

B

Production Line B

Stages

Optical Tables

Stages

Optical Mounts

Components

Motion Systems

Education Systems

Lasers

Optics & Crystals

Other Equipment

Products Categories



New Products



Best Seller

1
Linear Stages

1

0.3" Linear Stages
● B.05 - 08

1

0.5" Linear Stages
● B.09 - 18


1

0.6" Linear Stages
● B.19 - 25

2
Vertical Stages

2


Laboratory Jack
● B.59

2

Precision Vertical Translation Stages
● B.60

2


Adjustable Vertical Translation Stages
● B.61

3
Rotary Stages

3

Precision Rotary Stages
● B.65

3

Precision Rotary Stages
● B.66

3

Precision Rotary Stages
● B.67

4
Tilt Stages

4

1-axis Tilt Stages
● B.72


4

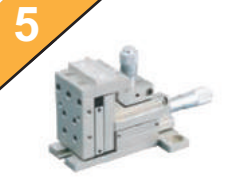
Multi-axis Tilt Stages
● B.73

4

Multi-axis Tilt Stages
● B.74

5
Fiber Stages


5

Tip/Tilt Fiber Stages
● B.78 - 80

5

YZ Positioner
● B.81

5

Goniometer
● B.82

1



1" Linear Stages
B.26 - 39

1



2 2/3" 1/4: Linear Stages
B.40- 52 / 85

1



Stainless Steel Stages
B.53 - 58 / 86

2



Adjustable Vertical Translation Stages
B.62

2



Miniature Precision Vertical Stages
B.63

2



Miniature Precision Vertical Stages
B.64

3



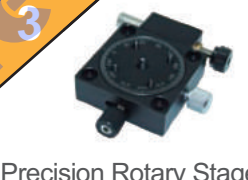
Compact Rotary Stages
B.68

3




Rotary Stage with Threaded Aperture
B.69

3



Precision Rotary Stage & Mini Rotary Stages
B.70

3



Precision Rotary Stages
B.71

4



Multi-axis Tilt Stages
B.75

4



Tilt / Rotation Prism Stages
B.76

4



Multi-axis Tilt Stages
B.77

5



Fiber Stands
B.83

5



Fiber Mounts
B.83

5



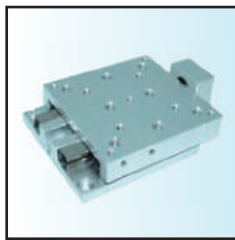
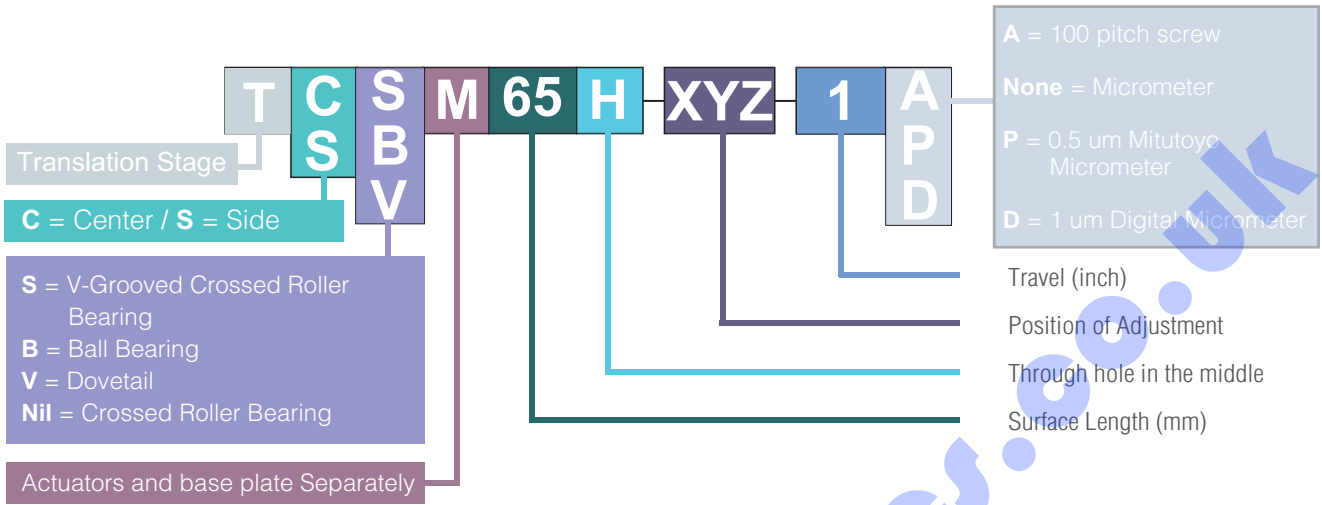
Other Components
B.83

- Optical Tables
- Stages
- Optical Mounts
- Components
- Motion Systems
- Education Systems
- Lasers
- Optics & Crystals
- Other Equipment



Item Numbers Explanation

Stage Designs / Bearing Types



STC

STS

Stainless Steel V-Grooved Crossed Roller Bearings (SC)

Stages feature stainless construction for superior long-term stability, with thermally matched, stainless steel V-Grooved crossed roller bearings for unsurpassed performance.

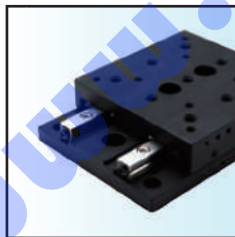


TC

TS

Crossed Roller Bearing (AC)

Preloaded crossed-roller bearings provide repeatable, zero stick-slip linear motion with negligible side-play. The roller strips hold cylindrical bearing in crossed 90° angle to assure constant linear contact with the hardened and ground ways.

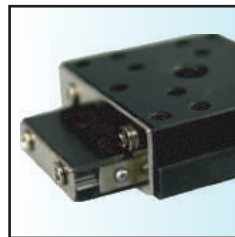


TCS

TSS

Carbon Steel V-Grooved Crossed Roller Bearing (VC)

The series stages have double-row ball bearing making them an excellent choice for carrying high loads. The moving carriage is preloaded by two springs to ensure constant micrometer contact for smooth, backlash-free motion.



TCB

Ball Bearing (BB)

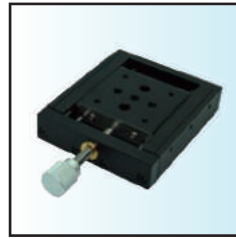
Preloaded precision ball bearing structure reduces friction with higher capability to make small controlled movements. Bearings are captured in hardened steel rod guides.



TCV

Dovetail Design (DV)

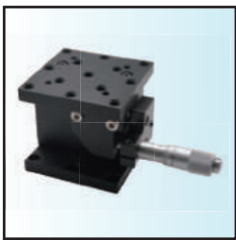
The dovetail design translation stage features central driven with dovetail cutting design which can be used as rails. It is also the simplest design of all linear stages, consists of 2 precision ground surfaces sliding against each other.



TCM

Actuator Separate from Base Plate

Actuator separate from base plate design for medium and heavy load applications.

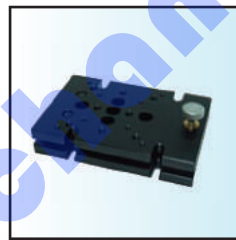


VTS

LJB

Vertical Stage Design

The vertical stages also known as Z-stages feature vertical translation in a direction perpendicular to their mounting surfaces. Featuring crossed roller bearing design which provides smooth vertical motion while supporting mechanics.



IS

TP

TRS

Tilt Stage Design

The tilt stage design allows flexible multiple axis stage configurations.



PRS

RS

RSQ

Rotary Stage Design

The rotary stage provides only one- axis rotation movement. In other words, rotary stages operate by physically restricting 3 axes of translation and 2 axes of rotation.

