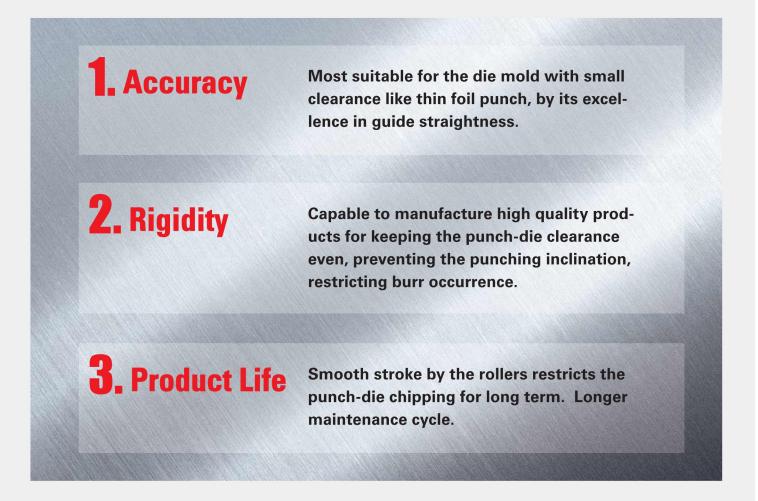
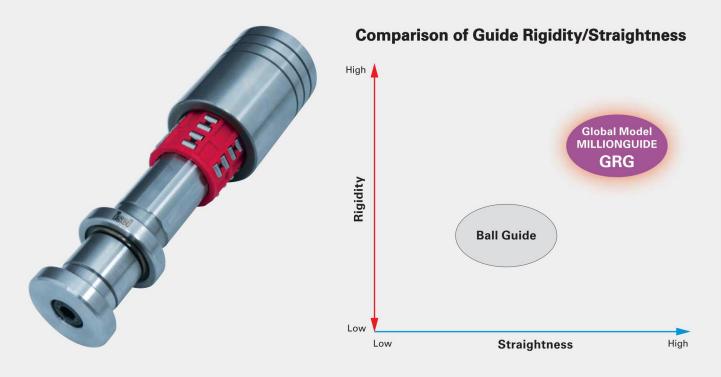
MILLION GUIDE

Advantages of MILLION GUIDE







MILLION GUIDE PAT. PATP **GRG Series**



MILLION GUIDE Family GRG Series Debuttle

New MILLION GUIDE to pursue the high cost-performance, supporting Japanese ultra-high precision die mold technology. For the die mold with small clearance that cannot be achieved by the ball guide!!

Features of MILLION GUIDE







High rigidity by line contact

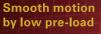


Million guide case





Higher pre-load for keeping the rigidity on the ball guide brings impact/vibration at the entry, leading to shorter product life.

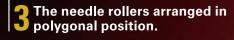




Million guide case

Lower pre-load f rigidity bri impact and smooth motion at the entry, leading to longer product life.

High accuracy by adding a few µm pre-load on the roller for the tight fitting.







Ball guide case





MILLION GUIDE PAT. GN Series

MILLION GUIDE "GN Series" are recommended for Special shape, customized accuracy and rigidity.











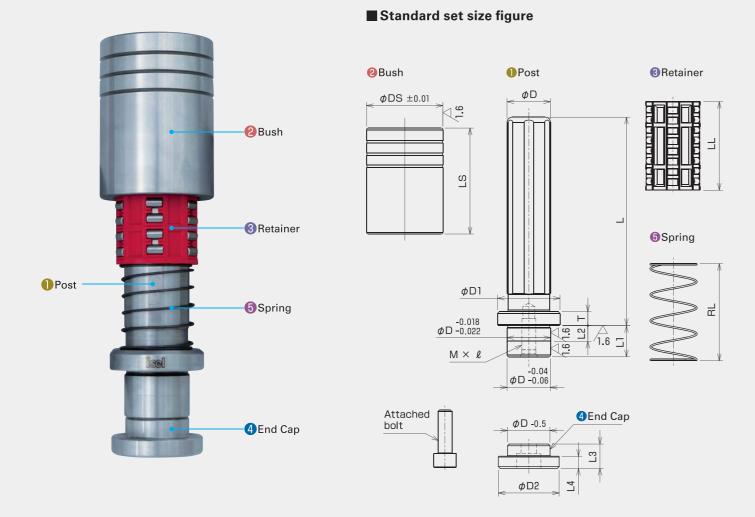


GNG Series GNZF/GNZC Series

GNS/GNSB Series

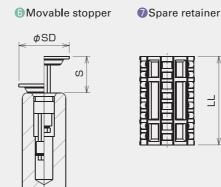
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MILLION GUIDE PAT. GRG Series



