

SHENZHEN W-ROBOT INDUSTRY CO., LTD

PRODUCT CATALOGUE

LINEAR MOTION & ROBOTICS SOLUTION PROVIDER





NATIONAL HIGH-TECH ENTERPRISE LINEAR MOTION & ROBOTICS SOLUTION PROVIDER

W-ROBOT MAKE SMART MANUFACTURING SIMPLER

As one of Specialized and Sophisticated SMEs in China, Shenzhen W-Robot Industry Co., Ltd. is also a certificated National High-Tech enterprise, which focuses on linear robotics technology and solutions, through the integration of R&D, production, sales and service.

Since its establishment in the year of 2011, W-ROBOT has been providing its customers with reliable and one-stop linear robotic technologies and solutions, thanks to its in-depth research into the industry, substantial R&D strength, professional team management, strict quality control and powerful innovation capabilities.

Headquartered in Shenzhen, W-ROBOT boasts three branches in Dongguan, Beijing and Suzhou, and over 100 distributors both at home and abroad, such as, United States, Mexico, Germany, India, Thailand, Vietnam, Indonesia, and South Korea. It has more than 200 employees and covers an area of over 10,000 square meters for office and production.

In addition, W-ROBOT has being holding 12 invention patents, 6 software patents, 130+ utility model patents. It has been maintaining a large product portfolio for the linear-motion industry, to achieve a perfect replacement for imported brands which now still have a strong presence in China, and to fill the gap in the domestic market regarding linear robotic industrial products.

Over the past decade, W-ROBOT has attached significant importance to professionalism, industry focus, continuous innovation, branding and value-driving. It keeps using scientific management methods, offering its customers excellent product quality and service. Accordingly, W-ROBOT has earned an outstanding reputation in the industry. W-ROBOT has become one of the most competitive standard parts providers in the domestic linear-robot industry and one of the Top 10 brands of industrial manipulators in China.