Metric and Imperial versions available with Various Designs to meet your application needs.

www.opmount.com.tw

Optical Tables

Stages

Optical Mounts

Components

Motion Systems

Education Systems

Lenses

Optics & Crystals

Other Equipment



TCB
25

0.3" Travel Range Linear Stages (25 x 25 mm)

Optical Tables

Stages

Optical Mounts

Components

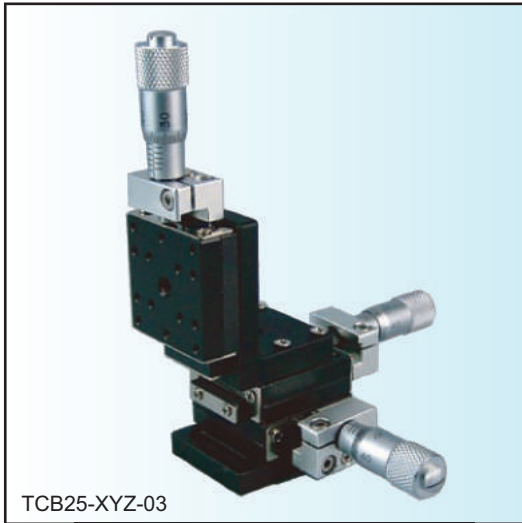
Motion Systems

Education Systems

Lasers

Optics & Crystals

Other Equipment



TCB25-XYZ-03

Overview

- Stage Dimension : 25 x 25 mm
- Travel Range : 0.3" (± 3.5 mm)
- Position of adjustable screw : Center
- Stage material : Aluminum (black anodized)
- Rail: Ball bearing
- Micrometer / Leadscrew at central driven
- Moving Parallelism : ± 0.005 mm
- Repeatability: 0.005 mm
- Load capacity : 2 kg (X / Y) , 0.5 kg (Z)
- 100 pitch / 130 pitch screws or micrometer available
- To order Imperial model please add * I - * to Item
- To order 130 pitch screws please add * F * to item

Specification

2
OPTIONS
for precision adjustment

1

Micrometer



Micrometer with reading scales for precision adjustment

2

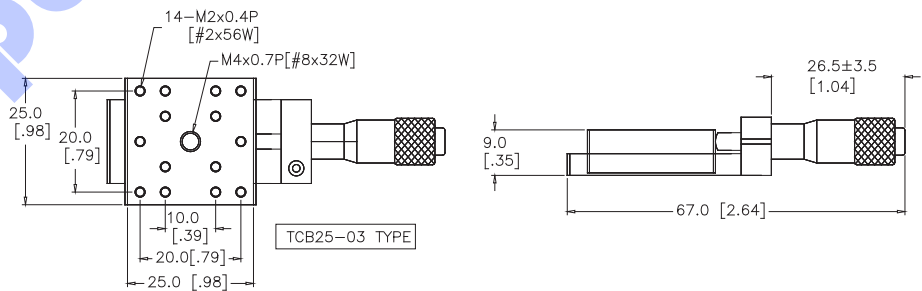
Adjustable Screw



100 pitch or 130 pitch screws for precision adjustment

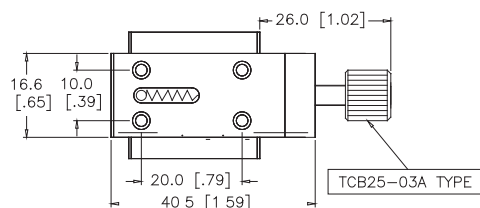
TCB25-03

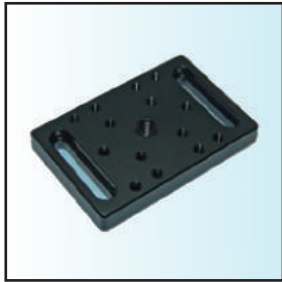
TCB25-03



TCB25-03A

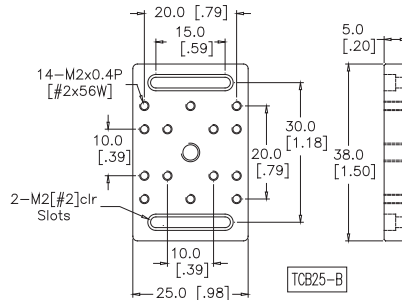
TCB25-03A





TCB25-B

TCB25-B



Related

PRODUCTS

Related products for stages assemblies



D. 43

AB-25

The TCB-series features ball bearing design for greater stability and allows assembly of 2 or 3-axis stages with angle brackets (TCB25-B or AB-25)

Item Numbers

- **BB** = Ball Bearing
- **I** = To order Imperial model please add * I- * to Item number
- **M** = Micrometer / **100** = 100 pitch screw / **130** = 130 pitch screw

Item Number	Drive Type (mm)	Travel Guide	Repeatability (mm)	Moving Parallelism (mm)	Read Resolution (mm)	Travel Range (mm)	Weight / Load (kg)
TCB25-03	M	BB	0.005	± 0.005	0.01	± 3.5	0.06 / 2
TCB25-03A	100	BB	0.005	± 0.005	----	± 3.5	0.06 / 2
TCB25-03F	130	BB	0.005	± 0.005	----	± 3.5	0.06 / 2
TCB25-XY-03	M	BB	0.003	± 0.005	0.01	± 3.5	--- / ---
TCB25-XY-03A	100	BB	0.003	± 0.005	----	± 3.5	--- / ---
TCB25-XY-03F	130	BB	0.003	± 0.005	----	± 3.5	--- / ---
TCB25-XYZ-03	M	BB	0.005	± 0.005	0.01	± 3.5	--- / ---
TCB25-XYZ-03A	100	BB	0.005	± 0.005	----	± 3.5	--- / ---
TCB25-XYZ-03F	130	BB	0.005	± 0.005	----	± 3.5	--- / ---



TCS
32

0.3" Travel Range Linear Stages (32x32mm)

Optical Tables

Stages

Optical Mounts

Components

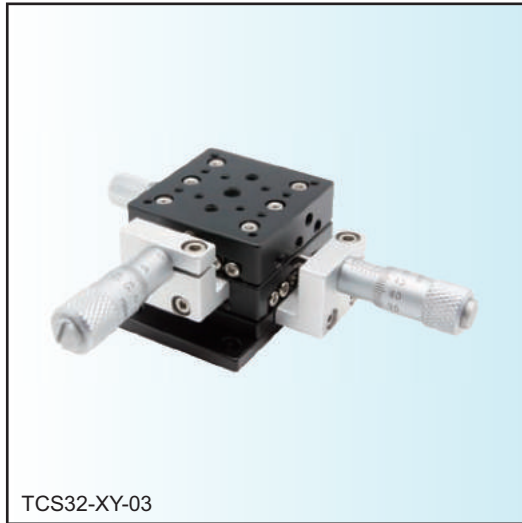
Motion Systems

Education Systems

Lasers

Optics & Crystals

Other Equipment



TCS32-XY-03

Overview

- Stage Dimension : 32 x 32 mm
- Travel Range : 0.3" (± 3.5 mm)
- Stage Material : Aluminum
- Rail : Linear hardened stainless steel V-Grooved cross roller bearing
- Moving Parallelism : ± 0.003 mm
- Repeatability : 0.003 mm
- Load Capacity : 3 kg (X / Y) , 1kg (Z)
- Locking design attached
- Metric Version
- 100 pitch / 130 pitch screws and micrometer available
- To order Imperial model please add * I - * to Item
- To order 130 pitch screws please add * F * to item

Specification

2
OPTIONS
for precision adjustment

1

Micrometer



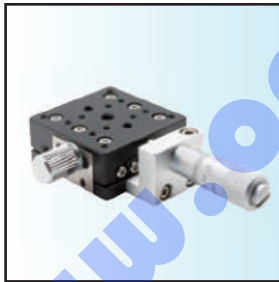
Micrometer with reading scales for precision adjustment

