

# VACUUM COMPATIBLE MOTION CONTROL

Suitable for Torr  $10^{-6}$  vacuum

## 8MR190V-90-VSS43

### Vacuum Compatible Motorized Rotation Stage



8MR174V-11 motorized rotation stage is compact solution for vacuum compatible motion control. Fabricated using high temperature stability, age hardened aluminum alloy. Precise, low backlash calibrated worm gear guarantees stable and highly repeatable motion in vertical and horizontal orientation. Special ultrasound cleaning and lubricants results low outgassing in extremely clean environments.

#### SPECIFICATIONS

Rotation range	360°
Full step resolution	0.015 arcmin
Repeatability:	
Uni-directional	0.4 arcmin
Bi-directional	1.6 arcmin
Wobble	1 arcmin
Eccentricity	10 μm
Load capacity:	
Horizontal	4 kg
Vertical	1.5 kg

## 8MR190V-2-VSS42

### Vacuum Compatible Motorized Rotation Stage



8MR190V-2-VSS42 motorized rotation stage with 50.4 mm aperture most efficient solution for vacuum compatible motion control application where load capacity and value of stage is combined. Fabricated using high temperature stability age hardened aluminum alloy. Precise, low backlash calibrated worm gear guarantees stable and highly repeatable motion in vertical and horizontal orientation.

#### SPECIFICATIONS

Rotation range	360°
Full step resolution	0.6 arcmin
Repeatability:	
Uni-directional	0.3 arcmin
Bi-directional	0.5 arcmin
Wobble	0.5 arcmin
Eccentricity	10 μm
Load capacity:	
Horizontal	10 kg
Vertical	2 kg

## 8MR190V-90-VSS43

### Vacuum Compatible Motorized Rotation Stage



8MR190V-90-VSS43 is motorized vacuum compatible rotation stage for highly loaded applications motion control application. Fabricated using high temperature stability age hardened aluminum alloy. Precise, low backlash worm gear guarantees stable and highly repeatable motion in vertical and horizontal orientation.

#### SPECIFICATIONS

Rotation range	360°
Full step resolution	0.9 arcmin
Repeatability:	
Bi-directional	1.2 arcmin
Wobble	0.5 arcmin
Eccentricity	10 μm
Load capacity:	
Horizontal	40 kg
Vertical	10 kg

### Custom engineered 3 Axis Motorized Vacuum Goniometer



Since Standa have started as engineering and custom design company, we still are trying to supply best service for our customer and design system for special need in vacuum and clean environment. 3 Axis Motorized goniometer is perfect example of custom design solution based on our standard catalog products and customer needs.

#### SPECIFICATIONS

Rotation range Z/X/Y	360° / 180° / 360°
Full step resolution	0.6 arcmin
Repeatability:	
Uni-directional	0.3 arcmin
Bi-directional	0.5 arcmin
Wobble	0.5 arcmin
Eccentricity	10 μm
Load capacity	<1 kg

S I U T A B L E F O R V A C U U M

[www.standa.LT](http://www.standa.LT)

Manufacturer of Opto-Mechanical equipment for research, industry and education

**Standa Ltd.**  
P.O.Box 377  
LT 03012 Vilnius  
LITHUANIA  
Phone: +370-5-2651474  
Fax: +370-5-2651483  
E-mail: sales@standa.LT



# VACUUM COMPATIBLE MOTION CONTROL

Suitable for Torr  $10^{-6}$  vacuum

## 8MT173V-VSS42

### Vacuum Compatible Motorized Translation Stages



8MT173V is compact motorized translation stage for vacuum compatible motion control. Fabricated using high temperature stability, age hardened aluminum alloy. Precise, low backlash lead screw transmission guarantees stable and highly repeatable motion in vertical and horizontal orientation.

#### SPECIFICATIONS

Travel range	10/20/25/30 mm
Full step resolution	1.25 $\mu\text{m}$
Repeatability:	
Uni-directional	0.5 $\mu\text{m}$
Bi-directional	0.7 $\mu\text{m}$
Load capacity:	
Horizontal	3 kg
Vertical	1 kg

## 8MT167V-VSS42

### Vacuum Compatible Motorized Stage



8MT167V-VSS42 is motorized translation stage for vacuum motion control application where load capacity and value of stage is combined. Fabricated using high temperature stability age hardened aluminum alloy. Precise, low backlash lead screw transmission guarantees stable and highly repeatable motion in vertical and horizontal orientation.

#### SPECIFICATIONS

Travel range	25 mm
Full step resolution	1.25 $\mu\text{m}$
Repeatability:	
Uni-directional	0.5 $\mu\text{m}$
Bi-directional	0.7 $\mu\text{m}$
Load capacity:	
Horizontal	5 kg
Vertical	3.5 kg

## 8MT175V-VSS42

### Vacuum Compatible Motorized Stage



8MT175V-VSS42 is long travel range motorized translation stage for vacuum motion control. Fabricated using high temperature stability age hardened aluminum alloy. Precise, low backlash lead screw transmission guarantees stable and highly repeatable motion in vertical and horizontal orientation.

#### SPECIFICATIONS

Travel range	50/100/150/200 mm
Full step resolution	2.5 $\mu\text{m}$
Repeatability:	
Uni-directional	0.6 $\mu\text{m}$
Bi-directional	0.8 $\mu\text{m}$
Load capacity:	
Horizontal	8 kg
Vertical	3 kg

## 8MTFV-D42.3

### Vacuum Compatible Motorized Scanning Stage



Many solutions from Standa is made based on Standa flexibility and close relationship with customer. Every Standa stage can be equipped with linear or rotary encoders. Additional vacuum cleaning and packing could be processed as well.

#### SPECIFICATIONS

Travel range	40 × 40 mm
Full step resolution	2.5 $\mu\text{m}$
Repeatability:	
Uni-directional	0.5 $\mu\text{m}$
Bi-directional	0.7 $\mu\text{m}$
Load capacity:	
Horizontal	50 kg
Vertical	3.5 kg

S I U T A B L E F O R V A C U U M

[www.standa.LT](http://www.standa.LT)

Manufacturer of Opto-Mechanical equipment for research, industry and education

