

McGuide[®]

Unlimited stroke linear motion guide for ultra precision and high rigidity by needle and polygonal shaft structure.

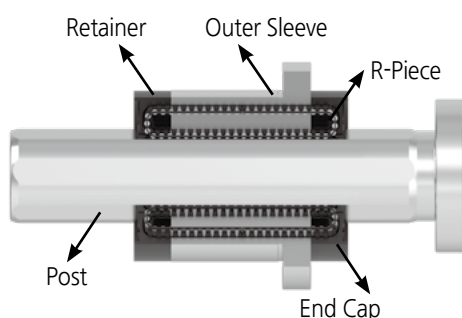


High Load Capacity / Superior Accuracy / Longer Life / Zero torque loss

McGuide® : High-precision rigid polygon type guide for your equipment

High-precision guide with recirculating needle retainer structure provides unlimited stroke, high accuracy, high rigidity, low noise and long service life.

Structure



Part	Special features and function
Retainer	Needle recirculating retainer provides high speed, high load capacity, high accuracy
Outer Sleeve	Mirror surface finished with Guide Master® technology
Post	Ultra-precision machined polygonal shaft
R-Piece	Inside needle retainer circulation guide
End Cap	Outer needle retainer circulation guide

Features

High rigidity

Wide contact area provides higher rigidity than point contact

Zero torque loss

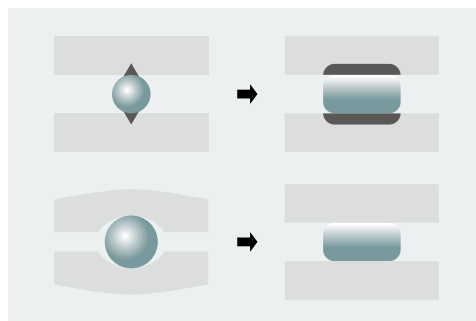
No differential slip of the rolling element maintains high rigidity with low preload, minimizing impact resistance

Longer service life

Higher basic load rating means longer service life

High precision

Needle and polygonal shaft structure maintains accuracy, low preload, repeatability and straightness (zero pitching, yawing, and rolling)

