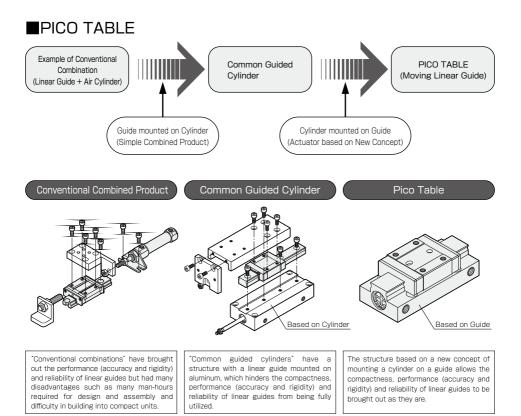
F Series Air Cylinder with Intergrated Precision Linear Bearing

Air-Driven Linear Guides

The F Series is a line of next-generation actuators

Ultimate Space Saver	High Accuracy	High Rigidity
 The F Series actuators are linear guides themselves and take up only about as much space. 	 Running Parallelism 0.003mm(PIC0 TABLE φ16) Mounting Parallelism 0.02mm(PIC0 TABLE φ16) Height Accuracy ±0.02mm(PIC0 TABLE φ16) 	●Basic Static Load Rating Co=13330N (PICO TABLE ¢16-30)

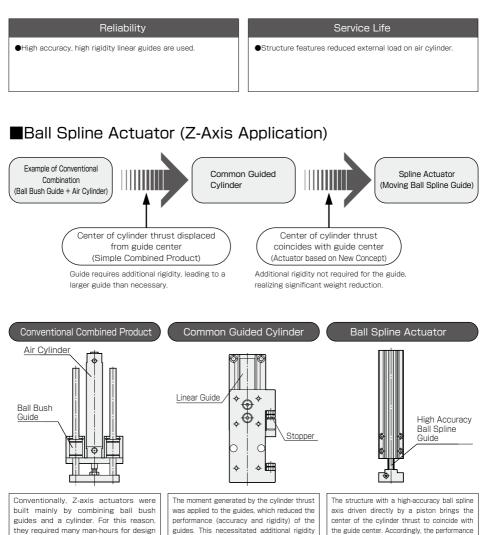


evolved from common guided cylinders.

and assembly and had disadvantages

such as lower accuracy, need for a large

space and heavy weight.



(to withstand the moment generated by the

cylinder thrust) for achieving the required

accuracy, which led to disadvantages such

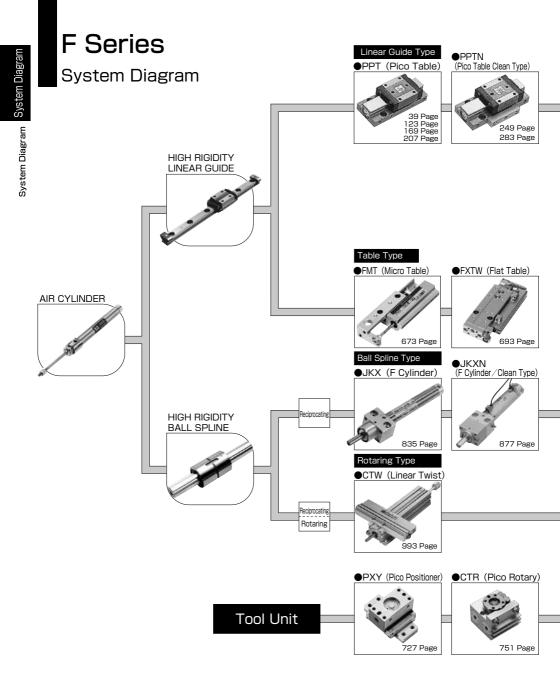
as need for a larger space and heavy weight.

(accuracy and rigidity) and reliability of the ball

spline guide are not affected and a significant

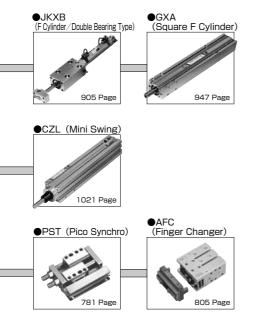
saving of space and weight reduction are

achieved for a Z-axis actuator.