2

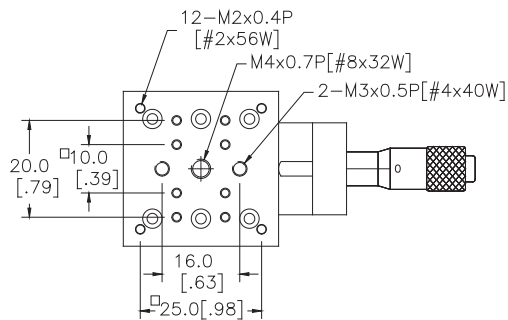
Adjustable Screw



100 pitch or 130 pitch screws for precision adjustment



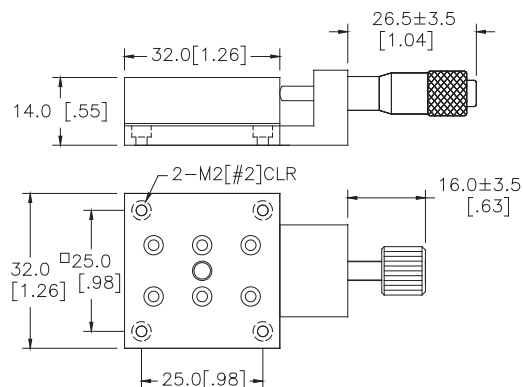
TCS32-03



TCS32-03

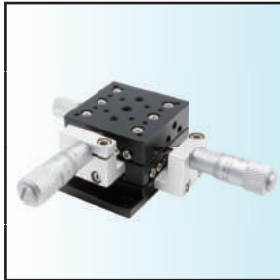


TCS32-03A

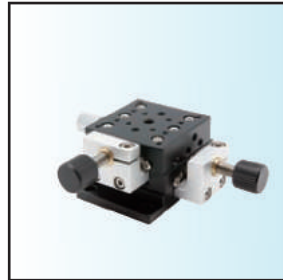


TCS32-03A



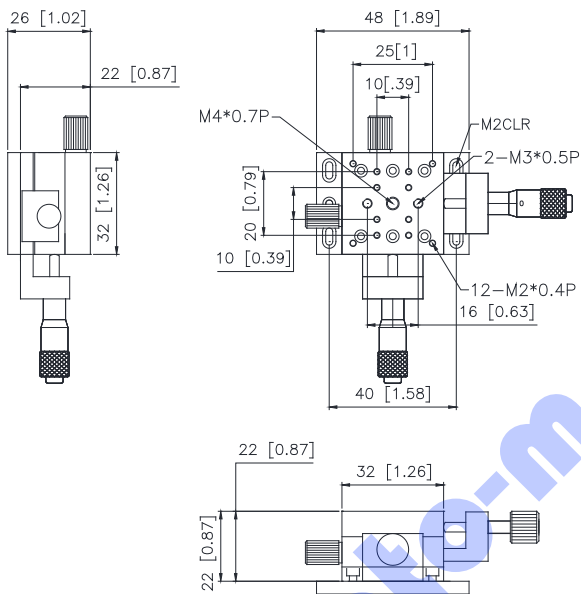


TCS32-XY-03

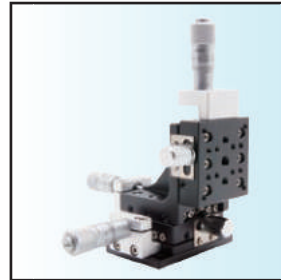


TCS32-XY-03A

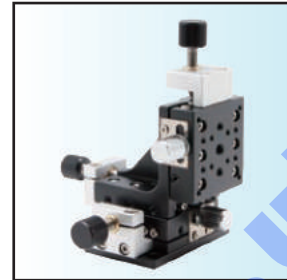
TCS32-XY-03



TCS32-XY-03A

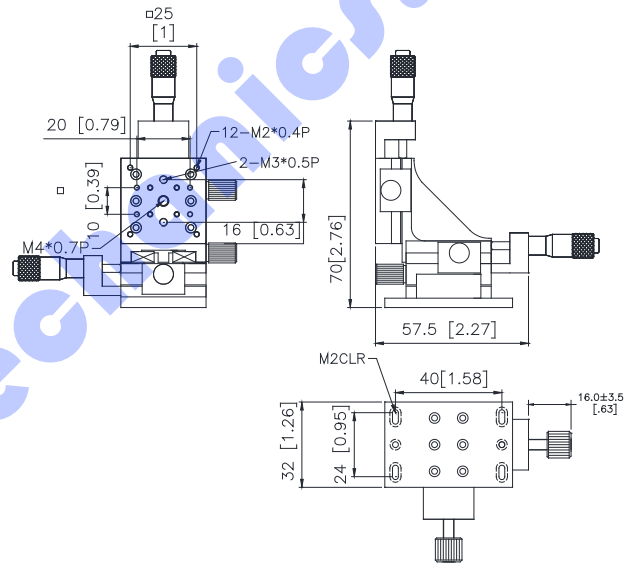


TCS32-XYZ-03



TCS32-XYZ-03A

TCS32-XYZ-03



TCS32-XYZ-03A

Item Numbers

- **SC** = Stainless Steel V-Grooved Crossed Roller Bearings
- **M** = Micrometer / **100** = 100 pitch screw / **130** = 130 pitch screw
- **I** = To order Imperial model please add *I-* to Item number

Item Number	Drive Type (mm)	Travel Guide	Moving Parallelism (mm)	Read Resolution (mm)	Travel Range (mm)	Repeatability (mm)	Weight / Load (kg)
TCS32-03	M	SC	± 0.003	0.01	± 3.5	0.003	0.06 / 5
TCS32-03A	100	SC	± 0.003	----	± 3.5	0.003	0.06 / 5
TCS32-03F	130	SC	± 0.003	0.01	± 3.5	0.003	0.06 / 5
TCS32-XY-03	M	SC	± 0.003	----	± 3.5	0.003	--- / ---
TCS32-XY-03A	100	SC	± 0.003	----	± 3.5	0.003	--- / ---
TCS32-XY-03F	130	SC	± 0.003	0.01	± 3.5	0.003	--- / ---
TCS32-XYZ-03	M	SC	± 0.003	----	± 3.5	0.003	--- / ---
TCS32-XYZ-03A	100	SC	± 0.003	----	± 3.5	0.003	--- / ---
TCS32-XYZ-03F	130	SC	± 0.003	0.01	± 3.5	0.003	--- / ---



CS
018

0.5" Travel Range-XYZ Linear Stages

Optical Tables

Stages

Optical Mounts

Components

Motion Systems

Education Systems

Lasers

Optics & Crystals

Other Equipment



CS018

Overview

- Weight: 0.25 kg
- Travel Range: 0.5"
- Load: 1 kg
- Drive Type: Micrometer
- Material: Aluminum
- Assembly parts: TC38XY+TS34Z-03+AB-34
- Bottom Base: TC38-B
- Metric / Imperial Version
- To order Imperial model please add * I - * to Item

Specification & Item Numbers

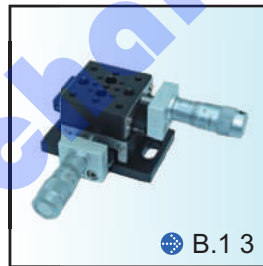
Related PRODUCTS

Related products for stages assemblies



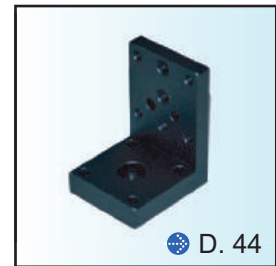
B. 12

TS34-03



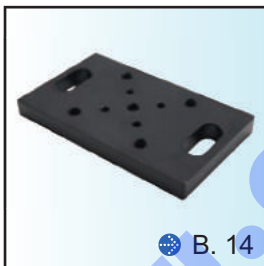
B.1 3

TC38-XY-05



D. 44

AB-25



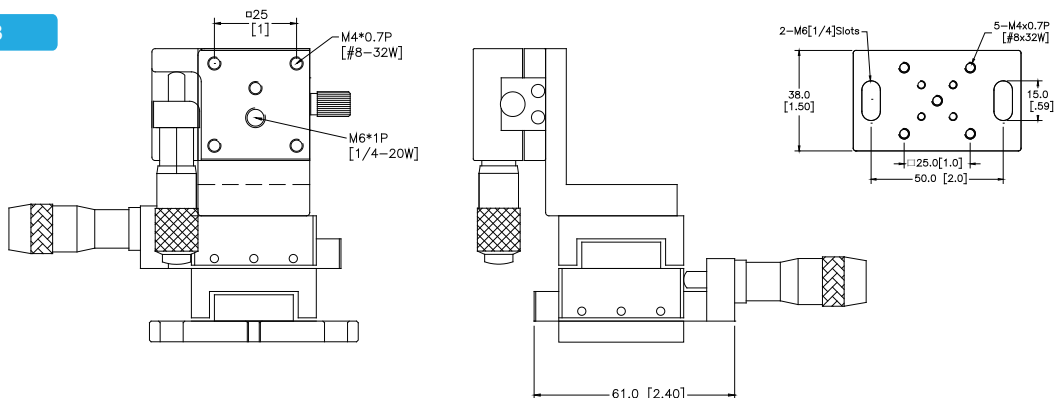
B. 14

TC38-B

The CS18 XYZ Linear Stage is assembled by TC38-XY (2-axis stage), TS34-05 (Z-axis stage) and AB-34 angle bracket. The unique reverse Z-axis micrometer design allowed the stage to achieve higher load capacity and better stability.

Item Number	Driven Type	Reading Figure (mm)	Weight (kg)
CS018	Micrometer	0.01 mm	0.25 kg

CS018



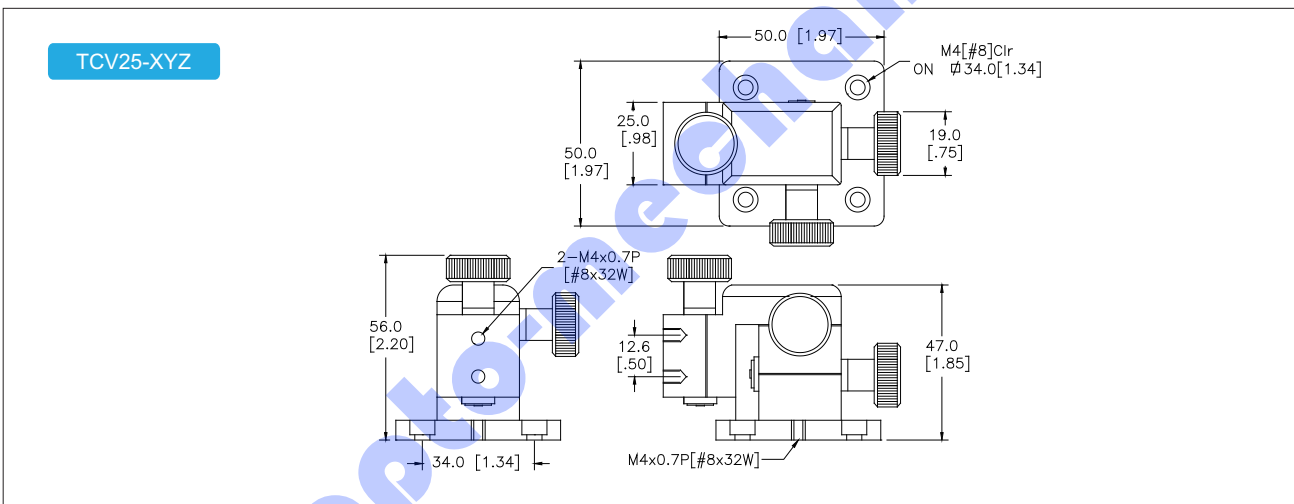
0.5" Travel Range Dovetail XYZ Stages (25 x 25 mm)



