

# Technical Comparison Chart (GR)

01/30/2025



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Technical Comparison Chart (GR)

GR-TCH-1





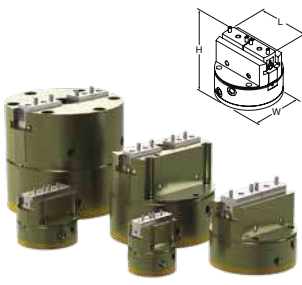





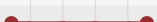


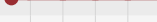


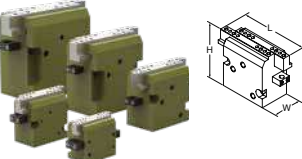
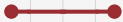



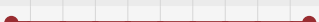
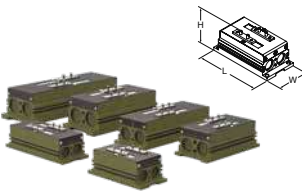






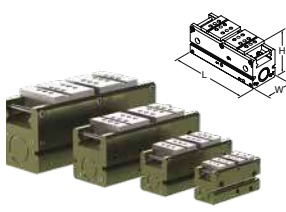








# Technical Comparison Chart (GR)

01/30/2025

## Table of Contents (continued)

# PARALLEL GRIPPERS

## Sizing and Application Chart

	Series	Page #	Jaws		Basic Unit Dimensions mm [in]			Stroke mm [in]
			2 Jaws	3 Jaws	Length	Width	Height	0-6.3 [0-0.25] 6.3-12.7 [0.25-0.50] 12.7-19.1 [0.50-0.75] 19.1-25.4 [0.75-1.00] 25.4-31.8 [1.00-1.25] 31.8-38.1 [1.25-1.50] 38.1-44.5 [1.50-1.75] 44.5-50.8 [1.75-2.00] 50.8-57.1 [2.00-2.25] 57.1-63.5 [2.25-2.50] 63.5-69.8 [2.50-2.75] 69.8-76.2 [2.75-3.00] 76.2+ [3.00+]
<b>Electric Grippers</b>								
GR-EPG-#								
	DPE-200	7	●		67.9 [2.67]	28 [1.10]	128 [5.04]	
	DPE-400	5	●		159.6 [6.28]	60 [2.36]	129.5 [5.10]	
	RPE-100	9	●		32 [1.26]	40 [1.57]	94 [3.70]	
<b>Precision Grippers</b>								
GR-PRC-#								
	6002P	5	●		72 [2.83]	60 [2.36]	77 [3.03]	
	6002P-C	5	●		78 [3.07]	60 [2.36]	77 [3.03]	
	8002P	6	●		91.6 [3.61]	80 [3.15]	78 [3.07]	
	8002P-C	6	●		98.4 [3.87]	80 [3.15]	78 [3.07]	
	11002P	7	●		126 [4.96]	110 [4.33]	106 [4.17]	
	11002P-C	7	●		136 [5.35]	110 [4.33]	106 [4.17]	
	1400P	8	●		165 [6.50]	140 [5.51]	137 [5.39]	
	14002P-C	8	●		179 [7.05]	140 [5.51]	137 [5.39]	
	16002P	9	●		194 [7.64]	165 [6.50]	169 [6.65]	
	16002P-C	9	●		204 [8.03]	165 [6.50]	169 [6.65]	
16502PGR	10	●		210 [8.27]	165 [6.50]	262 [10.31]		
	DGC-25	17	●		75 [2.95]	38 [1.50]	55 [2.17]	
	DGC-45	18	●		95 [3.74]	42 [1.65]	70 [2.76]	
	DGC-65	19	●		125 [4.92]	53 [2.09]	90 [3.54]	
	GC-85	20	●		155 [6.10]	67.5 [2.66]	120 [4.72]	
	GC-105	21	●		190 [7.48]	85.5 [3.37]	145 [5.71]	
	DPL-2520	25	●		152 [5.98]	75 [2.95]	65 [2.56]	
	DPL-2535	26	●		197 [7.76]	75 [2.95]	65 [2.56]	
	DPL-3230	27	●		186 [7.32]	93 [3.66]	74 [2.91]	
	DPL-3250	28	●		246 [9.69]	93 [3.66]	74 [2.91]	
	DPL-4040	29	●		238 [9.37]	112 [4.41]	91 [3.58]	
DPL-4070	30	●		328 [12.91]	112 [4.41]	91 [3.58]		
	DPP-10M-06	35	●		62.9 [2.48]	25 [0.98]	34.67 [1.36]	
	DPP-10M-12	35	●		73.7 [2.90]	25 [0.98]	34.67 [1.36]	
	DPP-14M-15	36	●		90.2 [3.55]	34 [1.34]	42.21 [1.66]	
	DPP-14M-25	36	●		118.7 [4.67]	34 [1.34]	42.21 [1.66]	
	DPP-20M-25	37	●		129 [5.08]	46 [1.81]	55.63 [2.19]	
	DPP-20M-38	37	●		175.5 [6.91]	46 [1.81]	55.63 [2.19]	
	DPP-28M-31	38	●		162.3 [6.39]	58 [2.28]	72.54 [2.86]	
	DPP-28M-50	38	●		221.5 [8.72]	58 [2.28]	72.54 [2.86]	


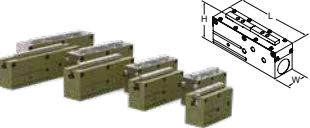
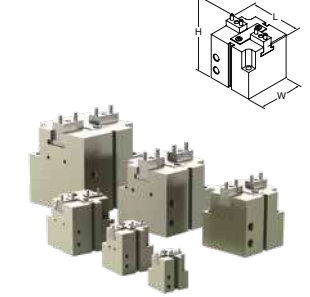
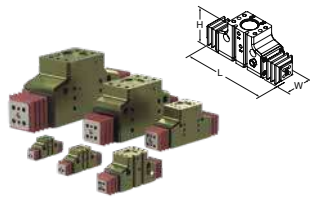
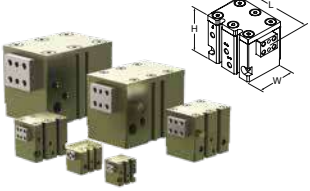

# PARALLEL GRIPPERS

## Sizing and Application Chart

Total Gripforce N [lbs]	Maximum Finger Length @ 60psi mm [in]	Actuation Time sec.	Operating Pressure bar [psi]	Environment		Features								
				Clean Room Environment	Normal Environment	Harsh/Dirty Environment	Failsafe Operation	Inductive Sensors	Magneto Resistive Sensors	Double Acting Cylinder	Single Acting/Spring Return	Double Acting/Spring Assist	Non-Synchronous Option	
0.45-45 [1-10] 45-111 [10-25] 111-223 [25-50] 223-445 [50-100] 445-2225 [100-500] 2225-13350 [500-3000]	0-50.8 [0-2] 50.8-102 [2-4] 102-152 [4-6] 152-203 [6-8] 203-254 [8-10] 254-305 [10-12] 305-356 [12-14] 356-406 [14-16] 406-457 [16-18] 457-508 [18-20] 508+ [20 +]	0.05-0.1 0.1-0.5 0.5-0.75 0.75-1	5-100 [0.3-7] 20-100 [1.5-7] 30-100 [2-7] 40-100 [3-7] 45-100 [3.1-7] 50-100 [3.5-7] 60-100 [4-7] 70-150 [5-10.3]	24VDC Electric Actuation	Clean Room Environment	Normal Environment	Harsh/Dirty Environment	Failsafe Operation	Inductive Sensors	Magneto Resistive Sensors	Double Acting Cylinder	Single Acting/Spring Return	Double Acting/Spring Assist	Non-Synchronous Option
<b>Electric Grippers</b>														