PPU (Pico Unit)
 PRZ (Pico Table Long)
 Image 397 Page 399 Page 399 Page 425 Page

 PSL (Pico Slider)
 PSU (Pico Slider I)
 PRZ (Pico Rodless I)
 PRD (Pico Rodless)
 Image 479 Page 529 Page 583 Page 611 Page



System Diagram System Diagram

F Series

Size List



Linear Block Type (Block Type)







Madal	Bore						S	troke	e(mm	ו)						Page
Model	Size (mm)	5	10	15	20	25	30	45	50	60	100	150	200	250	300	
	\$ 6(PPT6Y)	٠														
		•	•													39
	<i>ф</i>6 (PPT6)	•	•													123
PPT	φ8	•	•		•											169
	<i>ф</i> 10	•	•		•											207 249
	¢12			٠		٠										249
	<i>ф</i> 16				•		•									
PPU	<i>ф</i> 10			٠			٠	•								313
PPU	¢12															369
PRZ	¢12								٠			۲	٠	٠		397
FAZ	<i>ф</i> 16								٠			•		•		425

Т

PSL Series



Linear Guide Type (Flat Type)





LINCU	ourac		<u> </u>	(110		<u>, , , , , , , , , , , , , , , , , , , </u>											
Model Size			Stroke(mm)									Page					
woder	(mm)	25	40	50	60	75	80	100	125	150	175	200	250	300	~1200	~2000	-
DOI	φ8				•		ullet										447
PSL	<i>ф</i> 12				٠		\bullet	\bullet	\bullet	٠							447
	<i>ф</i> 16	•				ullet		\bullet	\bullet			٠					479
PSU	¢25					\bullet		\bullet	\bullet	\bullet		\bullet					529
PRM2	<i>¢</i> 8							\bullet				٠	•				583
PRIVIZ	¢12											۲	•				000
	<i>ф</i> 16							\bullet				٠	•		Note1		
PRD	¢25			\bullet				\bullet		\bullet		٠	•			Note1	611
	¢32			•				\bullet		•		•	•			Note1	

Note 1: Can be manufactured in increments of 50 mm up to the maximum stroke.

FMT	Series
	511
-	//

FXTW Series

<u>Table</u>	Type											
Model	Model Bore Size (mm)		Stroke(mm)									
Nidder		10	20	30	45	60	80	100	Page			
FMT	<i>¢</i> 6	•	•						673			
	<i>ф</i> 10	•	•	•					0/3			
	<i>¢</i> 8			•	•	•						
FXTW	<i>ф</i> 10			•		•			693			
	¢15			•	•	•	•	•	033			
	<i>\$</i> 20			•	•	•	•	•				

Opening/Closing Stroke(mm) 14 10 Note •

PST Series





Page Model 4 6.5 20 22 (mm)Operation Note 2 PST *Φ*6 **Double Acting** 781 *φ*10 AFC ¢16 Double Acting • 805 φ20 06^{Note} CTR 1 Note 3 Rocking Angle: 90°, 180° Double Acting 751 CTRV 2 Note 3

Note 2: For PST, the value is given as the opening/closing stroke as it is used as a chuck, rather than the stroke to be indicated in the model No. Note 3: For CTR, the value is the size indication based on the torque, rather than the bore size.







Ball Spl	line	Тур	е																
Model	Bore	Rod		Stroke(mm)											Page				
IVIOUEI	Size (mm)	Size (mm)	10	20	25	40	50	60	75	80	100	125	150	175	200	550	650	700	
	¢12	<i>¢</i> 6			-	-	-	-	-	-	Note 4								
	<i>ф</i> 16	φ8									Note 4								835
JKX	<i>\$</i> 20	<i>ф</i> 10														Note 4			877
JKXB	<i>\$</i> 25	¢13															Note 4		905
	<i>\$</i> 32	¢13															Note 4		505
	<i>\$</i> 40	¢16																Note 4	
	<i>ф</i> 10	<i>¢</i> 6	ullet	\bullet		ullet		\bullet		ullet	ullet								
	¢15	φ8		\bullet		۲		\bullet		●	●								
GXA	<i>\$</i> 20	<i>ф</i> 10			ullet		ullet		ullet		ullet	ullet	ullet	ullet	ullet				947
	<i>ф</i> 25	¢13			•		٠		٠		٠	٠	٠	٠	\bullet				
	<i>\$</i> 30	¢16			•				•		٠	•	٠	•	•				

Note 4: Can be manufactured in increments of 1 mm up to the maximum stroke.