Overview

- Stage Dimension : 25 x 25 mm
- Weight: 0.17 kg
- Load capacity: 1 kg
- Travel Range : 0.5" (± 6.5 mm)
- Rail: Linear Dovetail
- Stage Material : Aluminum
- Moving Parallelism: ± 0.01 mm
- Repeatability: 0.01 mm
- Metric / Imperial Version
- 100 pitch screws available
- To order Imperial model please add * I- * to Item

Specification & Item Numbers



Item Number	Drive Type	Travel Guide	Moving Parallelism (mm)	Travel Range (mm)	Repeatability (mm)	Load Capacity (kg)	Weight (kg)
TCV25-XYZ	100	DV	± 0.01	± 6.5	0.01	2	0.17

- **DV** = Dovetail Design
- **100** = 100 pitch screw
- **I** = To order Imperial model please add * I- * to Item number



TCV
32

0.5" Travel Range Dovetail XY Stages (32 x 32 mm)

Optical Tables

Stages

Optical Mounts

Components

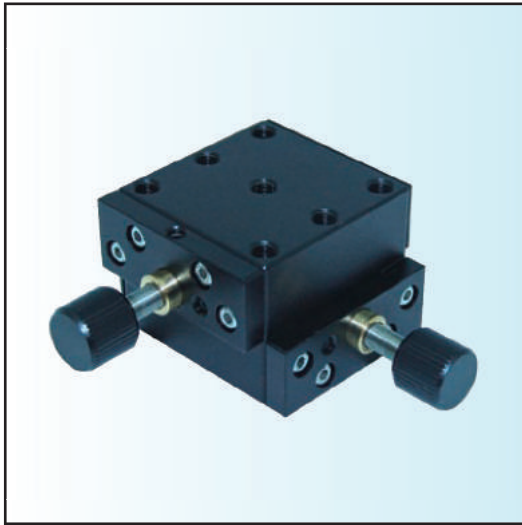
Motion Systems

Education Systems

Lasers

Optics & Crystals

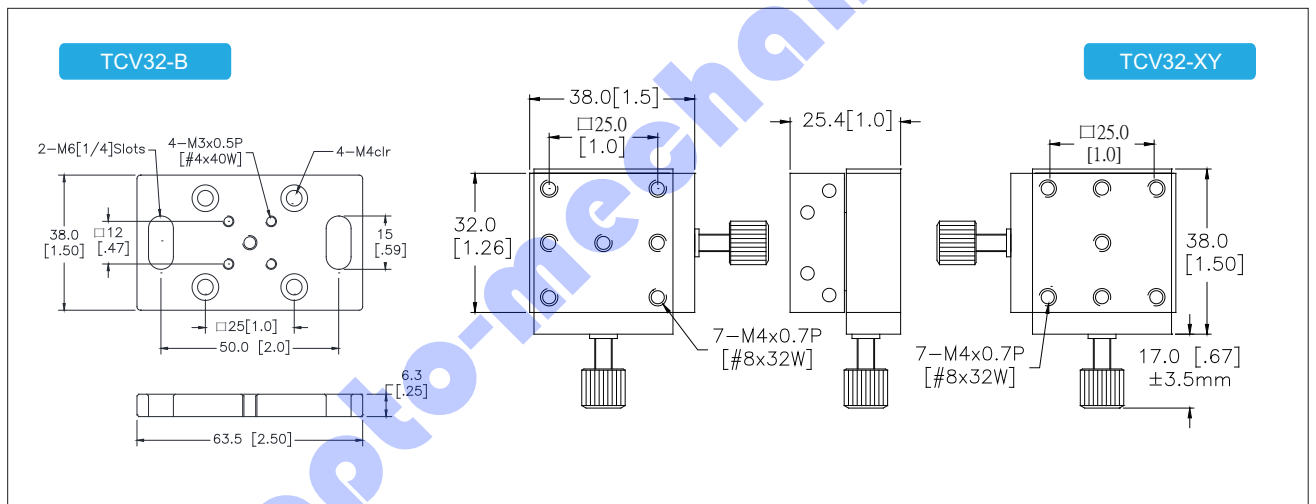
Other Equipment



Overview

- Stage Dimension : 32 x 32 mm
- Weight: 0.09 kg
- Load capacity: 2.0 kg
- Travel Range : 0.6" (± 6.5 mm)
- Rail: Linear Dovetail
- Stage Material : Aluminum
- Moving Parallelism: ± 0.003 mm
- Repeatability: 0.003 mm
- Metric version / Imperial version available
- 100 pitch screws available
- To order Imperial model please add * I- * to Item

Specification & Item Numbers



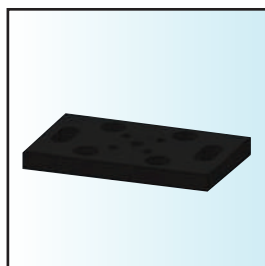
- **VC** = V-Grooved Crossed Roller Bearing / **DV** = Linear Dovetail
- **I** = To order Imperial model please add * I- * to Item number
- **M** = Micrometer / **100** = 100 pitch screw / **130** = 130 pitch screw

Item Number	Drive Type (mm)	Travel Guide	Repeatability (mm)	Moving Parallelism (mm)	Read Resolution (mm)	Travel Range (mm)	Weight / Load (kg)
TCV32-XY	100	DV	0.001	± 0.001	0.01	± 6.5	0.09 / 2

Related

PRODUCTS

Related products for stages assemblies



TCV32-B

Item Numbers

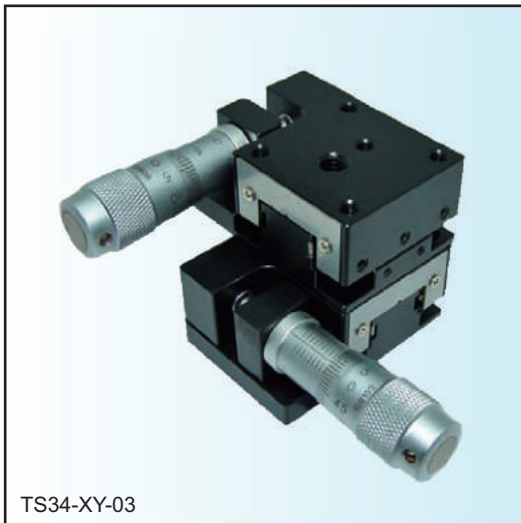
Slot Types

TCV32-B

M4 & M6 slots

The TCV32-XY Dovetail stage is an Integral XY translation stage with miniature dovetail design. The platform dimension is 32 x 32 mm wide and 25 mm high, featuring high precision 100-pitch drive screws for greater control and stability.

0.5" Travel Range Linear Stages (34 x 34 mm)




TS34-XY-03


Overview

- Stage Dimension : 34 x 34 mm
- Weight: 0.09 ~ 0.1 kg
- Load capacity: 2.0 kg
- Travel Range : 0.5" (± 6.5 mm)
- Rail: Aluminum V-grooved crossed roller bearing
- Stage Material : Aluminum
- Moving Parallelism: ± 0.005 mm
- Repeatability: 0.005 mm
- Metric Version / Imperial version available
- 100 pitch / 130 pitch screws and micrometer available
- To order Imperial model please add * I - * to Item
- To order 130 pitch screws please add * F * to item

Specification



TS34-03



TS34-03A

TS34-03 TYPE

TS34-03A TYPE

Item Numbers

- **M** = Micrometer / **100** = 100 pitch screw / **130** = 130 pitch screw / **AC** = Crossed Roller Bearing

Item Number	Drive Type (mm)	Travel Guide	Repeatability (mm)	Moving Parallelism (mm)	Read Resolution (mm)	Travel Range (mm)	Weight / Load (kg)
TS34-03	M	AC	0.005	± 0.005	0.01	± 4.0	0.1 / 2
TS34-03A	100	AC	0.005	± 0.005	----	± 4.0	0.09 / 2
TS34-03F	130	AC	0.005	± 0.005	----	± 4.0	0.09 / 2
TS34-XY-03	M	AC	0.003	± 0.005	----	± 4.0	0.12 / 2
TS34-XY-03A	100	AC	0.003	± 0.005	----	± 4.0	0.1 / 2
TS34-XY-03F	130	AC	0.003	± 0.005	----	± 4.0	0.1 / 2
TS34-XYZ-03	M	AC	0.005	± 0.005	----	± 4.0	0.24 / 2
TS34-XYZ-03A	100	AC	0.005	± 0.005	----	± 4.0	0.2 / 2
TS34-XYZ-03F	130	AC	0.005	± 0.005	----	± 4.0	0.2 / 2

