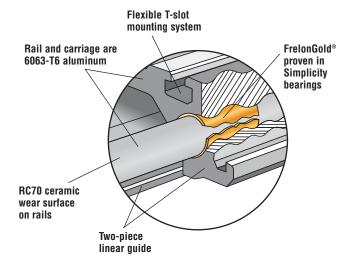


- Based on proven Simplicity® linear bearing technology
- · Two-piece assembly eliminates tolerance stack up
- · No metal-to-metal contact
- Dampens vibration and shock loads
- FrelonGOLD® bearing material is self-lubricating
- RC70 ceramic coating withstands contamination
- Lightweight
- · Easy to install
- Integrated packages can drop into existing applications
- Plug and Play controls



THREE SIMPLE OPTIONS MAKE SELECTION EASY...



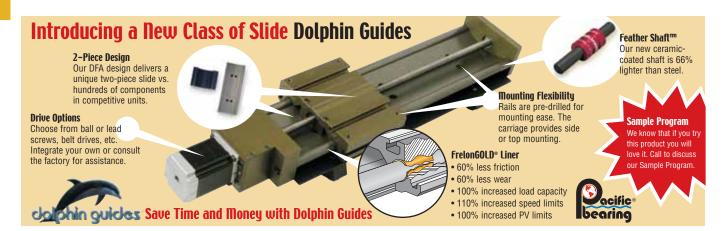
Carriages with standard length rails or cut-to-length rails. Install your own choice of drive mechanisms.



Lead screw driven carriage with standard length rail is ready to drop into your existing application.



Lead screw driven package including motor and drive providing plug-n-play linear motion.

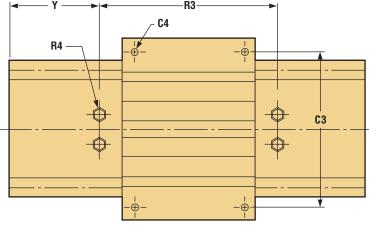


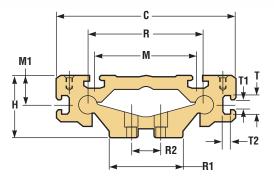


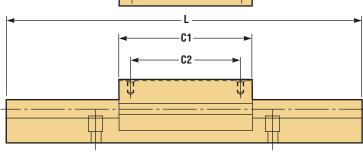
GUIDES® • Standard Length or Cut-to-Length Rail & **Carriage Assemblies**











STANDARD INCH SERIES DOLPHIN GUIDE WITH NO DRIVE MECHANISM (Dimensions in Inches)

PART NO.	R	R1	R2	R3	R4 BOLT SIZE	Υ	Н	C	C1 Standard	C2 Standard	C1 Extended	C2 Extended	C3	C4 BOLT SIZE	М	M1	L MAX-FEET
D075-xxx	2.95	2	0.75	4	1/4	2	1.625	4.6	3.5	3	4.5	4	4	10-32	2.6	.819	12'
D100-xxx	3.94	2.6	1	6	5/16	3	2.125	6.1	4.5	3.75	6	5.25	5.25	1/4-20	3.5	1.02	12'
D125-xxx	4.92	3.3	1.25	6	3/8	3	2.625	7.6	6	5.25	7.5	6.75	6.75	5/16-18	4.33	1.30	12'

T-SLOT INFORMATION (Inches)

PART NO.	Т	T1	T2
D075-xxx	.590	.256	.236
D100-xxx	.661	.319	.268
D125-xxx	.661	.319	.268

METRIC SERIES DOLPHIN GUIDE WITH NO DRIVE MECHANISM (Dimensions in mm)

PART NO.	R	R1	R2	R3	R4 BOLT SIZE	Υ	н	С	C1 STANDARD	C2 STANDARD	C1	C2 EXTENDED	C3	C4 BOLT SIZE	M	M1	L MAX-METER
TAITI NO.					DULI SIZE				SIANDAILD	SIANDAILD	LAILINDLD	LAILINDLD		DULI SIZE		_	IMAX-IMETER
DM075-xxx	75	51	20	120	M 6	60	41.3	117	85	73	110	98	105	M 5	66	16.5	3.66m
DM100-xxx	100	66	25	150	M 8	75	54	155	115	95	150	130	135	M 6	89	26	3.66m
DM125-xxx	125	84	30	200	M 10	100	66.7	193	150	130	190	170	175	M 8	110	33	3.66m

T-SLOT INFORMATION (mm)

	_		-	
PART NO.	Т	T1	T2	
DM075-xxx	15.0	6.5	6.0	
DM100-xxx	16.8	8.1	6.8	
DM125-xxx	16.8	8.1	6.8	

STANDARD LENGTHS CHART (Dimensions in Inches)