12000+m²

Factory area

200+

Headcount

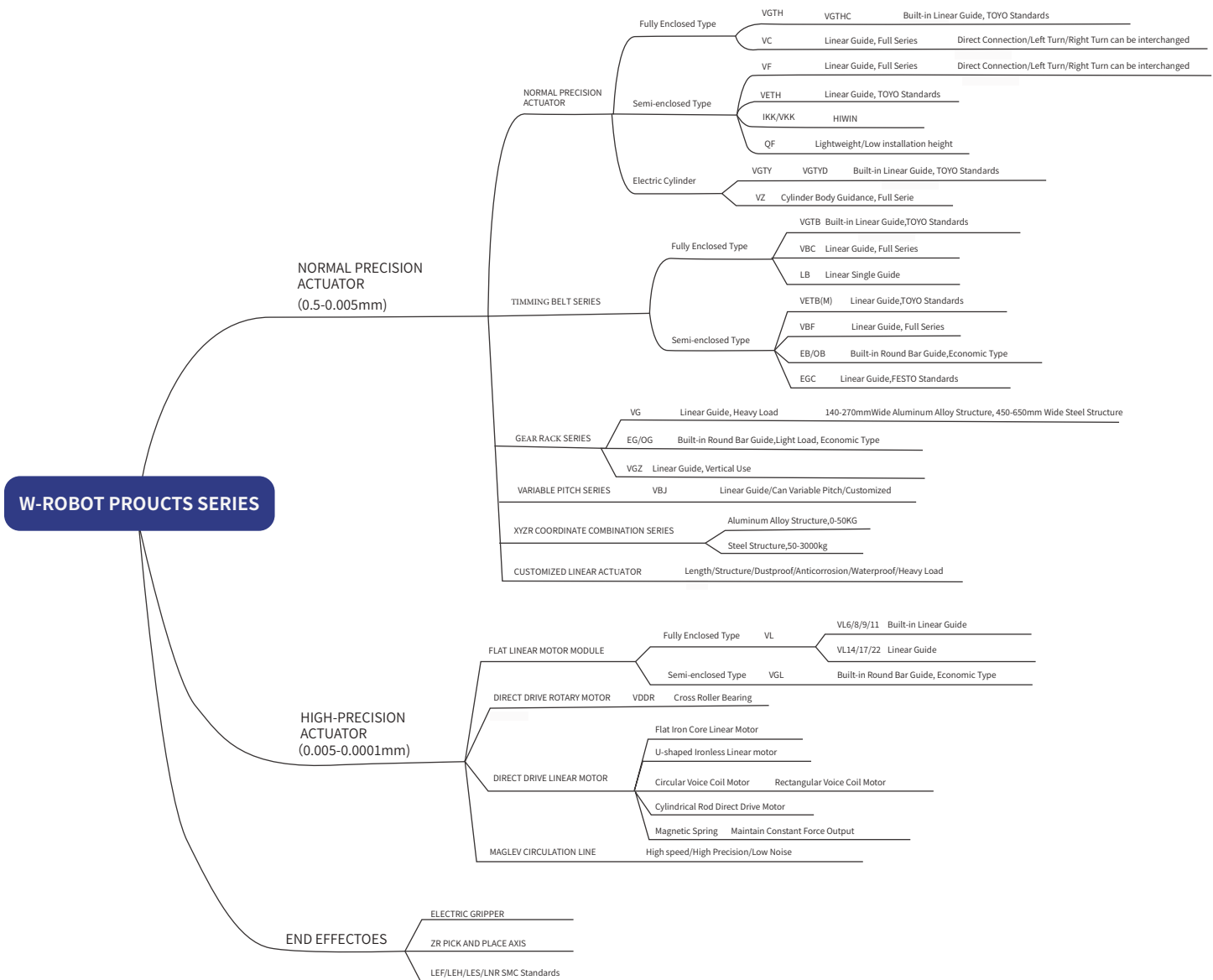
50+

R & D team

2000+

Industry cases

W-ROBOT Products Series



VGTH series Integrated Linear Bearings Ball Screw Actuator



VGTH4



VGTH5



VGTH8



VGTH12



VGTH15



VGTH20

- Sealed and dustproof
- Highly compatible
- Short delivery time

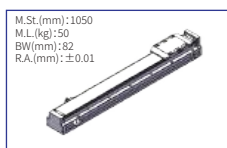
VGTHC series Integrated Linear Bearings Ball Screw Actuator with Air Nozzl



VGTHC4



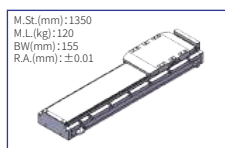
VGTHC5



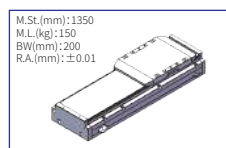
VGTHC8



VGTHC12



VGTHC15



VGTHC20

- Low dust generation, and clean room: Class 100,000
- High payload and high rigidit
- High precision and high efficiency
- Excellent wear resistance at high speeds

VC Module Series for Clean Room



VC6



VC8



VC10



VC12



VC14



VC17



VC22

- Typical series and stable structure
- Strong deformation resistance for side-mounted payload
- The body has high rigidity
- BC, BL and BR are interchangeable for easier stockin

VF Ball Screw Module Series



VF6N



VF8



VF10



VF12



VF14



VF17



VF22



VF27

- Typical series and stable structure
- The payload of VF10 or VF12 is three times larger than that of our competitors
- BC, BL and BR are interchangeable for easier stocking
- The performance of VF14 can be equivalent to that of a 170mm-width acuator from our peers

VETH Ball Screw Module Series

M.St.(mm):1250
M.L.(kg):70
BW(mm):135
R.A.(mm):±0.01



VETH13

M.St.(mm):1250
M.L.(kg):110
BW(mm):135
R.A.(mm):±0.01



VETH14

M.St.(mm):3700
M.L.(kg):120
BW(mm):170
R.A.(mm):±0.01



VETH17

M.St.(mm):3650
M.L.(kg):150
BW(mm):220
R.A.(mm):±0.01



VETH22

- Highly size compatible
- Large payload and high rigidity
- Compact design
- It runs smoothly