- **I** = To order Imperial model please add * I - * to Item number



TC
38

0.5" Travel Range Linear Stages (38 x 38 mm)

Optical Tables

Stages

Optical Mounts

Components

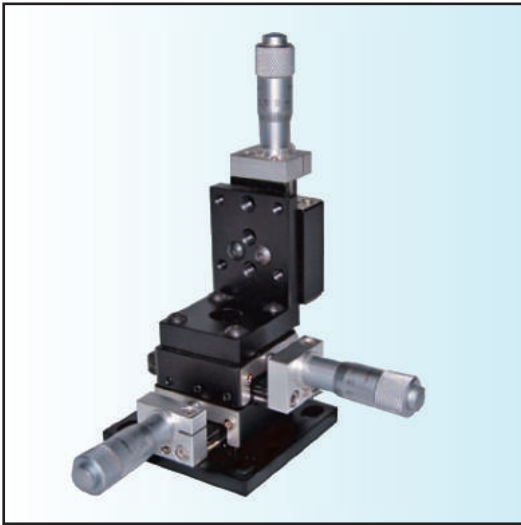
Motion Systems

Education Systems

Lasers

Optics & Crystals



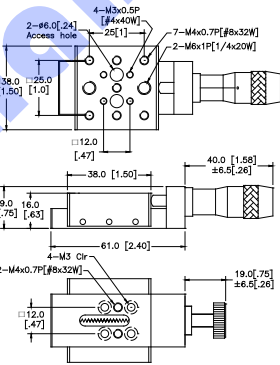
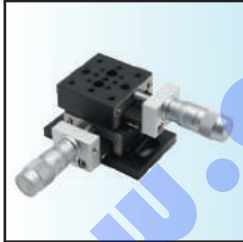

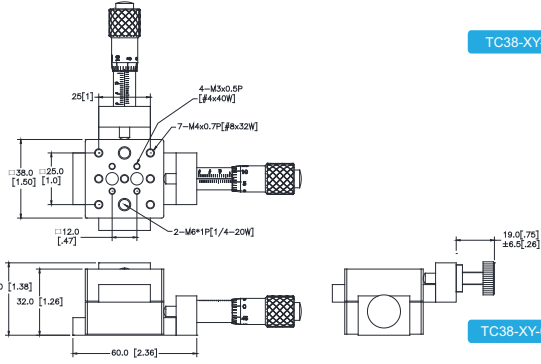


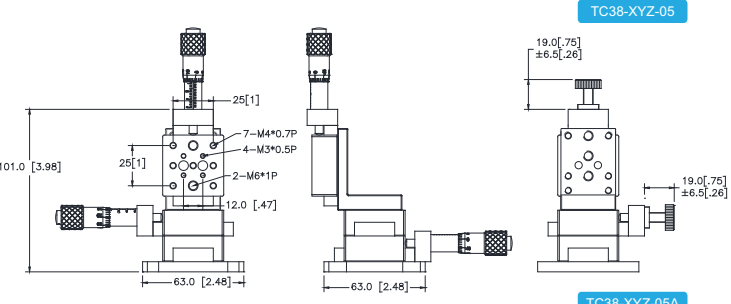
Other Equipment



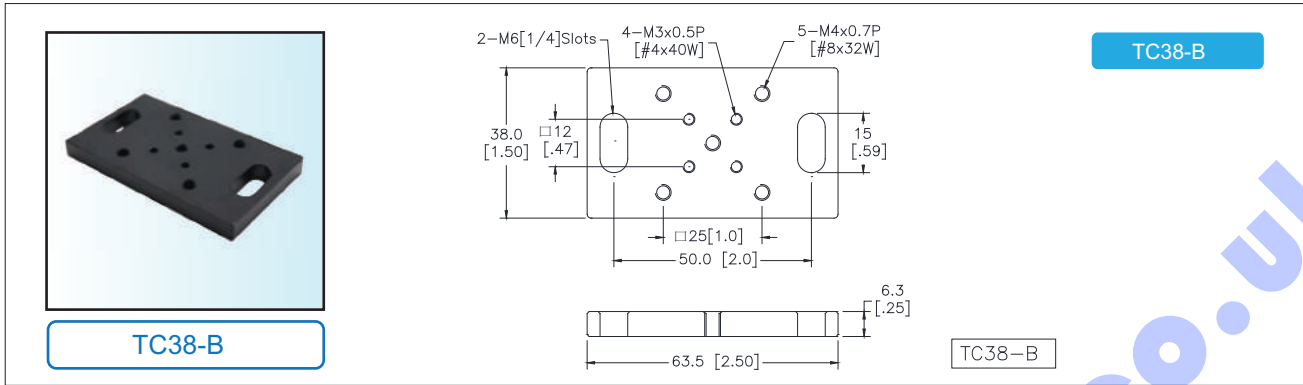
Overview

- Stage Dimension : 38 x 38 mm (1.5 x 1.5")
- Travel Range : 0.5" (± 6.5 mm)
- Stage Material : Aluminum
- Rail : Aluminum V-grooved crossed roller bearing
- Moving Parallelism : ± 0.005 mm
- Repeatability : 0.005 mm
- Load Capacity : 2 kg (X / Y) , 0.5kg (Z)
- Metric / Imperial Version
- 100 pitch / 130 pitch screws available
- To order Imperial model please add * I-* to Item
- To order 130 pitch screws please add * F * to item

Specification

			TC38-05
			TC38-XY-05
			TC38-XYZ-05

► More product information and item numbers for TC38-series in the following page



The TC38 Series Linear stage features Crossed-Roller Bearing for smooth, precision movement. Featuring 38 x 38 mm and 19-mm high mounting platform. Available in 3 types of adjusters (100-pitch /130-pitch drive screws or micrometer). Features Multi-axis translation systems which can be assembled with AB-34 and TC38-B bracket. Imperial or Metric tapped mounting holes are both available.

Specification & Item Numbers

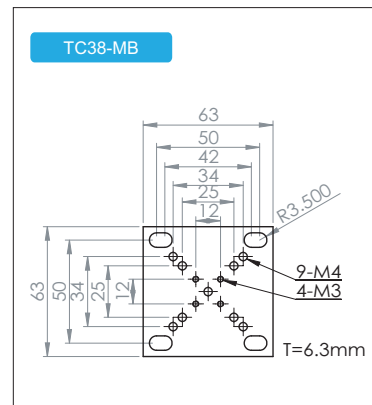
- **M** = Micrometer / **100** = 100 pitch screw / **130** = 130 pitch screw / **AC** = Crossed Roller Bearing

Item Number	Drive Type	Travel Guide	Repeatability (mm)	Moving Parallelism (mm)	Read Resolution (mm)	Travel Range	Weight / Load (kg)
TC38-05	M	AC	0.005	± 0.005	0.01	± 6.5	0.1 / 2
TC38-05A	100	AC	0.005	± 0.005	----	± 6.5	0.09 / 2
TC38-05F	130	AC	0.005	± 0.005	----	± 6.5	0.09 / 2
TC38-XY-05	M	AC	0.005	± 0.005	----	± 6.5	--- / ---
TC38-XY-05A	100	AC	0.005	± 0.005	----	± 6.5	--- / ---
TC38-XY-05F	130	AC	0.005	± 0.005	----	± 6.5	--- / ---
TC38-XYZ-05	M	AC	0.005	± 0.005	----	± 6.5	--- / ---
TC38-XYZ-05A	100	AC	0.005	± 0.005	----	± 6.5	--- / ---
TC38-XYZ-05F	130	AC	0.005	± 0.005	----	± 6.5	--- / ---

Item Numbers	Dimension
TC38-B	Baseplate 38 x 63.5 x 6.3 (mm)
AB-34	90° Angle Bracket 34 x 40 x 50.8 (mm)

- **I** = To order Imperial model please add *I* to Item number

Related PRODUCTS
 Related products for stages assemblies



◀ More product information of TC38-series from the previous page



TCS
42

TSS
42

0.5" Travel Range Linear Stages (42 x 42mm)