CTW CTX Series



CZL Series

Swing Type

Tool Unit Tyoe

Bore

Size

Туре

of

OWIND	i ypc								
Model	Bore Size	Rod Size	Swing		9	Stroke (mm)		Page
WOUEI	(mm)	(mm)	Range	25	50	75	100	150	Fage
CTW	<i>\$</i> 25	<i>\$</i> 8	90°	•	•				993
CTX	<i>\$</i> 32	<i>ф</i> 10	180°	•			•		993
	<i>\$</i> 20	<i>¢</i> 8		•	•	•			
CZL	<i>\$</i> 25	<i>ф</i> 10	360°	•		•	•		1021
	<i>\$</i> 32	ø12		•	•	•	•	•	

F Series (High Accuracy Guided Gylinders)

LINEAR GUIDE TYPE

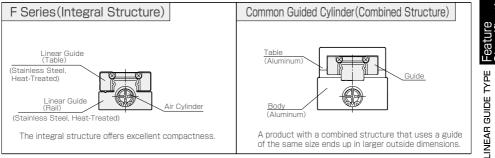
The table type high-accuracy guided cylinders feature an integral structure with an air cylinder built in a linear guide, which allows the high accuracy and high rigidity of the linear guide to be fully brought out.

	Block Type			Flat Type	
PICO TABLE PPT	PICO UNIT PPU	PICO TABLE LONG PRZ	PICO SLIDER PSL	PICO SLIDER I PSU	PICO RODLESS PRD
<i>\$</i> 4,6,8,10,12,16,20	¢10,12	¢12,16	<i>¢</i> 8,12	¢16,25	¢16, ¢25, ¢32
5~40 Stroke	15~60 Stroke	50~300 Stroke	40~150 Stroke	25~200 Stroke	50~2000 Stroke
39 Page	313 Page	397 Page	447 Page	479 Page	611 Page

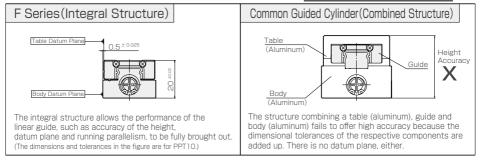
PICO TABLE Features

PICO TABLE (F Series) Common Guided Cylinder Combined Structure Integral Structure The aluminum table, body and guide are simply The integral structure with a cylinder built in a linear guide allows the high rigidity and high combined and the performance of the linear guide allowable load and moment of the linear guide cannot be realized. to be fully brought out. The integral structure features excellent Stability of Accuracy and Resistance to Impact The integral structure does not have any bolt The combined structure may be affected by connection that may affect the performance. This the strength of bolt connections. offers long-term stability of accuracy and significantly improves the reliability of the equipment. The integral structure provides excellent Rigidity The integral structure uses a table and body of The combined structure is susceptible to heat-treated stainless steel, which features small the elastic deformation of the aluminum table elastic deformation. and body.

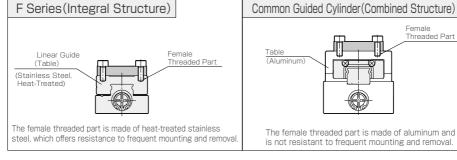
The integral structure offers excellent Compactness



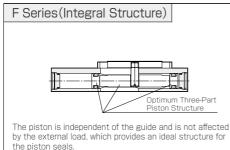
The integral structure offers excellent Mounting Accuracy



The integral structure offers reliable Workpiece Mounting



The integral structure achieves Long Service Life



Common Guided Cylinder(Combined Structure) ъŪ gd LD Piston

Female Threaded Part

The piston is connected to the guide through the rod, which makes it susceptible to the external load.

F Series (High Accuracy Guided Gylinders) BALL SPLINE TYPE

The ball spline type is best suited for high-accuracy Z-axis actuators.

The special spline seal (patented) developed allows the piston to directly drive the ball spline guide.

The center of the ball spline guide is coaxial with the center of the cylinder thrust (piston), which allows the high-accuracy and high-rigidity performance of the ball spline guide to be fully brought out.