KK Module Series

M.St.(mm):510
M.L.(kg):30
R.A.(mm):±0.01



VKK60

M.St.(mm):816
M.L.(kg):50
R.A.(mm):±0.01



VKK80

M.St.(mm):816
M.L.(kg):50
R.A.(mm):±0.01



VKK86

M.St.(mm):1228
M.L.(kg):80
R.A.(mm):±0.01



VKK100

M.St.(mm):220
M.L.(kg):20
R.A.(mm):±0.01



IKK50

M.St.(mm):510
M.L.(kg):40
R.A.(mm):±0.01



IKK60

M.St.(mm):816
M.L.(kg):60
R.A.(mm):±0.01



IKK86

- High-precision and high-efficiency, ready to ship
- Aluminum alloy body for VKK, and steel body for IKK
- The installation dimensions are commonly used in the industry
- VKK86 and VKK100 have a distinct price advantage

QF ball screw module series

M.St.(mm):420
M.L.(kg):30
BW(mm):56
R.A.(mm):±0.01



QF6N

M.St.(mm):420
M.L.(kg):30
BW(mm):86
R.A.(mm):±0.01



QF8

M.St.(mm):420
M.L.(kg):65
BW(mm):100
R.A.(mm):±0.01



QF10

M.St.(mm):420
M.L.(kg):70
BW(mm):110
R.A.(mm):±0.01



QF12

M.St.(mm):420
M.L.(kg):110
BW(mm):135
R.A.(mm):±0.01



QF14

M.St.(mm):420
M.L.(kg):120
BW(mm):170
R.A.(mm):±0.01



QF17

M.St.(mm):420
M.L.(kg):150
BW(mm):200
R.A.(mm):±0.01



QF22

- Ultra-thin; the maximum height difference is 36mm lower than the peers
- High precision: the actuator's guideways directly touches the installation base, thus reducing cumulative errors

Electric cylinder

M.ST.(mm):300
thrust(KN):0.85
BW(mm):40
R.A.(mm):±0.01



VZ4

M.ST.(mm):400
thrust(KN):1.4
BW(mm):52
R.A.(mm):±0.01



VZ5

M.ST.(mm):800
thrust(KN):6
BW(mm):60
R.A.(mm):±0.01



VZ6

M.ST.(mm):1000
thrust(KN):13
BW(mm):75
R.A.(mm):±0.01



VZ7

M.ST.(mm):1200
thrust(KN):25
BW(mm):80
R.A.(mm):±0.01



VZ8

M.ST.(mm):1500
thrust(KN):45
BW(mm):93
R.A.(mm):±0.01



VZ9

M.ST.(mm):1500
thrust(KN):50
BW(mm):110
R.A.(mm):±0.01



VZ11

M.ST.(mm):1500
thrust(KN):75
BW(mm):134
R.A.(mm):±0.01



VZ135

M.ST.(mm):2500
thrust(KN):150
BW(mm):180
R.A.(mm):±0.01



VZ180

M.ST.(mm):2500
thrust(KN):320
BW(mm):220
R.A.(mm):±0.01



VZ220

- Multiple installation methods; and suitable for vertical installation
- Various payloads; and meet all kinds of needs for customization
- Suitable for making servo pressing machine, or other related machines

VGTY Series Built-in Electric Cylinder Modules

M.St.(mm):500
M.L.(kg):25
BW(mm):44
R.A.(mm):±0.01



VGTY4

M.St.(mm):600
M.L.(kg):30
BW(mm):54
R.A.(mm):±0.01



VGTY5

M.St.(mm):800
M.L.(kg):50
BW(mm):82
R.A.(mm):±0.01



VGTY8

M.St.(mm):800
M.L.(kg):110
BW(mm):120
R.A.(mm):±0.01



VGTY12

M.St.(mm):1100
M.L.(kg):120
BW(mm):155
R.A.(mm):±0.01



VGTY15

M.St.(mm):1100
M.L.(kg):150
BW(mm):200
R.A.(mm):±0.01



VGTY20

- Compact structure
- Small boundary dimensions, and lightweight
- The integrated design of its threaded holes makes fixation more convenient
- The stretchable rod is not rotated during running

