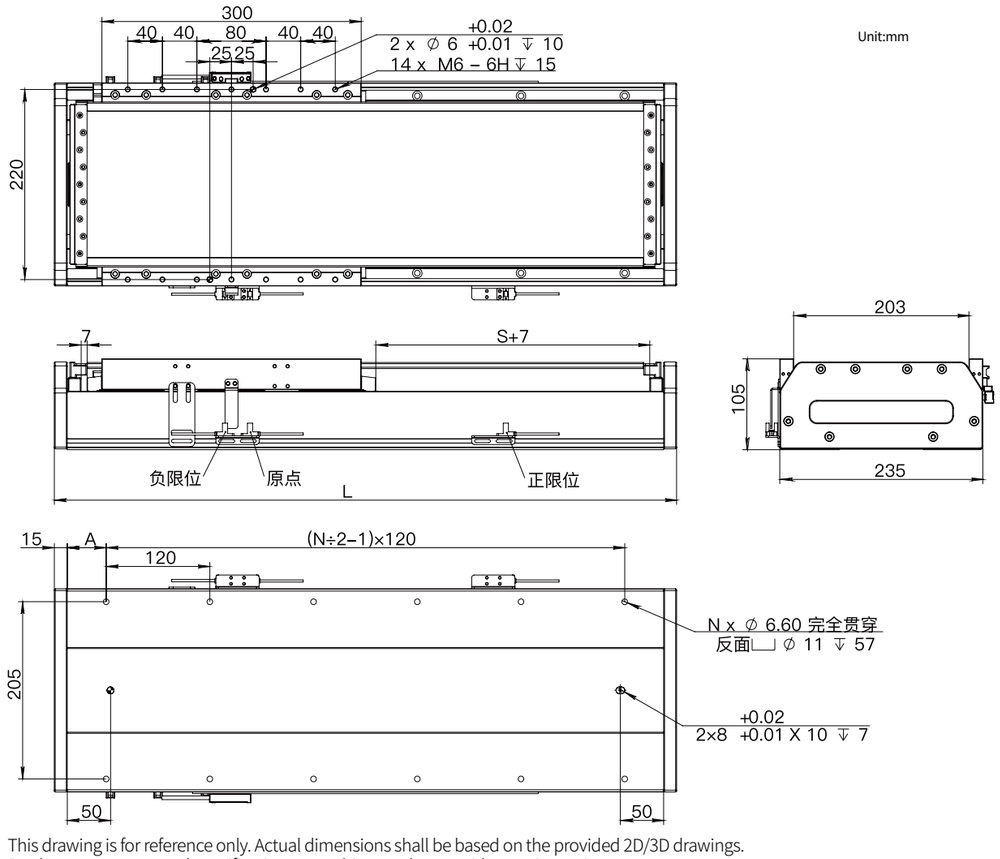
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.9	3.3	3.8	4.2	4.6	5.0	5.4	5.7	6.0	6.3	6.6	6.8	7.1	7.3
20kg	1.6	2.7	3.1	3.5	3.8	4.1	4.4	4.7	4.9	5.2	5.4	5.6	5.8	6.0
30kg	1.4	2.4	2.7	3.0	3.3	3.6	3.8	4.1	4.3	4.5	4.7	4.9	5.1	5.3
40kg	1.2	2.1	2.4	2.7	3.0	3.2	3.5	3.7	3.9	4.0	4.2	4.4	4.6	4.7
50kg	1.1	1.9	2.2	2.5	2.7	3.0	3.2	3.3	3.5	3.7	3.9	4.0	4.2	4.3

Effective Travel:S	10	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
Mechanical Travel S+(Allowance)	24	74	124	174	224	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974
Total Module Length:L	420	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370
Number of Holes:N	6	8	8	10	10	12	12	12	14	14	16	16	16	18	18	20	20	22	22	22
Distance from Hole to End:A	75	40	65	30	55	20	45	70	35	60	25	50	75	40	65	30	55	20	45	70
Module Mass(KG)	25.9	27.6	29.36	31.1	32.8	34.6	36.3	38.1	39.79	41.5	43.3	45	46.74	48.5	50.2	52	53.7	55.4	57.17	58.9
Moving Component Mass(KG)	11.35																			

Effective Travel:S	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
Mechanical Travel S+(Allowance)	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
Total Module Length:L	1420	1470	1520	1570	1620	1670	1720	1770	1820	1870	1920	1970	2020	2070	2120	2170	2220	2270	2320	2370
Number of Holes:N	24	24	26	26	26	28	28	30	30	32	32	32	34	34	36	36	36	38	38	40
Distance from Hole to End:A	35	60	25	50	75	40	65	30	55	20	45	70	35	60	25	50	75	40	65	30
Module Mass(KG)	60.6	62.4	64.12	65.9	67.6	69.3	71.1	72.8	74.55	76.3	78	79.8	81.5	83.2	85	86.7	88.5	90.2	91.93	93.7
Moving Component Mass(KG)	11.35																			

Overall Dimensions

Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

Linear Motor Fully Sealed module

With the rapid development of industrial technology, the demands for processing precision and speed in manufacturing have continuously increased. Coupled with the technical limitations of traditional transmission methods such as lead screws and synchronous belts, linear motor technology has perfectly replaced and upgraded these methods in relevant technical fields. At the same time, it meets and addresses the application requirements of advanced processing technologies across various industries.

Zhiwei Precision linear motor modules, featuring high precision, high speed, smooth operation, simple structure, high integration, standardized series, and cost-effectiveness, have been widely applied across many industries and are highly recognized and favored by the industry. From simple material handling and conveying to precision measurement and machining, Zhiwei Precision linear motor technology can be applied to a wide range of processing methods and working conditions.

Moreover, with features like flexible customizable combinations, high stability, and cost-effectiveness, these modules can meet diverse customer application requirements.

Application

Linear motors are widely applied across various industries, mainly including the 3C industry, new energy industry, photovoltaic industry, laser processing industry, semiconductor industry, automotive industry, and LCD panel industry, among others.

Characteristics of Linear Motor Modules

Advantages

1) Molded parts and standardization, lower cost
2) Compact structure
3) Supports multi-axis combination applications (Z-axis, cross, cantilever, gantry, etc.), flexible and versatile
4) Supports multiple mover stages
5) Travel can be extended indefinitely
6) High precision, optional feedback units, up to sub-micron level
7) Easy to customize, flexible design
8) Wide range of applications

Disadvantages

1.Higher cost compared to traditional transmission methods
2) Motion control is relatively complex

ZWMS Series Linear Motor Module

Naming Rules

ZWMS | 140 | - | 1 | - | L 00 | - | M | 0.5 | S0 | - | 3-H35-1 | H | - | 5 | D00

1 Motor Type

Code	Motor Type
ZWM	Linear Motor Module
ZWMS	Fully Sealed Linear Motor Module

2 Module Width

Code	Module Width
140	140 mm
170	170 mm
210	210 mm
235	235 mm
…	…

3 Number of Carriages

Code	Number of Carriages
1	Single Carriage (Standard)
2	Dual Carriage (Customized)
…	…

4 Effective Travel

Code	Effective Travel
L200	200 mm
L300	300 mm
…	…

5 Feedback Type

Code	Feedback Type
M	Magnetic Scale
G	Optical Encoder
…	…

6 Resolution

Code	Resolution
1	1 um
0.5	0.5 um
…	…

7 Limit Type

Code	Limit Type
/	Photoelectric Switch
S0	Encoder Built-in Limit

8 Motor Type

Code	Motor Type
3-H35-1	ZW3-H35-1
3-H35-2	ZW3-H35-2
3-H35-3	ZW3-H35-3
30A-1	ZWU-30A-1
30A-2	ZWU-30A-2
…	…

9 Hall Sensor

Code	Hall Sensor
/	Hall Sensor Without
H	Hall Sensor With

10 Cable Length

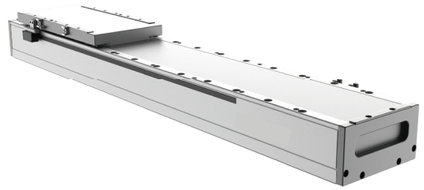
Code	Cable Length
1	1 m
2	2 m
/	5 m(Standard)
…	…

11 Customization

Code	Customization
/	Standard
D00	Standard Module Customization
D01	Gantry Stage Customization

ZWMS140 Linear Motor Module

ZWMS140-3-H20-1

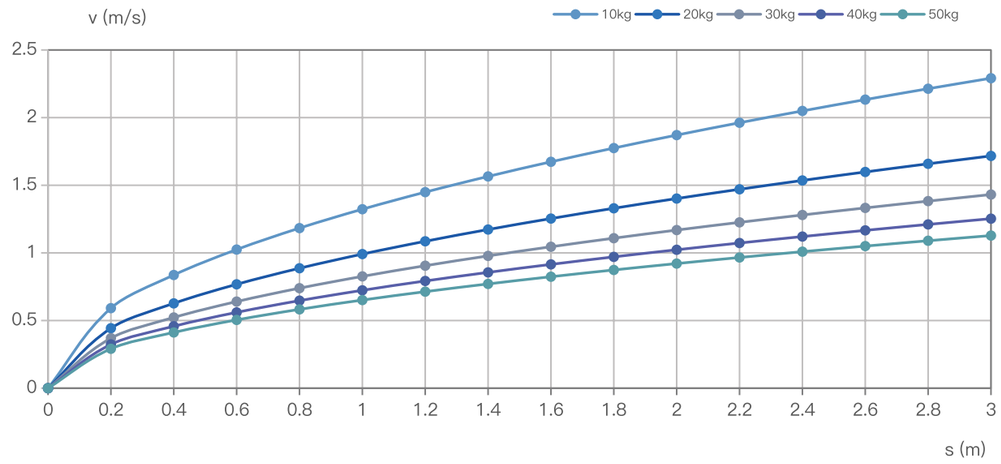


Specifications

Motor Type ZW3-H105-3	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	48	138	3.39	10.34	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	30	89.5	35~1985 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load

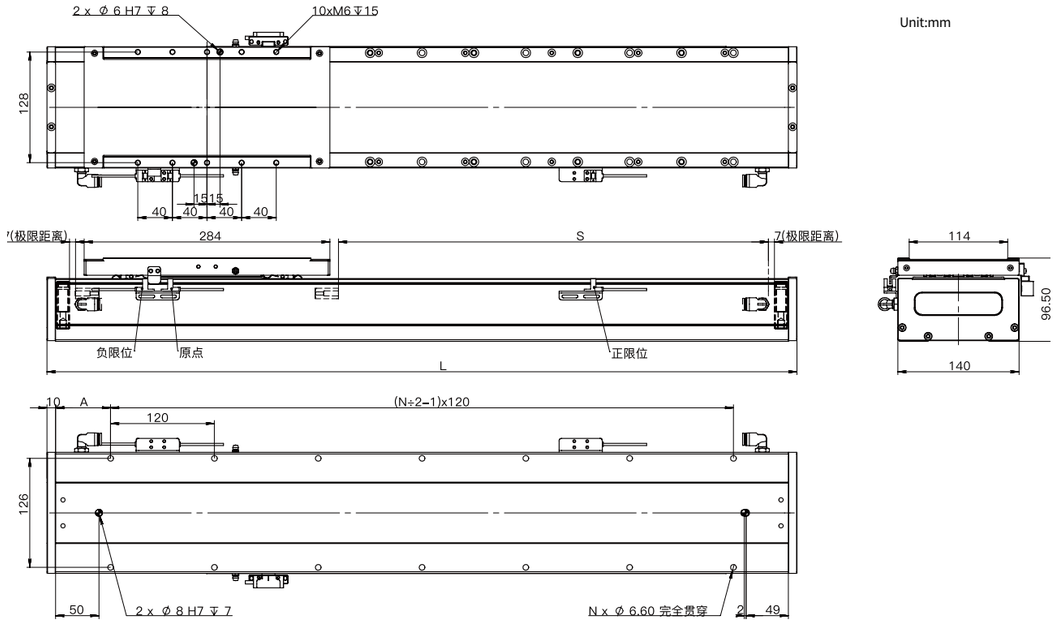


Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.6	1.0	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.0	2.1	2.2	2.3
20kg	0.4	0.8	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7
30kg	0.4	0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.4
40kg	0.3	0.6	0.6	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3
50kg	0.3	0.5	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1

Effective Travel:S	35	85	135	185	235	285	335	385	435	485	535	585	635	685	735	785	835	885	935	985
Mechanical Travel S+(Allowance)	49	99	149	199	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
Total Module Length:L	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355
Number of Holes:N	8	8	8	10	10	12	12	12	14	14	16	16	16	18	18	18	20	20	22	22
Distance from Hole to End:A	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5
Module Mass(KG)	9.8	10.6	11.4	12.2	13	13.8	14.6	15.4	16.2	17	17.8	18.6	19.4	20.2	21	21.8	22.6	23.4	24.2	25
Moving Component Mass(KG)	2.8																			

Effective Travel:S	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
Mechanical Travel S+(Allowance)	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
Total Module Length:L	1405	1455	1505	1555	1605	1655	1705	1755	1805	1855	1905	1955	2005	2055	2105	2155	2205	2255	2305	2355
Number of Holes:N	24	24	26	26	28	28	28	30	30	32	32	32	34	34	36	36	38	38	38	40
Distance from Hole to End:A	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5
Module Mass(KG)	25.8	26.6	27.4	28.2	29	29.8	30.6	31.4	32.3	33	33.8	34.6	35.4	36.2	37	37.8	38.6	39.4	40.2	41
Moving Component Mass(KG)	2.8																			

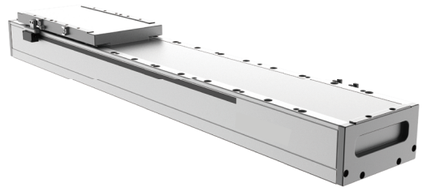
Overall Dimensions



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS140 Linear Motor Module

ZWMS140-3-H20-2

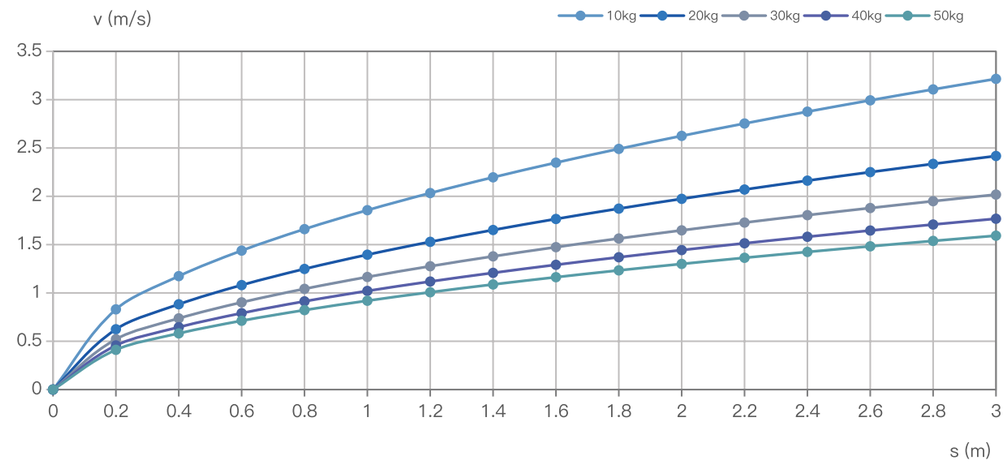


Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H20-2-M01	96	276	3.39	10.34	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	30	89.5	47~1997 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



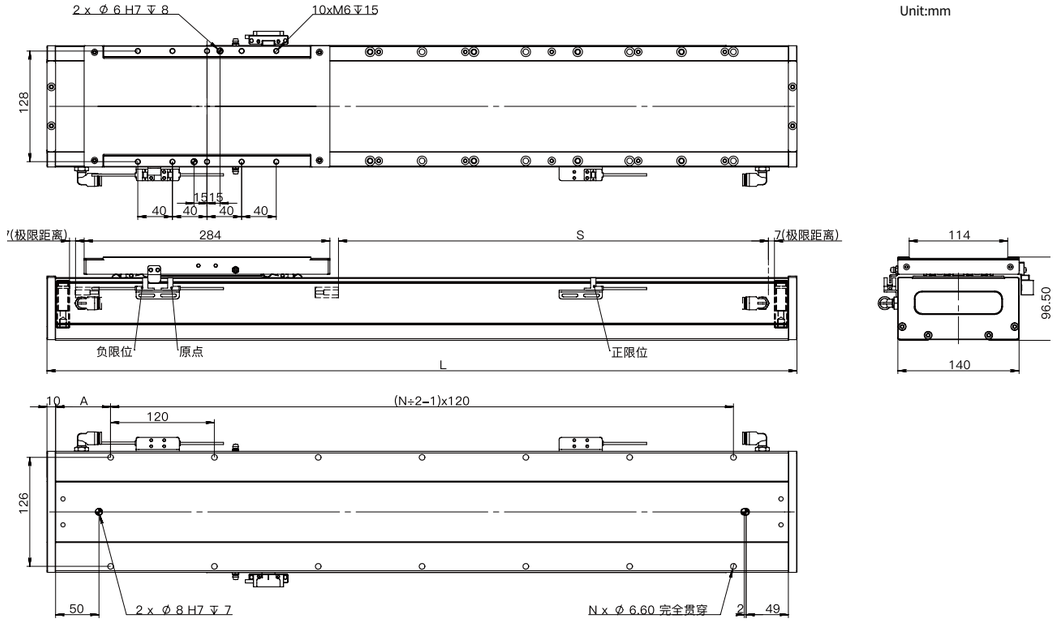
Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.8	1.4	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.8	2.9	3.0	3.1	3.2
20kg	0.6	1.1	1.2	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.3	2.4
30kg	0.5	0.9	1.0	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	1.9	2.0
40kg	0.5	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8
50kg	0.4	0.7	0.8	0.9	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6

Effective Travel:S	47	97	147	197	247	297	347	397	447	497	547	597	647	697	747	797	847	897	947	997
Mechanical Travel S+(Allowance)	61	111	161	211	261	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011
Total Module Length:L	417	467	517	567	617	23.5	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367
Number of Holes:N	8	8	8	10	10	12	12	14	14	14	16	16	18	18	18	20	20	22	22	24
Distance from Hole to End:A	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5
Module Mass(KG)	10.8	11.6	12.4	13.2	14	14.8	15.6	16.4	17.2	18	18.8	19.6	20.4	21.2	22	22.8	23.6	24.4	25.2	26
Moving Component Mass(KG)	3.0																			

Effective Travel:S	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
Mechanical Travel S+(Allowance)	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011
Total Module Length:L	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2267	2317	2367
Number of Holes:N	24	24	26	26	28	28	28	30	30	32	32	34	34	34	36	36	38	38	38	40
Distance from Hole to End:A	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5
Module Mass(KG)	26.8	27.6	28.4	29.2	30	30.8	31.6	32.4	33.2	34	34.8	35.6	36.4	37.2	38	38.8	39.6	40.4	41.2	42
Moving Component Mass(KG)	3.0																			

Overall Dimensions

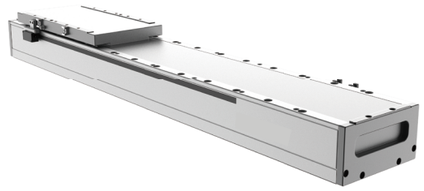
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS140 Linear Motor Module

ZWMS140-3-H20-3

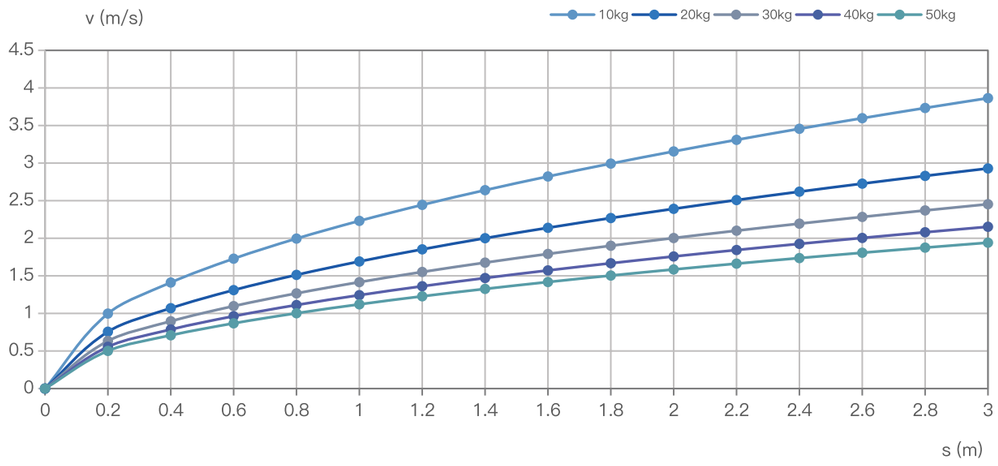


Specifications

Motor Type ZW3-H20-3-M01	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	144	414	3.39	10.34	4	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	30	89.5	10~1960 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



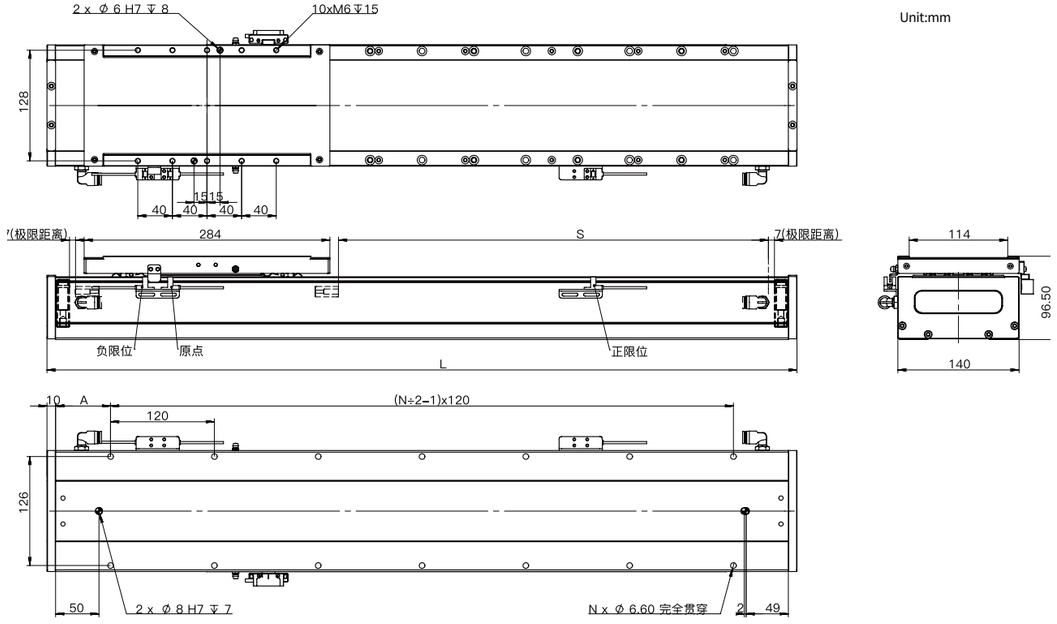
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.0	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.3	3.5	3.6	3.7	3.9
20kg	0.8	1.3	1.5	1.7	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
30kg	0.6	1.1	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
40kg	0.6	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.8	1.8	1.9	2.0	2.1	2.2
50kg	0.5	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	1.9