Benefits of Ball Spline Type

Lightweight

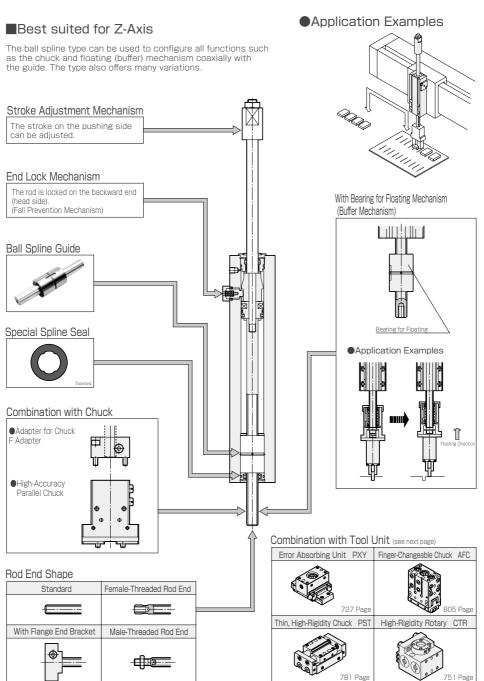
Compact

Reduced Man-Hours High Accuracy

High Rigidity

Classification and Features

Classification	Model/Appearance	Features	Comparison with Conventional Types
	F CYLINDER JKX series 835 Page	 Standard type of ball spline cylinder. Can be manufactured to have a stroke in increments of 1 mm. Air cushion on both sides. Clean type (JKXN) available. 	Example of Conventional Combination of Air Cylinder F Series and Guide GXA
	F CYLINDER / Double Bearing JKXB Series 905 Page	 High-rigidity version of the JKX Series. High accuracy and high rigidity realized by the double bearing structure. Can be manufactured to have a stroke in increments of 1 mm. Air cushion on both sides. 	
Linear Type	SQUARE F CYLINDER GXA Series 947 Page	 Direct mounting version of the JKX Series. Model with a fall prevention mechanism optionally available. 	Ball Bush Guide High Accuracy Ball Spline Guide
	LINEAR TWIST CTW Series 993 Page	 Both linear and rocking motions are air-driven. Rotary actuator of a rack-and-pinion type employed for the rocking part. Features "zero" backlash. 	Conventional Scalar F Series Robot Handing Part CZL
Linear + Rocking Type	MINI SWING CZL Series	 Linear motion is air-driven. Rocking motion can be freely controlled externally by using a device such as a motor. Model with a fall prevention mechanism optionally available. 	To Motor



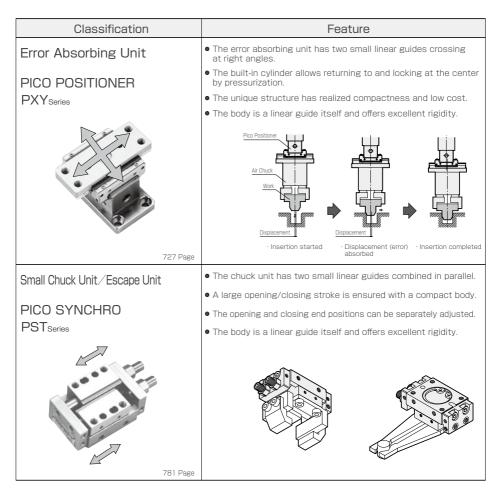
BALL SPLINE TYPE

F Series (High Accuracy Guided Gylinders) TOOL UNIT

The series of products are used for Z-axis actuator ends and robot handling parts.

Our original mechanism has realized unique functions.

 Use of linear guides offers compactness, high accuracy and high rigidity.

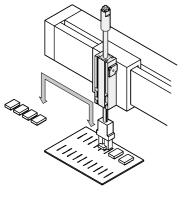


TOOL UNIT

Classification	Feature
Rotary Actuator (Rack-and-Pinion Type)	ullet Two rolling bearings at the top and the bottom offer high rigidity.
PICO ROTARY	• Significant size reduction realized by our original structure.
CTR Series	Conventional Rotary Actuator
Finger-Changeable Chuck Unit	 The unit allows automatic change of only the fingers of a high-rigidity chuck.
FINGER CHAGER	 Best suited for handling various workpieces.
AFC Series	• Our original idea of replacing only the fingers has led to the realization of significantly lower price, compactness and lighter weight as compared with common tool changers.
	• For the fingers, changeover has been considerably simplified thanks to the attaching/detaching repeatability achieved with the positioning pin.
	Comparison with Conventional Products
	Tool Changer Plping Port (Master Side) Tool Changer (Tool Side) Air Chuck
	Connecting/Separating Operation
805 Page	Fingers open/close Fingers separated Changed with another pair of fingers Fingers connected

F SERIES APPLICATION EXAMPLES

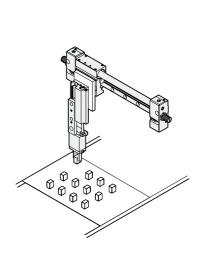
	Pick and Place
Model	SQUARE F CYLINDER GXA Series (947 Page)
Function	High-accuracy Reciprocation
Feature	Cylinder with built-in Bearing Stroke Adjustment Mechanism End Lock Mechanism Availability of Model with Floating Nut