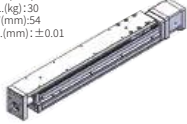
VGTYD series electric cylinder modules

M.St.(mm):500
M.L.(kg):25
BW(mm):44
R.A.(mm):±0.01



VGTYD4

M.St.(mm):600
M.L.(kg):30
BW(mm):54
R.A.(mm):±0.01



VGTYD5

M.St.(mm):800
M.L.(kg):50
BW(mm):82
R.A.(mm):±0.01



VGTYD8

M.St.(mm):800
M.L.(kg):110
BW(mm):120
R.A.(mm):±0.01



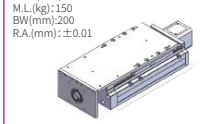
VGTYD12

M.St.(mm):1100
M.L.(kg):120
BW(mm):155
R.A.(mm):±0.01



VGTYD15

M.St.(mm):1100
M.L.(kg):150
BW(mm):200
R.A.(mm):±0.01



VGTYD20

- The mounting holes are highly compatible, making replacement much easier
- Can be used for a long-stroke Z Axis
- High payload and high rigidity
- Structure stable and durable

VGTB series built-in belt modules

M.St.(mm):800
M.L.(kg):15
BW(mm):80
R.A.(mm):±0.04/300



VGTB8

M.St.(mm):3800
M.L.(kg):25
BW(mm):120
R.A.(mm):±0.04/300



VGTB12

M.St.(mm):3700
M.L.(kg):40
BW(mm):150
R.A.(mm):±0.04/300



VGTB15

M.St.(mm):3650
M.L.(kg):70
BW(mm):200
R.A.(mm):±0.04/300



VGTB20

- Fully enclosed; one-piece body
- Guideways type
- Can reach a 5500mm stroke
- The counterbore and the tapped hole share the same passage, making installation much easier

VETB(M) series timing belt modules

M.St.(mm):3800
M.L.(kg):25
BW(mm):140
R.A.(mm):±0.04/300



VETB(M)14

M.St.(mm):3750
M.L.(kg):45
BW(mm):170
R.A.(mm):±0.04/300



VETB(M)17

M.St.(mm):3750
M.L.(kg):85
BW(mm):220
R.A.(mm):±0.04/300



VETB(M)22

- Highly size compatible in the industry
- Accurate speed ratio and positioning control
- High transmission efficiency
- Long stroke available; and can be customized

LB series timing belt modules

M.St.(mm):5700
M.L.(kg):40
BW(mm):65
R.A.(mm):±0.04/300



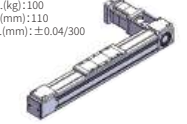
LB6

M.St.(mm):5700
M.L.(kg):68
R.A.(mm):80
R.A.(mm):±0.04/300



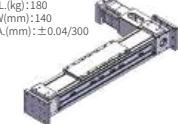
LB8

M.St.(mm):5700
M.L.(kg):100
BW(mm):110
R.A.(mm):±0.04/300



LB11

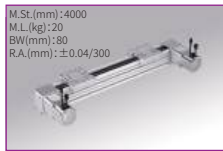
M.St.(mm):5700
M.L.(kg):180
BW(mm):140
R.A.(mm):±0.04/300



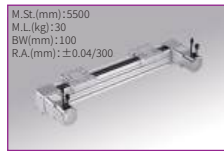
LB14

- Standardized designing
- High precision and high efficiency
- It operates smoothly with low noise
- It can be used in various working environments

EB-S2 Double Belt/Double Motor Series



EB8S2



EB10S2



EB16S2



EB20S2

- It has a shared operating area and a double-carriage structure, which greatly reduces installation space and operating cycle

