ELECTRIC CYLINDERS

DD & RAD CYLINDER CHARACTERISTICS DEFINED



These definitions/descriptions are for the Product Specifications listed on the Electric Cylinder pages. Additional technical information on the preceding pages is designed to help in selecting the cylinder that is best for the application. For additional assistance please contact Nook Industries.

DD & RAD CYLINDERS

Model Type and Number See page 389 for reference number configuration information.

	Travel I	Rate Mea	sured in ir	nches per mi	nute at full dy	namic load	d.		
		Dynami	c Capac	ity Measure	d in pounds.				
			Rated L screw cyli	ife Measure inder only dy	d in millions c namic capac	of inches (b ity.	all screw mo	dels only). Based on	the ball
				Standard motor infor	Motor HP mation.	Rating Se	e page 377 f	or additional	
					Standard B	rake Tor	que Measure	d in (pound-feet).	
						Approxin used when distances loads mov guides ma SHOULD I EXCEED T	mate Stopp n initially settin are approxim red at high sp ay affect stopp BE EVALUATE THE UNITS D	ing Distance The ng the limit switches ate. Large inertia for eed supported on a bing distance. INER ED TO BE SURE IT E YNAMIC CAPACITY.	se values are . Stopping ces, such as nti-friction TIAL LOADS DOES NOT
							M. To dy be lov	ax Rod Reaction brque Based on full namic load. Torque proportionally lower wer loads.	will r for
								Basic Weigh specific units f These weights include motor	nt See or weight. do not weight.
RAD-25 BALL	SCREW	MODELS							
MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC CAPACITY [lb.]	RATED LIFE [in. x 10 ⁶]	STD. MOTOR HP RATING [ref.]	STD. BRAKE Torque [ftib.]	APPROX. DISTAN No Load	STOPPING NCE [in.] Full Load	MAXIMUM ROD Reaction torque [inlb.]	BASIC WEIGHT [lbs.]
RAD-2566-HL / 10XX RAD-2562-HL / 10XX	48	3,550	.22	$\underbrace{1}_{1}$	6	.08	.08	<u>628</u> 885	46

RAD-2566-ML / 05XX

RAD-2562-HD / 03XX

RAD-2546-HD / 02XX

5.000

5,000

5,000

.33

.03

.03

.5

.33

.25

24

6

3

.014

.007

.003

.014

.007

.003

46

46

46

443

221

221

3

3

3



DD & RAD LENGTH NOTATION & ILA CYLINDER CHARACTERISTICS DEFINED



DD & RAD CYLINDERS CONTINUED

Length Notation to determine standard extended and retracted length use the formula for each specific model/capacity. For special retracted lengths please contact Nook. WARNING! Any change to standard lengths may compromise the cylinder's compression load carrying capacity.



ILA CYLINDERS

Model Type and Number See page 402 for reference number configuration information.

Max Load Thrust capacity Measured in pounds.

Max Input Torque Measured in (inch-pounds)

Max Travel Rate Measured in inches per minute

Ball Screw See individual ball screw page for screw specifications. Lead accuracy of 0.004"/ft.

Torque Per Ib. Torque, in inch-pounds, required to generate one pound of output force. This is also the rod reaction torque.

* DIMENSION BASED ON MOTOR MOUNT, contact factory with your specific requirements.

LA-25 & ILAK-2	5 BALL SCF	REW MODEL	S						
		MAX. INPUT	MAX. TR/	VEL) EW	TORQUE	DIMENSIONS		
MODEL NOMBER	[Ib.]	[inlb.]	In./mir	.]	1EW	[inlb.]	A	В	
(ILA-25 HL)	2,200	(390)	3,000	1000-1000	SRT	0.177	3.00	1.50	
ILA-25-ML	3,500	308	1,500	1000-0500	SRT	0.088	3.00	1.50	
ILA-25-HD	3,500	154	750	1000-0250) SRT	0.035	3.00	1.50	
ILAK-25 HL (Keyed)	2,200	390	3,000	1000-1000) SRT	0.177	4.00	1.25	
ILAK-25-ML (Keyed)	3,500	308	1,500	1000-0500	SRT	0.088	4.00	1.25	
ILAK-25-HD (Keyed)	3,500	154	750	1000-0250) SRT	0.035	4.00	1.25	

ROD REACTION TORQUE = TORQUE PER LB. x LOAD **NOTE:** CYLINDER IS SELF-LOWERING. INPUT SHAFT MUST BE SECURED TO PREVENT ROTATION.