Effective Travel:S	10	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
Mechanical Travel S+(Allowance)	24	74	124	174	224	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974
Total Module Length:L	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330
Number of Holes:N	6	8	8	10	10	10	12	12	14	14	16	16	16	18	18	20	20	20	22	22
Distance from Hole to End:A	60	25	50	15	40	65	30	55	20	45	10	35	60	25	50	15	40	65	30	55
Module Mass(KG)	9.8	10.6	11.4	12.2	13	13.8	14.6	15.4	16.2	17	17.8	18.6	19.4	20.2	21	21.8	22.6	23.4	24.2	25
Moving Component Mass(KG)	3.5																			

Effective Travel:S	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
Mechanical Travel S+(Allowance)	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
Total Module Length:L	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930	1980	2030	2080	2130	2180	2230	2280	2330
Number of Holes:N	24	24	26	26	26	28	28	30	30	30	32	32	34	34	36	36	36	38	38	40
Distance from Hole to End:A	20	45	10	35	60	25	50	15	40	65	30	55	20	45	10	35	60	25	50	15
Module Mass(KG)	25.8	26.6	27.4	28.2	29	29.8	30.6	31.4	32.3	33	33.8	34.6	35.4	36.2	37	37.8	38.6	39.4	40.2	41
Moving Component Mass(KG)	3.5																			

Overall Dimensions

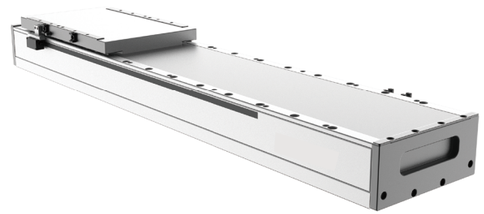
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS170 Linear Motor Module

ZWMS170-3-H35-1

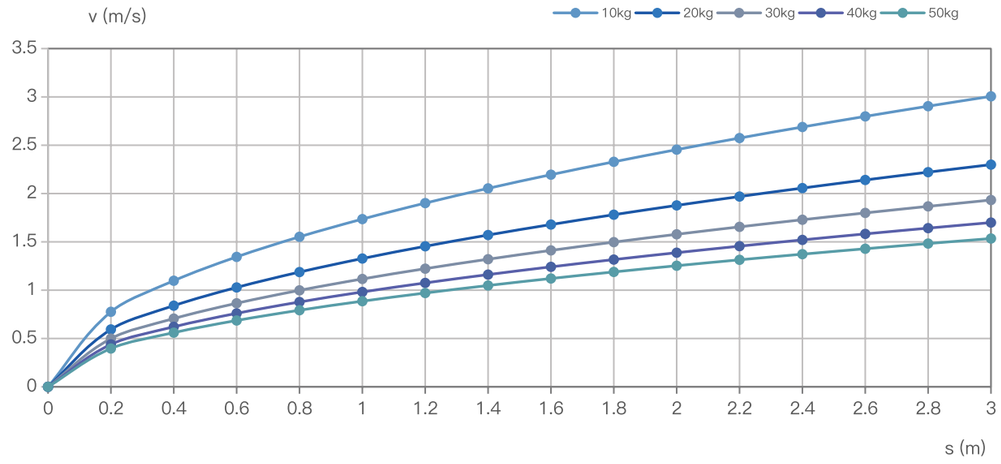


Specifications

Motor Type ZW3-H35-1	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	91	252	3.38	10.31	4	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	100	96.5	35~1985 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



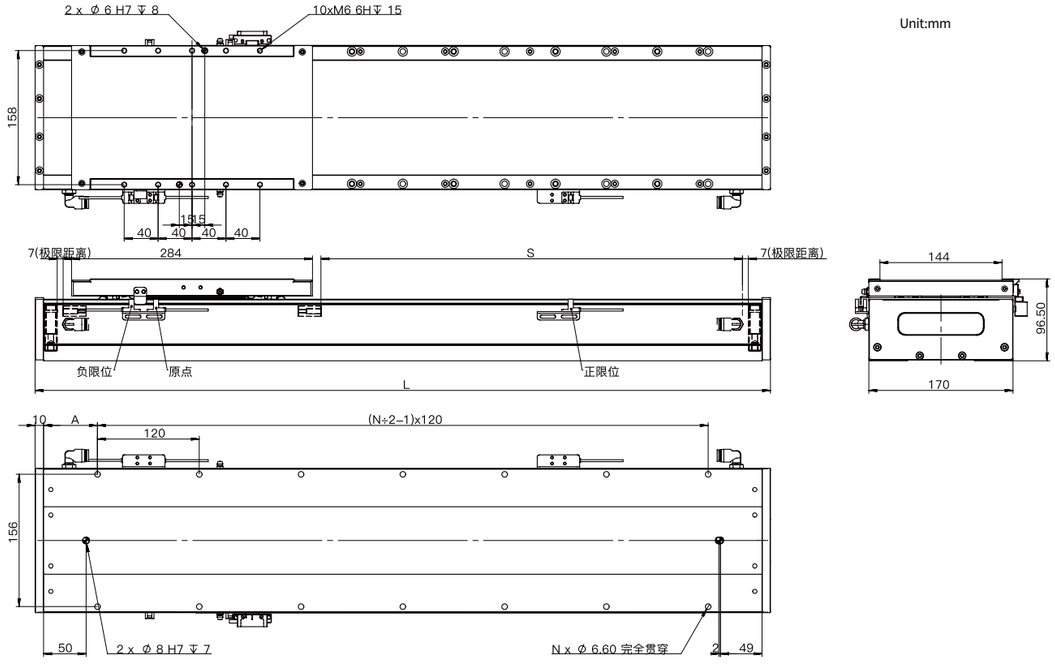
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.8	1.3	1.6	1.7	1.9	2.1	2.2	2.3	2.5	2.6	2.7	2.8	2.9	3.0
20kg	0.6	1.0	1.2	1.3	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2	2.3
30kg	0.5	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	1.9
40kg	0.4	0.8	0.9	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.6	1.7
50kg	0.4	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.5

Effective Travel:S	35	85	135	185	235	285	335	385	435	485	535	585	635	685	735	785	835	885	935	985
Mechanical Travel S+(Allowance)	49	99	149	199	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
Total Module Length:L	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355
Number of Holes:N	8	8	8	10	10	12	12	12	14	14	16	16	18	18	18	20	20	22	22	22
Distance from Hole to End:A	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5
Module Mass(KG)	12.2	13.2	14.2	15.2	16.2	17.2	18.2	19.2	20.2	21.2	22.2	23.2	24.2	25.2	26.2	27.2	28.2	29.2	30.2	31.2
Moving Component Mass(KG)	4.1																			

Effective Travel:S	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
Mechanical Travel S+(Allowance)	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
Total Module Length:L	1405	1455	1505	1555	1605	1655	1705	1755	1805	1855	1905	1955	2005	2055	2105	2155	2205	2255	2305	2355
Number of Holes:N	24	24	26	26	28	28	28	30	30	32	32	32	34	34	36	36	38	38	38	40
Distance from Hole to End:A	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5
Module Mass(KG)	32.2	33.2	34.2	35.2	36.2	37.2	38.2	39.2	40.2	41.2	42.2	43.2	44.2	45.2	46.2	47.2	48.2	49.2	50.2	51.2
Moving Component Mass(KG)	4.1																			

Overall Dimensions

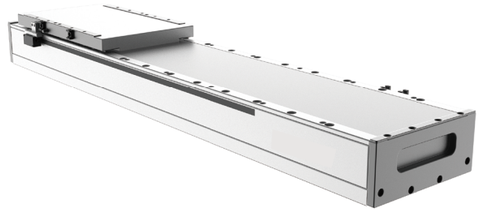
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS170 Linear Motor Module

ZWMS170-3-H35-2

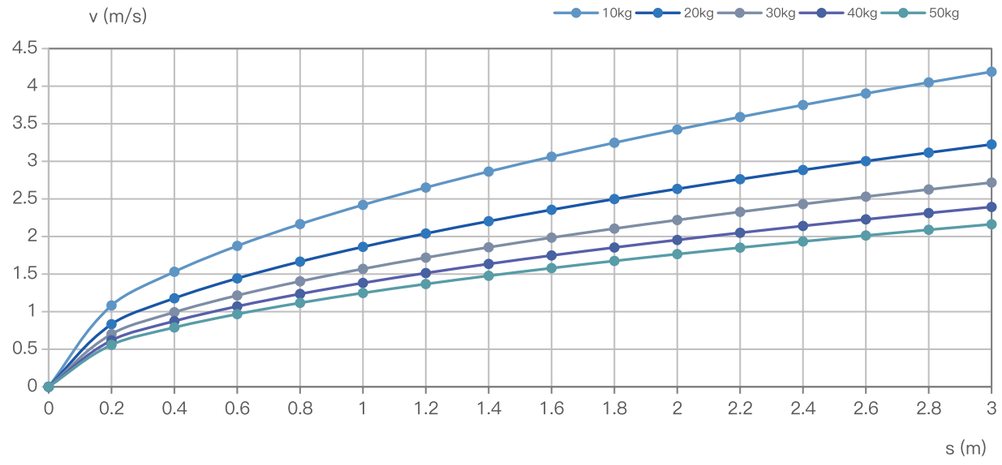


Specifications

Motor Type ZW3-H35-2	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	182	504	3.38	10.31	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	100	96.5	47~1997 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load

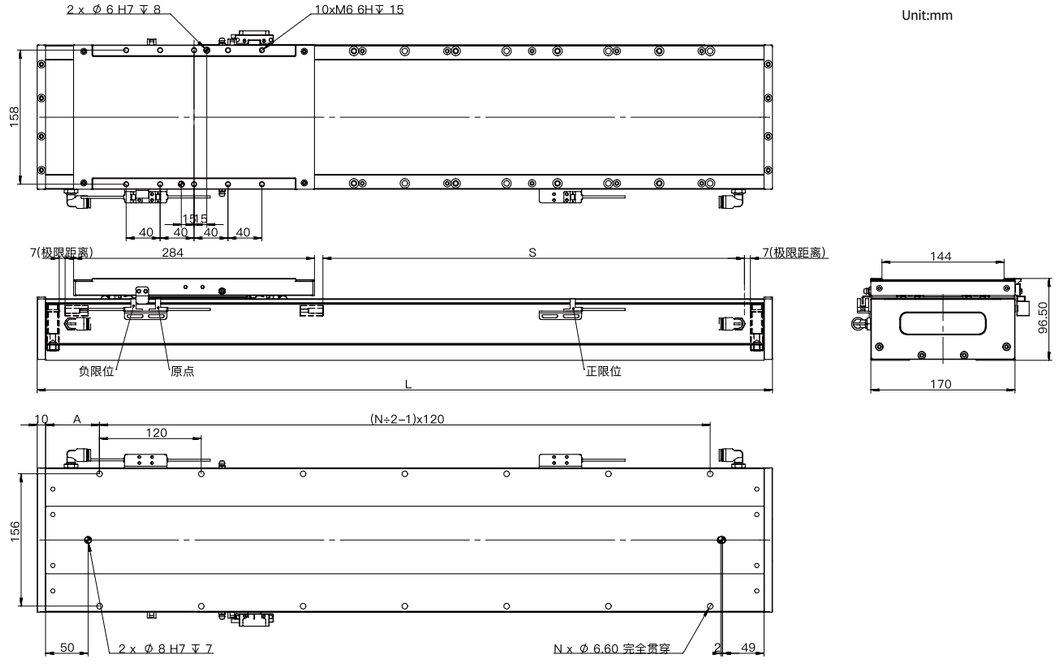


Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.1	1.9	2.2	2.4	2.7	2.9	3.1	3.2	3.4	3.6	3.7	3.9	4.0	4.2
20kg	0.8	1.4	1.7	1.9	2.0	2.2	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.2
30kg	0.7	1.2	1.4	1.6	1.7	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7
40kg	0.6	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.0	2.0	2.1	2.2	2.3	2.4
50kg	0.6	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.8	1.9	1.9	2.0	2.1	2.2

Effective Travel:S	47	97	147	197	247	297	347	397	447	497	547	597	647	697	747	797	847	897	947	997
Mechanical Travel S+(Allowance)	61	111	161	211	261	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011
Total Module Length:L	417	467	517	567	617	23.5	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367
Number of Holes:N	8	8	8	10	10	12	12	14	14	14	16	16	18	18	18	20	20	22	22	24
Distance from Hole to End:A	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5
Module Mass(KG)	13.2	14.2	15.2	16.2	17.2	18.2	19.2	20.2	21.2	22.2	23.2	24.2	25.2	26.2	27.2	28.2	29.2	30.2	31.2	32.2
Moving Component Mass(KG)	4.5																			

Effective Travel:S	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
Mechanical Travel S+(Allowance)	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011
Total Module Length:L	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2267	2317	2367
Number of Holes:N	24	24	26	26	28	28	28	30	30	32	32	34	34	34	36	36	38	38	38	40
Distance from Hole to End:A	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5
Module Mass(KG)	33.2	34.2	35.2	36.2	37.2	38.2	39.2	40.2	41.2	42.2	43.2	44.2	45.2	46.2	47.2	48.2	49.2	50.2	51.2	52.2
Moving Component Mass(KG)	4.5																			

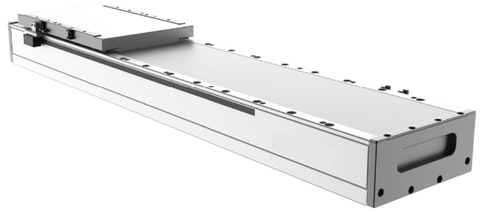
Overall Dimensions



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS170 Linear Motor Module

ZWMS170-3-H35-3

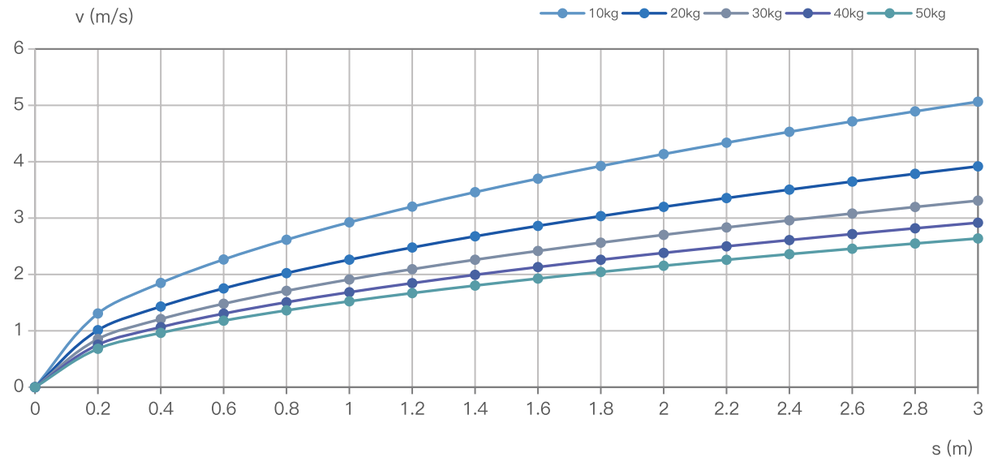


Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H35-3	273	756	3.38	10.31	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	100	96.5	10~1960 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



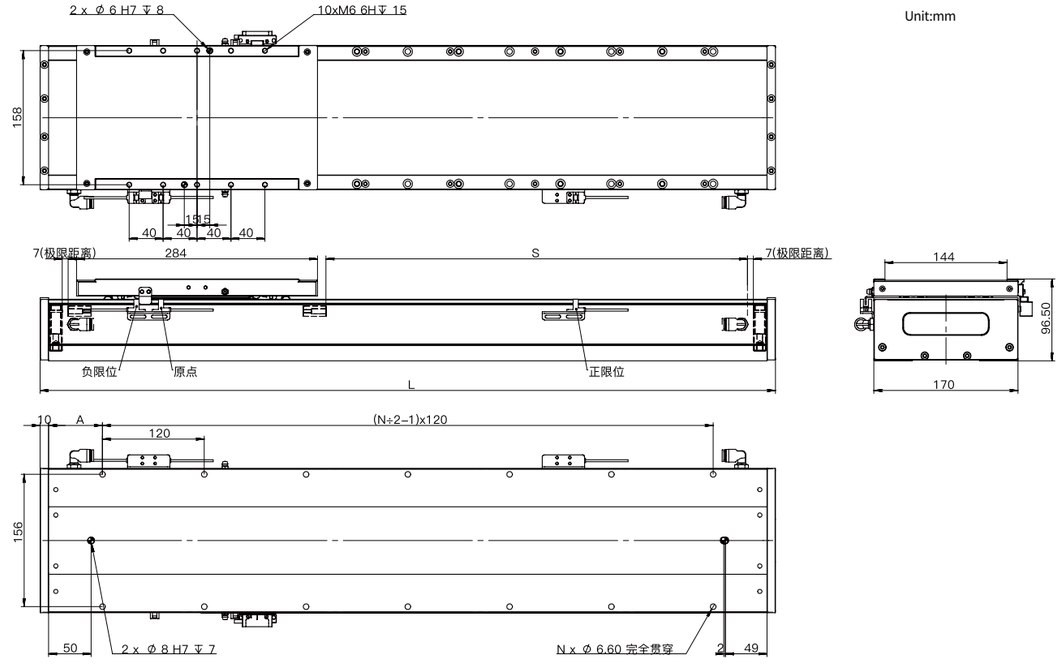
Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.3	2.3	2.6	2.9	3.2	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.1
20kg	1.0	1.8	2.0	2.3	2.5	2.7	2.9	3.0	3.2	3.4	3.5	3.6	3.8	3.9
30kg	0.9	1.5	1.7	1.9	2.1	2.3	2.4	2.6	2.7	2.8	3.0	3.1	3.2	3.3
40kg	0.8	1.3	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
50kg	0.7	1.2	1.4	1.5	1.7	1.8	1.9	2.0	2.2	2.3	2.4	2.5	2.5	2.6

Effective Travel:S	10	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
Mechanical Travel S+(Allowance)	24	74	124	174	224	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974
Total Module Length:L	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330
Number of Holes:N	6	8	8	10	10	10	12	12	14	14	16	16	16	18	18	20	20	20	22	22
Distance from Hole to End:A	60	25	50	15	40	40	30	55	20	45	10	35	60	25	50	15	40	65	30	55
Module Mass(KG)	13.1	14.1	15.1	16.1	17.1	17.1	19.1	20.1	21.1	22.1	23.1	24.1	25.1	26.1	27.1	28.1	29.1	30.1	31.1	32.1
Moving Component Mass(KG)	4.9																			

Effective Travel:S	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
Mechanical Travel S+(Allowance)	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
Total Module Length:L	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930	1980	2030	2080	2130	2180	2230	2280	2330
Number of Holes:N	24	24	26	26	26	28	28	30	30	32	32	34	34	34	36	36	36	38	38	40
Distance from Hole to End:A	20	45	10	35	60	25	50	15	40	65	30	55	20	45	10	35	60	25	50	15
Module Mass(KG)	33.1	34.1	35.1	36.1	37.1	38.1	39.1	40.1	41.1	42.1	43.1	44.1	45.1	46.1	47.1	48.1	49.1	50.1	51.1	52.1
Moving Component Mass(KG)	4.9																			

Overall Dimensions

Unit:mm



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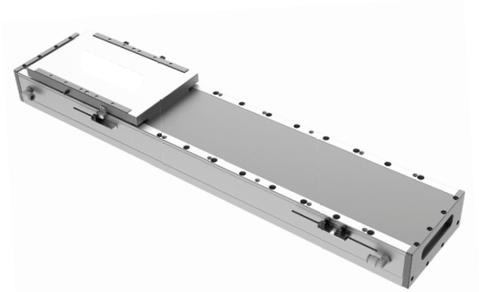
ZWMS170 Linear Motor Module

ZWMS170-30A-1

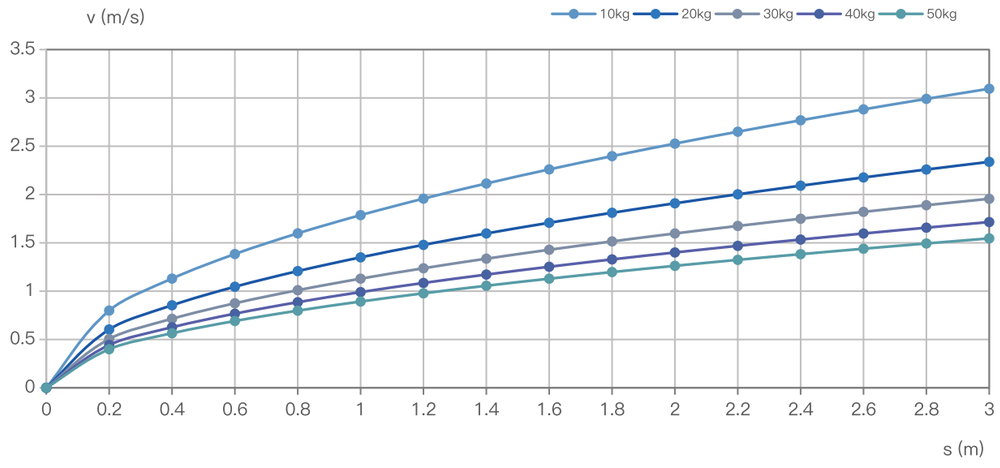


Specifications

Motor Type ZWU-30A-1	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	26	144	2.54	14.3	4	40
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	50	96.5	49~1789 (60 spacing)	0.07	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