Timing belt module



VBF10



VBF12



VBF14



VBF17



VBF22



VBC10



VBC12



VBC14



VBC17



RBC5



RBC6



RBF27

OB series high-speed belt modules



OB4



OB6



OB8



OB10



OB16



OB20

- It is suitable for high-speed operation at 3 - 10 meters per second
- Convenient-to-install profile, and the aluminum body can be used as a crossbeam
- A complete range of models
- It is easy to adjust the tightness of the belt

EGC European standard series



EGC70



EGC80

VG series modules

M.St.(mm):1020
M.L.(kg):10
BW(mm):150
R.A.(mm): ± 0.04



VG6Z

M.St.(mm):1200
M.L.(kg):40
BW(mm):80
R.A.(mm): ± 0.04



VG8Z

M.St.(mm):1740
M.L.(kg):60
BW(mm):100
R.A.(mm): ± 0.04



VG10Z

M.St.(mm):1500
M.L.(kg):85
BW(mm):140
R.A.(mm): ± 0.04



VG14

M.St.(mm):1500
M.L.(kg):120
BW(mm):170
R.A.(mm): ± 0.04



VG17

M.St.(mm):1500
M.L.(kg):150
BW(mm):220
R.A.(mm): ± 0.04



VG22

M.St.(mm):1500
M.L.(kg):150
BW(mm):270
R.A.(mm): ± 0.04



VG27

Rack and pinion module series of EG

M.St.(mm):5500
M.L.(kg):60
BW(mm):100
R.A.(mm): ± 0.05



EG10

M.St.(mm):5500
M.L.(kg):100
BW(mm):160
R.A.(mm): ± 0.05



EG16

M.St.(mm):5500
M.L.(kg):150
BW(mm):200
R.A.(mm): ± 0.05



EG20

- For coordinate-type manipulator; it is easy and simple to build
- The roller structure can achieve a high speed of 3 - 10 m/s
- Good coordination and strong compatibility
- The rack and pinion actuator is suitable for long strokes

VL linear motor module series

M.St.(mm):1360
M.L.(kg):10
BW(mm):60
R.A.(um): ± 5



VL6

M.St.(mm):1760
M.L.(kg):20
BW(mm):82
R.A.(um): ± 5



VL8

M.St.(mm):3720
M.L.(kg):25
BW(mm):112
R.A.(um): ± 5



VL11

M.St.(mm):3500
M.L.(kg):30
BW(mm):140
R.A.(um): ± 5



VL14

M.St.(mm):3500
M.L.(kg):60
BW(mm):170
R.A.(um): ± 5



VL17

M.St.(mm):3500
M.L.(kg):80
BW(mm):220
R.A.(um): ± 5



VL22

- High dynamic response and fast acceleration
- It operates smoothly with low noise
- Direct driving technology
- High rigidity and no backlash

VGL series economical built-in linear motor modules

M.St.(mm):750
M.L.(kg):10
BW(mm):80
R.A.(mm): ± 0.05



VGL8

M.St.(mm):3800
M.L.(kg):20
BW(mm):120
R.A.(mm): ± 0.05



VGL12

M.St.(mm):3800
M.L.(kg):30
BW(mm):155
R.A.(mm): ± 0.05



VGL15

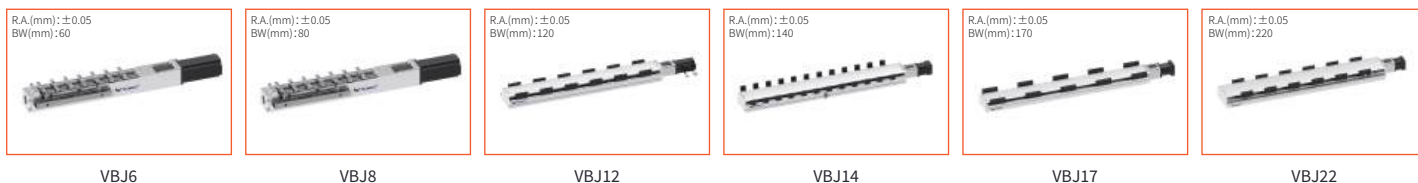
M.St.(mm):3800
M.L.(kg):40
BW(mm):200
R.A.(mm): ± 0.05