# PARALLEL GRIPPERS

## Sizing and Application Chart

	Series	Page #	Jaws		Basic Unit Dimensions mm [in]			Stroke mm [in]
			2 Jaws	3 Jaws	Length	Width	Height	0-6.3 [0-0.25] 6.3-12.7 [0.25-0.50] 12.7-19.1 [0.50-0.75] 19.1-25.4 [0.75-1.00] 25.4-31.8 [1.00-1.25] 31.8-38.1 [1.25-1.50] 38.1-44.5 [1.50-1.75] 44.5-50.8 [1.75-2.00] 50.8-57.1 [2.00-2.25] 57.1-63.5 [2.25-2.50] 63.5-69.8 [2.50-2.75] 69.8-76.2 [2.75-3.00] 76.2+ [3.00+]
<b>Precision Grippers (cont.)</b>								
<b>GR-PRC-#</b>								
	RP-50P	41	●	57 [2.24]	25.4 [1.00]	46.7 [1.84]	●	
	RP-100P	42	●	83 [3.27]	25.4 [1.00]	59.4 [2.34]	●	
	RP-25P	43	●	108 [4.25]	31.8 [1.25]	81.1 [3.19]	●	
	RP-35P	44	●	143 [5.63]	50.8 [2.00]	103.2 [4.06]	●	
	RP-40P	45	●	178 [7.01]	[2.25] 57.2	125 [4.92]	●	
	RP-43P	46	●	292 [11.50]	74.7 [2.94]	175 [6.89]	●	
	RPL/RPLC-1	49	●	44.5 [1.75]	19.1 [0.75]	29.5 [1.16]	●	
	RPL/RPLC-2	49	●	59.5 [2.34]	19.1 [0.75]	29.5 [1.16]	●	
	RPL/RPLC-3	50	●	80 [3.15]	22.2 [0.87]	32.6 [1.28]	●	
	RPL/RPLC-4	50	●	98.1 [3.86]	22.2 [0.87]	32.6 [1.28]	●	
<b>General Industrial Grippers</b>								
<b>GR-GEN-#</b>								
	CP-1	5	●	37.6 [1.48]	30 [1.18]	39.2 [1.54]	●	
	CP-1-C	5	●	42 [1.65]	30 [1.18]	39.2 [1.54]	●	
	CP-2	6	●	51.4 [2.02]	40 [1.57]	51.5 [2.03]	●	
	CP-2-C	6	●	58.2 [2.29]	40 [1.57]	51.5 [2.03]	●	
	CP-3	7	●	70 [2.76]	55 [2.17]	67 [2.64]	●	
	CP-3-C	7	●	81.2 [3.20]	55 [2.17]	67 [2.64]	●	
	CP-4	8	●	85 [3.35]	65 [2.56]	74 [2.91]	●	
	CP-4-C	8	●	96 [3.78]	65 [2.56]	74 [2.91]	●	
	CP-5	9	●	102 [4.02]	80 [3.15]	91 [3.58]	●	
	CP-5-C	9	●	120 [4.72]	80 [3.15]	91 [3.58]	●	
	CP-6	10	●	125 [4.92]	100 [3.94]	114 [4.49]	●	
	CP-6-C	10	●	141 [5.55]	100 [3.94]	114 [4.49]	●	
	DPDL-047	13	●	54.5 [2.16]	22.2 [0.875]	32.2 [1.27]	●	
	DPDL-056	14	●	68.7 [2.70]	24.1 [0.950]	37.7 [1.48]	●	
	DPDL-088	15	●	101.1 [3.98]	36.1 [1.420]	56 [2.20]	●	
	DPDL-125	16	●	128.4 [5.06]	43.2 [1.700]	68.5 [2.70]	●	
	DPDL-175	17	●	183.1 [7.21]	64.8 [2.550]	100.2 [3.94]	●	
	DPDL-250	18	●	243.8 [9.58]	79.3 [3.125]	123.3 [4.85]	●	
	DPDS-047	21	●	31.2 [1.23]	22.2 [0.87]	25.9 [1.02]	●	
	DPDS-056	22	●	39.8 [1.57]	24.1 [0.95]	28.9 [1.14]	●	
	DPDS-088	23	●	57.4 [2.26]	36.1 [1.42]	43.4 [1.71]	●	
	DPDS-125	24	●	73.5 [2.89]	43.2 [1.70]	52.7 [2.07]	●	
	DPDS-175	25	●	114.7 [4.52]	64.8 [2.55]	80.4 [3.17]	●	
	DPDS-250	26	●	133.1 [5.24]	79.3 [3.12]	95.5 [3.76]	●	
	DPG-10M-1	29	●	62 [2.44]	34.9 [1.37]	44.9 [1.77]	●	
	DPG-10M-2	29	●	86 [3.39]	34.9 [1.37]	44.9 [1.77]	●	
	DPG-10M-3	29	●	113 [4.45]	34.9 [1.37]	44.9 [1.77]	●	
	DPG-10M-4	29	●	137 [5.39]	34.9 [1.37]	44.9 [1.77]	●	


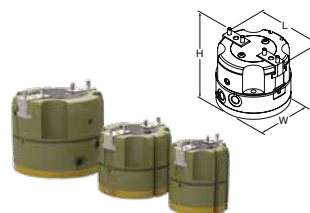

# PARALLEL GRIPPERS

## Sizing and Application Chart

Total Gripforce N [lbs]	Maximum Finger Length @ 58psi mm [in]	Actuation Time	Operating Pressure bar [psi]	Environment	Features
0.45-45 [1-10] 45-111 [10-25] 111-223 [25-50] 223-445 [50-100] 445-2225 [100-500] 2225-13350 [500-3000]	0-50.8 [0-2] 50.8-102 [2-4] 102-152 [4-6] 152-203 [6-8] 203-254 [8-10] 254-305 [10-12] 305-356 [12-14] 356-406 [14-16] 406-457 [16-18] 457-508 [18-20] 508+ [20 +]	0.05-0.1 sec. 0.1-0.5 sec. 0.5-0.75 sec. 0.75-1 sec.	5-100 [0.3-7] 20-100 [1.5-7] 29-145 [2-10] 36-145 [2.5-10] 40-100 [3-7] 50-100 [3.5-7] 70-150 [5-7]	Clean Room Environment Normal Environment Harsh/Dirty Environment	Failsafe Operation Inductive Sensors Magneto Resistive Sensors Double Acting Cylinder Single Acting/Spring Return Double Acting/Spring Assist Non-Synchronous Option
Precision Grippers (cont.)					
General Industrial Grippers					