Order type





■ Standard set size table

	① Post						2 Bush		37 Retainer	4 End cap			6 Movable stopper			
Type	φD	L (Choice)	φD1	L1	L2	Т	Μ×ℓ	φDS	LS	LL	L3	L4	φD2	Screw size	φSD	S
GRG13	13	50 · 60 · 70	20	10	7	5	M6 × 15	24	30	25	8	4	17	M6 × 15		_
GRG16	16	50 · 60 · 80	23	10	7	5	M6 × 15	30	40	30	10	4	22	M6 × 15		_
GRG20	20	90 · 100 · 120	29	15	7.5	5	M8 × 18	37	50	40	14	7	28	M8 × 25	24	17
GRG25	25	100 · 120 · 130	36	18	9	8	M8 × 18	44	61	51	14	7	35	M8 × 25	29	21
GRG32	32	120 · 140 · 160	44	23	11.5	10	M10 × 22	54	73	63	16	8	40	M10 × 30	37	28

■ Standard setting table of spring length

Spring Length RL (without movable stopper)

D/L	50	60	70	80	90	100	120	130	140	160
13	30	40	50	_	_	_	_	_	_	_
16	30	40	_	60	_	_	_	_	_	_
20	_	_	_	_	70	80	100	_	_	_
25	_	_	_	_	_	70	90	100	_	_
32				_	_	_	85		105	125

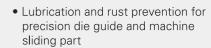
Spring Length RL (with movable stopper)

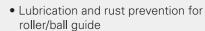
D/L	90	100	120	130	140	160
20	80	90	110	_	_	_
25	_	80	100	120	_	_
32	_	_	95	_	115	145

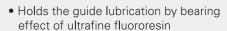
■ Million Guide Lubrication

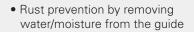
Million Guide cannot be used without lubrication; Regular lubrication is necessary. In case Million Guide is not properly lubricated, premature wear may occur, leading to the performance degradation. The following lubes are our recommendation to use.

1) Oil lubrication Million Oil MOF-3









Semi-dry and highly retentive after application

2 Grease lubrication Million Grease MGS



- Lubrication for Million Guide and ball guide
- Urea-based, extreme pressure resistant grease of high thermal stability
- High extreme pressure resistance with molybdenum
- Highly retentive by the adhesiveness of mixed special polymer

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Offering our ideas to the world

ISEL will act flexibly considering the circumstance, situation and market size of each country we move into. We will prioritize and build reliable relationships with people as well as increase their trust in our products.





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8 East Japan Office



O Nagoya Office



6 Hiroshima Factory



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⊕WEBSITE >>>

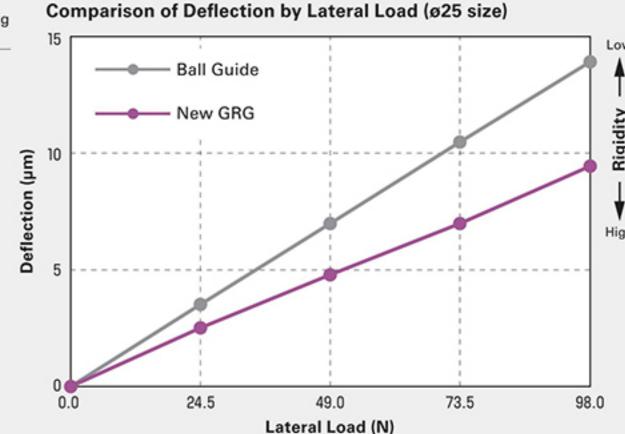
http://isel.jp

Comparison of Guide

Guide Type	Features	Rigidity	Rotational Restraint	Entry Impact	Rated Load	
Global Model MILLION GUIDE GRG	 High rigidity, High accuracy Special shape not applied 	0	0	0	©	
Ball Guide	● Low price ● Easy assembly	Δ	×	Δ	Δ	

Comparison of Guide Deflection by Lateral Load

Lateral Load Bush fixed Measuring Point Bush fixed



■ Notes

- Select the post length so that the post keeps the bush at the top dead center during the press process.
- Make sure there is no rotational moment between the post and the bush at installation.
- Design so that the retainer does not come out from the bush during operation.
- Million Guide cannot be used without any lubrication.
- Use the Million Guide in 0 80°C environment.
- Do not modify the Million Guide. (may affect the accuracy and specification.)

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