VGL20

- Sealed and dustproof
- Dimension compatible
- Easy to maintain, and a long service life
- Highly cost effective

Variable pitch module series



VBJ6

VBJ8

VBJ12

VBJ14

VBJ17

VBJ22

- It is driven by a camshaft, featuring high precision and high speed
- Loading and unloading of lithium batteries
- Loading and unloading for 3C product assembly
- Separation and carriage of photovoltaic silicon wafers
- Semiconductor SMT and tray pick&place

ZR module series



ZR-1640

ZR-2025-V1

ZR-2025-V2

ZR-2540

ZR-2850

- High-precision force control with magnetic springs
- Highly integrated and shared drive allows a small footprint and a low cost
- Short air path is prepared for fast negative-pressure response
- High reliability (the crossed roller guide rail is durable, the magnetic spring maintains a constant force, and the internal circuits are neat)

Stepper motor series



28CSM01(0.1Nm)

42CSM09(0.9Nm)

57CSM13(1.3Nm)

57CSM20(2.0Nm)

60CSM30(3.0Nm)

W-SC2505P

- Low-voltage servo motor: 24Vdc to 50Vdc, rated rotation speed of 1200 rpm
- Pulse type: maximum 200K. Direct contro for 5V or 24V

Control box series



W-300C, low-voltage 3-axis control box

W-400C, low-voltage 4-axis control box

- splines and curves; it also has various manual teaching functions and graphic preview Handheld box teach pendant mode. It has graphic elements such as drawing points, straight lines, polylines, three-dimensional arcs (spatial arcs), circles, runways, rectangles, coating, automatic corners rounding, irregular three-dimensional functions
- The handheld box can store hundreds of processing files, and each file can support 8,000 instructions, which can be retrieved when used
- 23 input channels and 10 output channels
- Low-voltage servo motor, 3 Nm torque and 1200rpm rated rational speed

servo drive



CDHD2S

CDHD

CDHDE

BDHDE

PM1

DM1

MINI ELECTRIC CYLINDERS

NEW GENERATION ELECTRIC CYLINDERS IN A SMALLER SIZE

LEF electric gripper series (including motor and drive)

CF(N):45
CS(mm/s):50
R.A.(mm):±0.02



LEF20

Mini gripper / 28 steps
stroke:10 Clamp X: 15-45

CF(N):40
CS(mm/s):50
R.A.(mm):±0.02



LEF25

Mini gripper / 28 steps
stroke:14 Clamp X: 15-45

CF(N):130
CS(mm/s):50
R.A.(mm):±0.02



LEF32

Mini gripper / 42 steps
stroke:22 Clamp X: 52-100

CF(N):210
CS(mm/s):50
R.A.(mm):±0.02



LEF40

Mini gripper / 42 steps
stroke:30 Clamp X: 84-210

■ Simple setting: just input position and thrust to complete the setting

■ With a clamping confirmation function

■ Position, speed, and clamp force can be set

LEH electric gripper series (including motor and drive)

CF(N):28
CS(mm/s):50
R.A.(mm):±0.05



LEH20

Mini gripper / 28 step motor

CF(N):120
CS(mm/s):30
R.A.(mm):±0.05



LEH32

Mini gripper / 42 step step motor

CF(N):180
CS(mm/s):30
R.A.(mm):±0.05



LEH40

Mini gripper/ 42 step motor

- Simple setting : just input position and thrust to complete the setting
- With a clamp-finish confirmation function
- Position, speed, and clamp force can be set

LES electric slide table series stroke 50 \ 100 \ 150mm (including motor and drive)