PART NO.	8"	12"	16"	18"	20"	24"	28"	30"	32"	36"	40"	42"	48"
D075-xxx	Χ	Х	Χ		Χ	Χ	Х		Χ	Χ	Х		Χ
D100-xxx		Χ		Χ		Χ		Χ		Χ		Χ	Χ
D125-xxx		Х		Х		Χ		Χ		Χ		Χ	Χ

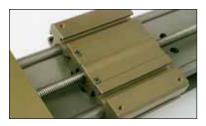
WEIGHTS

	RAIL PER INCH	STANDARD Carriage	EXTENEDED CARRIAGE
PART NO.	(LBS.)	(LBS.)	(LBS.)
D075-xxx	0.19	0.98	1.26
D100-xxx	0.32	2.12	2.82
D125-xxx	0.48	4.56	5.7



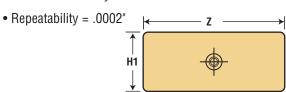
DOLPHIN GUIDES®

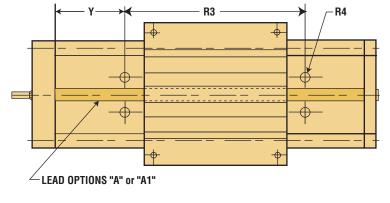
GUIDES® • Standard Length Lead Screw Driven Guides

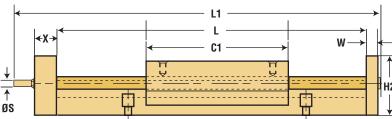


Standard Lead Screw Specifications:

- Right Hand Rolled Thread
- 303 Stainless Steel with TFE Coating
- · Self-lubricating Polyacetal, Anti-Backlash Nut
- Standard Accuracy = .0072 in./ft.





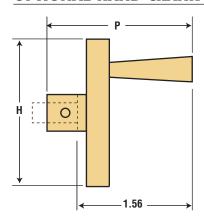


REFER TO PAGE 13 FOR DIMENSIONS NOT SHOWN. CALL THE FACTORY FOR NON-STANDARD LENGTHS.

	_					Α	A1									
PART NO.	Stroke (L-C1)	L	L1	C1	Nominal Screw Dia.	Standard Lead	Optional Lead	s	Y	R3	R4	w	х	Z	H1	H2
D075xx-12	8.5	12	13.93	3.5	3/8"	0.250	0.500	0.187	2	4	1/4	0.375	0.625	3.42	1.75	1.625
D075xx-16	12.5	16	17.93	3.5	3/8"	0.250	0.500	0.187	2	4	1/4	0.375	0.625	3.42	1.75	1.625
D075xx-20	16.5	20	21.93	3.5	3/8"	0.250	0.500	0.187	2	4	1/4	0.375	0.625	3.42	1.75	1.625
D075xx-24	20.5	24	25.93	3.5	3/8"	0.250	0.500	0.187	2	4	1/4	0.375	0.625	3.42	1.75	1.625
D100xx-12	7.5	12	14.61	4.5	1/2"	0.250	0.500	0.314	3	6	5/16	0.5	1	4.56	2.5	2.500
D100xx-18	13.5	18	20.61	4.5	1/2"	0.250	0.500	0.314	3	6	5/16	0.5	1	4.56	2.5	2.500
D100xx-24	19.5	24	26.61	4.5	1/2"	0.250	0.500	0.314	3	6	5/16	0.5	1	4.56	2.5	2.500
D100xx-30	25.5	30	32.61	4.5	1/2"	0.250	0.500	0.314	3	6	5/16	0.5	1	4.56	2.5	2.500
D125xx-12	6	12	14.85	6	5/8"	0.250	0.500	0.314	3	6	3/8	0.5	1	5.78	3.5	2.500
D125xx-18	12	18	20.85	6	5/8"	0.250	0.500	0.314	3	6	3/8	0.5	1	5.78	3.5	2.500
D125xx-24	18	24	26.85	6	5/8"	0.250	0.500	0.314	3	6	3/8	0.5	1	5.78	3.5	2.500
D125xx-30	24	30	32.85	6	5/8"	0.250	0.500	0.314	3	6	3/8	0.5	1	5.78	3.5	2.500
D125xx-36	30	36	38.85	6	5/8"	0.250	0.500	0.314	3	6	3/8	0.5	1	5.78	3.5	2.500

"xx" - Insert lead screw selection in Part Number. Example: D100A-18

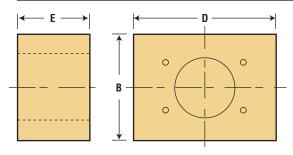
OPTIONAL HAND CRANK



PART NO.	P	Н
75H	2.31	1.75
100H	2.31	2.25
125H	2.31	3.25

To integrate with option #2 on page 10, see order codes on page 14.

