

# List of Z axis drive stages

An unparalleled variety of fittings to correspond to any kind of positioning, coupled with smooth sliding action



## List of Z axis drive stages



Master technique stage  
ZJK-40



Master technique stage  
ZJK-60



Master technique stage  
ZJK-90



Front lock stage  
FR-Z(Z-axis)



Multi-function feed  
screw stage  
ZTSC-70



Multi-function feed  
screw stage  
ZTSC-90



Multi-function feed  
screw stage  
ZTSC-120



Multi-function feed  
screw stage  
ZTSC-150



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## Z axis drive stages specifications

Model	Stage surface (mm)	Travel (mm)	Travel per rotation (mm)	Travel precision ( $\mu\text{m}$ )		Load capacity N (kgf)	Minimum scale reading (mm)	Weight (kg)
				Straightness	Degree of parallelism during operation			
ZJK-40 *1	24.8 x 42	$\pm 12$	18	20	25	14.7 (1.5)	0.1	0.17
ZJK-60 *1	40 x 60	$\pm 21$	18	30	30	19.6 (2.0)	0.1	0.33
ZJK-90 *1	40 x 90	$\pm 35$	18	30	30	19.6 (2.0)	0.1	0.45
FR-Z	25 x 25	$\pm 8$	0.5	20	20	9.8	1.0	0.04
ZTSC-70-2 *2	25 x 40	$\pm 17$	2	30	30	14.7 (1.5)	0.1	0.16
ZTSC-70-5 *2	25 x 40	$\pm 17$	5	30	30	14.7 (1.5)	0.1	0.16
ZTSC-90-2 *2	25 x 40	$\pm 27$	2	30	30	14.7 (1.5)	0.1	0.18
ZTSC-90-5 *2	25 x 40	$\pm 27$	5	30	30	14.7 (1.5)	0.1	0.18
ZTSC-90-10 *2	25 x 40	$\pm 27$	10	30	30	14.7 (1.5)	0.1	0.18
ZTSC-120-2 *2	25 x 40	$\pm 42$	2	30	30	14.7 (1.5)	0.1	0.20
ZTSC-120-5 *2	25 x 40	$\pm 42$	5	30	30	14.7 (1.5)	0.1	0.20
ZTSC-120-10 *2	25 x 40	$\pm 42$	10	30	30	14.7 (1.5)	0.1	0.20
ZTSC-150-5 *2	25 x 40	$\pm 57$	5	40	40	14.7 (1.5)	0.1	0.22
ZTSC-150-10 *2	25 x 40	$\pm 57$	10	40	40	14.7 (1.5)	0.1	0.22

\*1 Accessory screws: Two M4 x 12 hexagonal bolts with washers, structural alloy steel, coated with black, parkerised film.

\*2 Depending on the selected degree of travel per handle turn, the model number will end in -2, -5 or -10.

\* Material: stage body: aluminium alloy, surface treatment: matt black alumite

\* Where special spec. have been selected, the model number will have the suffix RH, HL, RV, or WB.

(E.g., XTSC-90-5RH, ZTSC-150-10HL, etc.)

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**Z axis Slide operation dovetail stage**



**ZMA25**



**ZMA40**



**ZMA60**



**ZMA30-50**



**ZMA40-80**



**ZMA50**



**ZMA90**



**ZMA120**



**ZMA150**



**ZMB25**



**ZMB40**



**ZMB60**



**ZMB30-50**



**ZMB40-80**



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## Slide operation Dovetail stage Z axis specification

Model	Stage surface (mm)	Travel (mm)	Travel precision ( $\mu\text{m}$ )		Load capacity N (kgf)	Minimum reading of scale (mm)	Weight (kg)
			Straightness	Degree of parallelism during operation			
ZMA25	25 × 25	± 6	20	30	9.8(1)	0.1	0.055
ZMA40	40 × 40	± 12	30	30	9.8(1)	0.1	0.100
ZMA60	60 × 60	± 21	30	30	19.6(2)	0.1	0.250
ZMA30-50	30 × 50	± 17	30	30	14.7(1.5)	0.1	0.145
ZMA40-80	40×80	±32	30	30	19.6(2)	0.1	0.306
ZMA50	25×40	±15	30	30	14.7(1.5)	0.1	0.095
ZMA90	25×40	±35	30	30	14.7(1.5)	0.1	0.122
ZMA120	25×40	±50	30	30	14.7(1.5)	0.1	0.142
ZMA150	25×40	±65	40	40	14.7(1.5)	0.1	0.179
ZMB25	25×25	±6	20	30	9.8(1)	0.1	0.056
ZMB40	40×40	±12	30	30	9.8(1)	0.1	0.101
ZMB60	60×60	±21	30	30	19.6(2)	0.1	0.251
ZMB30-50	30×50	±17	30	30	14.7(1.5)	0.1	0.147
ZMB40-80	40×80	±32	30	30	19.6(2)	0.1	0.308

\*Material: Stage's main unit: Aluminum alloy, Surface treatment: Satin black anodized aluminum