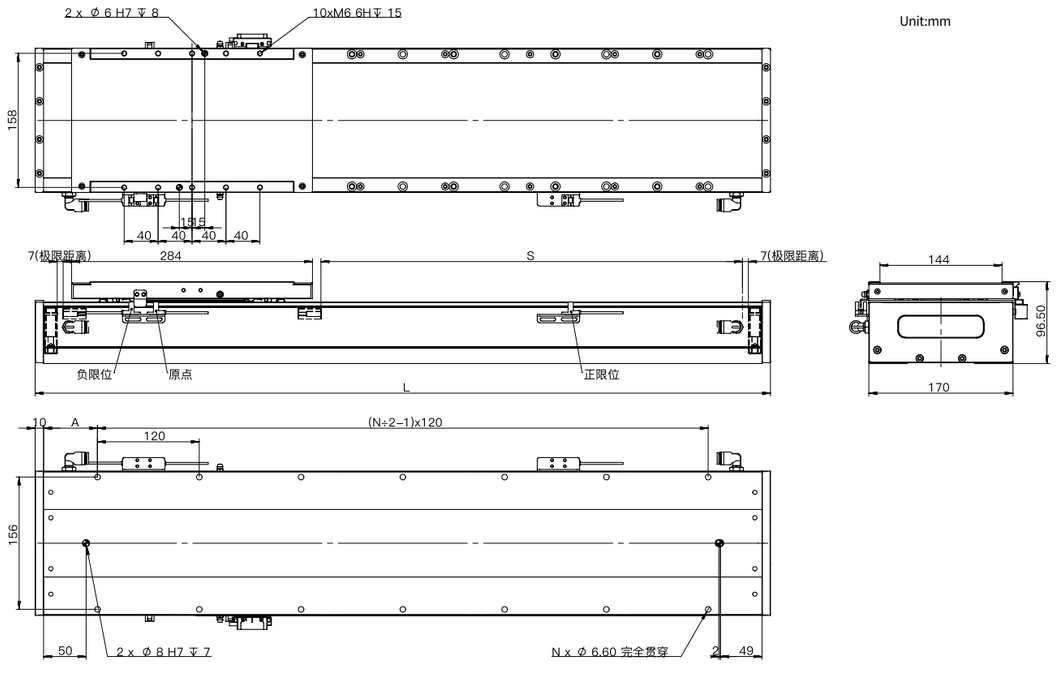
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.8	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.1
20kg	0.6	1.0	1.2	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.3
30kg	0.5	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	2.0
40kg	0.4	0.8	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7
50kg	0.4	0.7	0.8	0.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.5

Effective Travel:S	49	109	169	229	289	349	409	469	529	589	649	709	769	829	889	949	1009	1069	1129	1189
Mechanical Travel S+(Allowance)	63	123	183	243	303	363	423	483	543	603	663	723	783	843	903	963	1023	1083	1143	1203
Total Module Length:L	419	479	539	599	659	719	779	839	899	959	1019	1079	1139	1199	1259	1319	1379	1439	1499	1559
Number of Holes:N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	12.8	14.2	16	17.6	19.2	20.8	22.4	24	25.6	27.2	28.8	30.4	32	33.6	35.2	36.8	38.4	40	41.6	43.2
Moving Component Mass(KG)	3.3																			

Effective Travel:S	1249	1309	1369	1429	1489	1549	1609	1669	1729	1789	1849	1909	1969	2029	2089	2149	2209	2269	2329	2389
Mechanical Travel S+(Allowance)	1263	1323	1383	1443	1503	1563	1623	1683	1743	1803	1863	1923	1983	2043	2103	2163	2223	2283	2343	2403
Total Module Length:L	1619	1679	1739	1799	1859	1919	1979	2039	2099	2159	2219	2279	2339	2399	2459	2519	2579	2639	2699	2759
Number of Holes:N	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	44.8	46.4	48	49.6	51.2	52.8	54.4	56	57.6	59.2	60.8	62.4	64	65.6	67.2	68.8	70.4	72	73.6	75.2
Moving Component Mass(KG)	3.3																			

Overall Dimensions

Unit:mm



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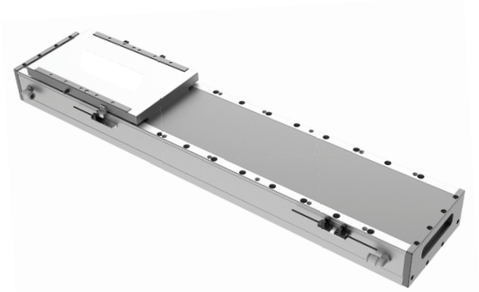
Product appearance and specifications are subject to change without prior notice.

ZWMS170 Linear Motor Module

ZWMS170-30A-2

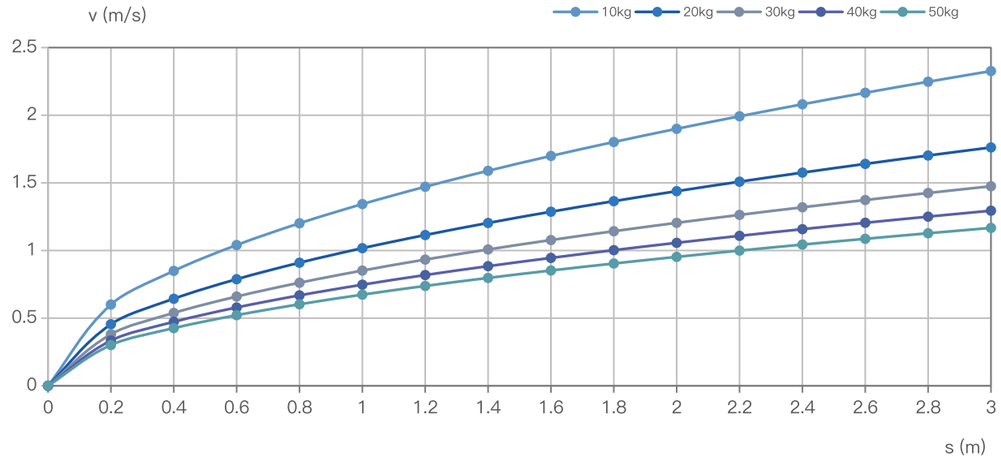


Specifications

Motor Type ZWU-30A-2	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	52	288	2.54	14.3	4	40
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	50	96.5	49~1789 (60 spacing)	0.07	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



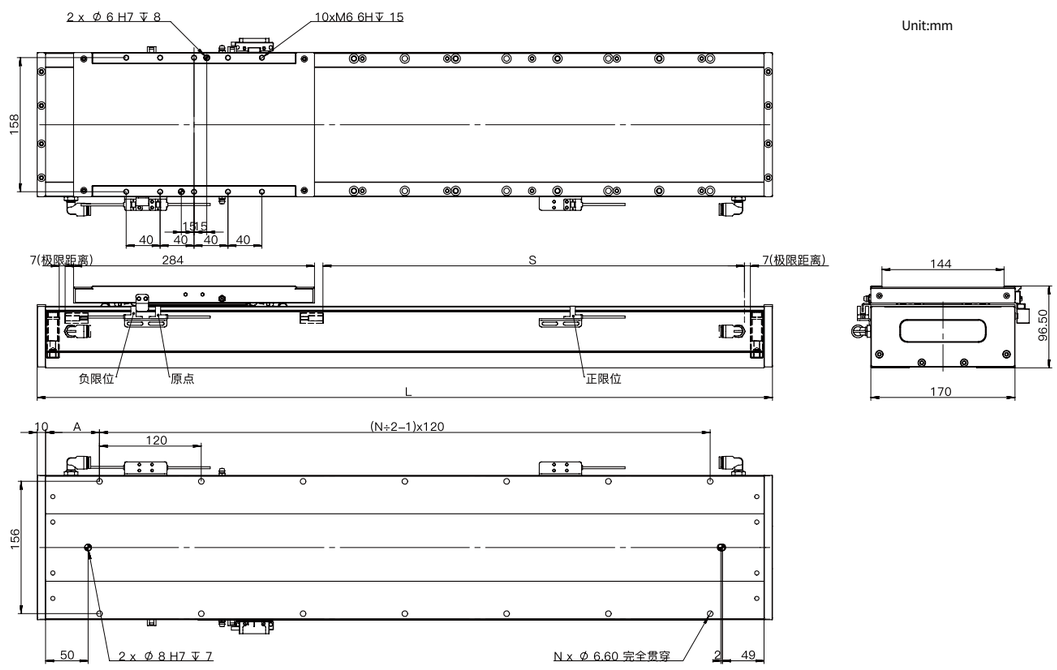
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.6	1.0	1.2	1.3	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.2	2.3
20kg	0.5	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8
30kg	0.4	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.3	1.3	1.4	1.4	1.5
40kg	0.3	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.2	1.3	1.3
50kg	0.3	0.5	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.2

Effective Travel:S	49	109	169	229	289	349	409	469	529	589	649	709	769	829	889	949	1009	1069	1129	1189
Mechanical Travel S+(Allowance)	63	123	183	243	303	363	423	483	543	603	663	723	783	843	903	963	1023	1083	1143	1203
Total Module Length:L	419	479	539	599	659	719	779	839	899	959	1019	1079	1139	1199	1259	1319	1379	1439	1499	1559
Number of Holes:N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	13	14.6	16.2	17.8	19.4	21	22.6	24.2	25.8	27.4	29	30.6	32.2	33.8	35.4	37	38.6	40.2	41.8	43.4
Moving Component Mass(KG)	3.45																			

Effective Travel:S	1249	1309	1369	1429	1489	1549	1609	1669	1729	1789	1849	1909	1969	2029	2089	2149	2209	2269	2329	2389
Mechanical Travel S+(Allowance)	1263	1323	1383	1443	1503	1563	1623	1683	1743	1803	1863	1923	1983	2043	2103	2163	2223	2283	2343	2403
Total Module Length:L	1619	1679	1739	1799	1859	1919	1979	2039	2099	2159	2219	2279	2339	2399	2459	2519	2579	2639	2699	2759
Number of Holes:N	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	45	46.6	48.2	49.8	51.4	53	54.6	56.2	57.8	59.4	61	62.4	64.2	65.8	67.4	69	70.6	72.2	73.8	75.4
Moving Component Mass(KG)	3.45																			

Overall Dimensions

Unit:mm



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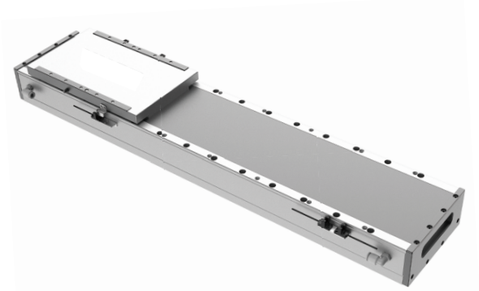
Product appearance and specifications are subject to change without prior notice.

ZWMS170 Linear Motor Module

ZWMS170-30A-3

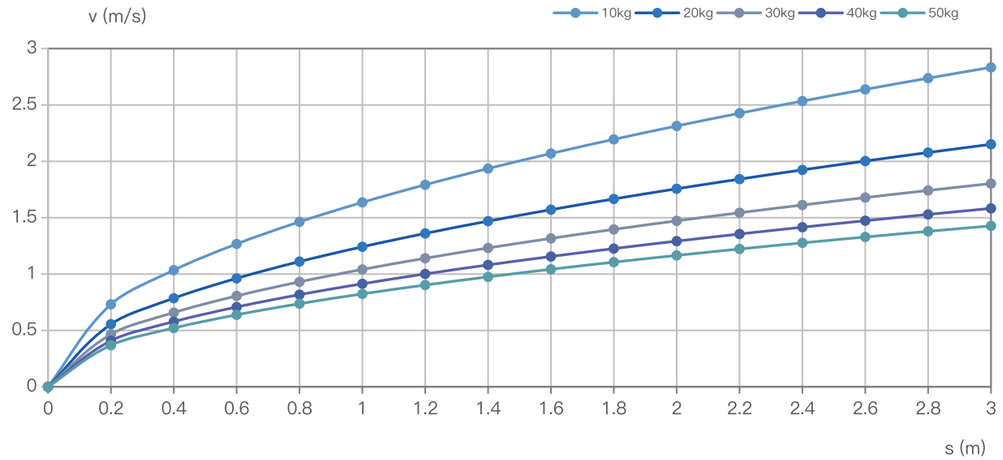


Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZWU-30A-3	78	432	2.54	14.3	4	40
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	50	96.5	49~1789 (60 spacing)	0.07	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



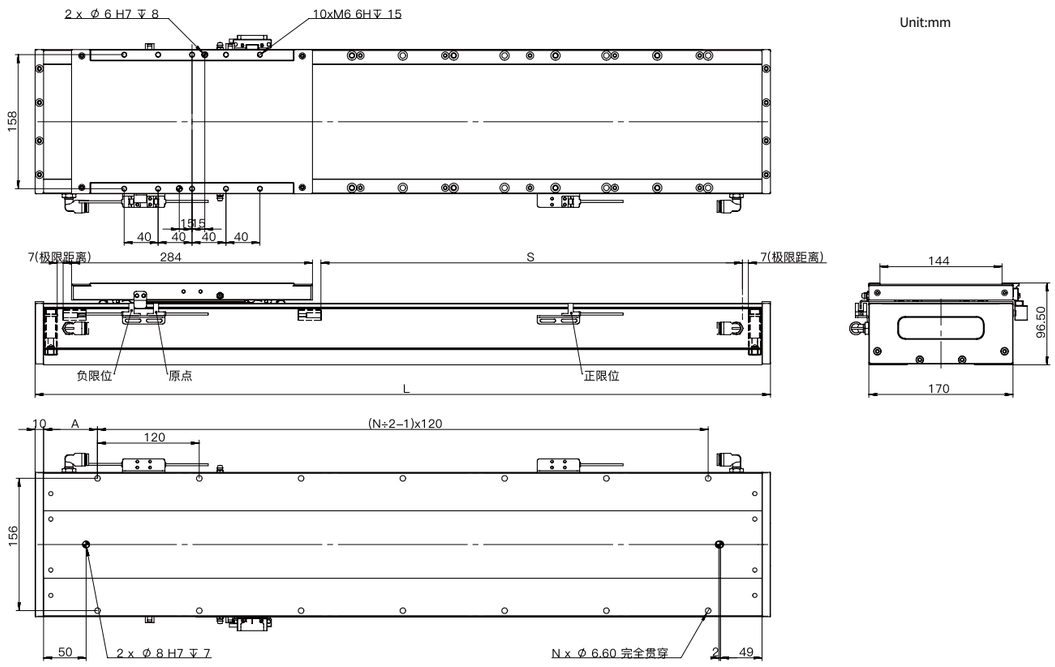
Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.7	1.3	1.5	1.6	1.8	1.9	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8
20kg	0.6	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.8	1.8	1.9	2.0	2.1	2.2
30kg	0.5	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8
40kg	0.4	0.7	0.8	0.9	1.0	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6
50kg	0.4	0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.4

Effective Travel:S	49	109	169	229	289	349	409	469	529	589	649	709	769	829	889	949	1009	1069	1129	1189
Mechanical Travel S+(Allowance)	63	123	183	243	303	363	423	483	543	603	663	723	783	843	903	963	1023	1083	1143	1203
Total Module Length:L	419	479	539	599	659	719	779	839	899	959	1019	1079	1139	1199	1259	1319	1379	1439	1499	1559
Number of Holes:N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	13.2	14.8	16.4	18	19.6	21.2	22.8	24.4	26	27.6	29.2	30.8	32.4	34	35.6	37.2	38.8	40.4	42	43.6
Moving Component Mass(KG)	3.6																			

Effective Travel:S	1249	1309	1369	1429	1489	1549	1609	1669	1729	1789	1849	1909	1969	2029	2089	2149	2209	2269	2329	2389
Mechanical Travel S+(Allowance)	1263	1323	1383	1443	1503	1563	1623	1683	1743	1803	1863	1923	1983	2043	2103	2163	2223	2283	2343	2403
Total Module Length:L	1619	1679	1739	1799	1859	1919	1979	2039	2099	2159	2219	2279	2339	2399	2459	2519	2579	2639	2699	2759
Number of Holes:N	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	45.2	46.8	48.4	50	51.6	53.2	54.8	56.4	58	59.6	61.2	62.8	64.4	66	67.6	69.2	70.8	72.4	74	75.6
Moving Component Mass(KG)	3.6																			

Overall Dimensions

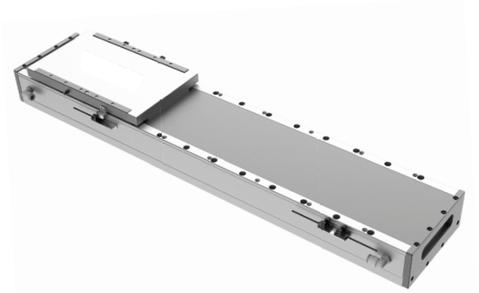
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS170 Linear Motor Module

ZWMS170-30A-4

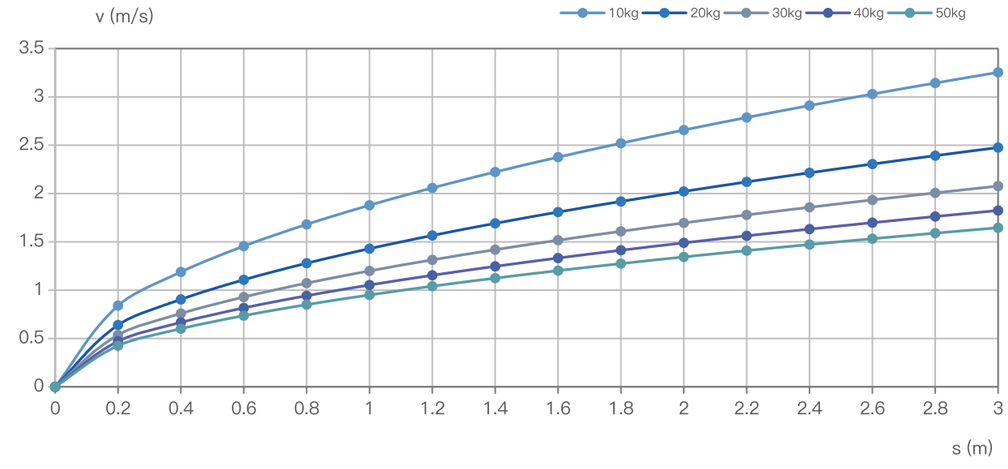


Specifications

Motor Type ZWU-30A-4	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	104	576	2.54	14.3	4	40
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	50	96.5	49~1789 (60 spacing)	0.07	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load

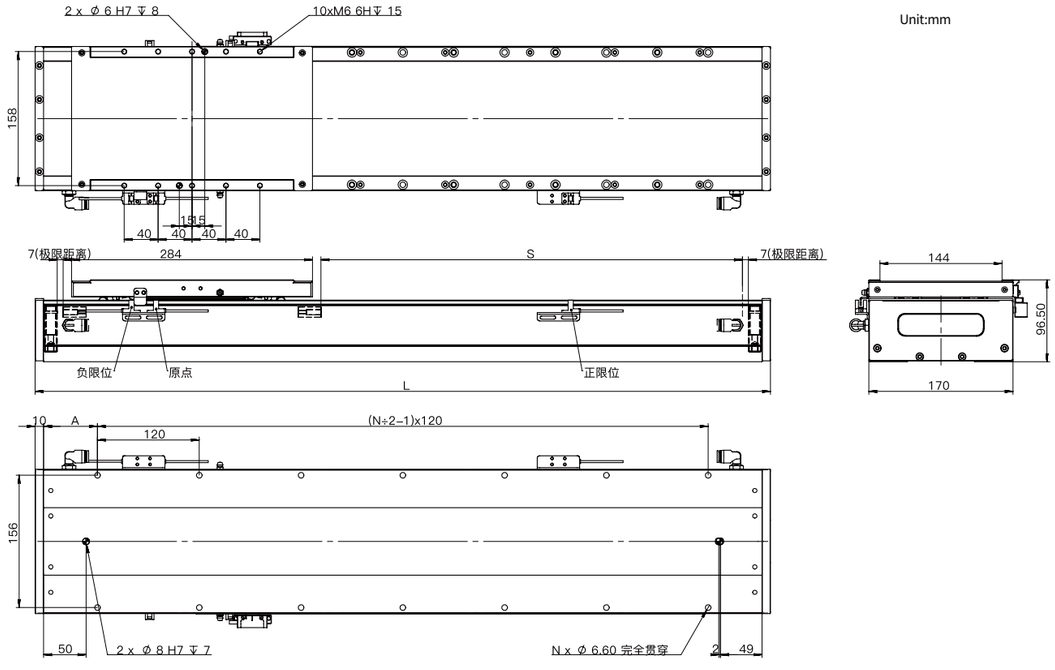


Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.8	1.5	1.7	1.9	2.1	2.2	2.4	2.5	2.7	2.8	2.9	3.0	3.1	3.3
20kg	0.6	1.1	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
30kg	0.5	0.9	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.9	2.0	2.1
40kg	0.5	0.8	0.9	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.8
50kg	0.4	0.7	0.8	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6

Effective Travel:S	49	109	169	229	289	349	409	469	529	589	649	709	769	829	889	949	1009	1069	1129	1189
Mechanical Travel S+(Allowance)	63	123	183	243	303	363	423	483	543	603	663	723	783	843	903	963	1023	1083	1143	1203
Total Module Length:L	419	479	539	599	659	719	779	839	899	959	1019	1079	1139	1199	1259	1319	1379	1439	1499	1559
Number of Holes:N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	13.4	15	16.6	18.2	19.8	21.4	23	24.6	26.2	27.8	29.4	31	32.6	34.2	35.8	37.4	39	40.6	42.2	43.8
Moving Component Mass(KG)	3.75																			

Effective Travel:S	1249	1309	1369	1429	1489	1549	1609	1669	1729	1789	1849	1909	1969	2029	2089	2149	2209	2269	2329	2389
Mechanical Travel S+(Allowance)	1263	1323	1383	1443	1503	1563	1623	1683	1743	1803	1863	1923	1983	2043	2103	2163	2223	2283	2343	2403
Total Module Length:L	1619	1679	1739	1799	1859	1919	1979	2039	2099	2159	2219	2279	2339	2399	2459	2519	2579	2639	2699	2759
Number of Holes:N	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	45.4	47	48.6	50.2	51.8	53.4	55	56.6	58.2	59.8	61.4	63	64.6	66.2	67.8	69.4	71	72.6	74.2	75.8
Moving Component Mass(KG)	3.75																			