OPTIONAL MOTOR MOUNT ATTACHMENT



PART NO.	MOTOR MOUNT	В	E	D
75N	NEMA 17	2	1.81	3.25
100N	NEMA 23	2.5	1.81	3.25
125N	NEMA 34	3.5	2.30	4.25

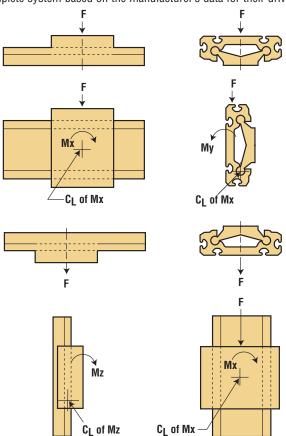
To integrate with option #2 or #3 on page 10, see order codes on page 14.

DOLPHIN GUIDES® • Load & Speed Data



STATIC LOADS WITH NO DRIVE MECHANISM

The numbers below are for guides only in a static condition. The drive mechanism selected (lead screw, ball screw, cylinder, etc.) becomes the limiting factor when calculating maximum load and speed capacities. The user is responsible for determining the maximum capacity for the complete system based on the manufacturer's data for their drive configuration.



	F Max load	Mx	Mv
SIZE	(LBS.)	(IN-LBS.)	(IN-LBS.)
D075	250	340	350
D100	375	650	730
D125	500	1,200	1,225

SI7F

D075

D100

D125

MAX LOAD

(LBS.)

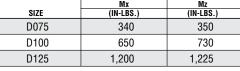
500

750

1,000

SIZE	F MAX LOAD (LBS.)
D075	125
D100	190
D125	250

	Mx	Mz
SIZE	(IN-LBS.)	(IN-LBS.)
D075	340	350
D100	650	730
D125	1,200	1,225



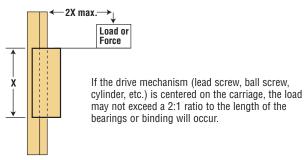
Designs must also operate within the following dynamic parameters:

- Maximum Loads (P) = from charts above
- Maximum Speed Dry (V) = 300 ft./min.
- Maximum PV (pressure x velocity) = 20,000
- PV Example: Load = 85 psi

Speed = 180 ft./min.

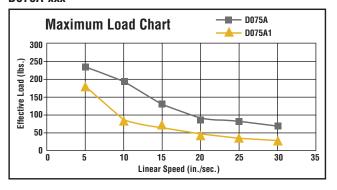
PV = 85 x 180 = 15,300 PV

NOTE: FrelonGold® bearing material coefficient of friction is 0.125.

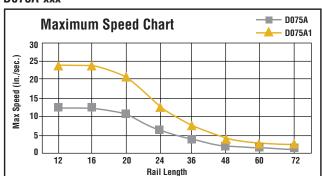


LOAD & SPEED DATA FOR STANDARD LEAD SCREW DRIVEN DOLPHIN GUIDES (Horizontal Orientation)

D075A-xxx



D075A-xxx

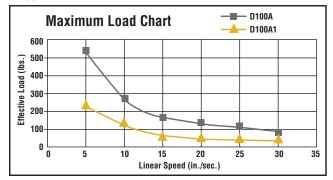




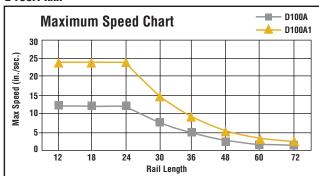
LOAD & SPEED DATA FOR STANDARD LEAD SCREW DRIVEN DOLPHIN GUIDES

(Horizontal Orientation)

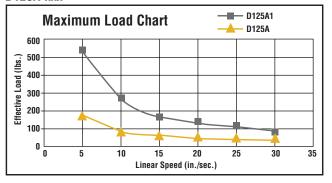
D100A-xxx



D100A-xxx



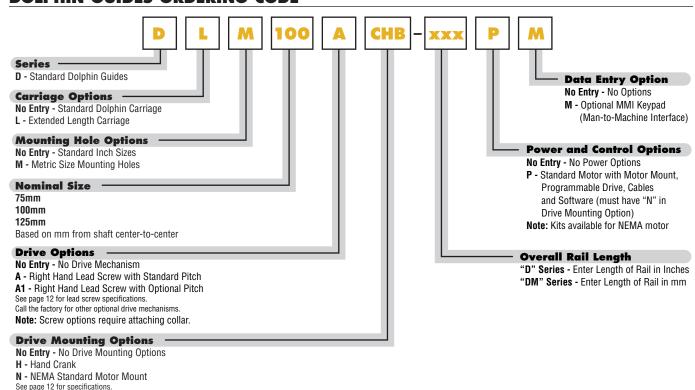
D125A-xxx



D125A-xxx



DOLPHIN GUIDES ORDERING CODE



HB - Handbrake (requires handcrank and screw)

CHB - Carriage Handbrake (not offered with screw driven options)