Workpiece Transfer

	Pick and Place
Model	MINI SWING CZL Series (1021 Page)
Function	High-accuracy Reciprocation, High-Accuracy Rocking (external driving force)
Feature	Stroke Adjustment Mechanism End Lock Mechanism Arbitrary Control of Rocking Angle (external driving force) Compact · Lightweight
100 100 100 100 100 100 100 100 100 100	
Workp	piece Revolution/Transfer
Place	
	A Reserved

	Pick and	D
Model	PICO RODLESS I PRM2 Series (583 Page)	
Function	High Rigidity · High-accuracy Reciprocation	
Feature	Ultrathin Unit Shock Absorber provided as Standard Equipment	
		1
Model	MICRO TABLE FMT Series (673 Page)	
Function	High-accuracy Reciprocation	
Feature	Ultrathin Unit Compact · Lightweight Availability of Symmetric Model	
		•



Workpiece Transfer

Application Examples

Application Examples

	Pick and	Place		
Model	PICO RODLESS PRD Series (611 Page)			
Function	High Rigidity · High-accuracy Reciprocation	\sim		
Feature	Ultrathin Unit (original Connection Structure employed) Availability of Models of Two-Axis Type and with Driven Table Shock Absorber provided as Standard Equipment			
Model	F CYLINDER JKX Series (835 Page)			
Function	High-accuracy Reciprocation			
Feature	Cylinder with built-in Bearing Long Strokes supported Stroke Adjustment Mechanism Availability of Clean Room-compatible Model			
	Workpiece Transfer			

workpiece i ranster

	Pick and Place		
Model	PICO SLIDER I PSU Series (479 Page)		
Function	High Rigidity · High-accuracy Reciprocation		
Feature	Thin Unit Wide Guide Variations Shock Absorber provided as Standard Equipment		
Model	PICO UNIT PPU Series (309 Page)		
Function	High Rigidity · High-accuracy Reciprocation		
Feature	Cylinder built in Linear Guide Availability of Model with End Lock Adjustment Mechanism Availability of Model with Stroke Adjustment Mechanism Availability of Model with Shock Absorber		
Workpiece Transfer			

Application Examples Application Examples

	Uneven Pic
Model	FLAT TABLE FXTW Series (693 Page)
Function	High-accuracy Reciprocation
Feature	Ultrathin Unit Availability of Symmetric Model Stroke Adjustment Mechanism provided as Standard Equipment Positioning Pin Holes provided in Top and Bottom Sides
Model	PICO TABLE PPT Series (39 Page)
Function	High Rigidity · High-accuracy Reciprocation
Feature	Cylinder built in Linear Guide Availability of Model with Stroke Adjustment Mechanism Availability of Model with Floating Mechanism Availability of Model with End Lock Adjustment Mechanism
Z-A	xis Intermediate Stop and V

	Pick and Place ir
Model	FLAT TABLE FXTW Series (693 Page)
Function	High-accuracy Reciprocation
Feature	Ultrathin Unit Availability of Symmetric Model Stroke Adjustment Mechanism provided as Standard Equipment Positioning Pin Holes provided in Top and Bottom Sides
Model	SQUARE FCYLINDER GXA Series (947 Page)
Function	High-accuracy Reciprocation
Feature	Cylinder with built-in Bearing Stroke Adjustment Mechanism End Lock Mechanism Availability of Model with Floating Nut
Z-	-Axis Position Movement an

16

Application Examples Application Examples

	Pick an
Model	PICO POSITIONER PXY Series (727 Page)
Function	High-Rigidity · High-Accuracy
Feature	Cross Linear Guide Capability of Center Position Return and Locking Lock off and Center Hold Types Thin, Compact Unit
Model	PICO UNIT PPU Series (309 Page)
Function	High Rigidity · High-accuracy Reciprocation
Feature	Cylinder built in Linear Guide Availability of Model with End Lock Adjustment Mechanism Availability of Model with Stroke Adjustment Mechanism Availability of Model with Shock Absorber
	Insertion a