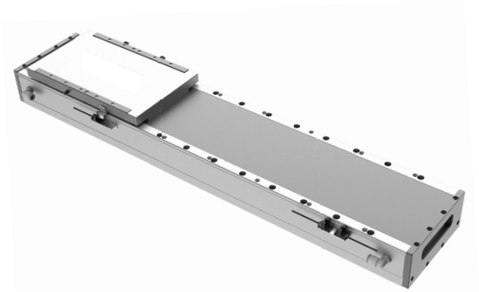
Overall Dimensions



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS170 Linear Motor Module

ZWMS170-30A-5

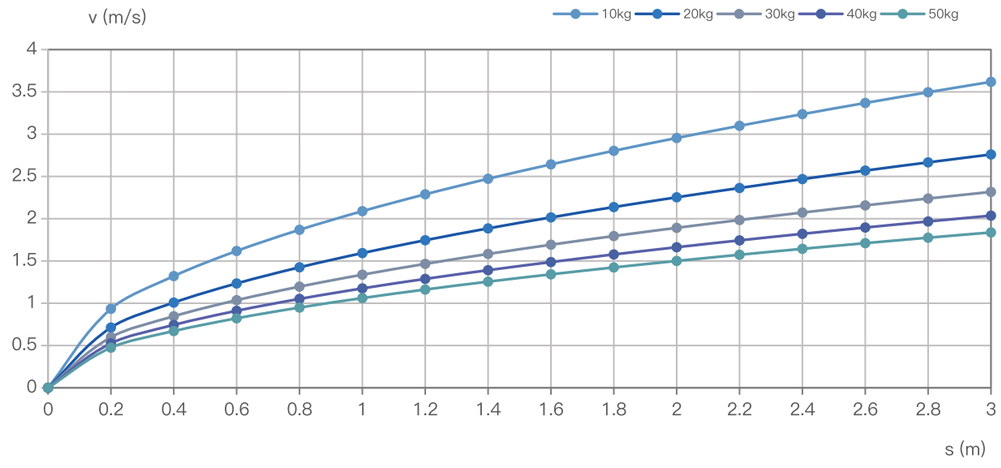


Specifications

Motor Type ZWU-30A-5	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	130	720	2.54	14.3	4	40
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	50	96.5	49~1789 (60 spacing)	0.07	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



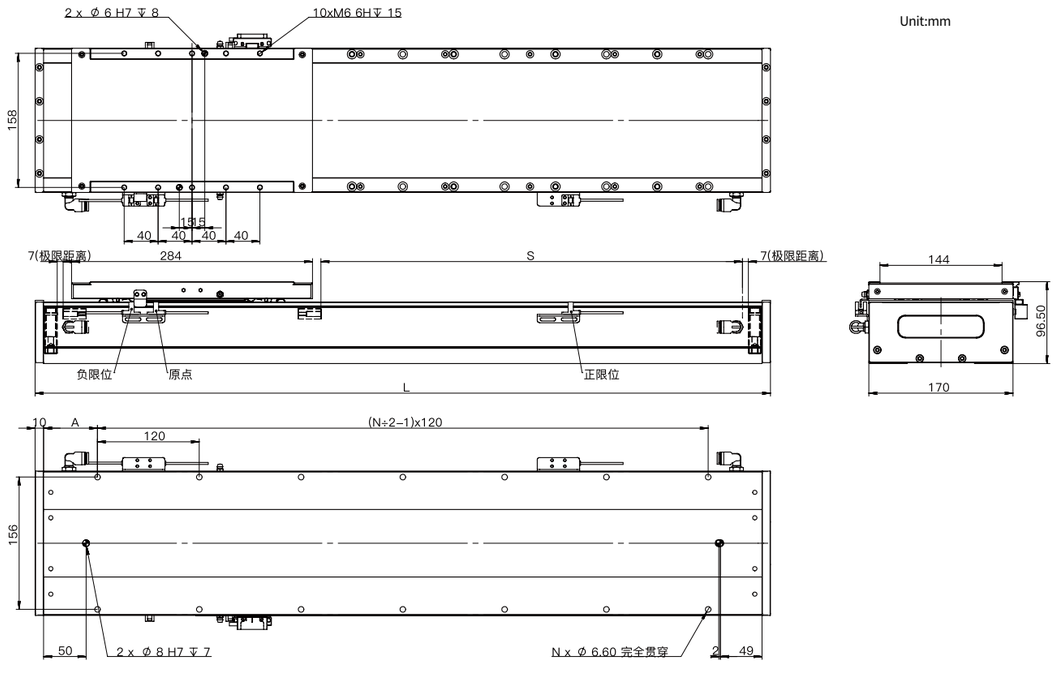
Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.9	1.6	1.9	2.1	2.3	2.5	2.6	2.8	3.0	3.1	3.2	3.4	3.5	3.6
20kg	0.7	1.2	1.4	1.6	1.7	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8
30kg	0.6	1.0	1.2	1.3	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.2	2.3
40kg	0.5	0.9	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	2.0	2.0
50kg	0.5	0.8	0.9	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.8

Effective Travel:S	49	109	169	229	289	349	409	469	529	589	649	709	769	829	889	949	1009	1069	1129	1189
Mechanical Travel S+(Allowance)	63	123	183	243	303	363	423	483	543	603	663	723	783	843	903	963	1023	1083	1143	1203
Total Module Length:L	419	479	539	599	659	719	779	839	899	959	1019	1079	1139	1199	1259	1319	1379	1439	1499	1559
Number of Holes:N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	13.6	15.2	16.8	18.4	20	21.6	23.2	24.8	26.4	28	29.6	31.2	32.8	34.4	36	37.6	39.2	40.8	42.4	44
Moving Component Mass(KG)	3.9																			

Effective Travel:S	1249	1309	1369	1429	1489	1549	1609	1669	1729	1789	1849	1909	1969	2029	2089	2149	2209	2269	2329	2389
Mechanical Travel S+(Allowance)	1263	1323	1383	1443	1503	1563	1623	1683	1743	1803	1863	1923	1983	2043	2103	2163	2223	2283	2343	2403
Total Module Length:L	1619	1679	1739	1799	1859	1919	1979	2039	2099	2159	2219	2279	2339	2399	2459	2519	2579	2639	2699	2759
Number of Holes:N	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	45.6	47.2	48.8	50.4	52	53.6	55.2	56.8	58.4	60	61.6	63.2	64.8	66.4	68	69.6	71.2	72.8	74.4	76
Moving Component Mass(KG)	3.9																			

Overall Dimensions

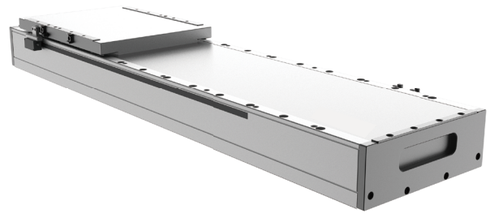
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS210 Linear Motor Module

ZWMS210-3-H55-1

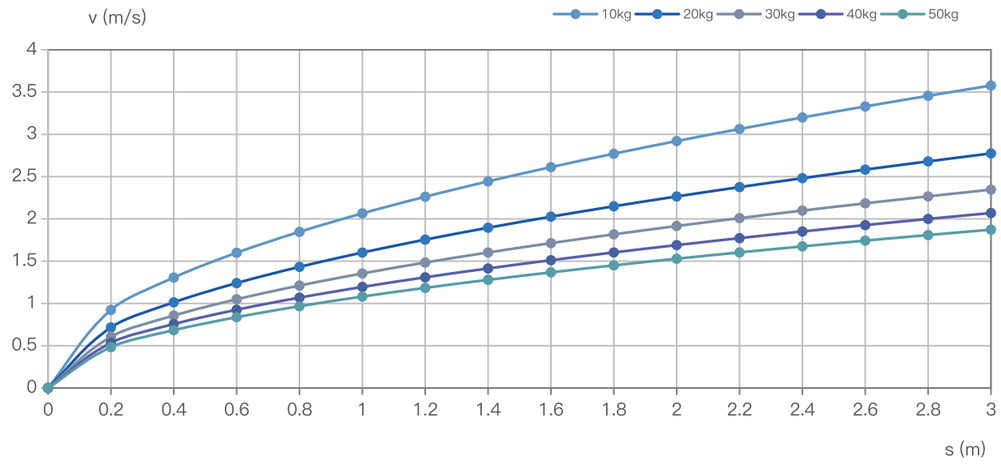


Specifications

Motor Type ZW3-H55-1	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	138	371	3.23	10.31	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	200	96.5	35~1985 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



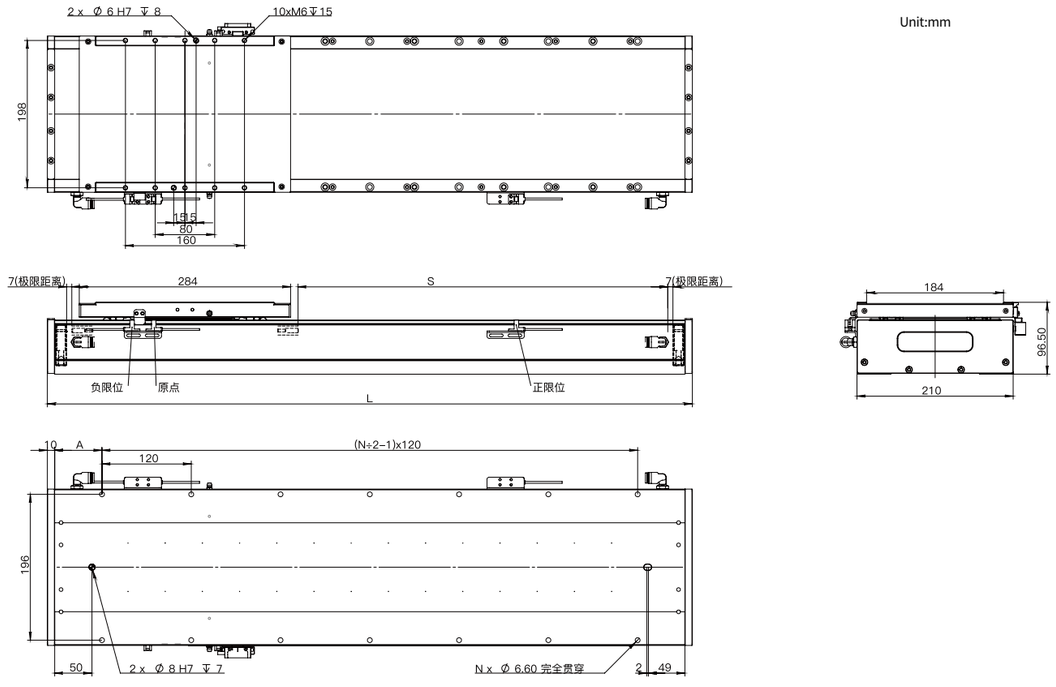
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.9	1.6	1.8	2.1	2.3	2.4	2.6	2.8	2.9	3.1	3.2	3.3	3.5	3.6
20kg	0.7	1.2	1.4	1.6	1.8	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8
30kg	0.6	1.0	1.2	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.3
40kg	0.5	0.9	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.9	2.0	2.1
50kg	0.5	0.8	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9

Effective Travel:S	35	85	135	185	235	285	335	385	435	485	585	635	685	735	785	835	885	935	985	1035
Mechanical Travel S+(Allowance)	49	99	149	199	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
Total Module Length:L	405	455	505	555	605	655	705	755	805	855	955	1005	1055	1105	1155	1205	1255	1305	1355	1405
Number of Holes:N	8	8	8	10	10	12	12	12	14	14	16	18	18	18	20	20	22	22	22	24
Distance from Hole to End:A	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5
Module Mass(KG)	14.7	15.9	17.1	18.3	19.5	20.7	21.9	23.1	24.3	25.5	27.9	29.1	30.3	31.5	32.7	33.9	35.1	36.3	37.5	38.9
Moving Component Mass(KG)	5.1																			

Effective Travel:S	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
Mechanical Travel S+(Allowance)	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
Total Module Length:L	1455	1505	1555	1605	1655	1705	1755	1805	1855	1455	1905	1955	2005	2055	2105	2155	2205	2255	2305	2355
Number of Holes:N	24	26	26	28	28	28	30	30	32	32	24	32	34	34	36	36	38	38	38	40
Distance from Hole to End:A	57.5	22.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	57.5	42.5	67.5	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5
Module Mass(KG)	40.1	41.3	42.5	43.7	44.9	46.1	47.3	48.5	49.7	50.1	50.9	52.1	53.4	54.5	55.7	56.9	57.1	58.3	59.5	61.1
Moving Component Mass(KG)	5.1																			

Overall Dimensions

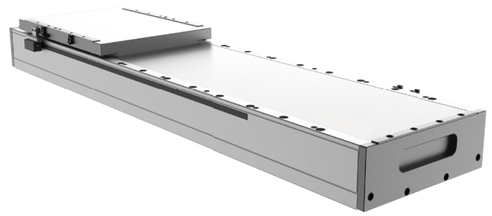
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS210 Linear Motor Module

ZWMS210-3-H55-2

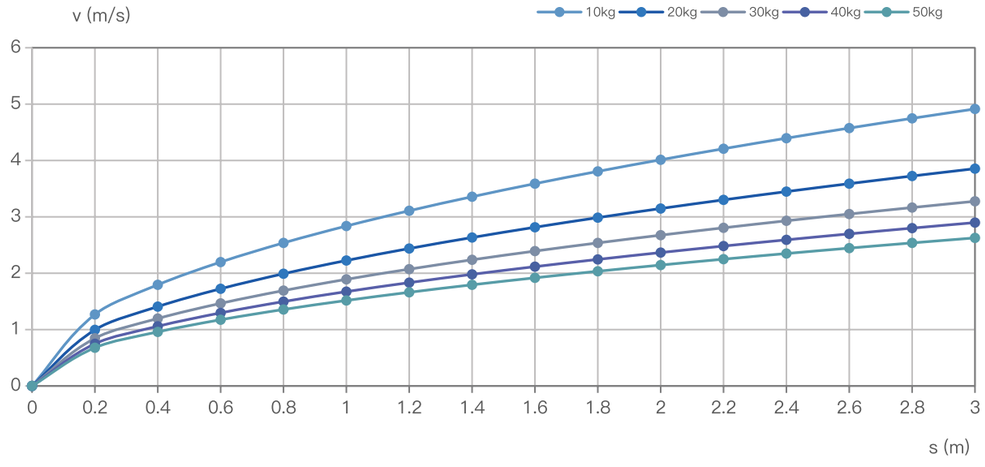


Specifications

Motor Type ZW3-H55-2	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	276	742	3.23	10.31	4	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	200	96.5	47~1997 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



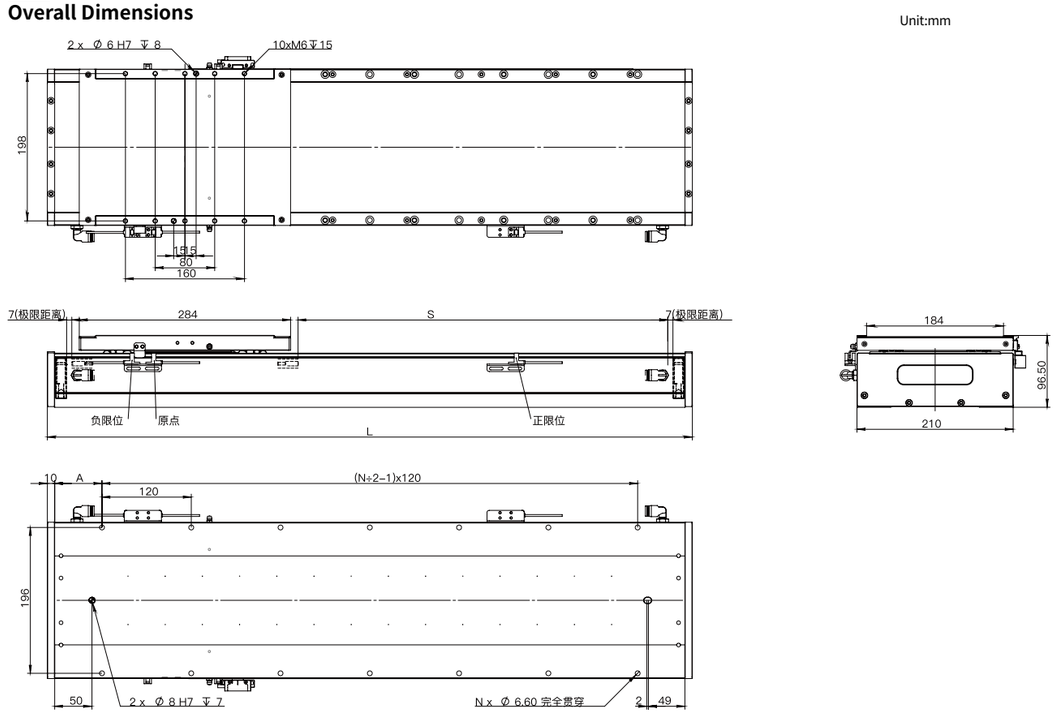
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.3	2.2	2.5	2.8	3.1	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.7	4.9
20kg	1.0	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.1	3.3	3.4	3.6	3.7	3.9
30kg	0.8	1.5	1.7	1.9	2.1	2.2	2.4	2.5	2.7	2.8	2.9	3.0	3.2	3.3
40kg	0.7	1.3	1.5	1.7	1.8	2.0	2.1	2.2	2.4	2.5	2.6	2.7	2.8	2.9
50kg	0.7	1.2	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6

Effective Travel:S	47	97	147	197	247	297	347	397	447	497	547	597	647	697	747	797	847	897	947	997
Mechanical Travel S+(Allowance)	61	111	161	211	261	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011
Total Module Length:L	417	467	517	567	617	23.5	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367
Number of Holes:N	8	8	8	10	10	12	12	14	14	14	16	16	18	18	18	20	20	22	22	24
Distance from Hole to End:A	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5
Module Mass(KG)	16.9	18.1	19.3	20.5	21.7	22.9	24.1	25.3	26.5	27.68	28.9	30.1	31.3	32.5	33.7	34.9	36.1	37.3	38.5	39.7
Moving Component Mass(KG)	6																			

Effective Travel:S	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
Mechanical Travel S+(Allowance)	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011
Total Module Length:L	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2267	2317	2367
Number of Holes:N	24	24	26	26	28	28	28	30	30	32	32	34	34	34	36	36	38	38	38	40
Distance from Hole to End:A	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5
Module Mass(KG)	40.9	42.1	43.3	44.5	45.7	46.9	48.1	49.3	50.5	51.7	52.9	54.1	55.3	56.5	57.7	58.9	60.1	61.3	62.3	63.5
Moving Component Mass(KG)	6																			

Overall Dimensions

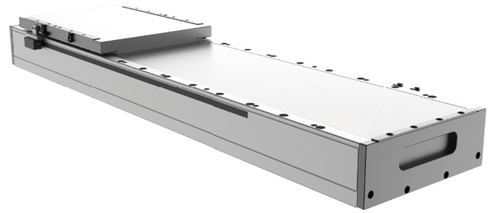
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS210 Linear Motor Module

ZWMS210-3-H55-3

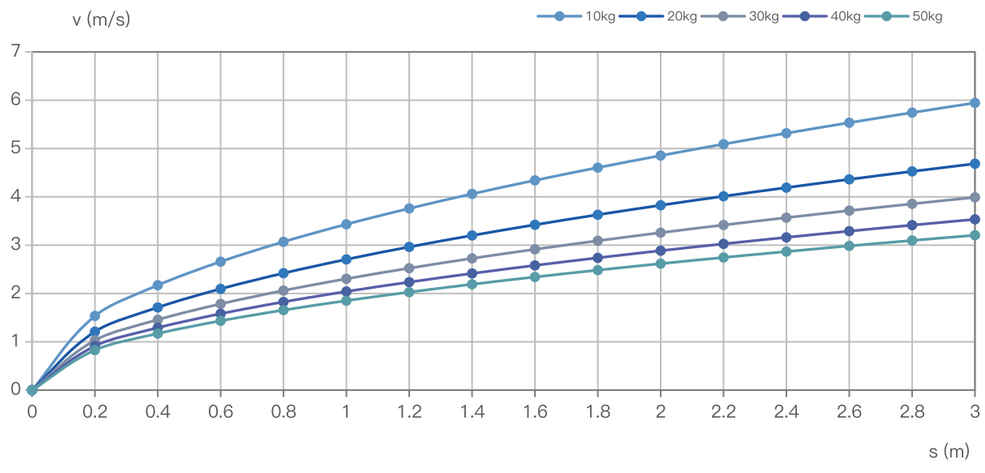


Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H55-3	414	1113	3.23	10.31	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	200	96.5	10~1960 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



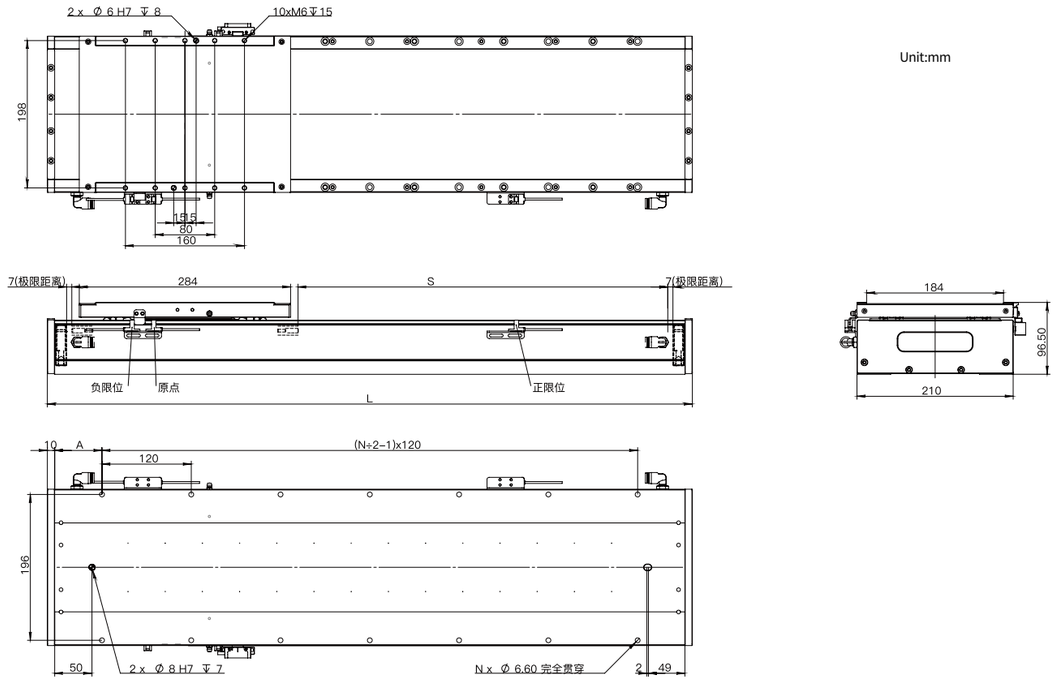
Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.5	2.7	3.1	3.4	3.8	4.1	4.3	4.6	4.9	5.1	5.3	5.5	5.7	5.9
20kg	1.2	2.1	2.4	2.7	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.5	4.7
30kg	1.0	1.8	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.4	3.6	3.7	3.9	4.0
40kg	0.9	1.6	1.8	2.0	2.2	2.4	2.6	2.7	2.9	3.0	3.2	3.3	3.4	3.5
50kg	0.8	1.4	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.7	2.9	3.0	3.1	3.2