# PARALLEL GRIPPERS

## Sizing and Application Chart

Series	Page #	Jaws		Basic Unit Dimensions mm [in]			Stroke mm [in]																
		2 Jaws	3 Jaws	Length	Width	Height	0-6.3 [0-0.25]	6.3-12.7 [0.25-0.50]	12.7-19.1 [0.50-0.75]	19.1-25.4 [0.75-1.00]	25.4-31.8 [1.00-1.25]	31.8-38.1 [1.25-1.50]	38.1-44.5 [1.50-1.75]	44.5-50.8 [1.75-2.00]	50.8-57.1 [2.00-2.25]	57.1-63.5 [2.25-2.50]	63.5-69.8 [2.50-2.75]	69.8-76.2 [2.75-3.00]	76.2+ [3.00+]				
<b>General Industrial Grippers (cont.)</b>													<b>GR-GEN-#</b>										
	RDH-1	33	●	63 [2.48]	33 [1.30]	38.5 [1.52]	●																
	RDH-1-L	33	●	63 [2.48]	33 [1.30]	38.5 [1.52]	●●																
	RDH-2	34	●	83 [3.27]	40 [1.57]	58 [2.28]	●																
	RDH-2-L	34	●	83 [3.27]	40 [1.57]	58 [2.28]	●●																
	RDH-3	35	●	104 [4.09]	50 [1.97]	66 [2.60]	●●																
	RDH-3-L	35	●	104 [4.09]	50 [1.97]	66 [2.60]	●●●																
	RDH-4	36	●	129 [5.08]	60 [2.36]	74.5 [2.93]	●●																
	RDH-4-L	36	●	129 [5.08]	60 [2.36]	74.5 [2.93]	●●●																
	RDH-5	37	●	162 [6.38]	76 [2.99]	90.5 [3.56]	●●●																
	RDH-5-L	37	●	162 [6.38]	76 [2.99]	90.5 [3.56]	●●●●																
	RDH-6	38	●	205 [8.07]	100 [3.94]	113 [4.45]	●●●																
	RDH-6-L	38	●	205 [8.07]	100 [3.94]	113 [4.45]	●●●●																
	RDH-7	39	●	258 [10.16]	120 [4.72]	147 [5.79]	●●●●																
	RDH-7-L	39	●	258 [10.16]	120 [4.72]	147 [5.79]	●●●●●																
	RDH-8	40	●	355 [13.98]	180 [7.09]	201 [7.91]	●●●●●																
RDH-8-L	40	●	355 [13.98]	180 [7.09]	201 [7.91]	●●●●●●																	
	REP-62	43	●	70 [2.76]	60 [2.36]	72 [2.83]	●●																
	REP-62-C	43	●	82 [3.23]	60 [2.36]	72 [2.83]	●●●																
	REP-82	44	●	94 [3.70]	80 [3.15]	74 [2.91]	●●																
	REP-82-C	44	●	108 [4.25]	80 [3.15]	74 [2.91]	●●●																
	REP-112	45	●	138 [5.43]	110 [4.33]	98 [3.86]	●●																
	REP-112-C	45	●	158 [6.22]	110 [4.33]	98 [3.86]	●●●																
	RP-5	49	●	29 [1.14]	25.4 [1.00]	36.5 [1.44]	●																
	RP-10	50	●	38.1 [1.50]	31.7 [1.25]	37.3 [1.47]	●																
	RP-11	53	●	48 [1.89]	31.8 [1.25]	28.6 [1.13]	●																
	RP-11-D	53	●	45 [1.77]	31.8 [1.25]	28.6 [1.13]	●																
	RP-12	54	●	63 [2.48]	31.8 [1.25]	35.6 [1.40]	●●																
	RP-12-D	54	●	60 [2.36]	31.8 [1.25]	35.6 [1.40]	●																
	RP-15	55	●	81 [3.19]	41.3 [1.63]	47.3 [1.86]	●●																
	RP-15-D	55	●	76 [2.99]	41.3 [1.63]	47.3 [1.86]	●●																
	RP-17	56	●	108 [4.25]	54 [2.13]	61.9 [2.44]	●●●																
	RP-17-D	56	●	117 [4.61]	54 [2.13]	61.9 [2.44]	●●●●																
	RP-18	57	●	177 [6.97]	74.9 [2.95]	92.8 [3.65]	●●●●																
	RP-18-D	57	●	190 [7.48]	74.9 [2.95]	92.8 [3.65]	●●●●●																
	RP-19	58	●	266 [10.47]	100.3 [3.95]	118.7 [4.67]	●●●●●																
RP-19-D	58	●	254 [10.00]	100.3 [3.95]	118.7 [4.67]	●●●●●																	



# PARALLEL GRIPPERS

## Sizing and Application Chart

Total Gripforce N [lbs]	Maximum Finger Length @ 60psi mm [in]	Actuation Time	Operating Pressure bar [psi]	Environment	Features
0.45-45 [1-10]	0-50.8 [0-2]	0.05-0.1 sec.	5-100 [0.3-7]	Clean Room Environment	Non-Synchronous Option
45-111 [10-25]	50.8-102 [2-4]	0.1-0.5 sec.	20-100 [1.5-7]	Normal Environment	
111-223 [25-50]	102-152 [4-6]	0.5-0.75 sec.	30-100 [2-7]	Harsh/Dirty Environment	
223-445 [50-100]	152-203 [6-8]	0.75-1 sec.	40-100 [3-7]	Failsafe Operation	
445-2225 [100-500]	203-254 [8-10]		45-100 [3.1-7]	Inductive Sensors	
2225-13350 [500-3000]	254-305 [10-12]		50-100 [3.5-7]	Magneto Resistive Sensors	
	305-356 [12-14]		60-100 [4-7]	Double Acting Cylinder	
	356-406 [14-16]		70-150 [5-7]	Single Acting/Spring Return	
	406-457 [16-18]			Double Acting/Spring Assist	
	457-508 [18-20]				
	508+ [20+]				


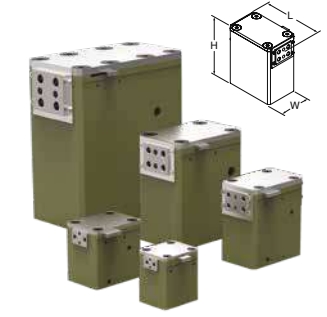
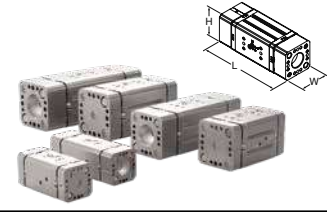
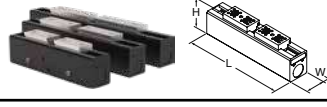
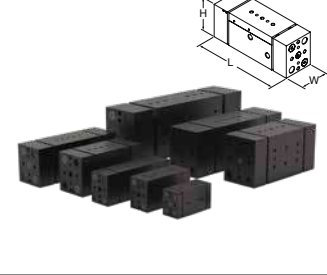
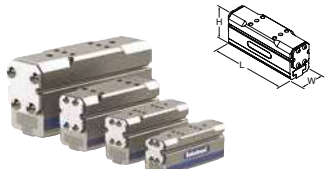
  

General Industrial Grippers (cont.)					



# PARALLEL GRIPPERS

## Sizing and Application Chart

Series	Page #	Jaws		Basic Unit Dimensions mm [in]			Stroke mm [in]												
		2 Jaws	3 Jaws	Length	Width	Height	0-6.3 [0-0.25]	6.3-12.7 [0.25-0.50]	12.7-19.1 [0.50-0.75]	19.1-25.4 [0.75-1.00]	25.4-31.8 [1.00-1.25]	31.8-38.1 [1.25-1.50]	38.1-44.5 [1.50-1.75]	44.5-50.8 [1.75-2.00]	50.8-57.1 [2.00-2.25]	57.1-63.5 [2.25-2.50]	63.5-69.8 [2.50-2.75]	69.8-76.2 [2.75-3.00]	76.2+ [3.00+]
<b>General Industrial Grippers (cont.)</b>																			
<b>GR-GEN-#</b>																			
	RPM/RPMC-1	61	●	23 [0.91]	16 [0.63]	24 [0.94]	●												
	RPM/RPMC-2	61	●	24 [0.94]	16 [0.63]	25.5 [1.00]	●												
	RPM/RPMC-3	62	●	30 [1.18]	16 [0.63]	25.5 [1.00]	●												
	RPS-11	65	●	48 [1.88]	31.8 [1.25]	44.1 [1.74]	●												
	RPS-11-D	65	●	45 [1.79]	31.8 [1.25]	44.1 [1.74]	●												
	RPS-12	66	●	63 [2.50]	31.8 [1.25]	51.2 [2.02]	●●												
	RPS-12-D	66	●	60 [2.37]	31.8 [1.25]	51.2 [2.02]	●												
	RPS-15	67	●	81 [3.19]	41.3 [1.63]	71.6 [2.82]	●●												
	RPS-15-D	67	●	76 [3.00]	41.3 [1.63]	71.6 [2.82]	●●												
	RPS-17	68	●	107 [4.25]	54.0 [2.13]	98.7 [3.89]	●●●												
	RPS-17-D	68	●	117 [4.60]	54.0 [2.13]	98.7 [3.89]	●●●												
	RPS-18	69	●	177 [7.00]	74.9 [2.95]	154.4 [6.08]	●●●●												
	RPS-18-D	69	●	190 [7.45]	74.9 [2.95]	154.4 [6.08]	●●●●												
<b>Heavy-Duty Grippers</b>																			
<b>GR-HDP-#</b>																			
	DPW-250-1	5	●	98 [3.86]	37.6 [1.48]	37.6 [1.48]	●●												
	DPW-250-2	5	●	136 [5.35]	37.6 [1.48]	37.6 [1.48]	●●●												
	DPW-375-1	6	●	122 [4.80]	54 [2.13]	54 [2.13]	●●●												
	DPW-375-2	6	●	198 [7.80]	54 [2.13]	54 [2.13]	●●●●												
	DPW-500-1	7	●	164 [6.46]	63 [2.48]	63 [2.48]	●●●●												
	DPW-500-2	7	●	240 [9.45]	63 [2.48]	63 [2.48]	●●●●●												
	RPB-24	11	●	438.2 [17.25]	88.9 [3.50]	129 [5.08]	●●●●●●												
	RPB-26	11	●	590.5 [23.25]	88.9 [3.50]	129 [5.08]	●●●●●●												
	RPB-28	11	●	734 [28.90]	88.9 [3.50]	129 [5.08]	●●●●●●												
	RPW-250	15	●	93 [3.66]	31.5 [1.24]	40.9 [1.61]	●●												
	RPW-375-1	16	●	120 [4.72]	37.8 [1.49]	50.5 [1.99]	●●●												
	RPW-375-2	16	●	187 [7.36]	37.8 [1.49]	50.5 [1.99]	●●●●												
	RPW-500-1	17	●	171 [6.73]	56.9 [2.24]	66.4 [2.61]	●●●●												
	RPW-500-2	17	●	234 [9.21]	56.9 [2.24]	66.4 [2.61]	●●●●●												
	RPW-625-1	18	●	219 [8.62]	66.4 [2.61]	82.3 [3.24]	●●●●●												
	RPW-625-2	18	●	321 [12.64]	66.4 [2.61]	82.3 [3.24]	●●●●●●												
RPW-750	19	●	410 [16.14]	75 [2.95]	99.8 [3.93]	●●●●●●													
<b>OEM Grippers</b>																			
<b>GR-OEM-#</b>																			
	G110-08M	7	●	[1.69-4.06] 43-103	20 [0.79]	28 [1.10]	●●												
	G110-11M	9	●	[1.69-4.06] 43-103	24 [0.94]	36.5 [1.44]	●●●												
	G110-18M	11	●	[2.13-4.92] 54-125	30 [1.18]	43 [1.69]	●●●●												
	G110-25M	13	●	[2.87-7.60] 73-193	40 [1.57]	61 [2.40]	●●●●●												