M.St.(mm):100
M.L.(kg):6
R.A.(mm):±0.04



LES16-BC

M.St.(mm):100
M.L.(kg):6
R.A.(mm):±0.04



LES16-BR

M.St.(mm):100
M.L.(kg):6
R.A.(mm):±0.04



LES16-BL

M.St.(mm):150
M.L.(kg):9
R.A.(mm):±0.04



LES25-BC

M.St.(mm):150
M.L.(kg):9
R.A.(mm):±0.04



LES25-BR

M.St.(mm):150
M.L.(kg):9
R.A.(mm):±0.04



LES25-BL

- Compact structure is equivalent to 50% of that of similar products.
- Use a integrated circular guide rail with high precision.
- Quick response, and no step loss
- Can achieve three control modes: speed, position, thrust.

LNR Electric Index Series (including motor and drive)

R.A.(mm):±0.05
M.T.(Nm):0.32



LNR10

LNR10 Ultra-small rotation type / 20 step motor

R.A.(mm):±0.05
M.T.(Nm):1.2



LNR30

LNR20 Small rotation type / 28 step motor

R.A.(mm):±0.05
M.T.(Nm):10



LNR50

LNR50 Rotary type / 42 step motor

MAF(N):1930
Wt(Kg):0.53



W-DRN60 Hollow Ø28

MAF(N):4800
Wt(Kg):1.2



W-DRN85 Hollow Ø33

MAF(N):8400
Wt(Kg):2.6



W-DRNH130 Hollow Ø62

LDR Hollow Rotation Table(excluding motor)

- Compact in structure, small in size, about 1/ 3 smaller than similar products
- Rotation without vibration; can achieve multi-angle positioning
- High positioning repeatability
- Low energy consumption; after the action is stopped; power consumption can be automatically reduced by 40%

- High thrust, high precision, and long service life
- Motor direct connection structure, small size

Electric gripper

TS (mm):6
CF(N):10
MCFL(Kg):0.2



EPGS-6-10

TS (mm):8
CF(N):10
MCFL(Kg):0.2



EPGS-8-10

TS (mm):8
CF(N):10
MCFL(Kg):0.2



EPGS-8P-10

TS (mm):12
CF(N):15
MCFL(Kg):0.26



EPGS-12P-15

TS (mm):16
CF(N):15
MCFL(Kg):0.26



EPGS-16-15

TS (mm):20
CF(N):150
MCFL(Kg):0.8



EPG2-20-50

TS (mm):50
CF(N):150
MCFL(Kg):3



EPG2-50-150

TS (mm):50
CF(N):150
MCFL(Kg):3



EPGC-50-100

TS (mm):50
CF(N):150
MCFL(Kg):3



EPGC-50-150

TS (mm):100
CF(N):150
MCFL(Kg):2



EPG2-100-50

TS (mm):50
CF(N):150
MCFL(Kg):3



EPGC-50-150

TS (mm):20
CF(N):100
MCFL(Kg):1



ERG-20-100

TS (mm):30
CF(N):35
MCFL(Kg):0.35



ERGD-30-35

DD motor

M.T.(Nm):3



VDDR80-67

M.T.(Nm):9



VDDR112-65

M.T.(Nm):14



VDDR170-50

M.T.(Nm):71



VDDR170-95

M.T.(Nm):125



VDDR170-125

M.T.(Nm):42.2



VDDR224-42

M.T.(Nm):105



VDDR224-62

M.T.(Nm):190



VDDR263-113

M.T.(Nm):300



VDDR263-138

M.T.(Nm):500



VDDR263-188

Planet reducer motor



J2A



J2B

www.w-robot.com

AIMS AGILE
FACTORY AUTOMATION

Jeffrey Neoh 梁志勤
Operation Manager

+6012-321 9194
jeffreynesh@aimsagile.com



WhatsApp

AIMS AGILE FACTORY AUTOMATION SDN BHD
Co. Reg. No.: 202401039298 (1585145-W)
No. 8, Jalan TPM 1, Taman Perindustrian Meranti Jaya
47120 Puchong, Selangor D.E. Malaysia
+603-806 66382 +6011-6171 6382
www.aimsagile.com