Effective Travel:S	10	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
Mechanical Travel S+(Allowance)	24	74	124	174	224	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974
Total Module Length:L	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330
Number of Holes:N	6	8	8	10	10	10	12	12	14	14	16	16	16	18	18	20	20	20	22	22
Distance from Hole to End:A	60	25	50	15	40	65	30	55	20	45	10	35	60	25	50	15	40	65	30	55
Module Mass(KG)	17.4	18.6	19.8	21	22.2	23.4	24.6	25.8	27	28.2	29.4	30.6	31.8	33	34.2	35.4	36.6	37.8	39	40.2
Moving Component Mass(KG)	6.4																			

Effective Travel:S	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
Mechanical Travel S+(Allowance)	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
Total Module Length:L	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930	1980	2030	2080	2130	2180	2230	2280	2330
Number of Holes:N	24	24	26	26	26	28	28	30	30	32	32	34	34	34	36	36	36	38	38	40
Distance from Hole to End:A	20	45	10	35	60	25	50	15	40	65	30	55	20	45	10	35	60	25	50	15
Module Mass(KG)	41.4	42.6	43.8	45	46.2	47.4	48.6	49.8	51	52.2	53.4	54.6	55.8	57	58.2	59.4	60.6	61.8	63	64.2
Moving Component Mass(KG)	6.4																			

Overall Dimensions

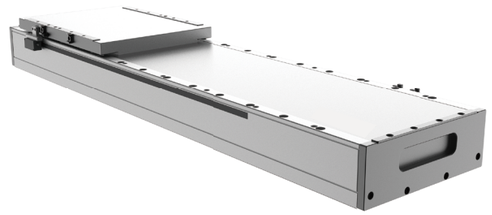
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS210 Linear Motor Module

ZWMS210-3-H75-1

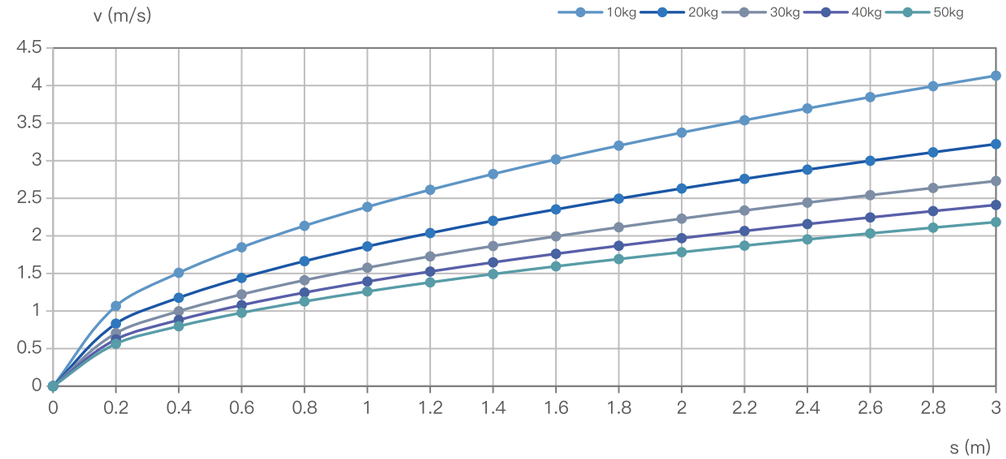


Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H75-1	189	522	3.28	10.3	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	200	96.5	35~1985 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



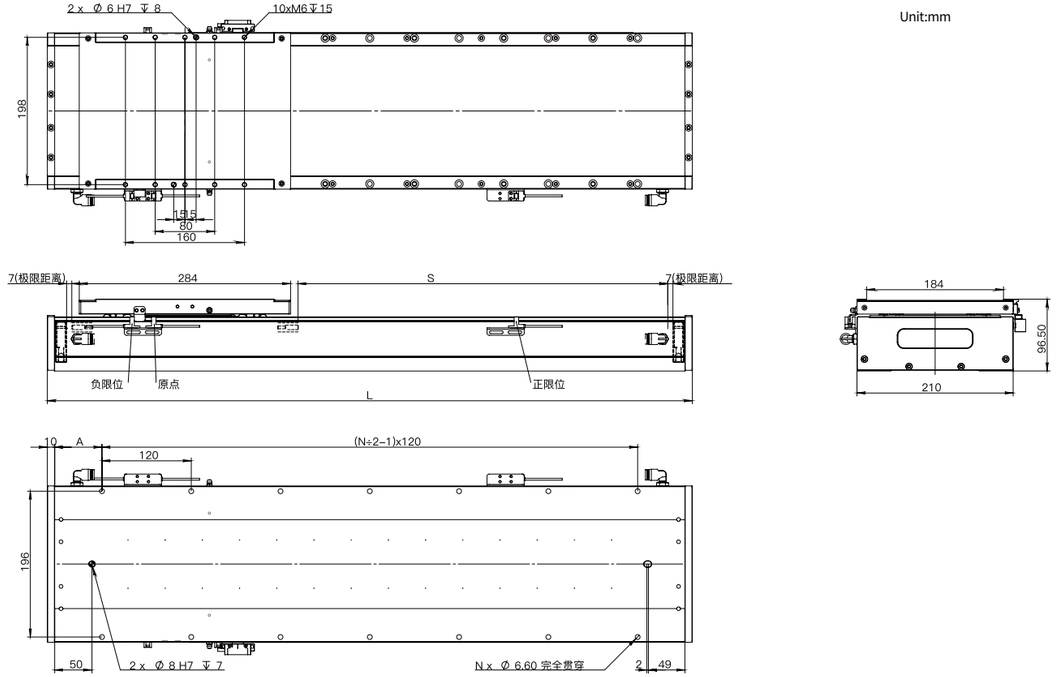
Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.1	1.8	2.1	2.4	2.6	2.8	3.0	3.2	3.4	3.5	3.7	3.8	4.0	4.1
20kg	0.8	1.4	1.7	1.9	2.0	2.2	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.2
30kg	0.7	1.2	1.4	1.6	1.7	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7
40kg	0.6	1.1	1.2	1.4	1.5	1.6	1.8	1.9	2.0	2.1	2.2	2.2	2.3	2.4
50kg	0.6	1.0	1.1	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.0	2.1	2.2

Effective Travel:S	35	85	135	185	235	285	335	385	435	485	535	585	635	685	735	785	835	885	935	985
Mechanical Travel S+(Allowance)	49	99	149	199	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
Total Module Length:L	405	455	505	555	605	655	705	755	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405
Number of Holes:N	8	8	8	10	10	12	12	12	14	14	16	18	18	18	20	20	22	22	22	24
Distance from Hole to End:A	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5
Module Mass(KG)	14.7	15.9	17.1	18.3	19.5	20.7	21.9	23.1	24.3	25.5	27.9	29.1	30.3	31.5	32.7	33.9	35.1	36.3	37.5	38.9
Moving Component Mass(KG)	5.5																			

Effective Travel:S	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
Mechanical Travel S+(Allowance)	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
Total Module Length:L	1455	1505	1555	1605	1655	1705	1755	1805	1855	1455	1905	1955	2005	2055	2105	2155	2205	2255	2305	2355
Number of Holes:N	24	26	26	28	28	28	30	30	32	32	24	32	34	34	36	36	38	38	38	40
Distance from Hole to End:A	57.5	22.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	57.5	42.5	67.5	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5
Module Mass(KG)	40.1	41.3	42.5	43.7	44.9	46.1	47.3	48.5	49.7	50.1	50.9	52.1	53.3	54.5	55.7	56.9	57.1	58.3	59.5	61.1
Moving Component Mass(KG)	5.5																			

Overall Dimensions

Unit:mm



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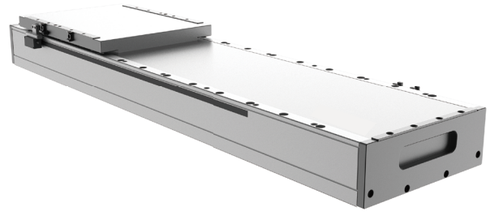
Product appearance and specifications are subject to change without prior notice.

ZWMS210 Linear Motor Module

ZWMS210-3-H75-2

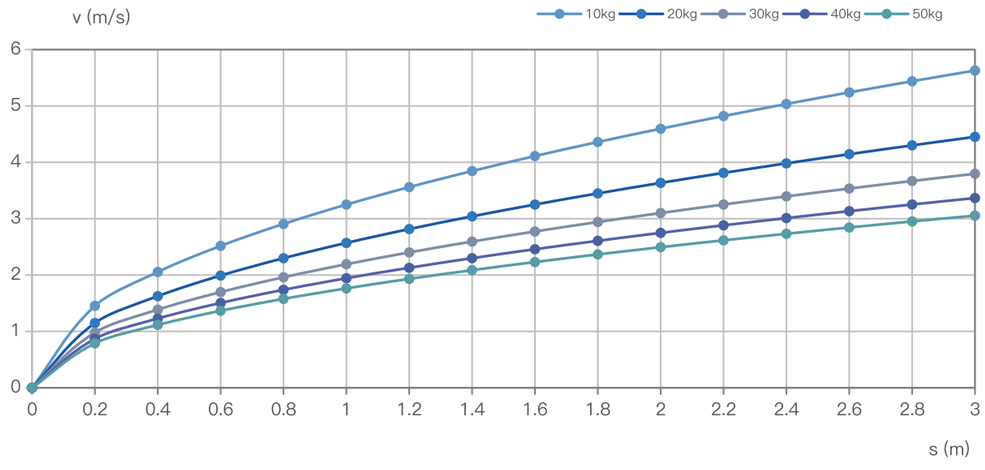


Specifications

Motor Type ZW3-H75-2	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	378	1044	3.28	10.3	4	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	200	96.5	47~1997 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



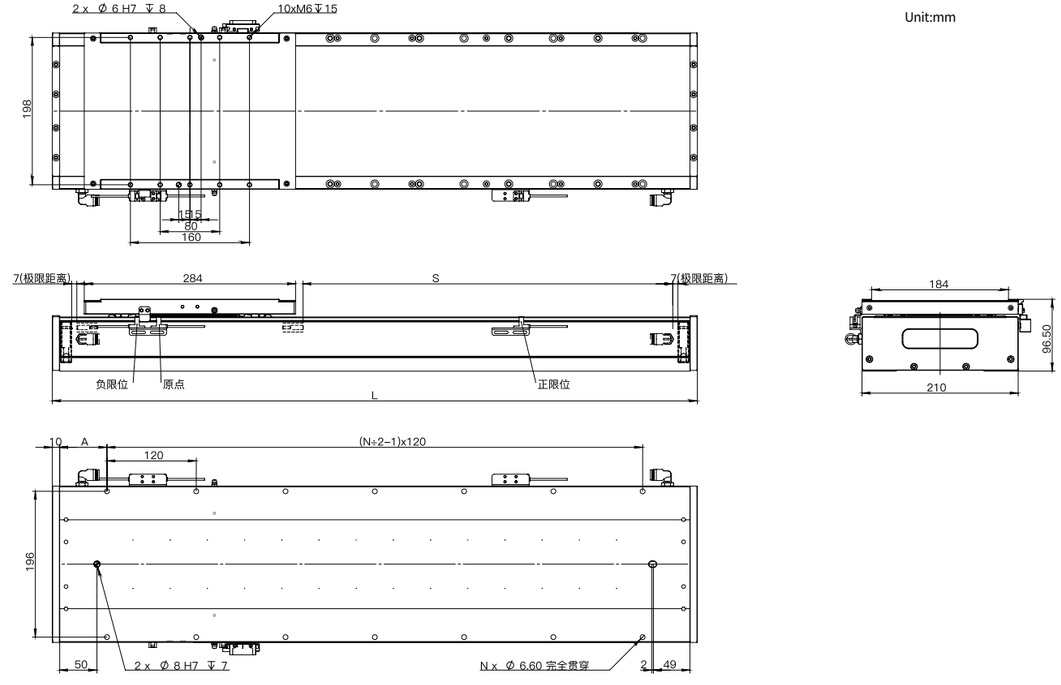
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.5	2.5	2.9	3.3	3.6	3.8	4.1	4.4	4.6	4.8	5.0	5.2	5.4	5.6
20kg	1.1	2.0	2.3	2.6	2.8	3.0	3.3	3.4	3.6	3.8	4.0	4.1	4.3	4.5
30kg	1.0	1.7	2.0	2.2	2.4	2.6	2.8	2.9	3.1	3.3	3.4	3.5	3.7	3.8
40kg	0.9	1.5	1.7	1.9	2.1	2.3	2.5	2.6	2.7	2.9	3.0	3.1	3.3	3.4
50kg	0.8	1.4	1.6	1.8	1.9	2.1	2.2	2.4	2.5	2.6	2.7	2.8	3.0	3.1

Effective Travel:S	47	97	147	197	247	297	347	397	447	497	547	597	647	697	747	797	847	897	947	997
Mechanical Travel S+(Allowance)	61	111	161	211	261	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011
Total Module Length:L	417	467	517	567	617	23.5	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367
Number of Holes:N	8	8	8	10	10	12	12	14	14	14	16	16	18	18	18	20	20	22	22	24
Distance from Hole to End:A	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5
Module Mass(KG)	16.9	18.1	19.3	20.5	21.7	22.9	24.1	25.3	26.5	27.68	28.9	30.1	31.3	32.5	33.7	34.9	36.1	37.3	38.5	39.7
Moving Component Mass(KG)	6.7																			

Effective Travel:S	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
Mechanical Travel S+(Allowance)	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011
Total Module Length:L	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2267	2317	2367
Number of Holes:N	24	24	26	26	28	28	28	30	30	32	32	34	34	34	36	36	38	38	38	40
Distance from Hole to End:A	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5
Module Mass(KG)	40.9	42.1	43.3	44.5	45.7	46.9	48.1	49.3	50.5	51.7	52.9	54.1	55.3	56.5	57.7	58.9	60.1	61.3	62.3	63.5
Moving Component Mass(KG)	6.7																			

Overall Dimensions

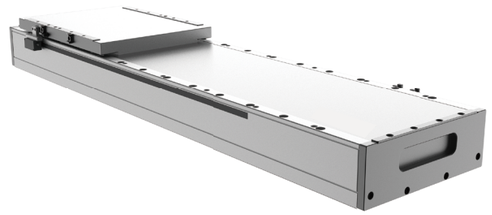
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS210 Linear Motor Module

ZWMS210-3-H75-3

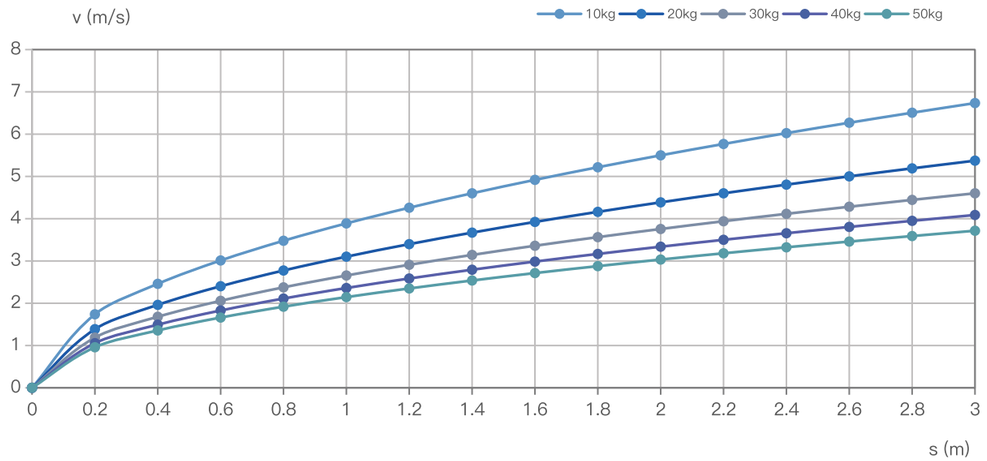


Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H75-3	567	1566	3.28	10.3	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	200	96.5	10~1960 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.7	3.0	3.5	3.9	4.3	4.6	4.9	5.2	5.5	5.8	6.0	6.3	6.5	6.7
20kg	1.4	2.4	2.8	3.1	3.4	3.7	3.9	4.2	4.4	4.6	4.8	5.0	5.2	5.4
30kg	1.2	2.1	2.4	2.7	2.9	3.1	3.4	3.6	3.8	3.9	4.1	4.3	4.4	4.6
40kg	1.1	1.8	2.1	2.4	2.6	2.8	3.0	3.2	3.3	3.5	3.7	3.8	3.9	4.1
50kg	1.0	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.0	3.2	3.3	3.5	3.6	3.7

Effective Travel:S	10	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
Mechanical Travel S+(Allowance)	24	74	124	174	224	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974
Total Module Length:L	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330
Number of Holes:N	6	8	8	10	10	10	12	12	14	14	16	16	16	18	18	20	20	20	22	22
Distance from Hole to End:A	60	25	50	15	40	65	30	55	20	45	10	35	60	25	50	15	40	65	30	55
Module Mass(KG)	17.4	18.6	19.8	21	22.2	23.4	24.6	25.8	27	28.2	29.4	30.6	31.8	33	34.2	35.4	36.6	37.8	39	40.2
Moving Component Mass(KG)	7.5																			

Effective Travel:S	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
Mechanical Travel S+(Allowance)	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
Total Module Length:L	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930	1980	2030	2080	2130	2180	2230	2280	2330
Number of Holes:N	24	24	26	26	26	28	28	30	30	32	32	34	34	34	36	36	36	38	38	40
Distance from Hole to End:A	20	45	10	35	60	25	50	15	40	65	30	55	20	45	10	35	60	25	50	15
Module Mass(KG)	41.4	42.6	43.8	45	46.2	47.4	48.6	49.8	51	52.2	53.4	54.6	55.8	57	58.2	59.4	60.6	61.8	63	64.2
Moving Component Mass(KG)	7.5																			

Overall Dimensions

Unit:mm

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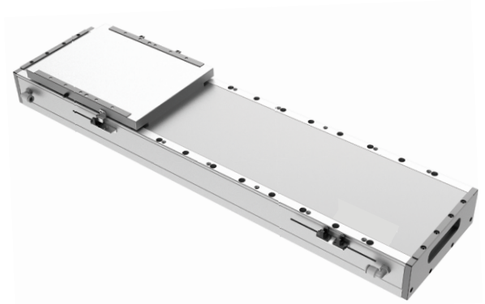
Product appearance and specifications are subject to change without prior notice.

ZWMS210 Linear Motor Module

ZWMS210-30B-1

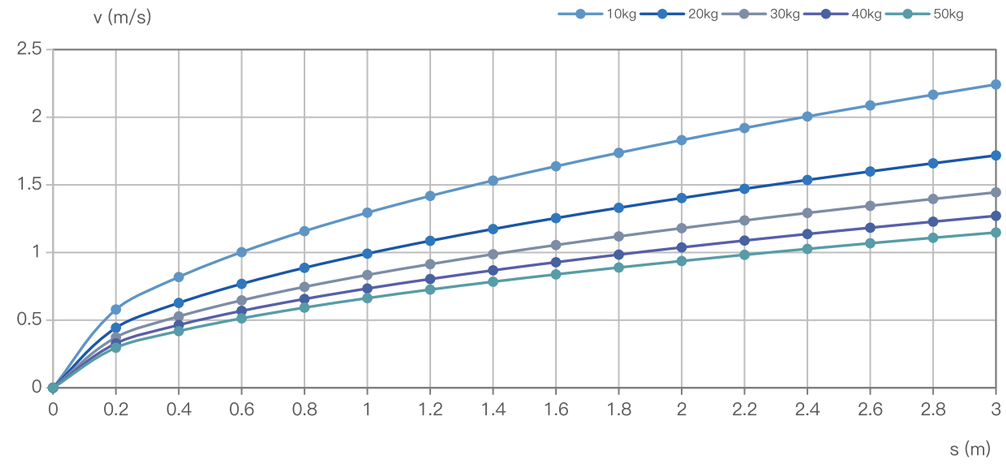


Specifications

Motor Type ZWU-30B-1	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	52	288	2.54	14.3	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	80	96.5	49~1789 (60 spacing)	0.07	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



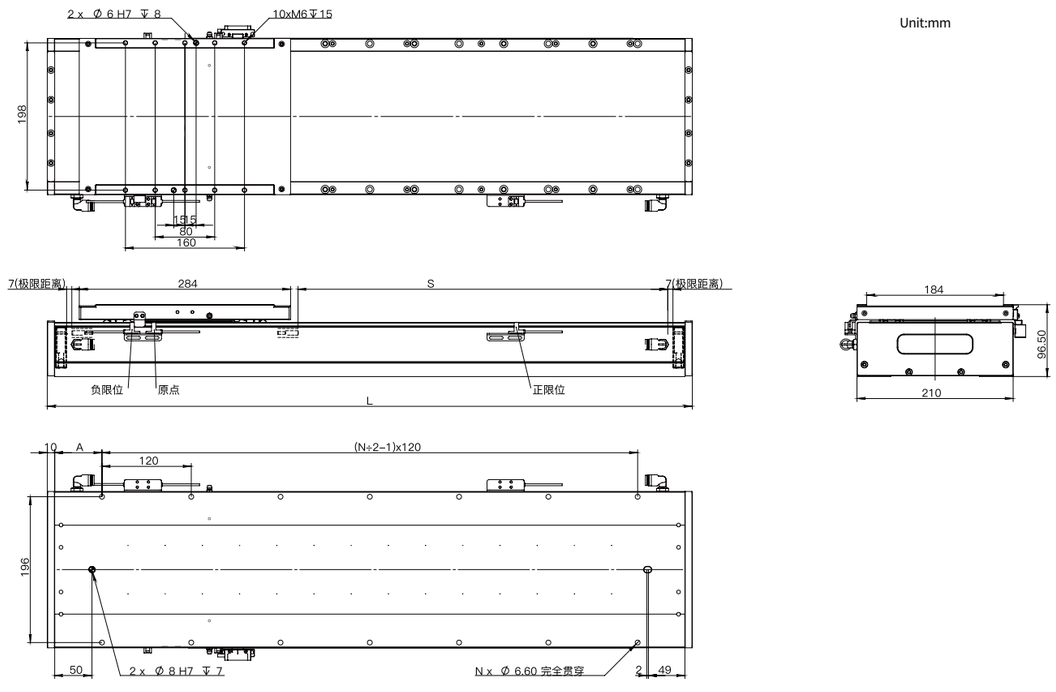
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.6	1.0	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.2
20kg	0.4	0.8	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7
30kg	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4
40kg	0.3	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3
50kg	0.3	0.5	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1