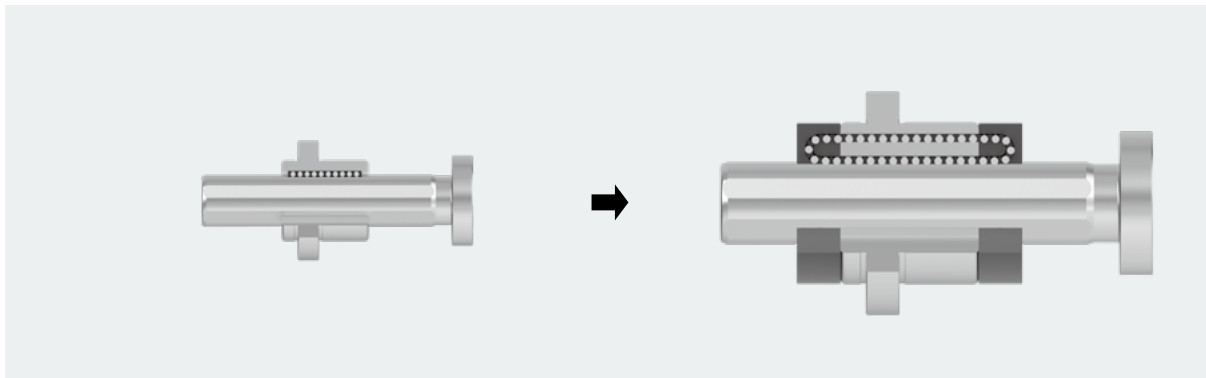


Uses

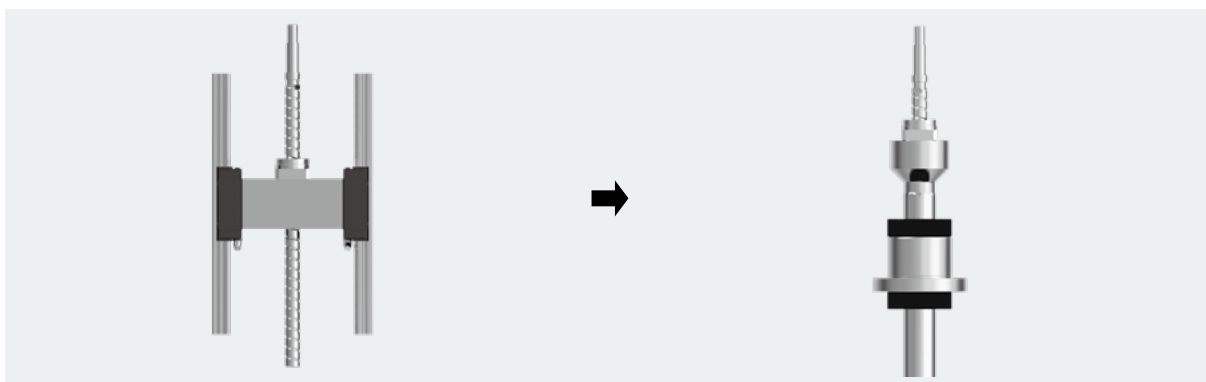
- Ultra-precision transfer guide
- Precision cutter guide
- Z-axis guide for ultra-precision measuring device
- High-rigidity press guide

○ Improvements in existing products

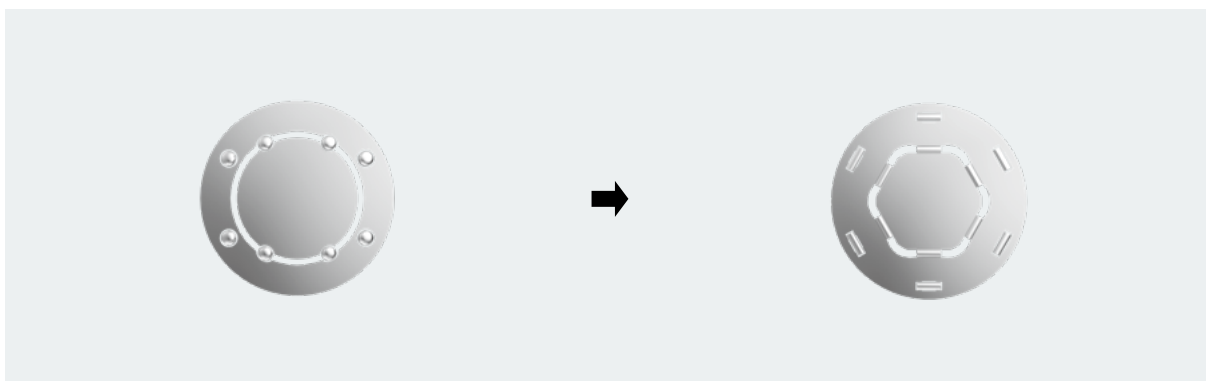
● Unlimited stroke (Needle recirculating retainer structure)