# PARALLEL GRIPPERS

## Sizing and Application Chart

	Series	Page #	Jaws		Basic Unit Dimensions mm [in]		Stroke mm [in]															
			2 Jaws	3 Jaws	Diameter	Height	0-6.3 [0-0.25]	6.3-12.7 [0.25-0.50]	12.7-19.1 [0.50-0.75]	19.1-25.4 [0.75-1.00]	25.4-31.8 [1.00-1.25]	31.8-38.1 [1.25-1.50]	38.1-44.5 [1.50-1.75]	44.5-50.8 [1.75-2.00]	50.8-57.1 [2.00-2.25]	57.1-63.5 [2.25-2.50]	63.5-69.8 [2.50-2.75]	69.8-76.2 [2.75-3.00]	76.2+ [3.00+]			
<b>Three Jaw Grippers</b>																						
<b>GR-3JP-#</b>																						
	6003P	5	●	72 [2.83]	77 [3.03]	●●																
	6003P-C	5	●	78 [3.07]	77 [3.03]	●●●																
	8003P	6	●	91.6 [3.61]	78 [3.07]	●●●																
	8003P-C	6	●	98.4 [3.87]	78 [3.07]	●●●●																
	11003P	7	●	126 [4.96]	106 [4.17]	●●●●																
	11003P-C	7	●	136 [5.35]	106 [4.17]	●●●●●																
	14003P	8	●	165 [6.50]	137 [5.39]	●●●●●																
	14003P-C	8	●	179 [7.05]	137 [5.39]	●●●●●●																
	16503P	9	●	194 [7.64]	169 [6.65]	●●●●●●																
	16503P-C	9	●	204 [8.03]	169 [6.65]	●●●●●●●																
	RTH-1M	17	●	63 [2.48]	43 [1.69]	●																
	RTH-1M-L	17	●	63 [2.48]	43 [1.69]	●●																
	RTH-2M	18	●	83 [3.27]	57 [2.24]	●																
	RTH-2M-L	18	●	83 [3.27]	57 [2.24]	●●																
	RTH-3M	19	●	83 [3.27]	57 [2.24]	●●																
	RTH-3M-L	19	●	83 [3.27]	57 [2.24]	●●●																
	RTH-4M	20	●	129 [5.08]	84.5 [3.48]	●●																
	RTH-4M-L	20	●	129 [5.08]	84.5 [3.48]	●●●																
	RTH-5M	21	●	162 [6.38]	98.5 [3.84]	●●																
	RTH-5M-L	21	●	162 [6.38]	98.5 [3.84]	●●●																
	RTH-6M	22	●	205 [8.07]	121 [4.76]	●●																
	RTH-6M-L	22	●	205 [8.07]	121 [4.76]	●●●																
	RTH-7M	23	●	258 [10.16]	155 [6.10]	●●																
RTH-7M-L	23	●	258 [10.16]	155 [6.10]	●●●																	
RTH-8M	24	●	355 [13.98]	209 [8.23]	●●																	
RTH-8M-L	24	●	355 [13.98]	209 [8.23]	●●●																	
	PPC-12	27	●	43 [1.69]	74 [2.91]	●●																
	PPC-12-C	27	●	49.03 [1.93]	78 [3.07]	●●●																
	PPC-25	28	●	61.5 [2.42]	87 [3.43]	●●																
	PPC-25-C	28	●	68.5 [2.70]	92 [3.62]	●●●																
	PPC-34	29	●	82.5 [3.25]	112 [4.41]	●●																
	PPC-34-C	29	●	92.5 [3.64]	117 [4.61]	●●●																
	REP-63	33	●	72 [2.83]	77 [3.03]	●●																
	REP-63-C	33	●	78 [3.07]	77 [3.03]	●●●																
	REP-83	34	●	91.6 [3.61]	78 [3.07]	●●																
	REP-83-C	34	●	98.4 [3.87]	78 [3.07]	●●●																
	REP-113	35	●	126 [4.96]	103 [4.06]	●●																
	REP-113-C	35	●	136 [5.35]	103 [4.06]	●●●																
	RPC-315	39	●	62 [2.44]	41 [1.61]	●●																
	RPC-320	40	●	82 [3.23]	50 [1.97]	●●																
	RPC-331	41	●	118 [4.65]	75.1 [2.96]	●●																
	RPC-344	42	●	140 [5.51]	82.2 [3.24]	●●																
	RPC-356	43	●	180 [7.24]	101.1 [3.98]	●●																
	RPC-368	44	●	206 [8.11]	118 [4.65]	●●																

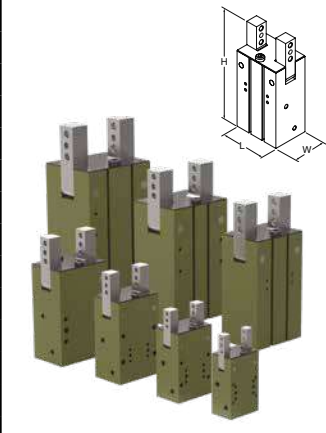
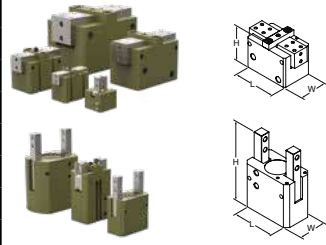
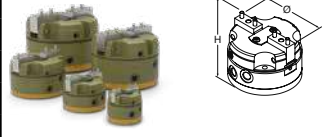