Effective Travel:S	49	109	169	229	289	349	409	469	529	589	649	709	769	829	889	949	1009	1069	1129	1189
Mechanical Travel S+(Allowance)	63	123	183	243	303	363	423	483	543	603	663	723	783	843	903	963	1023	1083	1143	1203
Total Module Length:L	419	479	539	599	659	719	779	839	899	959	1019	1079	1139	1199	1259	1319	1379	1439	1499	1559
Number of Holes:N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	14	16.2	18.4	20.6	22.8	25	27.2	29.4	31.6	33.8	36	38.2	40.4	42.6	44.8	47	49.2	51.4	53.6	55.8
Moving Component Mass(KG)	4.2																			

Effective Travel:S	1249	1309	1369	1429	1489	1549	1609	1669	1729	1789	1849	1909	1969	2029	2089	2149	2209	2269	2329	2389
Mechanical Travel S+(Allowance)	1263	1323	1383	1443	1503	1563	1623	1683	1743	1803	1863	1923	1983	2043	2103	2163	2223	2283	2343	2403
Total Module Length:L	1619	1679	1739	1799	1859	1919	1979	2039	2099	2159	2219	2279	2339	2399	2459	2519	2579	2639	2699	2759
Number of Holes:N	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	58	60.2	62.4	64.6	66.8	69	71.2	73.4	75.6	77.8	80	82.2	84.4	86.6	88.8	91	93.2	95.4	97.6	99.8
Moving Component Mass(KG)	4.2																			

Overall Dimensions

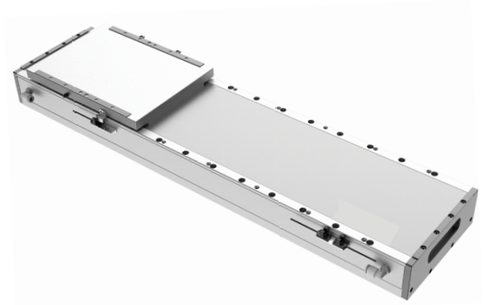
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS210 Linear Motor Module

ZWMS210-30B-2

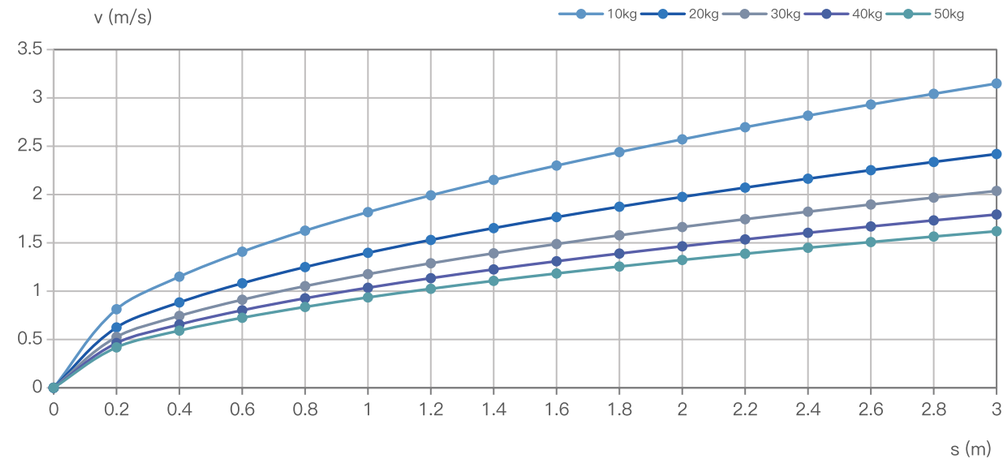


Specifications

Motor Type ZWU-30B-2	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	102	576	2.54	14.3	4	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	80	96.5	49~1789 (60 spacing)	0.07	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



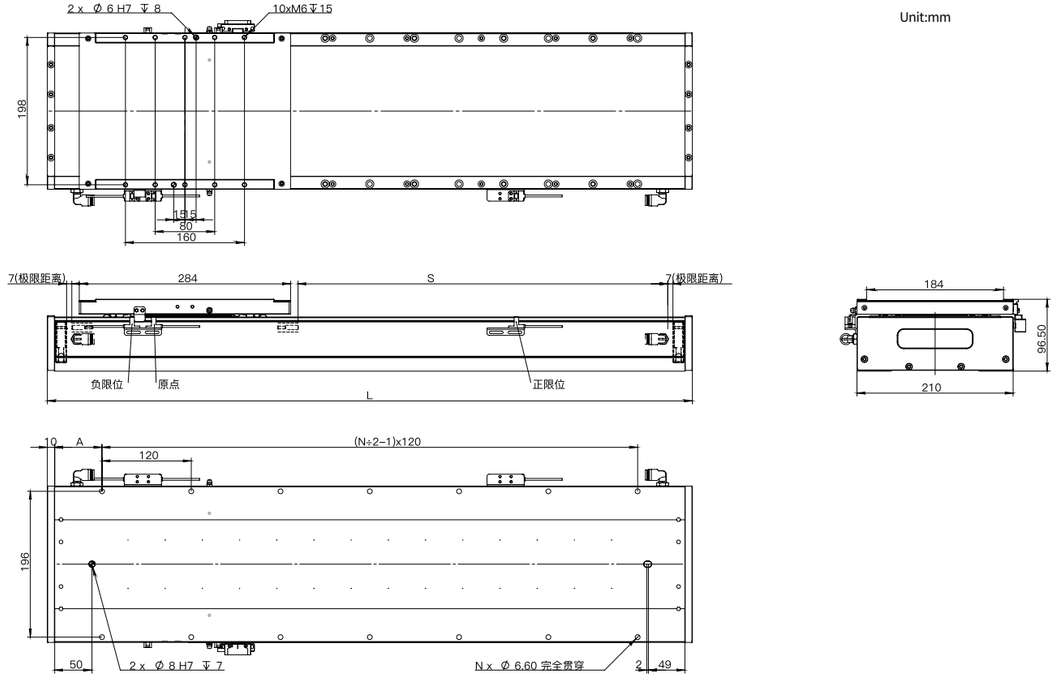
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	0.8	1.4	1.6	1.8	2.0	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.1
20kg	0.6	1.1	1.2	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.3	2.4
30kg	0.5	0.9	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	2.0	2.0
40kg	0.5	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8
50kg	0.4	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.6

Effective Travel:S	49	109	169	229	289	349	409	469	529	589	649	709	769	829	889	949	1009	1069	1129	1189
Mechanical Travel S+(Allowance)	63	123	183	243	303	363	423	483	543	603	663	723	783	843	903	963	1023	1083	1143	1203
Total Module Length:L	419	479	539	599	659	719	779	839	899	959	1019	1079	1139	1199	1259	1319	1379	1439	1499	1559
Number of Holes:N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	14.2	16.4	18.6	20.8	23	25.2	27.4	29.6	31.8	34	36.2	38.4	40.6	42.8	45	47.2	49.4	51.6	53.8	56
Moving Component Mass(KG)	4.4																			

Effective Travel:S	1249	1309	1369	1429	1489	1549	1609	1669	1729	1789	1849	1909	1969	2029	2089	2149	2209	2269	2329	2389
Mechanical Travel S+(Allowance)	1263	1323	1383	1443	1503	1563	1623	1683	1743	1803	1863	1923	1983	2043	2103	2163	2223	2283	2343	2403
Total Module Length:L	1619	1679	1739	1799	1859	1919	1979	2039	2099	2159	2219	2279	2339	2399	2459	2519	2579	2639	2699	2759
Number of Holes:N	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	58.2	60.4	62.6	64.8	67	69.2	71.4	73.6	75.8	78	80.2	82.4	84.6	86.8	89	91.2	93.4	95.6	97.8	100
Moving Component Mass(KG)	4.4																			

Overall Dimensions

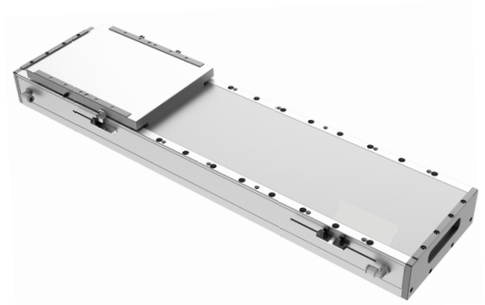
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS210 Linear Motor Module

ZWMS210-30B-3

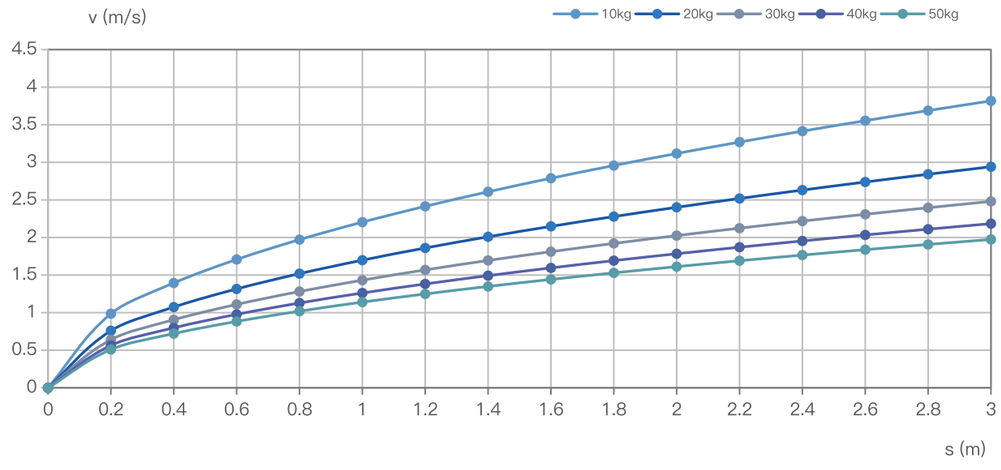


Specifications

Motor Type ZWU-30B-3	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	153	864	2.54	14.3	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	80	96.5	49~1789 (60 spacing)	0.07	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



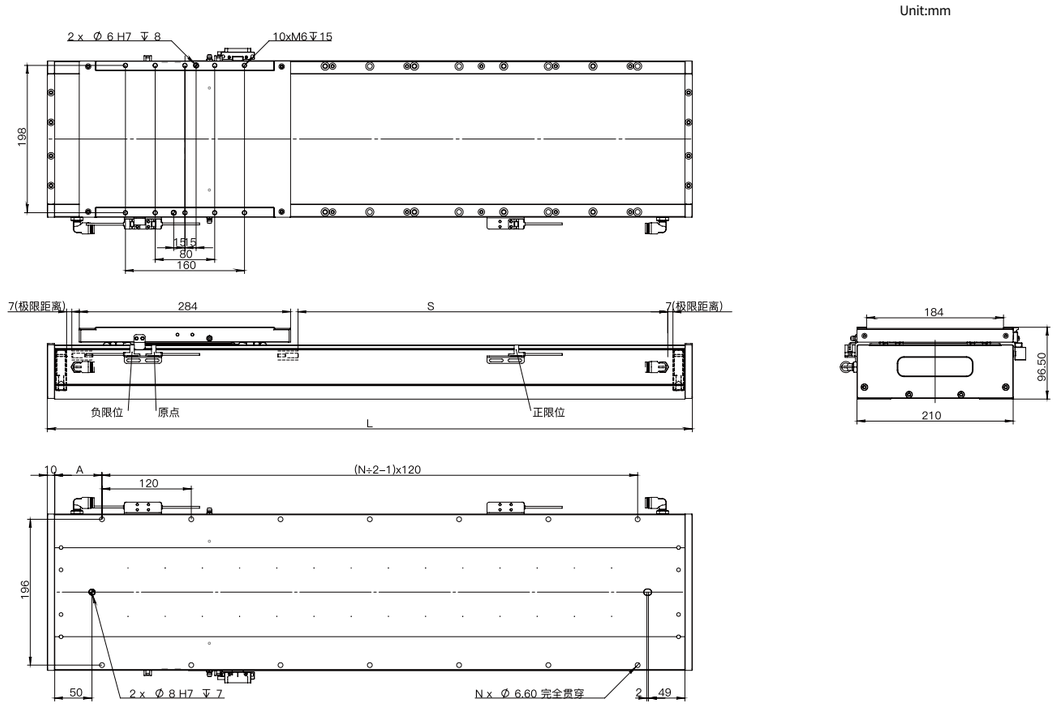
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.0	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.1	3.3	3.4	3.6	3.7	3.8
20kg	0.8	1.3	1.5	1.7	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
30kg	0.6	1.1	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
40kg	0.6	1.0	1.1	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.0	2.1	2.2
50kg	0.5	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.8	1.9	2.0

Effective Travel:S	49	109	169	229	289	349	409	469	529	589	649	709	769	829	889	949	1009	1069	1129	1189
Mechanical Travel S+(Allowance)	63	123	183	243	303	363	423	483	543	603	663	723	783	843	903	963	1023	1083	1143	1203
Total Module Length:L	419	479	539	599	659	719	779	839	899	959	1019	1079	1139	1199	1259	1319	1379	1439	1499	1559
Number of Holes:N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	14.4	16.6	18.8	21	23.2	25.4	27.6	29.8	32	34.2	36.4	38.6	40.8	43	45.2	47.4	49.6	51.8	54	56.2
Moving Component Mass(KG)	4.6																			

Effective Travel:S	1249	1309	1369	1429	1489	1549	1609	1669	1729	1789	1849	1909	1969	2029	2089	2149	2209	2269	2329	2389
Mechanical Travel S+(Allowance)	1263	1323	1383	1443	1503	1563	1623	1683	1743	1803	1863	1923	1983	2043	2103	2163	2223	2283	2343	2403
Total Module Length:L	1619	1679	1739	1799	1859	1919	1979	2039	2099	2159	2219	2279	2339	2399	2459	2519	2579	2639	2699	2759
Number of Holes:N	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	58.4	60.6	62.8	65	67.2	69.4	71.6	73.8	76	78.2	80.4	82.6	84.8	87	89.2	91.4	93.6	95.8	98	100.2
Moving Component Mass(KG)	4.6																			

Overall Dimensions

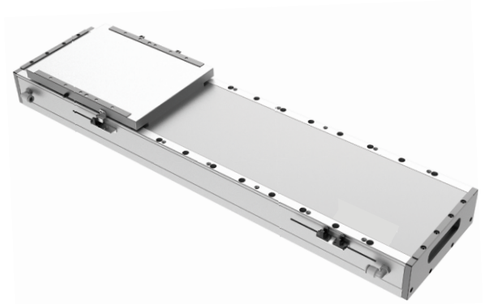
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS210 Linear Motor Module

ZWMS210-30B-4

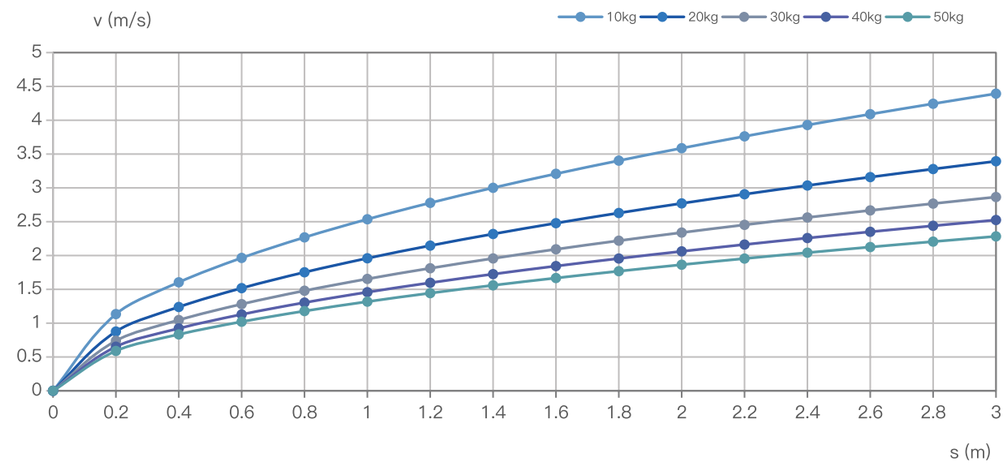


Specifications

Motor Type ZWU-30B-4	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	204	1152	2.54	14.3	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	80	96.5	49~1789 (60 spacing)	0.07	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



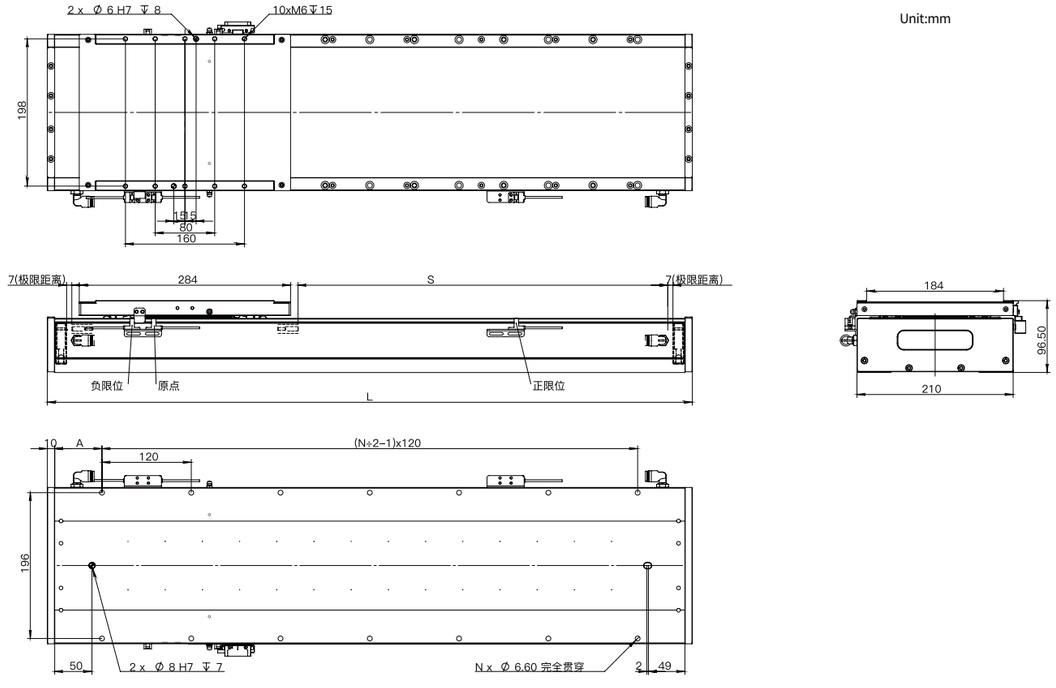
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.1	2.0	2.3	2.5	2.8	3.0	3.2	3.4	3.6	3.8	3.9	4.1	4.2	4.4
20kg	0.9	1.5	1.8	2.0	2.1	2.3	2.5	2.6	2.8	2.9	3.0	3.2	3.3	3.4
30kg	0.7	1.3	1.5	1.7	1.8	2.0	2.1	2.2	2.3	2.5	2.6	2.7	2.8	2.9
40kg	0.7	1.1	1.3	1.5	1.6	1.7	1.8	2.0	2.1	2.2	2.3	2.4	2.4	2.5
50kg	0.6	1.0	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.0	2.1	2.2	2.3

Effective Travel:S	49	109	169	229	289	349	409	469	529	589	649	709	769	829	889	949	1009	1069	1129	1189
Mechanical Travel S+(Allowance)	63	123	183	243	303	363	423	483	543	603	663	723	783	843	903	963	1023	1083	1143	1203
Total Module Length:L	419	479	539	599	659	719	779	839	899	959	1019	1079	1139	1199	1259	1319	1379	1439	1499	1559
Number of Holes:N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	14.6	16.8	19	21.2	23.4	25.6	27.8	30	32.2	34.4	36.6	38.8	41	43.5	45.4	47.6	49.8	52	54.2	56.8
Moving Component Mass(KG)	4.8																			

Effective Travel:S	1249	1309	1369	1429	1489	1549	1609	1669	1729	1789	1849	1909	1969	2029	2089	2149	2209	2269	2329	2389
Mechanical Travel S+(Allowance)	1263	1323	1383	1443	1503	1563	1623	1683	1743	1803	1863	1923	1983	2043	2103	2163	2223	2283	2343	2403
Total Module Length:L	1619	1679	1739	1799	1859	1919	1979	2039	2099	2159	2219	2279	2339	2399	2459	2519	2579	2639	2699	2759
Number of Holes:N	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	58.6	60.8	63	65.2	67.4	69.6	71.8	74	76.2	78.4	80.6	82.8	85	87.2	89.4	91.6	93.8	96	98.2	100.4
Moving Component Mass(KG)	4.8																			

Overall Dimensions

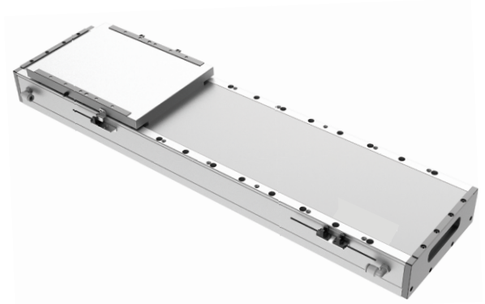
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS210 Linear Motor Module

ZWMS210-30B-5

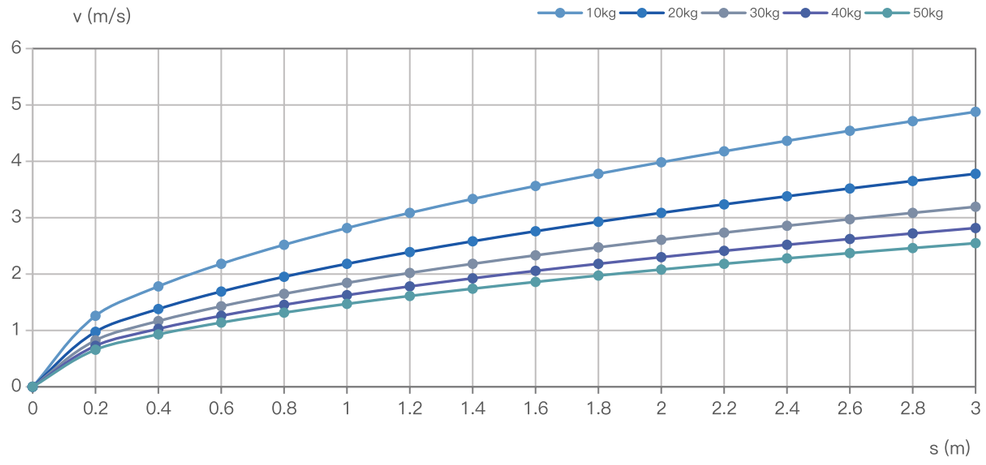


Specifications

Motor Type ZWU-30B-5	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	255	1440	2.54	14.3	4	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	80	96.5	49~1789 (60 spacing)	0.07	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