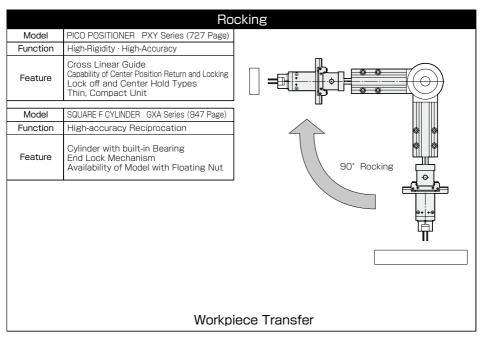
Uneven Pick and Place

	Uneven Ple	ск а
Model	PICO TABLE LONG PRZ Series (397 Page)	
Function	High Rigidity · High-accuracy Reciprocation	
Feature	Space-saving Block Shape Shock Absorber provided as Standard Equipment Availability of Model with End Lock Adjustment Mechanism	
Model	DICO LINIT DDLL Carias (200 Dags)	ı
	PICO UNIT PPU Series (309 Page)	
Function	High Rigidity · High-accuracy Reciprocation	
Feature	Cylinder built in Linear Guide Availability of Model with End Lock Adjustment Mechanism Availability of Model with Stroke Adjustment Mechanism Availability of Model with Shock Absorber	
	Works	
	Workp	nece



	Ma	irking
Model	PICO SLIDER II PSU Series (479 Page)	
Function	High Rigidity · High-accuracy Reciprocation	
Feature	Thin Unit Wide Guide Variations Shock Absorber provided as Standard Equipment	
Model	PICO UNIT PPU Serie (309 Page)	
Function	High Rigidity · High-accuracy Reciprocation	
Feature	Cylinder built in Linear Guide Availability of Model with End Lock Adjustment Mechanism Availability of Model with Stroke Adjustment Mechanism Availability of Model with Shock Absorber	
	Stamp	er Transfer

Stamper transier



	Part Transfer	Application			
Model	PICO ROTARY CTR Series (751 Page)	Model MINI SWING CZL Series (1021 Page)			
Function	High-Accuracy Rocking	Function	High-accuracy Reciprocation, High-Accuracy Rocking (external driving force)		
Feature	High Rigidity by Two Rolling Bearings at Top and Bottom Original Structure realizing significant Size Reduction	Feature	Stroke Adjustment Mechanism End Lock Mechanism Arbitrary Control of Rocking Angle (external driving force) Compact · Lightweight		
(Double Arm Movement Dispenser Nozzle Movement				
Model Function Feature	Gear Assembly b MINI SWING CZL Series (1021 Page) Highaccuracy Reciprocation, High-Accuracy Rocking (external driving force) Stroke Adjustment Mechanism End Lock Mechanism Arbitrary Control of Rocking Angle (external driving force)	y Image P	rocessing		
	Compact · Lightweight				
Gear Gripping, Transfer and Phase Adjustment					

	Model	PICO TABLE PPT Series (39 Page)	Model	MICRO TABLE FMT Series (
2	Function	High Rigidity · High-accuracy Reciprocation	Function	High-accuracy Reciprocat
טאאוויטענוטון באמווואויטי	Feature	Cylinder built in Linear Guide Availability of Model with Stroke Adjustment Mechanism Availability of Model with Floating Mechanism Availability of Clean Room-compatible Model	Feature	Compact · Lightweight · Availability of Symmetric
Application Examples			r / J	
	W	orkpiece Escapement	Wo	orkpiece Escaper
		Escapement	Conduct	ivity and Operation
	Model	PICO SYNCHRO PST Series (781 Page)	Model	MICRO TABLE FMT Series (
	Function	High-Rigidity · High-Accuracy Gripping	Function	High-accuracy Reciprocati
	Feature	Linear Guide employed for Finger Guide Availability of Model with Stroke Adjustment Mechanism Opening/Closing Stroke ensured with Small Unit	Feature	Compact · Lightweight · Availability of Symmetric
	W	orkpiece Escapement	Attachme	nt and Detachment of

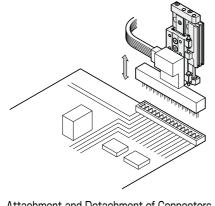
Escapement

	Escapement		
Model	MICRO TABLE FMT Series (673 Page)		
Function	High-accuracy Reciprocation		
Feature	Compact · Lightweight · High-accuracy Availability of Symmetric Model		
Wo	orkpiece Escapement		

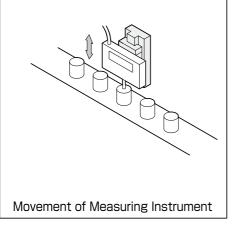
n Inspection (673 Page) ation : · High-accuracy ric Model of Connectors