● Higher-performance alignment for compact machine designs



● Low preload, high rigidity, high torque transferring

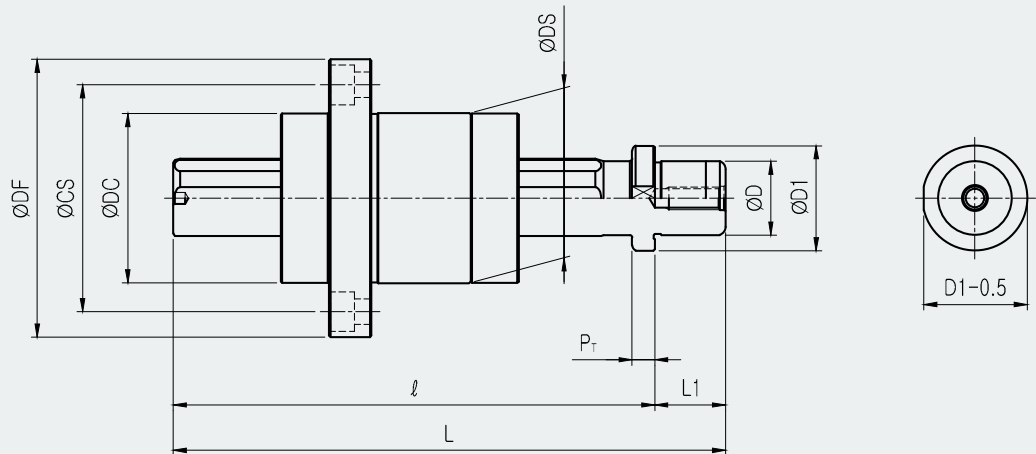


● Reduced production-costs

- Quality control, defect reduction
- Energy efficiency
- Less maintenance
- Reduced downtime, higher productivity

McG DIMENSION McG 00 – 000 – S – 000L

● Diameter



● Model number notation

McG F P - 050 - S - 100L - SP



● Model : SAMICK McGuide®

● Outer Sleeve Type

Standard	BLANK
F	Round
K	Square
H	Oval

● Flange Position

BLANK	End Flange (Standard)
P	Pilot Flange

● Shaft Diameter($\varnothing 28 \sim \varnothing 80$)