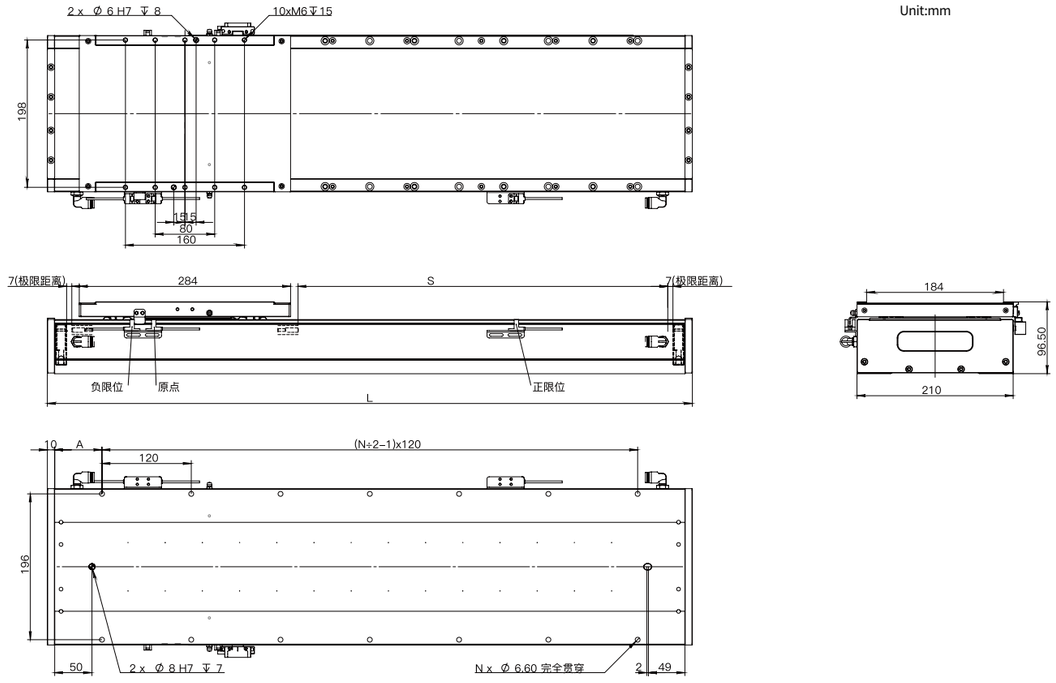
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.3	2.2	2.5	2.8	3.1	3.3	3.6	3.8	4.0	4.2	4.4	4.5	4.7	4.9
20kg	1.0	1.7	2.0	2.2	2.4	2.6	2.8	2.9	3.1	3.2	3.4	3.5	3.7	3.8
30kg	0.8	1.4	1.6	1.8	2.0	2.2	2.3	2.5	2.6	2.7	2.9	3.0	3.1	3.2
40kg	0.7	1.3	1.5	1.6	1.8	1.9	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8
50kg	0.7	1.1	1.3	1.5	1.6	1.7	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.5

Effective Travel:S	49	109	169	229	289	349	409	469	529	589	649	709	769	829	889	949	1009	1069	1129	1189
Mechanical Travel S+(Allowance)	63	123	183	243	303	363	423	483	543	603	663	723	783	843	903	963	1023	1083	1143	1203
Total Module Length:L	419	479	539	599	659	719	779	839	899	959	1019	1079	1139	1199	1259	1319	1379	1439	1499	1559
Number of Holes:N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	14.6	17	19.2	21.4	23.6	25.8	28	30.2	32.4	34.6	36.8	39	41.2	43.4	45.6	47.8	50	52.2	54.4	57
Moving Component Mass(KG)	5																			

Effective Travel:S	1249	1309	1369	1429	1489	1549	1609	1669	1729	1789	1849	1909	1969	2029	2089	2149	2209	2269	2329	2389
Mechanical Travel S+(Allowance)	1263	1323	1383	1443	1503	1563	1623	1683	1743	1803	1863	1923	1983	2043	2103	2163	2223	2283	2343	2403
Total Module Length:L	1619	1679	1739	1799	1859	1919	1979	2039	2099	2159	2219	2279	2339	2399	2459	2519	2579	2639	2699	2759
Number of Holes:N	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46
Distance from Hole to End:A	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5	19.5	49.5
Module Mass(KG)	58.8	61	63.2	65.4	67.6	69.8	72	74.2	76.4	78.6	80.8	83	85.2	87.4	89.6	91.8	94	96.2	98.4	100.6
Moving Component Mass(KG)	5																			

Overall Dimensions

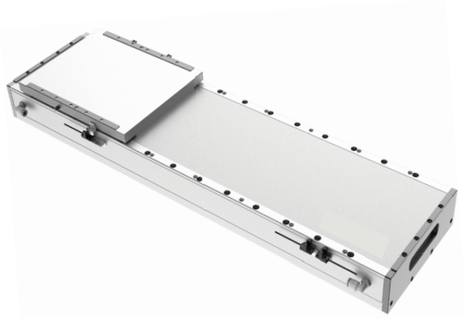
Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
Product appearance and specifications are subject to change without prior notice.

ZWMS230 Linear Motor Module

ZWMS230-3-H95-1

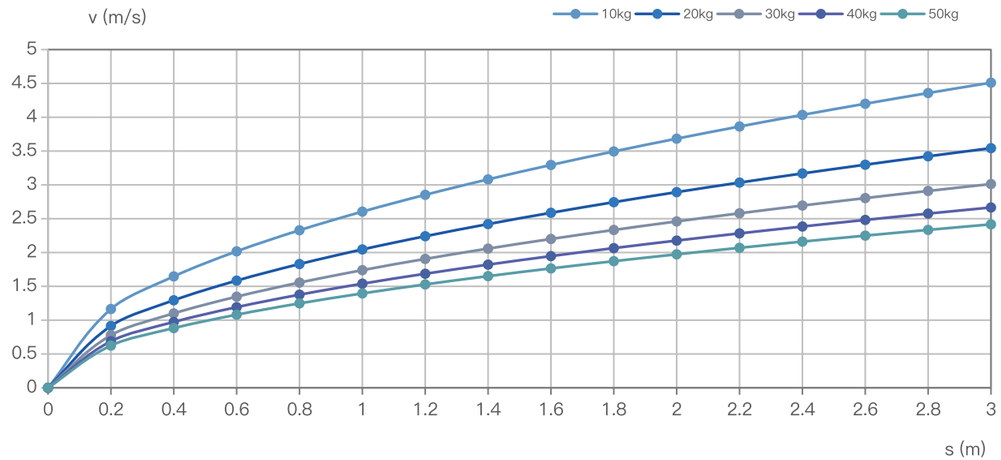


Specifications

Motor Type ZW3-H95-1	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	234	648	3.22	10.29	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	300	96.5	35~1985 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load

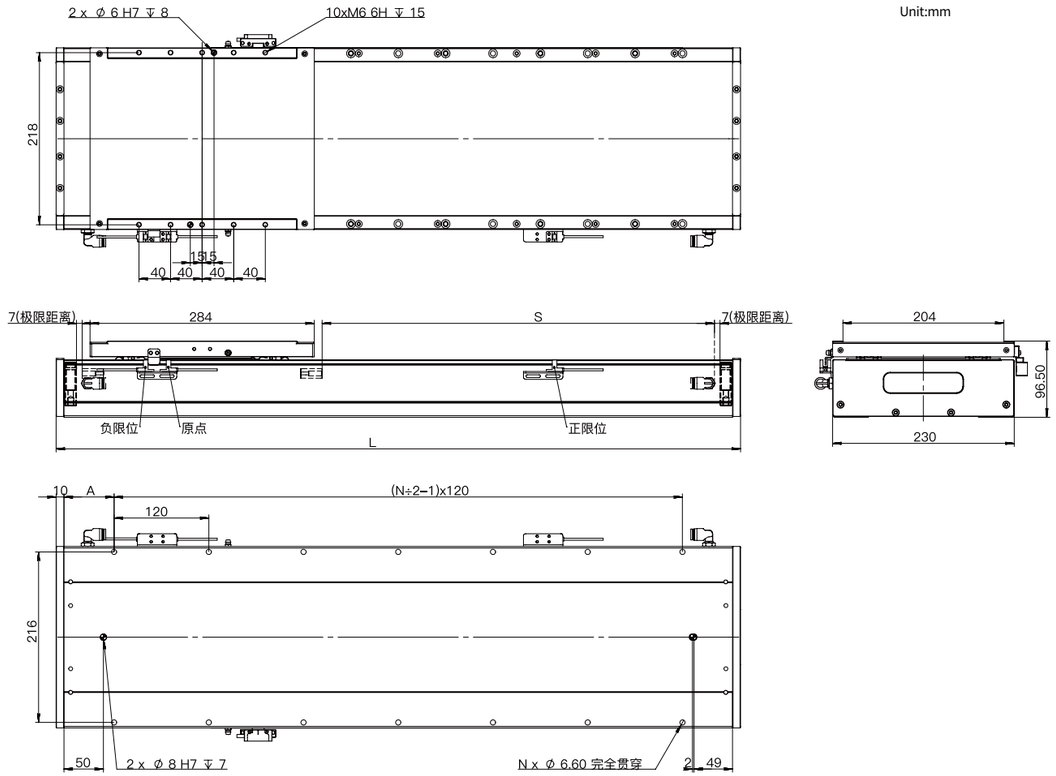


Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.2	2.0	2.3	2.6	2.9	3.1	3.3	3.5	3.7	3.9	4.0	4.2	4.4	4.5
20kg	0.9	1.6	1.8	2.0	2.2	2.4	2.6	2.7	2.9	3.0	3.2	3.3	3.4	3.5
30kg	0.8	1.3	1.6	1.7	1.9	2.1	2.2	2.3	2.5	2.6	2.7	2.8	2.9	3.0
40kg	0.7	1.2	1.4	1.5	1.7	1.8	1.9	2.1	2.2	2.3	2.4	2.5	2.6	2.7
50kg	0.6	1.1	1.2	1.4	1.5	1.7	1.8	1.9	2.0	2.1	2.2	2.2	2.3	2.4

Effective Travel:S	35	85	135	185	235	285	335	385	435	485	535	585	635	685	735	785	835	885	935	985
Mechanical Travel S+(Allowance)	49	99	149	199	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
Total Module Length:L	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355
Number of Holes:N	8	8	8	10	10	12	12	12	14	14	16	16	18	18	18	20	20	22	22	22
Distance from Hole to End:A	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5
Module Mass(KG)	19.1	20.4	21.7	23	23.3	24.6	25.9	27.2	28.5	29.8	31.2	32.4	33.7	35	36.3	37.6	38.9	40.2	41.5	42.8
Moving Component Mass(KG)	5.1																			

Effective Travel:S	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
Mechanical Travel S+(Allowance)	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
Total Module Length:L	1405	1455	1505	1555	1605	1655	1705	1755	1805	1855	1905	1955	2005	2055	2105	2155	2205	2255	2305	2355
Number of Holes:N	24	24	26	26	28	28	28	30	30	32	32	32	34	34	36	36	38	38	38	40
Distance from Hole to End:A	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5
Module Mass(KG)	44.1	45.4	46.7	48	49.3	50.6	51.9	53.2	54.5	55.8	57.1	58.4	59.7	61	62.3	63.6	64.9	65.2	66.5	67.8
Moving Component Mass(KG)	5.1																			

Overall Dimensions



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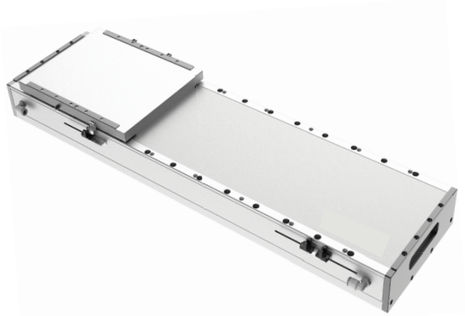
ZWMS230 Linear Motor Module

ZWMS230-3-H95-2

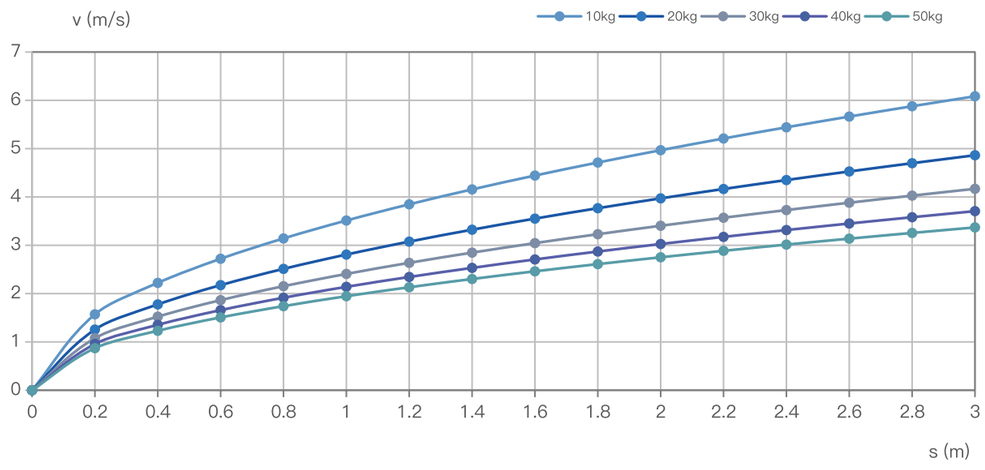


Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H95-2	468	1296	3.22	10.29	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	300	96.5	47~1997 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



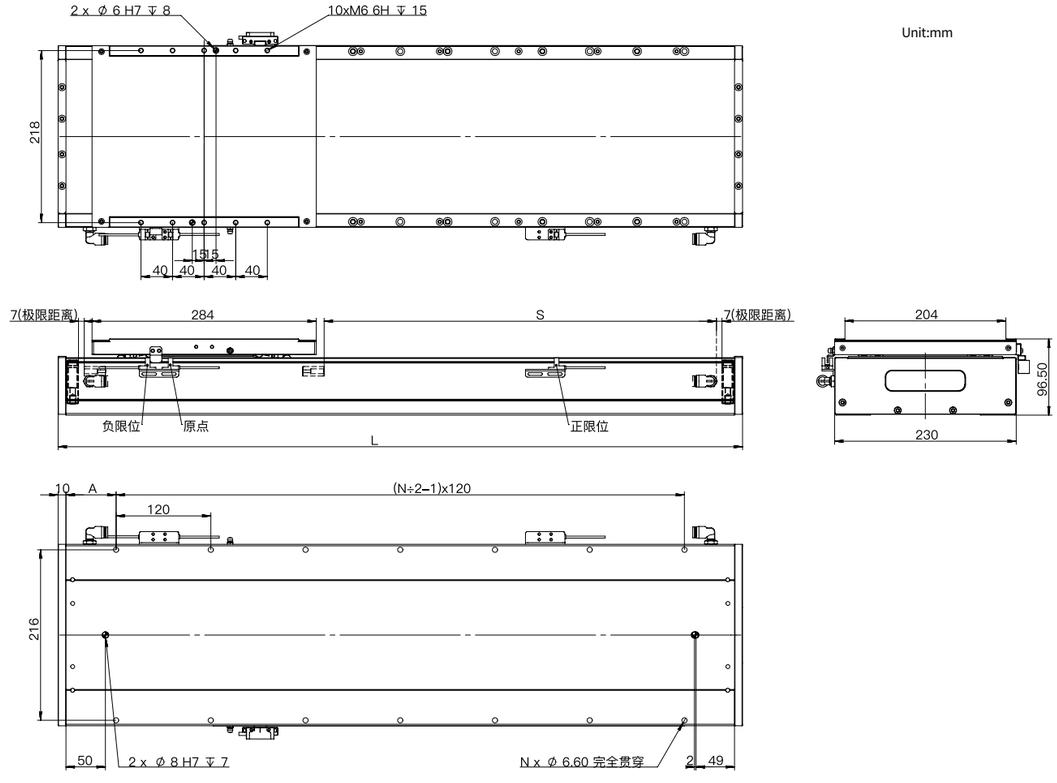
Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.6	2.7	3.1	3.5	3.8	4.2	4.4	4.7	5.0	5.2	5.4	5.7	5.9	6.1
20kg	1.3	2.2	2.5	2.8	3.1	3.3	3.6	3.8	4.0	4.2	4.4	4.5	4.7	4.9
30kg	1.1	1.9	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.7	3.9	4.0	4.2
40kg	1.0	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.0	3.2	3.3	3.5	3.6	3.7
50kg	0.9	1.5	1.7	1.9	2.1	2.3	2.5	2.6	2.8	2.9	3.0	3.1	3.3	3.4

Effective Travel:S	47	97	147	197	247	297	347	397	447	497	547	597	647	697	747	797	847	897	947	997
Mechanical Travel S+(Allowance)	61	111	161	211	261	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011
Total Module Length:L	417	467	517	567	617	23.5	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367
Number of Holes:N	8	8	8	10	10	12	12	14	14	14	16	16	18	18	18	20	20	22	22	24
Distance from Hole to End:A	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5
Module Mass(KG)	19.4	20.8	22.2	23.6	25	26.4	27.8	29.2	30.6	32	33.4	34.8	36.2	37.6	39	40.4	41.8	43.2	44.6	46
Moving Component Mass(KG)	7.7																			

Effective Travel:S	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
Mechanical Travel S+(Allowance)	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011
Total Module Length:L	1417	1467	1517	1567	1617	1667	1717	1767	1817	1867	1917	1967	2017	2067	2117	2167	2217	2267	2317	2367
Number of Holes:N	24	24	26	26	28	28	28	30	30	32	32	34	34	34	36	36	38	38	38	40
Distance from Hole to End:A	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5	58.5	33.5	48.5	13.5	38.5	63.5	28.5	53.5	18.5	43.5	68.5	33.5
Module Mass(KG)	47.4	48.8	50.2	51.6	53	54.4	55.8	57.2	58.6	60	61.4	62.8	64.2	65.6	67	68.4	69.8	71.2	72.6	74
Moving Component Mass(KG)	7.7																			

Overall Dimensions

Unit:mm



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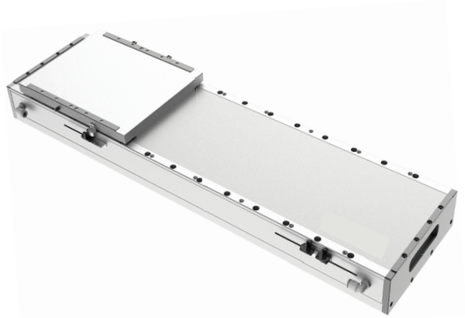
ZWMS230 Linear Motor Module

ZWMS230-3-H95-3

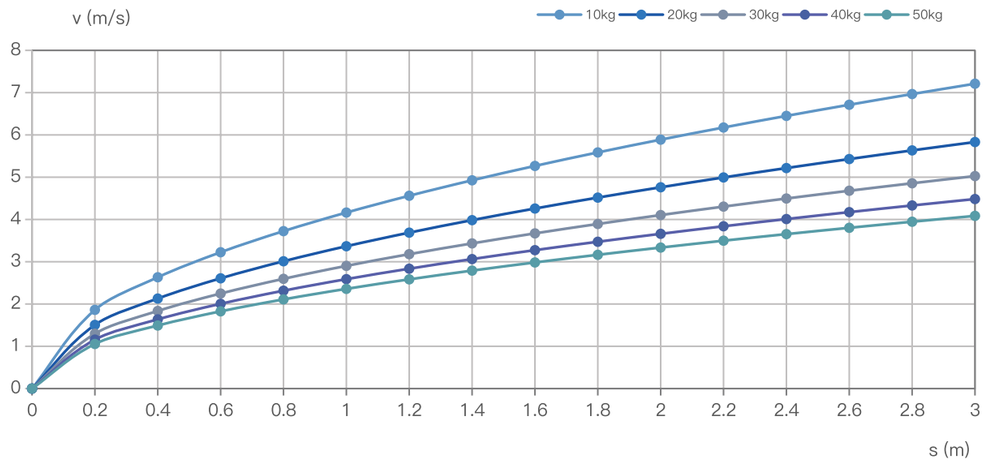


Specifications

Motor Type ZW3-H95-3	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	702	1944	3.22	10.29	4	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	300	96.5	10~1960 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



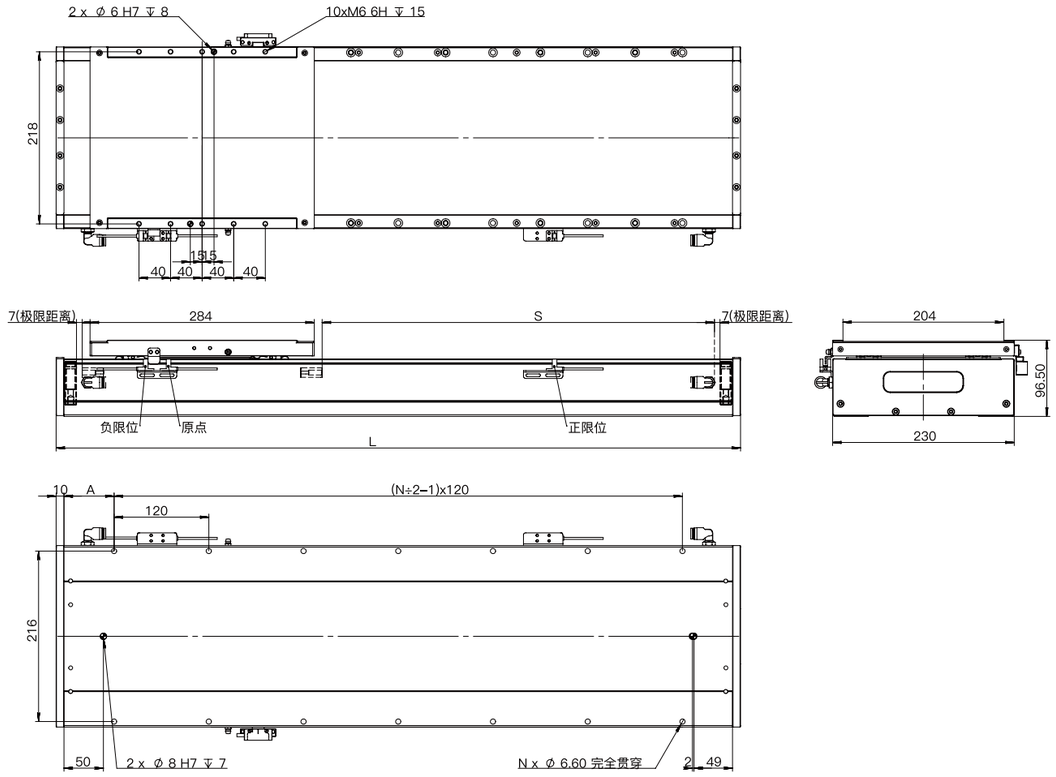
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.9	3.2	3.7	4.2	4.6	4.9	5.3	5.6	5.9	6.2	6.4	6.7	7.0	7.2
20kg	1.5	2.6	3.0	3.4	3.7	4.0	4.3	4.5	4.8	5.0	5.2	5.4	5.6	5.8
30kg	1.3	2.2	2.6	2.9	3.2	3.4	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.0
40kg	1.2	2.0	2.3	2.6	2.8	3.1	3.3	3.5	3.7	3.8	4.0	4.2	4.3	4.5
50kg	1.1	1.8	2.1	2.4	2.6	2.8	3.0	3.2	3.3	3.5	3.7	3.8	3.9	4.1

Effective Travel:S	10	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
Mechanical Travel S+(Allowance)	24	74	124	174	224	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974
Total Module Length:L	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330
Number of Holes:N	6	8	8	10	10	10	12	12	14	14	16	16	16	18	18	20	20	20	22	22
Distance from Hole to End:A	60	25	50	15	40	65	30	55	20	45	10	35	60	25	50	15	40	65	30	55
Module Mass(KG)	20.7	22.1	23.5	24.9	26.3	27.7	29.1	30.5	31.9	33.3	34.7	36.1	37.5	38.9	40.3	41.7	43.1	44.5	45.9	47.3
Moving Component Mass(KG)	8.9																			

Effective Travel:S	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
Mechanical Travel S+(Allowance)	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
Total Module Length:L	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930	1980	2030	2080	2130	2180	2230	2280	2330
Number of Holes:N	24	24	26	26	26	28	28	30	30	32	32	34	34	34	36	36	36	38	38	40
Distance from Hole to End:A	20	45	10	35	60	25	50	15	40	65	30	55	20	45	10	35	60	25	50	15
Module Mass(KG)	48.7	50.1	51.5	52.9	54.3	55.7	57.1	58.5	59.9	61.3	62.7	64.1	65.5	66.9	68.3	69.7	71.1	72.5	73.9	75.3
Moving Component Mass(KG)	8.9																			

Overall Dimensions

Unit:mm



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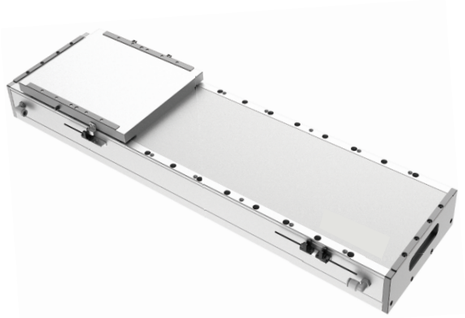
Product appearance and specifications are subject to change without prior notice.