Optical Tables

Stages

Optical Mounts

Components

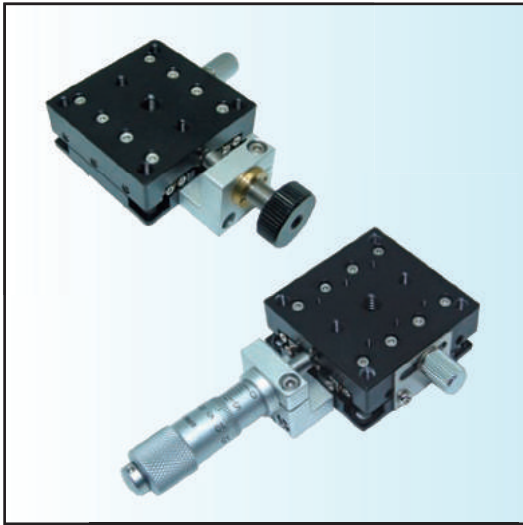
Motion Systems

Education Systems

Lasers

Optics & Crystals

Other Equipment



Overview

- Stage Dimension : 42 x 42 mm
- Travel Range : 0.5" (± 6.5 mm)
- Stage Material : Stainless steel or aluminum
- Rail : Stainless steel V-Grooved crossed roller bearing
- Moving Parallelism : ± 0.003 mm
- Repeatability : 0.003 mm
- Weight: 0.08 ~ 0.09 kg
- Load Capacity : 5 kg (X / Y)
- Metric / Imperial Version
- 100 pitch / 130 pitch screws and micrometer available
- To order Imperial model please add * I - * to Item
- To order 130 pitch screws please add * F * to item

Specification & Item Numbers

Related PRODUCTS

Related products for stages assemblies

Base plate
90° angle bracket



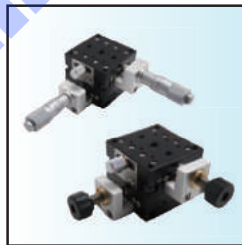
D. 32 D. 44

SB-3 / AB-42



TCS42-05

TCS42-05A



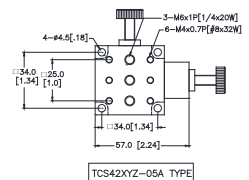
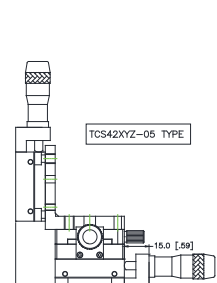
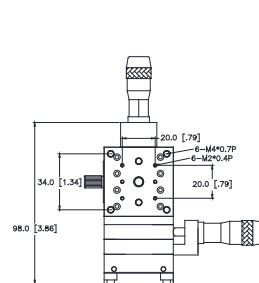
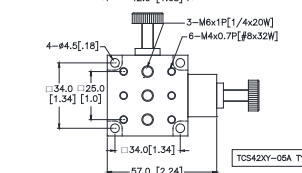
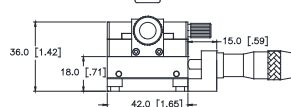
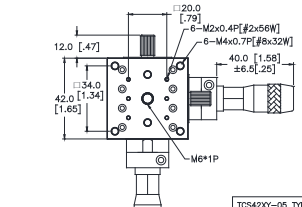
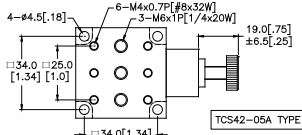
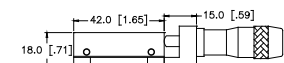
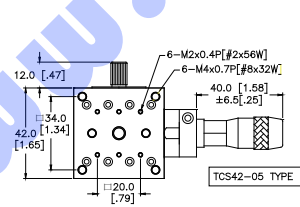
TCS42-XY-05

TCS42-XY-05A

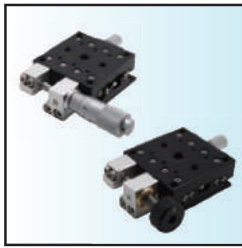


TCS42-XYZ-05

TCS42-XYZ-05A



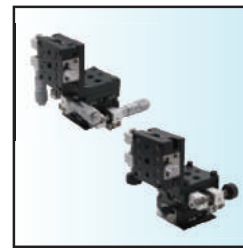
► More product information and item numbers for TSS42-series in the following page



TSS42-05

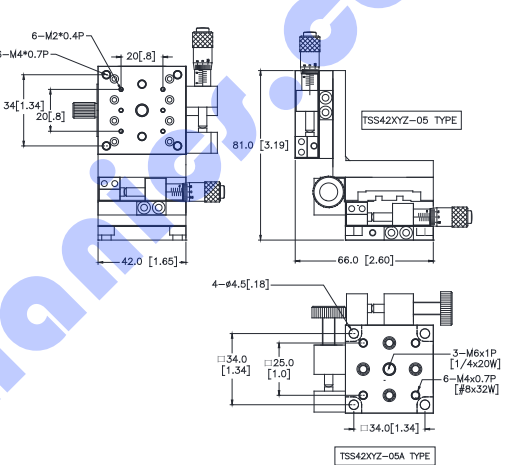
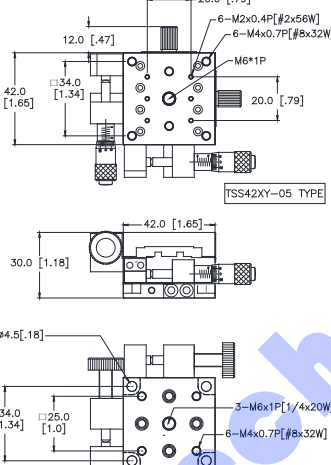
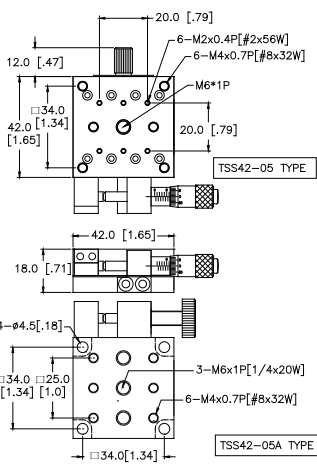


TSS42-05A



TSS42-XYZ-05

TSS42-XYZ-05A



Item Number	Drive Type	Travel Guide	Repeatability (mm)	Moving Parallelism (mm)	Read Resolution (mm)	Travel Range	Weight / Load (kg)
TCS42-05	M	VC	0.003	± 0.003	0.01	± 6.5	0.09 / 5
TCS42-05A	100	VC	0.003	± 0.003	----	± 6.5	0.08 / 5
TCS42-05F	130	VC	0.003	± 0.003	----	± 6.5	0.08 / 5
TCS42-XY-05	M	VC	0.003	± 0.003	0.01	± 6.5	--- / 5
TCS42-XY-05A	100	VC	0.003	± 0.003	----	± 6.5	--- / 5
TCS42-XY-05F	130	VC	0.003	± 0.003	----	± 6.5	--- / 5
TCS42-XYZ-05	M	VC	0.003	± 0.003	0.01	± 6.5	--- / 5
TCS42-XYZ-05A	100	VC	0.003	± 0.003	----	± 6.5	--- / 5
TCS42-XYZ-05F	130	VC	0.003	± 0.003	----	± 6.5	--- / 5
TSS42-05	M	VC	0.003	± 0.003	0.01	± 6.5	0.09 / 5
TSS42-05A	100	VC	0.003	± 0.003	----	± 6.5	0.08 / 5
TSS42-05F	130	VC	0.003	± 0.003	----	± 6.5	0.08 / 5
TSS42-XY-05	M	VC	0.003	± 0.003	0.01	± 6.5	--- / 5
TSS42-XY-05A	100	VC	0.003	± 0.003	----	± 6.5	--- / 5
TSS42-XY-05F	130	VC	0.003	± 0.003	----	± 6.5	--- / 5
TSS42-XYZ-05	M	VC	0.003	± 0.003	0.01	± 6.5	--- / 5
TSS42-XYZ-05A	100	VC	0.003	± 0.003	----	± 6.5	--- / 5
TSS42-XYZ-05F	130	VC	0.003	± 0.003	----	± 6.5	--- / 5

- **M** = Micrometer / **100** = 100 pitch screw / **130** = 130 pitch screw / **VC** = V-Grooved Crossed Roller Bearing
- **I** = To order Imperial model please add * I - * to Item number ◀ More product information of TCS42-series from the previous page



TCB
38

0.5" Travel Range XYZ Linear Stages (38 x 18 mm)