# PARALLEL GRIPPERS

## Sizing and Application Chart

Total Gripforce N [lbs]	Maximum Finger Length @ 60psi mm [in]	Actuation Time	Operating Pressure bar [psi]	Environ- ment	Features
0.45-45 [1-10]	0-50.8 [0-2]	0.05-0.1 sec.	5-100 [0.3-7]	Clean Room Environment	Three Jaw Grippers
45-111 [10-25]	50.8-102 [2-4]	0.1-0.5 sec.	20-100 [1.5-7]	Normal Environment	✓
111-223 [25-50]	102-152 [4-6]	0.5-0.75 sec.	30-100 [2-7]	Harsh/Dirty Environment	✓
223-445 [50-100]	152-203 [6-8]	0.75-1 sec.	40-100 [3-7]	Failsafe Operation	✓
445-2225 [100-500]	203-254 [8-10]		45-100 [3.1-7]	Inductive Sensors	✓
2225-13350 [500-3000]	254-305 [10-12]		50-100 [3.5-7]	Magneto Resistive Sensors	✓
	305-356 [12-14]		55-100 [3.8-7]	Double Acting Cylinder	✓
	356-406 [14-16]		60-100 [4-7]	Single Acting/Spring Return	✓
	406-457 [16-18]		70-150 [5-7]	Double Acting/Spring Assist	✓
	457-508 [18-20]			Non-Synchronous Option	✓
	508+ [20 +]				✓

# ANGULAR GRIPPERS

## Sizing and Application Chart

Series	Page #	Jaws		Basic Unit Dimensions mm [in]			Angle (Both Jaws)				Total Gripforce N [lbs]
		2 Jaws	3 Jaws	Length	Width	Height	12 Degrees	30 Degrees	70 Degrees	180 Degrees	0.45-45 [1-10] 45-111 [10-25] 111-223 [25-50] 223-445 [50-100] 445-2225 [100-500] 2225-13350 [500-3000]
<b>Angular Grippers</b>											
<b>GR-ANG-#</b>											
	CT-12M	5	●	30 [1.18]	20 [0.79]	48 [1.89]				●	●
	CT-12M-RE	5	●	30 [1.18]	20 [0.79]	64 [2.52]				●	●
	CT-16M	6	●	36 [1.42]	25 [0.98]	64 [2.52]				●	●●
	CT-16M-RE	6	●	36 [1.42]	25 [0.98]	71 [2.80]				●	●●
	CT-20M	7	●	42 [1.65]	30 [1.18]	79 [3.11]				●	●
	CT-20M-RE	7	●	42 [1.65]	30 [1.18]	83 [3.27]				●	●●●
	CT-25M	8	●	50 [1.97]	36 [1.42]	93.5 [3.68]				●	●●●
	CT-25M-RE	8	●	50 [1.97]	36 [1.42]	102 [4.02]				●	●●●
	CT-32M	9	●	56 [2.20]	42 [1.65]	95 [3.74]				●	●●●●
	CT-32M-RE	9	●	56 [2.20]	42 [1.65]	116 [4.57]				●	●●●●
	CT-40M	10	●	66 [2.60]	52 [2.05]	107.5 [4.23]				●	●●●
	CT-40M-RE	10	●	66 [2.60]	52 [2.05]	135 [5.31]				●	●●●●
CT-50M	11	●	76 [2.99]	62 [2.44]	146 [5.75]				●	●●●●	
CT-50M-RE	11	●	76 [2.99]	62 [2.44]	163 [6.42]				●	●●●●	
	RA-5	15	●	25.4 [1.00]	38.1 [1.50]	35.0 [1.38]				●	●●
	RA-6	16	●	38.1 [1.50]	50.8 [2.00]	49.6 [1.95]				●	●●
	RA-7	17	●	50.8 [2.00]	76.2 [3.00]	60.8 [2.39]				●	●●●
	RA-8	18	●	76.2 [3.00]	101.6 [4.00]	76.2 [3.00]				●	●●
	RA-10	19	●	25.4 [1.00]	25.4 [1.00]	20.7 [0.81]				●	●●
	RA-15	23	●	25.4 [1.00]	44.5 [1.75]	38.9 [1.53]	●				●●●
	RA-25	24	●	44.5 [1.75]	63.5 [2.50]	61.9 [2.44]	●				●●●
	RA-90	25	●	39 [1.54]	28 [1.10]	67.3 [2.65]			●		●●
	RUA-62M	29	●		Ø60 [Ø2.36]	53 [2.09]				●	●●
	RUA-82M	30	●		Ø80 [Ø3.15]	57 [2.24]				●	●●
	RUA-112M	31	●		Ø110 [Ø4.33]	175 [6.89]				●	●●
	RUA-142M	32	●		Ø140 [Ø5.51]	107 [4.21]				●	●●●
	RUA-162M	33	●		Ø165 [Ø6.50]	119 [4.69]				●	●●●
<b>GR-SPC-#</b>											
	FUA-50M	2	●	85 [3.35]	75 [2.95]	52 [2.05]				●	See Datasheet
	FUA-63M	3	●	100 [3.90]	90 [3.54]	62 [2.44]				●	See Datasheet

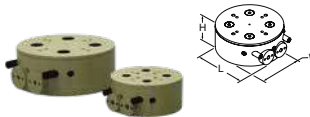
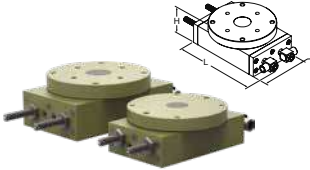
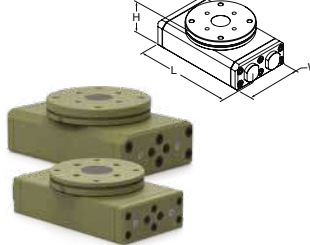
# ANGULAR GRIPPERS

## Sizing and Application Chart

Maximum Finger Length @ 60psi mm [in]		Actuation Time	Operating Pressure bar [psi]	Environment	Features
0-50.8 [0-2]		0.05-0.1 sec.		Clean Room Environment	
50.8-102 [2-4]		0.1-0.5 sec.		Normal Environment	
102-152 [4-6]		0.5-0.75 sec.		Harsh/Dirty Environment	
152-203 [6-8]		0.75-1 sec.		Failsafe Operation	
203-254 [8-10]			5-100 [0.3-7]	Inductive Sensors	
254-305 [10-12]			20-100 [1.5-7]	Magneto Resistive Sensors	
305-356 [12-14]			30-100 [2-7]	Double Acting Cylinder	
356-406 [14-16]			45-100 [3.1-7]	Single Acting/Spring Return	
406-457 [16-18]			40-100 [3-7]	Double Acting/Spring Assist	
457-508 [18-20]			50-100 [3.5-7]	Non-Synchronous Option	
508+ [20 +]			60-100 [4-7]		
<b>Angular Grippers</b>					
0-50.8 [0-2]	●	●	●	✓	✓
50.8-102 [2-4]	●	●	●	✓	✓
102-152 [4-6]	●	●	●	✓	✓
152-203 [6-8]	●	●	●	✓	✓
203-254 [8-10]	●	●	●	✓	✓
254-305 [10-12]	●	●	●	✓	✓
305-356 [12-14]	●	●	●	✓	✓
356-406 [14-16]	●	●	●	✓	✓
406-457 [16-18]	●	●	●	✓	✓
457-508 [18-20]	●	●	●	✓	✓
508+ [20 +]	●	●	●	✓	✓
0-50.8 [0-2]	●	●	●	✓	
50.8-102 [2-4]	●	●	●	✓	
102-152 [4-6]	●	●	●	✓	
152-203 [6-8]	●	●	●	✓	
203-254 [8-10]	●	●	●	✓	
254-305 [10-12]	●	●	●	✓	
305-356 [12-14]	●	●	●	✓	
356-406 [14-16]	●	●	●	✓	
406-457 [16-18]	●	●	●	✓	
457-508 [18-20]	●	●	●	✓	
508+ [20 +]	●	●	●	✓	
0-50.8 [0-2]	●	●	●	✓	✓
50.8-102 [2-4]	●	●	●	✓	✓
102-152 [4-6]	●	●	●	✓	✓
152-203 [6-8]	●	●	●	✓	✓
203-254 [8-10]	●	●	●	✓	✓
254-305 [10-12]	●	●	●	✓	✓
305-356 [12-14]	●	●	●	✓	✓
356-406 [14-16]	●	●	●	✓	✓
406-457 [16-18]	●	●	●	✓	✓
457-508 [18-20]	●	●	●	✓	✓
508+ [20 +]	●	●	●	✓	✓
0-50.8 [0-2]	●	●	●	✓	
50.8-102 [2-4]	●	●	●	✓	
102-152 [4-6]	●	●	●	✓	
152-203 [6-8]	●	●	●	✓	
203-254 [8-10]	●	●	●	✓	
254-305 [10-12]	●	●	●	✓	
305-356 [12-14]	●	●	●	✓	
356-406 [14-16]	●	●	●	✓	
406-457 [16-18]	●	●	●	✓	
457-508 [18-20]	●	●	●	✓	
508+ [20 +]	●	●	●	✓	
0-50.8 [0-2]	●	●	●	✓	✓
50.8-102 [2-4]	●	●	●	✓	✓
102-152 [4-6]	●	●	●	✓	✓
152-203 [6-8]	●	●	●	✓	✓
203-254 [8-10]	●	●	●	✓	✓
254-305 [10-12]	●	●	●	✓	✓
305-356 [12-14]	●	●	●	✓	✓
356-406 [14-16]	●	●	●	✓	✓
406-457 [16-18]	●	●	●	✓	✓
457-508 [18-20]	●	●	●	✓	✓
508+ [20 +]	●	●	●	✓	✓