ZWMS230 Linear Motor Module

ZWMS230-3-H105-1

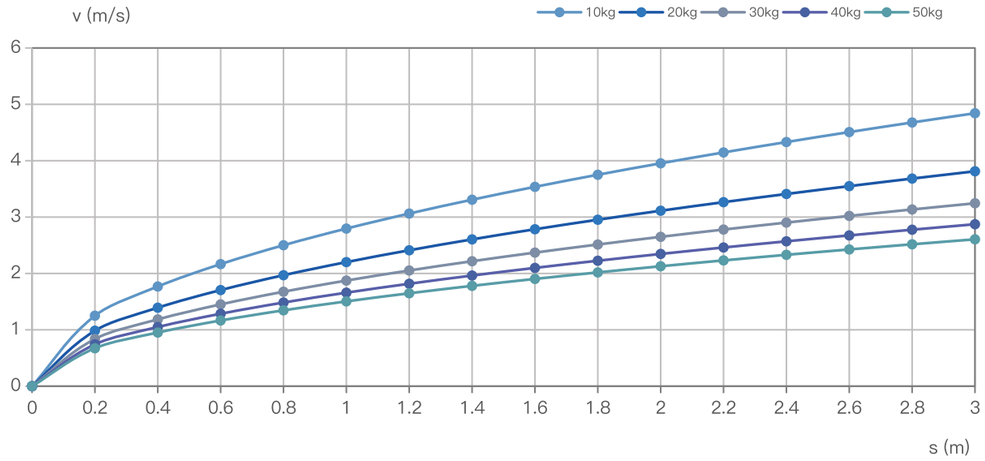


Specifications

Motor Type ZW3-H105-1	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	273	759	3.38	10.28	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	300	96.5	35~1985 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



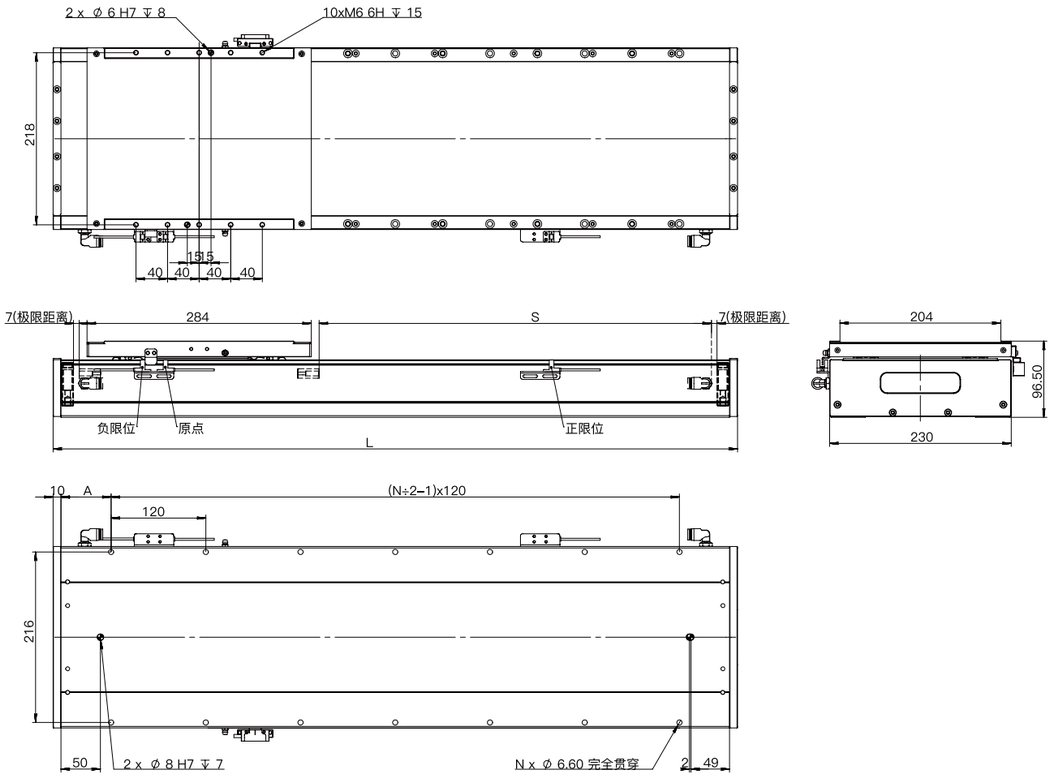
Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.3	2.2	2.5	2.8	3.1	3.3	3.5	3.8	4.0	4.1	4.3	4.5	4.7	4.8
20kg	1.0	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.1	3.3	3.4	3.5	3.7	3.8
30kg	0.8	1.5	1.7	1.9	2.1	2.2	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.2
40kg	0.7	1.3	1.5	1.7	1.8	2.0	2.1	2.2	2.3	2.5	2.6	2.7	2.8	2.9
50kg	0.7	1.2	1.3	1.5	1.6	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6

Effective Travel:S	35	85	135	185	235	285	335	385	435	485	535	585	635	685	735	785	835	885	935	985
Mechanical Travel S+(Allowance)	49	99	149	199	249	299	349	399	449	499	549	599	649	699	749	799	849	899	949	999
Total Module Length:L	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355
Number of Holes:N	8	8	8	10	10	12	12	12	14	14	16	16	18	18	18	20	20	22	22	22
Distance from Hole to End:A	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5
Module Mass(KG)	19.1	20.4	21.7	23	23.3	24.6	25.9	27.2	28.5	29.8	31.2	32.4	33.7	35	36.3	37.6	38.9	40.2	41.5	42.8
Moving Component Mass(KG)	6.3																			

Effective Travel:S	1035	1085	1135	1185	1235	1285	1335	1385	1435	1485	1535	1585	1635	1685	1735	1785	1835	1885	1935	1985
Mechanical Travel S+(Allowance)	1049	1099	1149	1199	1249	1299	1349	1399	1449	1499	1549	1599	1649	1699	1749	1799	1849	1899	1949	1999
Total Module Length:L	1405	1455	1505	1555	1605	1655	1705	1755	1805	1855	1905	1955	2005	2055	2105	2155	2205	2255	2305	2355
Number of Holes:N	24	24	26	26	28	28	28	30	30	32	32	32	34	34	36	36	38	38	38	40
Distance from Hole to End:A	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	17.5	67.5	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5
Module Mass(KG)	44.1	45.4	46.7	48	49.3	50.6	51.9	53.2	54.5	55.8	55.8	58.4	59.7	61	62.3	63.6	64.9	65.2	66.5	67.8
Moving Component Mass(KG)	6.3																			

Overall Dimensions

Unit:mm



This drawing is for reference only. Actual dimensions shall be based on the provided 2D/3D drawings.
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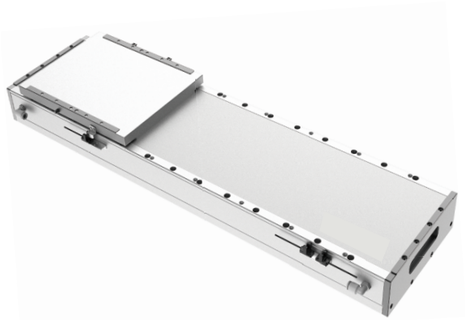
ZWMS230 Linear Motor Module

ZWMS230-3-H105-2

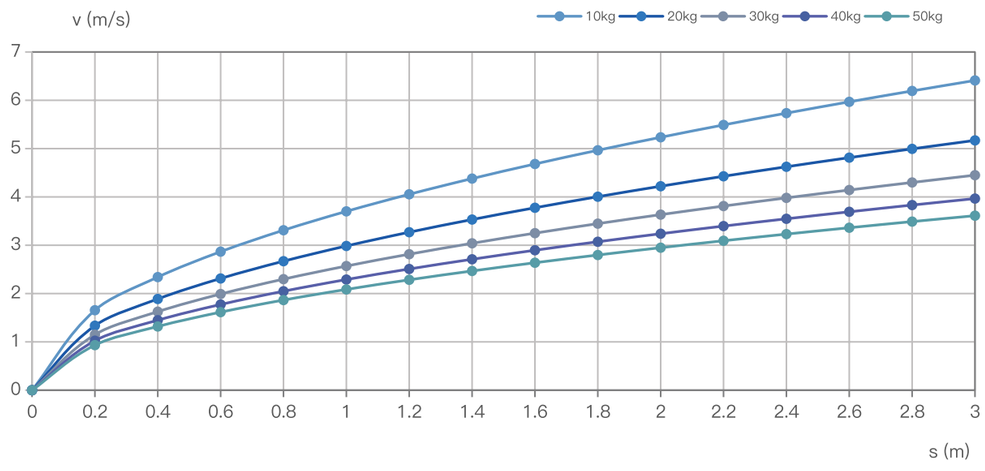


Specifications

	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
Motor Type ZW3-H105-2	546	1518	3.38	10.28	4	50
	Repeatability(um)	Max Load*1(kg)	Module Height (mm)	Travel*2 (mm)	Temperature Rise Suppression (℃ /W)	Thrust Ripple
	Magnetic Scale :±3 Optical Encoder :±2	300	96.5	47~1997 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



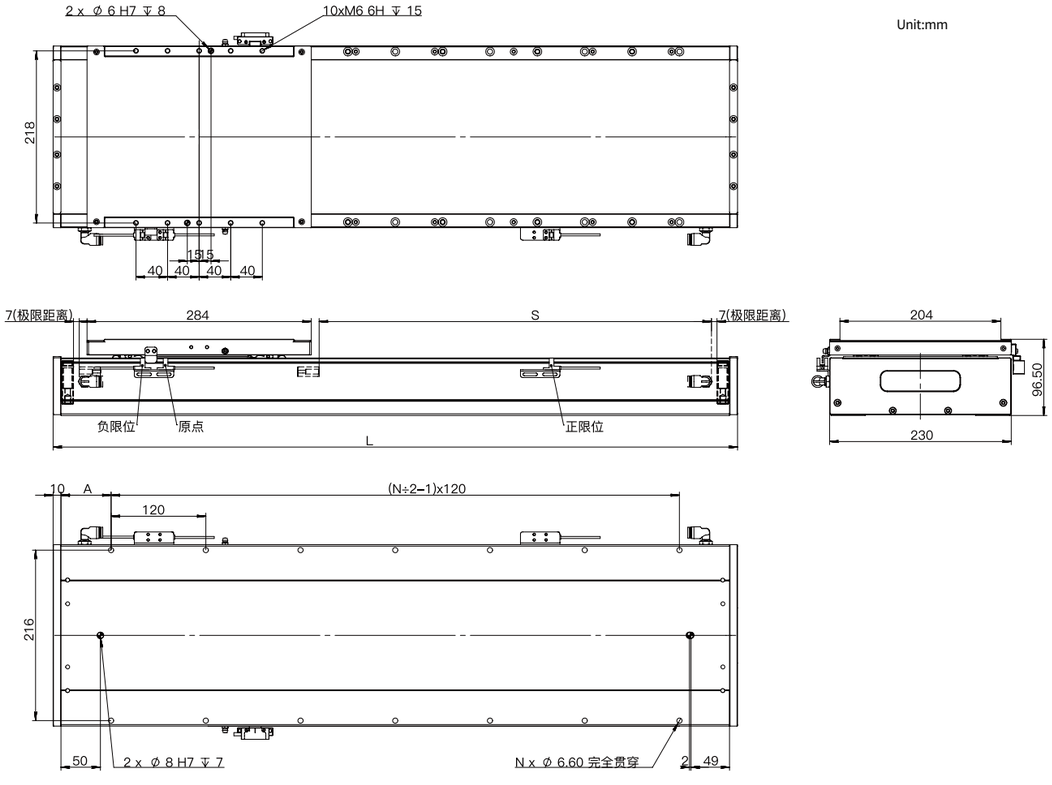
Travel(m) / Load(kg)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.7	2.9	3.3	3.7	4.1	4.4	4.7	5.0	5.2	5.5	5.7	6.0	6.2	6.4
20kg	1.3	2.3	2.7	3.0	3.3	3.5	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2
30kg	1.1	2.0	2.3	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.1	4.3	4.5
40kg	1.0	1.8	2.0	2.3	2.5	2.7	2.9	3.1	3.2	3.4	3.5	3.7	3.8	4.0
50kg	0.9	1.6	1.9	2.1	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.4	3.5	3.6

Effective Travel:S	47	97	147	197	247	297	347	397	447	497	547	597	647	697	747	797	847	897	947	997
Mechanical Travel S+(Allowance)	61	111	161	211	261	311	361	411	461	511	561	611	661	711	761	811	861	911	961	1011
Total Module Length:L	405	455	505	555	605	655	705	755	805	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355
Number of Holes:N	8	8	8	10	10	12	12	12	14	14	14	16	18	18	18	20	20	22	22	22
Distance from Hole to End:A	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	42.5	67.5
Module Mass(KG)	19.1	20.4	21.7	23	23.3	24.6	25.9	27.2	28.5	29.8	31.2	32.4	33.7	35	36.3	37.6	38.9	40.2	41.5	42.8
Moving Component Mass(KG)	8.6																			

Effective Travel:S	1047	1097	1147	1197	1247	1297	1347	1397	1447	1497	1547	1597	1647	1697	1747	1797	1847	1897	1947	1997
Mechanical Travel S+(Allowance)	1061	1111	1161	1211	1261	1311	1361	1411	1461	1511	1561	1611	1661	1711	1761	1811	1861	1911	1961	2011
Total Module Length:L	1405	1455	1505	1555	1605	1655	1705	1755	1805	1855	1905	1955	2005	2055	2105	2155	2205	2255	2305	2355
Number of Holes:N	24	24	26	26	28	28	30	30	32	32	34	34	34	36	36	38	38	38	38	40
Distance from Hole to End:A	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5	52.5	17.5	17.5	67.5	32.5	57.5	22.5	47.5	12.5	37.5	62.5	27.5
Module Mass(KG)	44.1	45.4	46.7	48	49.3	50.6	51.9	53.2	54.5	55.8	55.8	58.4	59.7	61	62.3	63.6	64.9	65.2	66.5	67.8
Moving Component Mass(KG)	8.6																			

Overall Dimensions

Unit:mm



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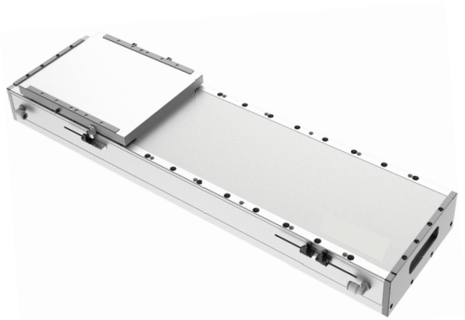
Product appearance and specifications are subject to change without prior notice.

ZWMS230 Linear Motor Module

ZWMS230-3-H105-3

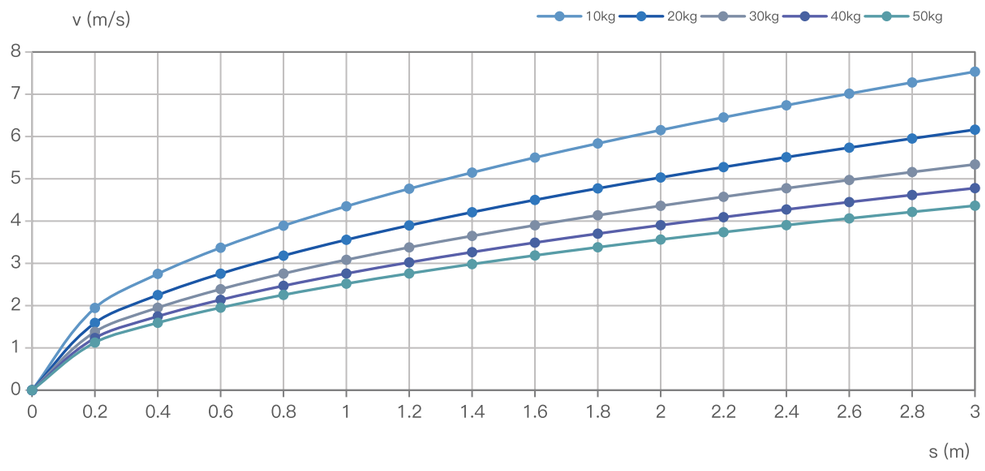


Specifications

Motor Type ZW3-H105-3	Continuous Force (N)	Peak Force(N)	Continuous Current(Arms)	Peak Current(Arms)	Max Speed*1 (m/s)	Max Acceleration*1(m/s²)
	819	2277	3.38	10.28	4	50
	Repeatability(um)	**Max Load*1(kg)**	**Module Height (mm)**	**Travel*2 (mm)**	**Temperature Rise Suppression (℃ /W)**	**Thrust Ripple**
	Magnetic Scale :±3 Optical Encoder :±2	300	96.5	10~1960 (50 spacing)	0.05	< 2%

*1 Maximum acceleration, maximum speed, and maximum load are reference values. Actual performance should be evaluated based on motion planning. Please contact the manufacturer if actual parameters exceed these reference values.
*2 For longer travel, please contact the manufacturer.

Quick Selection of Motor Load



Load(kg) \ Travel(m)	0.2	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3
	Max Speed(m/s)													
10kg	1.9	3.4	3.9	4.3	4.8	5.1	5.5	5.8	6.2	6.5	6.7	7.0	7.3	7.5
20kg	1.6	2.8	3.2	3.6	3.9	4.2	4.5	4.8	5.0	5.3	5.5	5.7	6.0	6.2
30kg	1.4	2.4	2.8	3.1	3.4	3.6	3.9	4.1	4.4	4.6	4.8	5.0	5.2	5.3
40kg	1.2	2.1	2.5	2.8	3.0	3.3	3.5	3.7	3.9	4.1	4.3	4.4	4.6	4.8
50kg	1.1	2.0	2.3	2.5	2.8	3.0	3.2	3.4	3.6	3.7	3.9	4.1	4.2	4.4

Effective Travel:S	10	60	110	160	210	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960
Mechanical Travel S+(Allowance)	24	74	124	174	224	274	324	374	424	474	524	574	624	674	724	774	824	874	924	974
Total Module Length:L	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	1280	1330
Number of Holes:N	6	8	8	10	10	10	12	12	14	14	16	16	16	18	18	20	20	20	22	22
Distance from Hole to End:A	60	25	50	15	40	65	30	55	20	45	10	35	60	25	50	15	40	65	30	55
Module Mass(KG)	20.7	22.1	23.5	24.9	26.3	27.7	29.1	30.5	31.9	33.3	34.7	36.1	37.5	38.9	40.3	41.7	43.1	44.5	45.9	47.3
Moving Component Mass(KG)	10.2																			

Effective Travel:S	1010	1060	1110	1160	1210	1260	1310	1360	1410	1460	1510	1560	1610	1660	1710	1760	1810	1860	1910	1960
Mechanical Travel S+(Allowance)	1024	1074	1124	1174	1224	1274	1324	1374	1424	1474	1524	1574	1624	1674	1724	1774	1824	1874	1924	1974
Total Module Length:L	1380	1430	1480	1530	1580	1630	1680	1730	1780	1830	1880	1930	1980	2030	2080	2130	2180	2230	2280	2330
Number of Holes:N	24	24	26	26	26	28	28	30	30	32	32	34	34	34	36	36	36	38	38	40
Distance from Hole to End:A	20	45	10	35	60	25	50	15	40	65	30	55	20	45	10	35	60	25	50	15
Module Mass(KG)	48.7	50.1	51.5	52.9	54.3	55.7	57.1	58.5	59.9	61.3	62.7	64.1	65.5	66.9	68.3	69.7	71.1	72.5	73.9	75.3
Moving Component Mass(KG)	10.2																			

Overall Dimensions

Unit:mm

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