Optical Tables

Stages

Optical Mounts

Components

Motion Systems

Education Systems

Lasers

Optics & Crystals

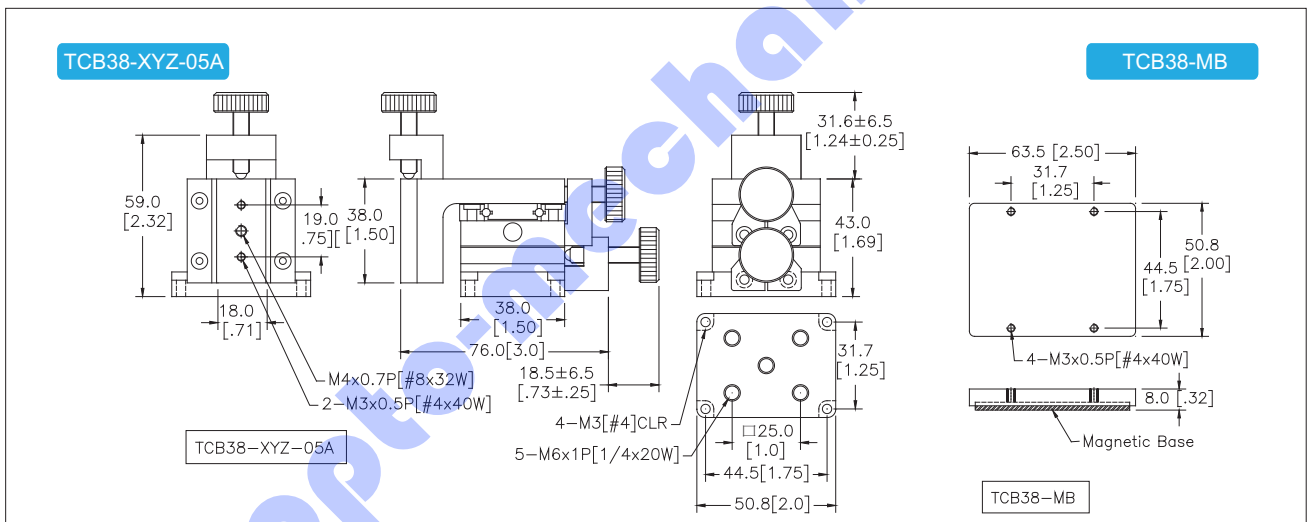
Other Equipment



Overview

- Stage Dimension: 38x18 mm (1.5 x 0.7")
- Travel Range: 0.5" (± 6.5 mm)
- Moving Parallelism: ± 0.005 mm
- Repeatability: 0.005mm
- Weight: 0.51 kg
- Loading: 1.5 kg
- Material: Steel & aluminum structure
- Features Z-axis supported by stage with stable loading
- TCB38-MB Magnetic base plate / Holding force: 2 kg
- Metric / Imperial Version
- 100 pitch screws available
- To order Imperial model please add * I - * to Item

Specification & Item Numbers



- **BB** = Ball Bearing / **M** = Micrometer / **100** = 100 pitch screw / **130** = 130 pitch screw
- **I** = To order Imperial model please add * I - * to Item number

Item Number	Drive Type (mm)	Travel Guide	Repeatability (mm)	Moving Parallelism (mm)	Travel Range (mm)	Screw Position (mm)	Weight / Load (kg)
TCB38-XYZ-05A	100	Ball Bearing	0.005	± 0.005	± 6.5	Center	0.51 / 1.5

Item Numbers	Dimension (mm / inch)
TCB38-MB	63.5 x 50.8 x 7.8 (mm) / 2.5 x 2.0 x 0.3 (inch)

Related

PRODUCTS

Related products for stages assemblies



TCB38-MB

TCB38-MB
Magnetic base plate / Holding force: 2 kg

0.5" Travel Range Linear Stages (60 x 60 mm)




Overview


- Stage Dimension : 60 x 60 mm
- Travel Range : 0.5" (± 6.5 mm)
- Stage Material : Aluminum
- Rail: V-grooved crossed-roller bearing
- Metric / Imperial Versions available
- 100 pitch screws or micrometer available
- To order Imperial model please add * I - * to Item

The TCJ60 and TSJ60 translation stages use V-Grooved crossed-roller bearing as the core structure with a unified integration production which allows the angular deviation to be less than 0.1 degree. Both series are small in size and light in weight, and ideal for non-travelling high precision movement.

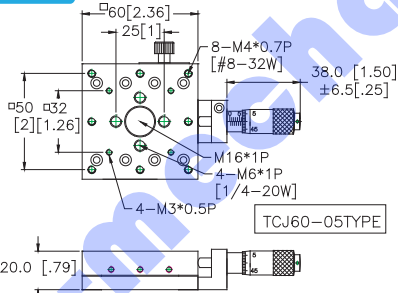
Specification & Item Numbers



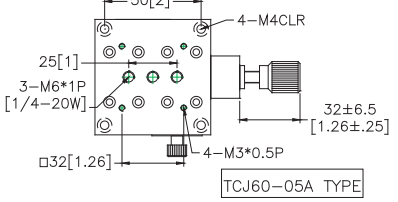
TCJ60-05



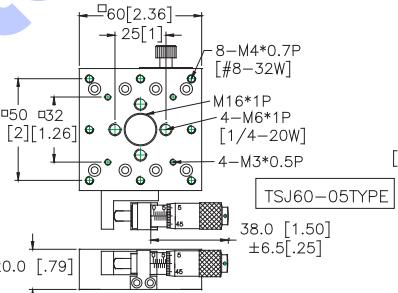
TSJ60-05



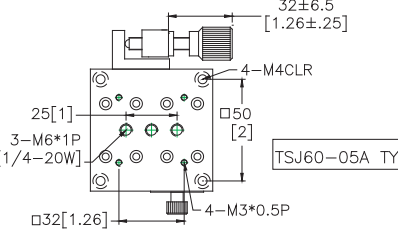
TCJ60-05TYPE



TCJ60-05A TYPE



TSJ60-05TYPE



TSJ60-05A TYPE

Item Number	Drive Type (mm)	Travel Guide	Moving Parallelism (mm)	Read Resolution (mm)	Travel Range (mm)	Repeatability (mm)	Weight / Load (kg)
TCJ60-05	M	VC	± 0.003	0.01	± 6.5	0.003	--- / 2
TCJ60-05A	100	VC	± 0.003	----	± 6.5	0.003	--- / 2
TCJ60-XY-05	M	VC	± 0.003	----	± 6.5	0.003	--- / ---
TCJ60-XY-05A	100	VC	± 0.003	----	± 6.5	0.003	--- / ---
TSJ60-05	M	VC	± 0.003	0.01	± 6.5	0.003	0.28 / 2
TSJ60-05A	100	VC	± 0.003	----	± 6.5	0.003	--- / 2
TSJ60-XY-05	M	VC	± 0.003	----	± 6.5	0.003	0.48 / ---
TSJ60-XY-05A	100	VC	± 0.003	----	± 6.5	0.003	--- / ---



TCM
60

0.6" Travel Range Linear Stages (60 x 40 mm)

Optical Tables

Stages

Optical Mounts

Components

Motion Systems

Education Systems

Lasers

Optics & Crystals

Other Equipment



TCM60-XYZ-05

Overview

- Stage Dimension : 60 x 40 mm
- Travel Range : 0.6" (± 7.5 mm)
- Moving Parallelism : ± 0.005 mm
- Repeatability : 0.005 mm
- Position of adjustable screw : center
- Weight: 0.83 kg
- Load: 5 ~10 kg
- Stage Material : Aluminum
- Micrometer / Lead screw at center
- Metric / Imperial version available
- 100 pitch / 130 pitch screws or micrometer available
- To order Imperial model please add * I-* to Item
- TCM60-XYZ-05 + FPT = CS02 multi-axis positioning stages