# ROTARY ACTUATORS

## Sizing and Application Chart

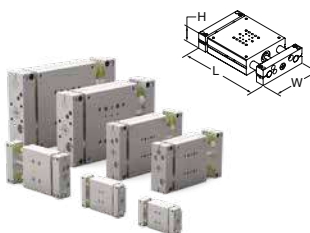
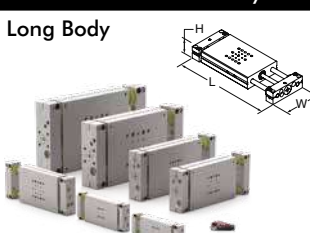
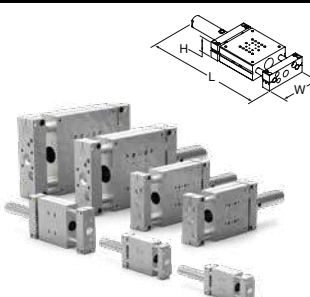
	Series	Page #	Ports/ Mounting		Rotary Type		Basic Unit Dimensions mm [in]			Maximum Torque Nm [in-lb]					
			Imperial	Metric	Flange Output	Shaft Output	Length	Width	Height	0-111 [0-25]	111-223 [25-50]	223-445 [50-100]	445-678 [100-150]	678-890 [150-200]	890-1335 [200-300]
<b>RR-Light Duty</b>		<b>GR-ROT-#</b>													
	RR-18/-18M	5	●	●	●	61 [2.42]	57.1 [2.25]	24.6 [.969]	●						
	RR-28/-28M	6	●	●	●	83.1 [3.28]	85.7 [3.375]	33.1 [1.313]	●						
<b>RR-Medium Duty</b>		<b>GR-ROT-#</b>													
	RR-36/-36M	9	●	●	●	170.9 [6.73]	101.6 [4.00]	43.7 [1.72]	●						
	RR-46/-46M	10	●	●	●	203.2 [8.00]	113.5 [4.47]	54.1 [2.13]	●—●						
<b>RR-Heavy Duty</b>		<b>GR-ROT-#</b>													
	RR-56M	13	●	●	●	[8.50] 215.9	117.5 [4.63]	70.2 [2.77]	●—●						
	RR-66M	14	●	●	●	[10.35] 262.8	158.8 [6.25]	96.8 [3.81]	●—●						





# LINEAR SLIDES

## Sizing and Application Chart

Series	Slide Type			Basic Unit Dimensions mm [in]			Maximum Thrust Force N [lbs]						
	Page #	Base Slide	Thru-ster Slide	Length + Stroke	Width	Height	0-111 [0-25]	111-223 [25-50]	223-445 [50-100]	445-678 [100-150]	678-890 [150-200]	890-1335 [200-300]	1335+ [300+]
<b>Base Slide—Internal Air Cylinder</b>													
GR-LIN-#													
	DLB-06M-B	5	●		81 [3.19]	50.3 [1.98]	23.7 [0.93]	●					
	DLB-08M-B	5	●		93.7 [3.69]	62.7 [2.47]	23.7 [0.93]	●					
	DLB-10M-B	7	●		143 [5.63]	88.6 [3.49]	31.6 [1.24]	●	●				
	DLB-12M-B	7	●		155.7 [6.13]	101.2 [3.98]	42.1 [1.66]	●	●	●			
	DLB-16M-B	7	●		174.8 [6.88]	120.3 [4.74]	42.1 [1.66]	●	●	●			
	DLB-20M-B	9	●		239.3 [9.42]	164.6 [6.48]	55.4 [2.18]	●	●	●	●		
	DLB-25M-B	9	●		275.3 [10.84]	190 [7.48]	55.4 [2.18]	●	●	●	●	●	
<b>Base Slide—Internal Air Cylinder</b>													
GR-LIN-#													
	DLB-06M-L	6	●		125.5 [4.94]	50.3 [1.98]	23.7 [0.93]	●					
	DLB-08M-L	6	●		138.2 [5.44]	62.7 [2.47]	23.7 [0.93]	●					
	DLB-10M-L	8	●		193.8 [7.63]	88.6 [3.49]	31.6 [1.24]	●	●				
	DLB-12M-L	8	●		219.2 [8.63]	101.2 [3.98]	42.1 [1.66]	●	●	●			
	DLB-16M-L	8	●		244.6 [9.63]	120.3 [4.74]	42.1 [1.66]	●	●	●			
	DLB-20M-L	10	●		290.1 [11.42]	164.6 [6.48]	55.4 [2.18]	●	●	●	●		
	DLB-25M-L	10	●		326.1 [12.84]	190 [7.48]	55.4 [2.18]	●	●	●	●	●	
<b>Linear Thru-ster Slide—External Cylinder</b>													
GR-LIN-#													
	DLB-06-T	14	●		129.4 [5.09]	50.3 [1.98]	23.7 [0.93]	●					
	DLB-08-T	14	●		142.1 [5.59]	62.7 [2.47]	23.7 [0.93]	●					
	DLB-10-T, A	15	●		237.4 [9.35]	88.6 [3.49]	31.6 [1.24]	●	●				
	DLB-12-T, A	15	●		253.6 [9.98]	101.2 [3.98]	42.1 [1.66]	●	●	●			
	DLB-16-T, A	15	●		272.6 [10.73]	120.3 [4.74]	42.1 [1.66]	●	●	●			
	DLB-10-N	16	●		236.8 [9.07]	88.6 [3.49]	31.6 [1.24]	●	●				
	DLB-12-N	16	●		249.5 [9.57]	101.2 [3.98]	42.1 [1.66]	●	●	●			
	DLB-16-N	16	●		268.5 [10.32]	120.3 [4.74]	42.1 [1.66]	●	●	●			
	DLB-20-T, A	17	●		315.5 [12.42]	164.6 [6.48]	56.8 [2.24]	●	●	●	●		
	DLB-25-T, A	17	●		351.5 [13.84]	190 [7.48]	56.8 [2.24]	●	●	●	●		
	DLB-20-N	18	●		337.3 [13.28]	164.6 [6.48]	56.8 [2.24]	●	●	●	●		
	DLB-25-N	18	●		373.3 [14.70]	190 [7.48]	56.8 [2.24]	●	●	●	●	●	


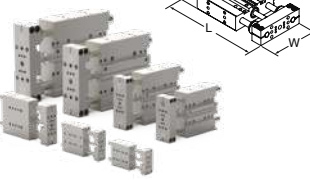
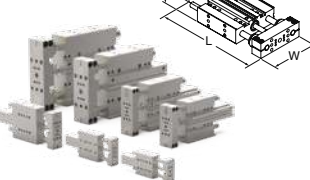
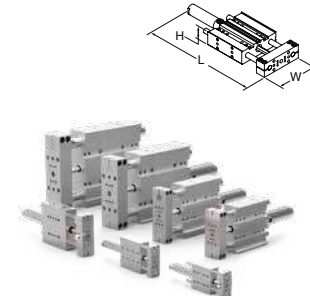
# LINEAR SLIDES