Eie	ction of Rejected Parts		Marking	
Model MICRO TABLE FMT Series (673 Page)		Model	F CYLINDER JKX Series (835 Page)	
Function	High-accuracy Reciprocation	Function	High-accuracy Reciprocation	
Feature	Compact · Lightweight · High-accuracy Availability of Symmetric Model	Feature	Cylinder with built-in Bearing Long Strokes supported Stroke Adjustment Mechanism Availability of Clean Room-compatible Model	
P	Pusher Plate Movement		Marker Movement	
	Intermitte	nt Feedin		
Model	PICO SLIDER PSL Series (447 Page)			
Function	High Rigidity · High-accuracy Reciprocation			
Feature	Feature Ultrathin Unit (original Connection Structure) Availability of Double Table Model (Long Stroke) Shock Absorber provided as Standard Equipment Plate Piping and Body Piping allowed			
Model	PICO TABLE PPT Series (39 Page)		\bigcirc	
Function	High Rigidity · High-accuracy Reciprocation			
Feature	Feature Cylinder built in Linear Guide Availability of Model with Stroke Adjustment Mechanism Availability of Model with Floating Mechanism Availability of Clean Room-compatible Model			
Square Motion of Feed Plate				

Conductivity and Operation Inspection	
Model	FLAT TABLE FXTW Series (693 Page)
Function	High-accuracy Reciprocation
Feature	Ultrathin Unit Availability of Symmetric Model Stroke Adjustment Mechanism provided as Standard Equipment Positioning Pin Holes provided in Top and Bottom Sides



Workpiece Height Measurement	
Model	PICO TABLE PPT Series (39 Page)
Function	High Rigidity · High-accuracy Reciprocation
Feature	Cylinder built in Linear Guide Availability of Model with Stroke Adjustment Mechanism Availability of Model with End Lock and Floating Mechanism Availability of Clean Room-compatible Model



	Pick and Place
Model	LINEAR TWIST CTW · CTX Series (993 Page)
Function	High-accuracy Reciprocation, High-Accuracy Rocking
Feature	Stroke Adjustment Mechanism Rocking Angle Adjustment Mechanism (with no Backlash)
Workp	iece Revolution/Transfer

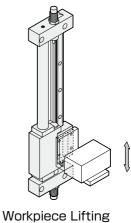
	Changeover
Model	FINGER CHANGER AFC Series (805 Page)
Function	High-Rigidity and High-Accuracy Gripping and Automatic Change of Attachments
Feature	Automatic Change of Fingers alone without Changing Chuck Unit Finger Fall Prevention Mechanism integrated Availability of Model with Finger Attachment/Detachment Sensor
Ch	ange of Attachment

	Insertion
Model	PICO POSITIONER PXY Series (727 Page)
Function	High-Rigidity · High-Accuracy
Feature	Cross Linear Guide Capability of Center Position Return and Locking Thin, Compact Unit
Abcorption	of Error during Workpippo Incortion

Absorption of Error during W	Norkpiece Insertior	۱
------------------------------	---------------------	---

	Assembly
Model	PICO POSITIONER PXY Series (727 Page)
Function	High-Rigidity · High-Accuracy
Feature	Cross Linear Guide Capability of Center Position Return and Locking Thin, Compact Unit
odpability of contain contain and Ecolulity	
Absorp	tion of Error of Work Table

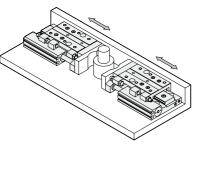
	Lifting
Model	PICO RODLESS PRD Series (611 Page)
Function	High Rigidity · High-accuracy Reciprocation
Feature	Ultrathin Unit (original Connection Structure employed) Availability of Models of Two-Axis Type and with Driven Table Shock Absorber provided as Standard Equipment



Board Positioning Model SQUARE F CYLINDER GXA Series (947 Page) Function High Rigidity · High-accuracy Reciprocation Cylinder with built-in Bearing Stroke Adjustment Mechanism End Lock Mechanism Availability of Model with Floating Nut

Positioning Pin Movement

Positioning	
Model	FLAT TABLE FXTW Series (693 Page)
Function	High-accuracy Reciprocation
Feature	Ultrathin Unit Availability of Symmetric Model Stroke Adjustment Mechanism provided as Standard Equipment Positioning Pin Holes provided in Top and Bottom Sides
	~



Workpiece Clamping

	Board Positioning
Model	PICO TABLE PPT Series (39 Page)
Function	High Rigidity · High-accuracy Reciprocation
Feature	Cylinder built in Linear Guide Availability of Model with Stroke Adjustment Mechanism Availability of Model with Floating Mechanism Availability of Model with End Lock Adjustment Mechanism
Availability of Model with Floating Mechanism	