Specification & Item Numbers

2
OPTIONS
for precision adjustment

1

Micrometer



Micrometer with reading scales for precision adjustment

2

Adjustable Screw

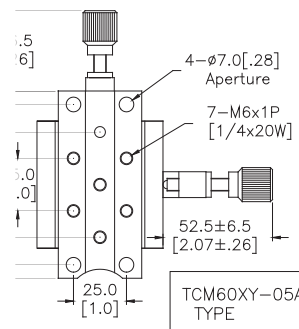


100 pitch or 130 pitch screws for precision adjustment



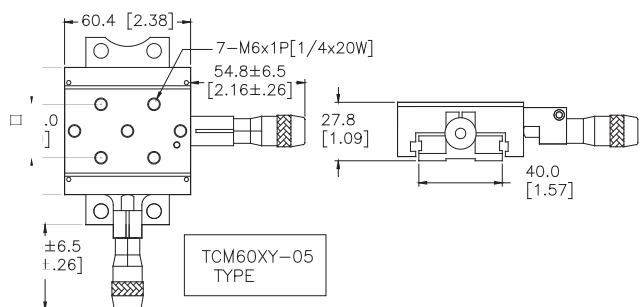
TCM60-XY-05A

TCM60XY-05A




TCM60-XY-05

TCM60XY-05

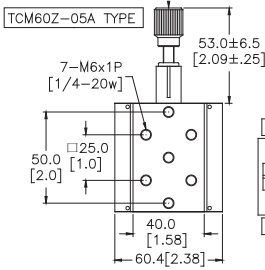




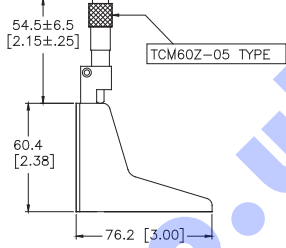



TCM60-Z - series

TCM60Z-05A



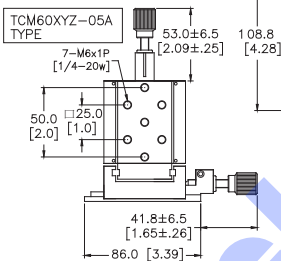
TCM60Z-05



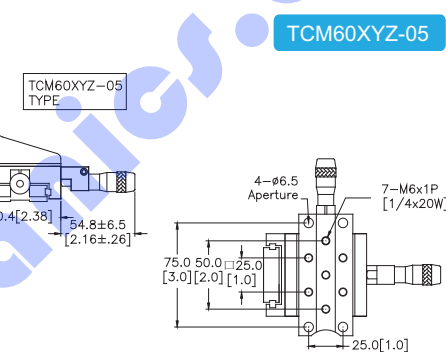



TCM60-XYZ - series

TCM60XYZ-05A



TCM60XYZ-05



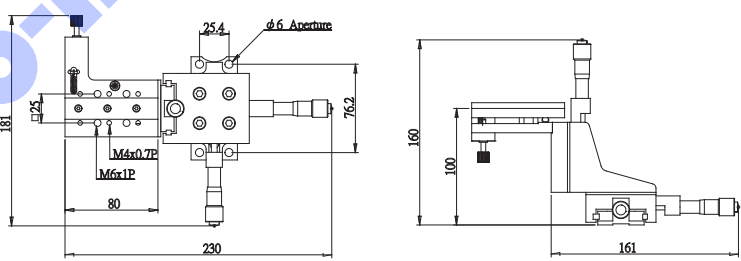


CS2 R / L

CS2 R / L

TCM60-XYZ + FPT = CS2 multi-axis positioning stage

θy : +5 / TX : 12 mm / TY : 12 mm / TZ : 6 mm



- **AC** = Cossed Roller Bearing / **M** = Micrometer / **100** = 100 pitch screw / **130** = 130 pitch screw
- **I** = To order Imperial model please add *I- * to Item number

Item Number	Drive Type (mm)	Travel Guide	Repeatability (mm)	Moving Parallelism (mm)	Read Resolution (mm)	Travel Range (mm)	Weight / Load (kg)
TCM60-XY-05	M	AC	0.005	± 0.005	0.01	± 7.5	0.32 / 10
TCM60-XY-05A	100	AC	0.005	± 0.005	----	± 7.5	0.28 / 10
TCM60-XY-05F	130	AC	0.005	± 0.005	----	± 7.5	0.28 / 10
TCM60-Z-05	M	AC	0.005	± 0.005	0.01	± 7.5	0.35 / 10
TCM60-Z-05A	100	AC	0.005	± 0.005	----	± 7.5	0.34 / 10
TCM60-Z-05F	130	AC	0.005	± 0.005	----	± 7.5	0.34 / 10
TCM60-XYZ-05	M	AC	0.005	± 0.005	0.01	± 7.5	0.85 / 5
TCM60-XYZ-05A	100	AC	0.005	± 0.005	----	± 7.5	0.83 / 5
TCM60-XYZ-05F	130	AC	0.005	± 0.005	----	± 7.5	0.83 / 5
CS2 (R / L)	M	AC	0.005	± 0.005	0.01	± 7.5	---



TC
64

TCS
64

0.6" Travel Range Linear Stages (60 x 40 mm)

Optical Tables

Stages

Optical Mounts

Components

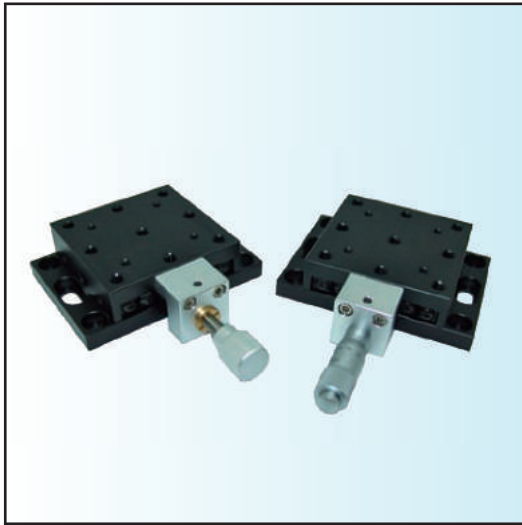
Motion Systems

Education Systems

Lasers

Optics & Crystals

Other Equipment



Overview

- Stage Dimension : 60 x 40 mm
- Travel Range : 0.6" (± 7.5 mm)
- Moving Parallelism: ± 0.005 mm
- Repeatability: 0.005 mm
- Position of adjustable screw: center
- Weight: 0.83 kg
- Load: 10 ~ 20 kg
- Stage Material : Aluminum
- Micrometer / Lead screw at central
- Metric version / Imperial version
- 100 pitch / 130 pitch screws or micrometer available
- To order Imperial model please add * I - * to Item
- To order 130 pitch screw please add * F * to item numbers

Specification

2

OPTIONS
of rail for better precision movement

1

Crossed Roller Bearing (AC)



TC64-series

V-Grooved raceway on the dedicated rail for achieving high precision, stability and larger load capacity.

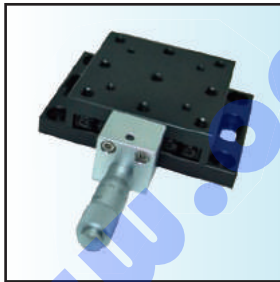
2

V-Grooved Crossed Roller Bearing (VC)

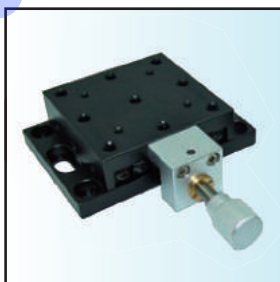


TCS64-series

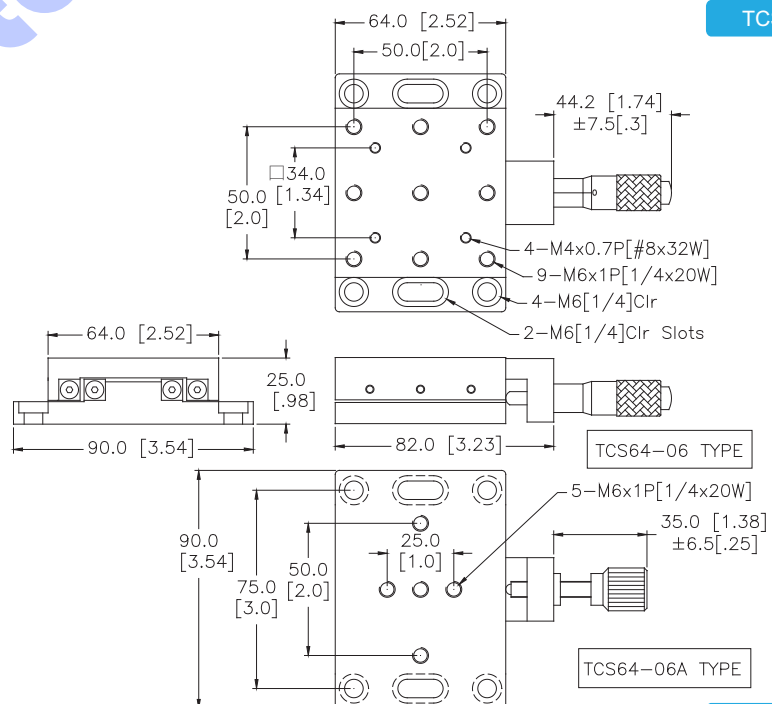
Crossed-roller bearing preloaded provides smooth, stable and negligible backlash adjustment



TC64 / TCS64 - 06



TC64 / TCS64 - 06A



TCS64-06A



Item Numbers

- **VC** = V-Grooved Crossed Roller Bearing / **AC** = Carbon Steel V-Grooved Crossed Roller Bearing
- **M** = Micrometer / **100** = 100 pitch screw / **130** = 130 pitch screw
- **I** = To order Imperial model please add *I- * to Item number

Item Number	Drive Type	Travel Guide	Moving Parallelism (mm)	Read Resolution (mm)	Travel Range (mm)	Repeatability (mm)	Weight / Load (kg)
TC64-06	M	AC	± 0.005	0.01	± 6.5	0.005	0.38 / 10
TC64-06A	100	AC	± 0.005	----	± 6.5	0.005	0.37 / 10
TC64-06F	130	AC	± 0.005	----	± 6.5	0.005	0.37 / 10
TCS64-06	M	VC	± 0.003	0.01	± 6.5	0.003	0.41 / 20
TCS64-06A	100	VC	± 0.003	----	± 6.5	0.003	0.4 / 20
TCS64-06F	130	VC	± 0.003	----	± 6.5	0.003	0.4 / 20

The TC64 and TCS64 series linear stages both feature crossed roller bearing for smooth movement and high load capacity. The difference between the two is that the TC-series uses aluminum V-grooved railway, and the TCS-series uses stainless steel V-grooved railway for even higher precision movement with higher loading.

Metric and imperial versions available with Various Designs to meet your application needs.



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