## Sizing and Application Chart

Maximum Stroke mm [in]	Maximum Payload Kg [lbs]	Operating Pressure bar [psi]	Cylinder Type	Bearings	Features
0-50.8 [0-2]	0-10 [0-5]	100 [7]	Internal (Repairable)	Preloaded Ball Bushing	Inductive Sensors
50.8-102 [2-4]	10-25 [5-11]	20-100 [1.4-7]	External (Replaceable)	Composite Bushing	Magneto Resistive Sensors
102-152 [4-6]	25-50 [11-23]	22-100 [1.7-7]	External (Replaceable) with Air Cushions	Roller Bearing	Shock Absorbers
152-203 [6-8]	50-100 [23-45]		External (NFPA/VDMA) Repairable with Air Cushions	Bronze Bushing	Bumpers and Collars
203-254 [8-10]	100-150 [45-68]				Independent End Stops
254-305 [10-12]	150+ [68+]				Telescopic Airlines
305-356 [12-14]					
356-406 [14-16]					
406-457 [16-18]					
457-508 [18-20]					
508-558 [20-22]					
558-610 [22-24]					
610+ [24+]					
<b>Base Slide-Internal Air Cylinder</b>					
0-50.8 [0-2]	0-10 [0-5]	100 [7]	Internal (Repairable)	Preloaded Ball Bushing	Inductive Sensors
50.8-102 [2-4]	10-25 [5-11]	20-100 [1.4-7]	External (Replaceable)	Composite Bushing	Magneto Resistive Sensors
102-152 [4-6]	25-50 [11-23]	22-100 [1.7-7]	External (Replaceable) with Air Cushions	Roller Bearing	Shock Absorbers
152-203 [6-8]	50-100 [23-45]		External (NFPA/VDMA) Repairable with Air Cushions	Bronze Bushing	Bumpers and Collars
203-254 [8-10]	100-150 [45-68]				Independent End Stops
254-305 [10-12]	150+ [68+]				Telescopic Airlines
305-356 [12-14]					
356-406 [14-16]					
406-457 [16-18]					
457-508 [18-20]					
508-558 [20-22]					
558-610 [22-24]					
610+ [24+]					
<b>Base Slide-Internal Air Cylinder-Long Stroke</b>					
0-50.8 [0-2]	0-10 [0-5]	100 [7]	Internal (Repairable)	Preloaded Ball Bushing	Inductive Sensors
50.8-102 [2-4]	10-25 [5-11]	20-100 [1.4-7]	External (Replaceable)	Composite Bushing	Magneto Resistive Sensors
102-152 [4-6]	25-50 [11-23]	22-100 [1.7-7]	External (Replaceable) with Air Cushions	Roller Bearing	Shock Absorbers
152-203 [6-8]	50-100 [23-45]		External (NFPA/VDMA) Repairable with Air Cushions	Bronze Bushing	Bumpers and Collars
203-254 [8-10]	100-150 [45-68]				Independent End Stops
254-305 [10-12]	150+ [68+]				Telescopic Airlines
305-356 [12-14]					
356-406 [14-16]					
406-457 [16-18]					
457-508 [18-20]					
508-558 [20-22]					
558-610 [22-24]					
610+ [24+]					
<b>Linear Thruster Slide-External Air Cylinder</b>					
0-50.8 [0-2]	0-10 [0-5]	100 [7]	Internal (Repairable)	Preloaded Ball Bushing	Inductive Sensors
50.8-102 [2-4]	10-25 [5-11]	20-100 [1.4-7]	External (Replaceable)	Composite Bushing	Magneto Resistive Sensors
102-152 [4-6]	25-50 [11-23]	22-100 [1.7-7]	External (Replaceable) with Air Cushions	Roller Bearing	Shock Absorbers
152-203 [6-8]	50-100 [23-45]		External (NFPA/VDMA) Repairable with Air Cushions	Bronze Bushing	Bumpers and Collars
203-254 [8-10]	100-150 [45-68]				Independent End Stops
254-305 [10-12]	150+ [68+]				Telescopic Airlines
305-356 [12-14]					
356-406 [14-16]					
406-457 [16-18]					
457-508 [18-20]					
508-558 [20-22]					
558-610 [22-24]					
610+ [24+]					

# LINEAR SLIDES

## Sizing and Application Chart

Series	Page #	Slide Type			Basic Unit Dimensions mm [in]			Maximum Thrust Force N [lbs]					
		Base Slide	Thrust Slide	Lift/Block Thruster	Length + Stroke	Width	Height	0-111 [0-25]	111-223 [25-50]	223-445 [50-100]	445-678 [100-150]	678-890 [150-200]	890-1335 [200-300]
<b>Linear Thruster Slide—Internal Cylinder</b>													
<b>GR-LIN-#</b>													
<b>Block Style</b> 	<b>DLT-06M-B</b>	22	●	●	70.7 [2.78]	50.8 [2.00]	22.4 [0.88]	●					
	<b>DLT-08M-B</b>	22	●	●	83.4 [3.28]	63.5 [2.50]	22.4 [0.88]	●					
	<b>DLT-10M-B</b>	25	●	●	122.3 [4.81]	88.9 [3.50]	30.2 [1.19]	●	●				
	<b>DLT-12M-B</b>	25	●	●	135 [5.31]	101.6 [4.00]	41.4 [1.63]	●	●	●			
	<b>DLT-16M-B</b>	25	●	●	155.6 [6.13]	120.7 [4.75]	41.4 [1.63]	●	●	●			
	<b>DLT-20M-B</b>	28	●	●	214.9 [8.46]	165.1 [6.50]	55.9 [2.20]	●	●	●	●		
	<b>DLT-25M-B</b>	28	●	●	245.6 [9.67]	190.5 [7.50]	55.9 [2.20]	●	●	●	●		
<b>Linear Thruster Slide—Internal Cylinder</b>													
<b>GR-LIN-#</b>													
<b>Extended Stroke</b> 	<b>DLT-06M-E</b>	23	●		87.5 [3.44]	50.8 [2.00]	22.4 [0.88]	●					
	<b>DLT-08M-E</b>	23	●		93.8 [3.69]	63.5 [2.50]	22.4 [0.88]	●					
	<b>DLT-10M-E</b>	26	●		143.1 [5.63]	88.9 [3.50]	30.2 [1.19]	●	●				
	<b>DLT-12M-E</b>	26	●		155.8 [6.13]	101.6 [4.00]	41.4 [1.63]	●	●	●			
	<b>DLT-16M-E</b>	26	●		174.9 [6.89]	120.7 [4.75]	41.4 [1.63]	●	●	●			
	<b>DLT-20M-E</b>	29	●		239.3 [9.42]	165.1 [6.50]	55.9 [2.20]	●	●	●	●		
	<b>DLT-25M-E</b>	29	●		275.3 [10.84]	190.5 [7.50]	55.9 [2.20]	●	●	●	●		
<b>Linear Thruster Slide—Internal Cylinder</b>													
<b>GR-LIN-#</b>													
<b>Long Body</b> 	<b>DLT-06M-L</b>	24	●		115.1 [4.53]	50.8 [2.00]	22.4 [0.88]	●					
	<b>DLT-08M-L</b>	24	●		127.8 [5.03]	63.5 [2.50]	22.4 [0.88]	●					
	<b>DLT-10M-L</b>	27	●		173.1 [6.81]	88.9 [3.50]	30.2 [1.19]	●	●				
	<b>DLT-12M-L</b>	27	●		198.5 [7.81]	101.6 [4.00]	41.4 [1.63]	●	●	●			
	<b>DLT-16M-L</b>	27	●		225.5 [8.88]	120.7 [4.75]	41.4 [1.63]	●	●	●			
	<b>DLT-20M-L</b>	30	●		271.8 [10.70]	165.1 [6.50]	55.9 [2.20]	●	●	●	●		
	<b>DLT-25M-L</b>	30	●		297.2 [11.70]	190.5 [7.50]	55.9 [2.20]	●	●	●	●		
<b>Linear Thruster Slide—External Cylinder</b>													
<b>GR-LIN-#</b>													
	<b>DLT-06-T</b>	34	●		125.6 [4.94]	50.8 [2.00]	22.4 [0.88]	●					
	<b>DLT-08-T</b>	34	●		138.3 [5.44]	63.5 [2.50]	22.4 [0.88]	●					
	<b>DLT-10-T, A</b>	35	●		210.3 [8.28]	88.9 [3.50]	30.2 [1.19]	●	●				
	<b>DLT-12-T, A</b>	35	●		226.5 [8.92]	101.6 [4.00]	41.4 [1.63]	●	●	●			
	<b>DLT-16-T, A</b>	35	●		247.1 [9.73]	120.7 [4.75]	41.4 [1.63]	●	●	●			
	<b>DLT-10-N</b>	36	●		209.7 [8.25]	88.9 [3.50]	30.2 [1.19]	●	●				
	<b>DLT-12-N</b>	36	●		222.4 [8.75]	101.6 [4.00]	41.4 [1.63]	●	●	●			
	<b>DLT-16-N</b>	36	●		243.0 [9.57]	120.7 [4.75]	41.4 [1.63]	●	●	●			
	<b>DLT-20-T, A</b>	37	●		322.6 [12.70]	165.1 [6.50]	55.9 [2.20]	●	●	●	●		
	<b>DLT-25-T, A</b>	37	●		353.3 [13.91]	190.5 [7.50]	55.9 [2.20]	●	●	●	●		
	<b>DLT-20-N</b>	38	●		322.6 [12.70]	165.1 [6.50]	55.9 [2.20]	●	●	●	●		
	<b>DLT-25-N</b>	38	●		353.3 [13.91]	190.5 [7.50]	55.9 [2.20]	●	●	●	●		