● Shaft Type

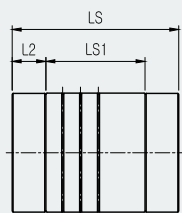
S	Standard
F	Flange

● Post Length

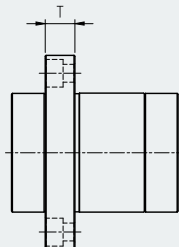
● Customized Type

McG DIMENSION McG 00 – 000 – S – 000L

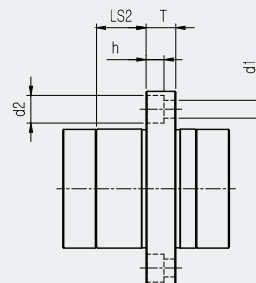
● Position of Flange



Standard Type

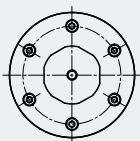


End Flange Type

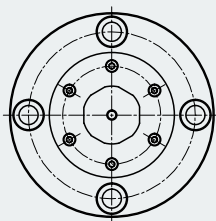


Pilot Flange Type

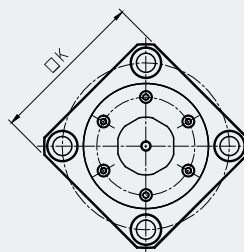
● Shape of Flange



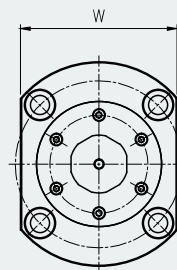
Standard Type



F Type



K Type



H Type

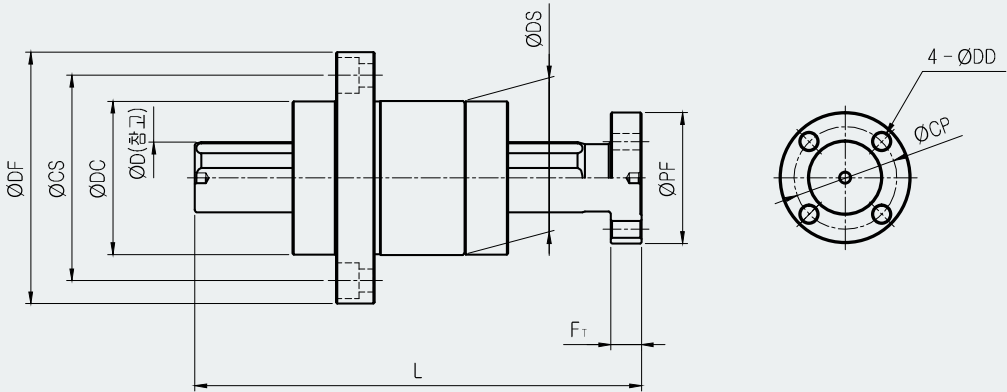
Unit : mm

Model	Shaft Diameter (ØD)	ℓmax	Lmax	L ₁	P _T	ØD ₁	ØDF	ØCS	ØDS	ØDC	LS	C ₀ (kN)	C (kN)	C _{OT} (kN-m)	C (kN-m)
McG-028	28	675	700	25	8	37	98	80	60	59.8	84	43.1	18.0	2.1	0.8
McG-032	32	670	700	30	9	42	102	83	63	62.8	88	47.4	19.4	4.1	1.6
McG-040	40	665	700	35	10	54	120	98	75	74.8	100	84.5	33.0	9.2	3.6
McG-050	50	665	700	35	12	64	136	115	92	91.8	115	101.7	38.6	13.6	5.1
McG-080	80	655	700	45	15	98	184	160	136	135.8	155	195.2	75.0	56.3	21.6

※ 1N ≒ 0.102kgf

McG DIMENSION McG 00 – 000 – F – 000L

● Diameter



● Model number notation

McG F P - 050 - F - 100L - SP



● Model : SAMICK McGuide®

● Outer Sleeve Type

Standard	BLANK
F	Round
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H	Oval

● Flange Position

BLANK	End Flange (Standard)
P	Pilot Flange

● Shaft Diameter($\varnothing 28 \sim \varnothing 80$)

● Shaft Type

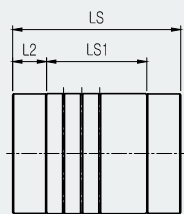
S	Standard
F	Flange

● Post Length(L)