	Positioning
Model	PICO TABLE PPT Series (39 Page)
Function	High Rigidity · High-accuracy Reciprocation
Feature	Cylinder built in Linear Guide Availability of Model with Stroke Adjustment Mechanism Availability of Model with Floating Mechanism Availability of Model with End Lock Adjustment Mechanism
,	Workpiece Clamping

Board Positioning			
Model	PICO UNIT PPU Series (309 Page)		
Function	High Rigidity · High-accuracy Reciprocation		
Feature	Cylinder built in Linear Guide Availability of Model with Stroke Adjustment Mechanism Availability of Model with Shock Absorber		
Availability of Model with Shock Absorber			
Positioning Pin Movement			

Positioning		
Model	PICO TABLE PPT Series (39 Page)	
Function	High Rigidity · High-accuracy Reciprocation	
Feature	Cylinder built in Linear Guide Availability of Model with Stroke Adjustment Mechanism Availability of Model with Floating Mechanism Availability of Model with End Lock Adjustment Mechanism	
Availability of Model with End Look Adjustment Mechanism		

Clamp Pin	Movement
-----------	----------

	Tape Cutting		
Model	PICO UNIT PPU Series (309 Page)		
Function	High Rigidity · High-accuracy Reciprocation		
Feature	Cylinder built in Linear Guide Availability of Model with Stroke Adjustment Mechanism Availability of Model with Shock Absorber		
Availability of Model with Shock Absorber			
Cutter Movement			

Knife Cutting of Plastic Containers				
Model	PICO UNIT PPU Series (309 Page)			
Function	High Rigidity · High-accuracy Reciprocation			
Feature	Cylinder built in Linear Guide Availability of Model with Stroke Adjustment Mechanism Availability of Model with Shock Absorber			
Knife Movement				

Knife Movement

	Film Cutting	
Model	PICO TABLE LONG PRZ Series (397 Page)	
Function	High Rigidity · High-accuracy Reciprocation	
Feature	Space-saving Block Shape Shock Absorber provided as Standard Equipment Availability of Model with One-Side Concentrated Piping	

Model	MICRO TABLE FMT Series (673 Page)		
Function	High-accuracy Reciprocation		
Feature	Compact · Lightweight High-Accuracy Availability of Symmetric Model		

Film Feeding

Roller Movement

	Press-fitting		
Model	PICO RODLESS PRD Series (611 Page)		
Function	High Rigidity · High-accuracy Reciprocation		
Feature	Ultrathin Unit (original Connection Structure employed) Availability of Models of Two-Axis Type and with Driven Table Shock Absorber provided as Standard Equipment		
Shock Absorber provided as Standard Equipment			
Workpiece Long Stroke Movement and Press-fitting Load Support			

01	aning at Offerst Desition		
Clan	nping at Offset Position		
Model	F CYLINDER Double Bearing Type JKXB Series (905 Page)		
Function	High Rigidity · High-accuracy Reciprocation		
Feature	Cylinder with built-in Bearing Two Bearings provided in Series Long Strokes supported Availability of Model with Stroke Adjustment Mechanism		

Door Opening/Closing			
Model	PICO SLIDER PSL Series (447 Page)		
Function	High Rigidity · High-accuracy Reciprocation		
Feature	Ultrathin Unit (original Connection Structure) Availability of Double Table Model (Long Stroke) Shock Absorber provided as Standard Equipment Plate Piping and Body Piping allowed		
	Door Movement		

	ucking of Small Parts		nucking of Small Parts	
Model	PICO SYNCHRO PST Series (781 Page)	Model	PICO SYNCHRO PST Series (781 Page)	
Function	High-Rigidity · High-Accuracy Gripping	Function	High-Rigidity · High-Accuracy Gripping	
Feature	Linear Guide employed for Finger Guide Availability of Model with Stroke Adjustment Mechanism Opening/Closing Stroke ensured with Small Unit	Feature	Linear Guide employed for Finger Guide Availability of Model with Stroke Adjustment Mechanism Opening/Closing Stroke ensured with Small Unit	
G	Gripping of Small Parts Gripping of Small Parts			
Ch	ucking of Large Parts			
Model	PICO TABLE PPT Series (39 Page)			
Function	High Rigidity · High-accuracy Reciprocation			
Feature	Cylinder built in Linear Guide			
Gripping of Large Parts				