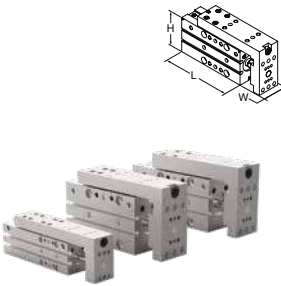
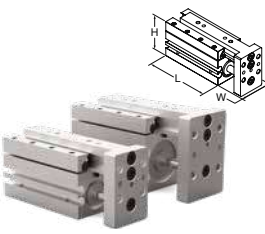
# LINEAR SLIDES

## Sizing and Application Chart

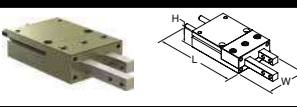
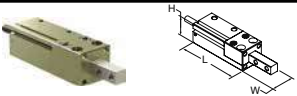
Maximum Stroke mm [in]	Maximum Payload Kg [lbs]	Operating Pressure bar [psi]	Cylinder Type	Bearings	Features
0-50.8 [0-2] 50.8-102 [2-4] 102-152 [4-6] 152-203 [6-8] 203-254 [8-10] 254-305 [10-12] 305-356 [12-14] 356-406 [14-16] 406-457 [16-18] 457-508 [18-20] 508-558 [20-22] 558-610 [22-24] 610+ [24+]	0-10 [0-5] 10-25 [5-11] 25-50 [11-23] 50-100 [23-45] 100-150 [45-68] 150+ [68+]	100 [7] 20-100 [1.4-7] 22-100 [1.7-7]	Internal (Repairable) External (Replaceable) External (Replaceable) with Air Cushions External (NFPA/VDMA) Repairable with Air Cushions	Preloaded Ball Bushing Composite Bushing Roller Bearing Bronze Bushing	Inductive Sensors Magneto Resistive Sensors Shock Absorbers Bumpers and Collars Independent End Stops Telescopic Airlines
<b>Linear Thruster Slide-Internal Air Cylinder-Block Style</b>					
<b>Linear Thruster Slide-Internal Air Cylinder-Extended Stroke</b>					
<b>Linear Thruster Slide-Internal Air Cylinder-Long Body</b>					
<b>Linear Thruster Slide-External Air Cylinder</b>					

# LINEAR SLIDES

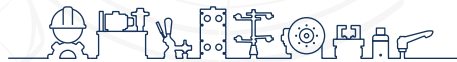
## Sizing and Application Chart

Series	Page #	Slide Type	Basic Unit Dimensions mm [in]			Maximum Thrust Force N [lbs]						
			Length	Width	Height	0-111 [0-25]	111-223 [25-50]	223-445 [50-100]	445-678 [100-150]	678-890 [150-200]	890-1335 [200-300]	1335+ [300+]
<b>Miniature Rail Thruster Slide</b>												
<b>GR-LIN-#</b>												
	DLM-07M-12	43	●	78 [3.07]	21 [0.83]	35.5 [1.40]	●					
	DLM-07M-25	43	●	102 [4.02]	21 [0.83]	35.5 [1.40]	●					
	DLM-07M-38	43	●	115 [4.53]	21 [0.83]	35.5 [1.40]	●					
	DLM-07M-50	43	●	127 [5.00]	21 [0.83]	35.5 [1.40]	●					
	DLM-09M-25	44	●	113 [4.45]	32 [1.26]	62 [2.44]	●	●				
	DLM-09M-50	44	●	159 [6.26]	32 [1.26]	62 [2.44]	●	●				
	DLM-09M-75	44	●	184 [7.24]	32 [1.26]	62 [2.44]	●	●				
	DLM-09M-100	44	●	209 [8.23]	32 [1.26]	62 [2.44]	●	●				
	DLM-12M-50	45	●	122 [4.96]	32 [1.26]	65 [2.56]	●	●	●			
	DLM-12M-75	45	●	166 [6.54]	32 [1.26]	65 [2.56]	●	●	●			
DLM-12M-50	45	●	193 [7.60]	32 [1.26]	65 [2.56]	●	●	●				
DLM-12M-100	45	●	218 [8.58]	32 [1.26]	65 [2.56]	●	●	●				
	MPS-1M-1	49	●	46 [1.81]	20.6 [0.81]	31.8 [1.25]	●					
	MPS-1M-2	49	●	63.4 [2.50]	20.6 [0.81]	31.8 [1.25]	●					
	MPS-1M-3	49	●	88.9 [3.50]	20.6 [0.81]	31.8 [1.25]	●					
	MPS-1M-4	49	●	113 [4.45]	20.6 [0.81]	31.8 [1.25]	●					
	MPS-2M-1	50	●	46 [1.81]	27 [1.06]	39.7 [1.56]	●	●				
	MPS-2M-2	50	●	64.4 [2.54]	27 [1.06]	39.7 [1.56]	●	●				
	MPS-2M-3	50	●	88.9 [3.50]	27 [1.06]	39.7 [1.56]	●	●				
	MPS-2M-4	50	●	113 [4.45]	27 [1.06]	39.7 [1.56]	●	●				

# FEED ESCAPEMENTS

Series	Page #	Shaft	Basic Unit Dimensions mm [in]			Max. Thrust Force N [lbs]	Maximum Stroke mm [in]	Operating Pressure bar [psi]	Cylinder Type	Features				
			Length	Width	Height					Internal (Repairable)	Hall Effect Sensors	Non-rotating Shaft	Fail Safe Locking Fingers	Adjustable Retract
<b>Feed Escapements</b>														
<b>GR-ESC-#</b>														
	RFE-1M	4	●	117 [4.59]	38.1 [1.50]	19.1 [0.75]	●		●	●	✓	✓	✓	✓
	RFE-2M	5	●	162 [6.39]	57.2 [2.25]	24.9 [0.98]	●		●	●	✓	✓	✓	✓
	RFE-3M	6	●	197 [7.74]	69.9 [2.75]	34.5 [1.36]	●		●	●	✓	✓	✓	✓
	RN-1M	8	●	116 [4.59]	22.2 [0.88]	19.1 [0.75]	●		●	●	✓	✓	✓	✓
	RN-2M	9	●	161 [6.34]	28.6 [1.13]	24.9 [0.98]	●		●	●	✓	✓	✓	✓
	RN-2M	10	●	195 [7.70]	34.9 [1.38]	34.5 [1.36]	●		●	●	✓	✓	✓	✓





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