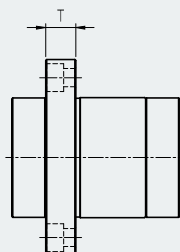
● Customized Type

McG DIMENSION McG 00 – 000 – F – 000L

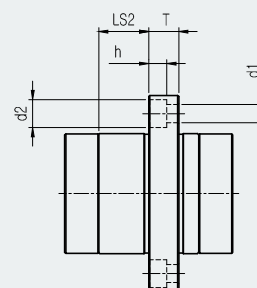
● Position of Flanged type



Standard Type

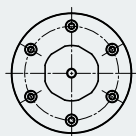


End Flange Type

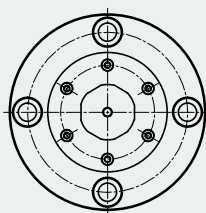


Pilot Flange Type

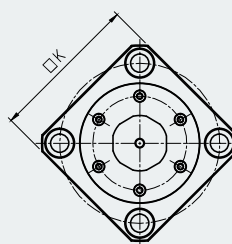
● Shape of Flanged type



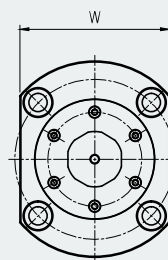
Standard Type



F Type



K Type



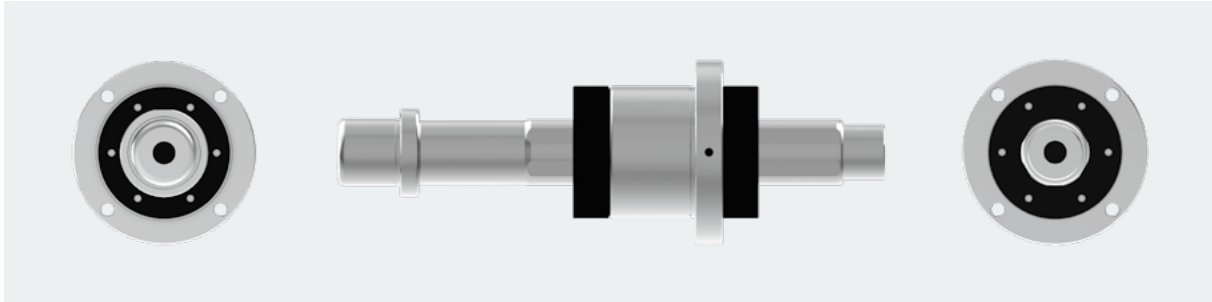
H Type

Model	Shaft Diameter (ØD)	F _T	ØPF	ØCP	ØDD	LS	LS1	L2	T	LS2	K	w	d ₁ ×d ₂ ×h
McG-028	28	12	51	40	6.5	84	50	17	15	20	75	75	9×14×9
McG-032	32	13	56	45	6.5	88	54	17	15	24	78	78	9×14×9
McG-040	40	15	70	56	8.5	100	64	18	18	28	92	92	11×17.5×11
McG-050	50	15	82	68	8.5	115	75	20	18	39	105	105	11×17.5×11
McG-080	80	20	124	105	13	155	105	25	20	65	145	145	14×20×13

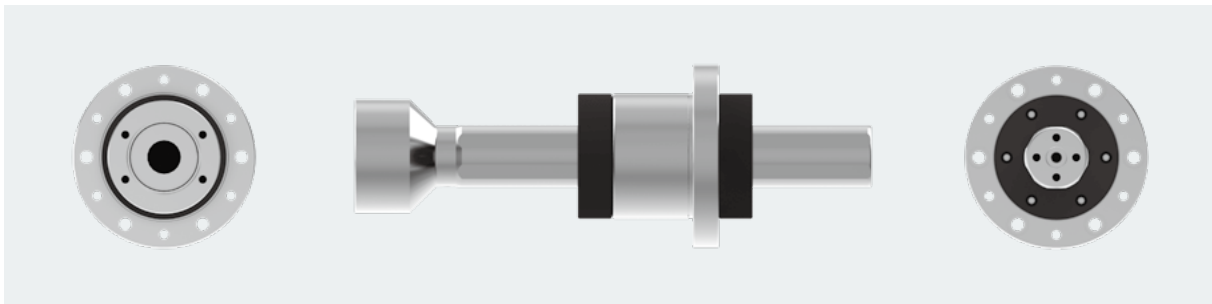
Customized products

McG 00 - 000 - 0 - 000L - SP

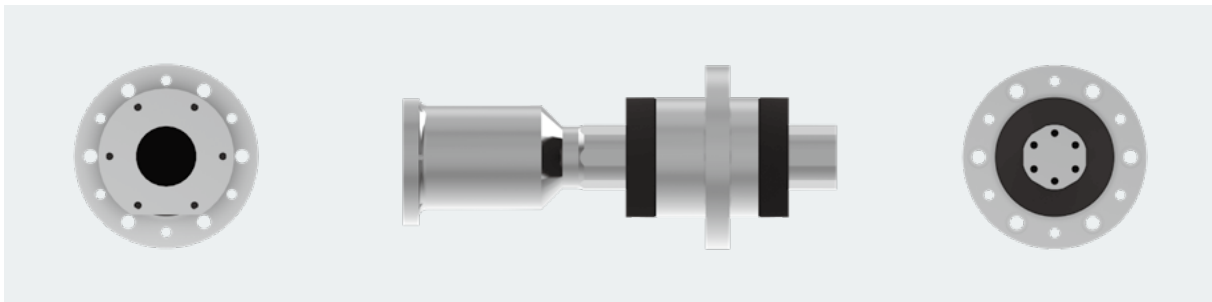
● Example of application #1



● Example of application #2



● Example of application #3



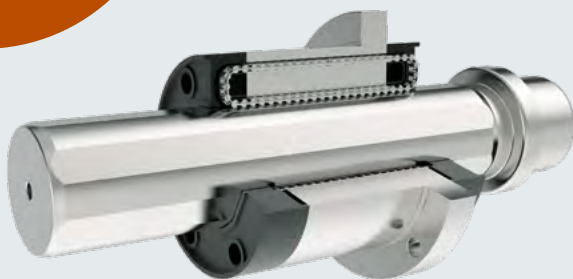
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McGuide®



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