ACTIONJAC™ ELECTRIC CYLINDERS

ActionJac[™] Electric Cylinders are ruggedly designed and produced in standard models with thrust capacities from 500 lbs. to 40,000 lbs. Electric Cylinders are intended for use in industrial environments and feature ground and hard chrome plated actuator tubes with epoxy paint on exterior surfaces. Electric Cylinders can be supplied for outdoor applications.

These cylinders may be used individually or in multiple arrangements. Each ActionJac[™] Electric Cylinder is built to specification.

ACCESSORIES

Accessories such as motors, motor mounts, encoders, hand wheels, counters, couplings, miter gear boxes, boots, limit switches, clevises, clevis pins and clevis brackets are available.





NOTE: NOT ALL OPTIONS AVAILABLE FOR ALL SIZES



MOTOR MOUNT IS SHOWN IN POSITION 1 Motor may be mounted to either side of cylinder (see page 376)

ELECTRIC

CYLINDERS



DD-5 BALL	SCREW	MODELS
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MODEL NUMBER	DYNAMIC Capacity [Ib.]	RATED LIFE [in. x 10 ⁶]	MAX. MOTOR HP RATING [ref.]	MAXIMUM ROD REACTION TORQUE [inlb.]	BASIC WEIGHT [lbs.]							
DD-55-HL / T03	1,000	6.9	.33	89	12							
DD-520-HL / T06	1,000	4.1	.16	89	12							
DD-55-HD / T03	1,000	.47	.33	35	12							
DD-520-HD / T06	1,000	.47	.16	35	12							

DD-5 ACME SCREW MODELS												
MODEL NUMBER	DYNAMIC Capacity [lbf.]	STD. MOTOR HP RATING [ref.]*	MAXIMUM ROD Reaction torque [inlb.]	BASIC WEIGHT [lbs.]								
DD-55-A5 / T03	1,000	.33	72	11								
DD-55-A8 / T03	1,000	.33	58	11								
DD-55-A10 / T03	1,000	.33	53	11								
DD-520-A5 / T06	1,000	.16	72	11								
DD-520-A8 / T06	1,000	.16	58	11								
DD-520-A10 / T06	1,000	.16	53	11								

*no brake

BALL SCREW MODELS:

TOTAL WEIGHT = (0.65)T + BASICWEIGHT, where T = TRAVEL IN INCHES

ACME SCREW MODELS: TOTAL WEIGHT = (0.64)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

WARNING! UNITS ARE NOT TO BE USED AS PERSONNEL SUPPORT OR MOVEMENT. BALL SCREW MODELS ARE SELF-LOWERING.









RETRACTED BALL SCREW LENGTH = 10.75 + (Travel x 1.25) RETRACTED ACME SCREW LENGTH = 8.25 + (Travel x 1.25)

LENGTH NOTATION

DD-10 BALL SCREW MODELS												
MODEL NUMBER	TRAVEL RATE	DYNAMIC RATED Capacity Life		STD. MOTOR HP RATING	STD. BRAKE Torque	APPROX. STOPPING DISTANCE [in.]		MAXIMUM ROD Reaction torque	BASIC Weight			
	[in./min.]	[lb.]	[in. x 10 ⁶]	[ref.]	[ftlb.]	No Load	Full Load	[inlb.]	[lbs.]			
DD-105-HL / 05XX	173	750	46	.50	3	.20	.38	67	19			
DD-1020-HL / 02XX	43	800	39	.25	3	.80	.15	71	19			
DD-105-HD / 05XX	69	1900	.19	.50	3	.05	.06	67	19			
DD-1020-HD / 02XX	17	2000	.17	.25	3	.02	.02	71	19			

DD-10 ACME SCREW MODELS											
MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC Capacity [Ibf.]	STD. MOTOR HP RATING [ref.]	STD. BRAKE Torque [ftlb.]	APPROX. STOPPING Distance [in.] No load	MAXIMUM ROD REACTION TORQUE [inlb.]	BASIC WEIGHT [Ibs.]				
DD-105-A5 / 05XX	69	850	.50	3	.08	79	15				
DD-1020-A5 / 02XX	17	900	.25	3	.02	84	15				



1.81

4.53



BALL SCREW MODELS:

TOTAL WEIGHT = (0.77)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

ACME SCREW MODELS: TOTAL WEIGHT = (0.76)T + BASIC

WEIGHT, where T = TRAVEL IN INCHES

WARNING! UNITS ARE NOT TO BE USED AS PERSONNEL SUPPORT OR MOVEMENT. BALL SCREW MODELS ARE SELF-LOWERING.

ELECTRIC

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CYLINDERS

The specifications and data in this publication are believed to be accurate and reliable. However, it is the responsibility of the product user to determine the suitability of Nock industries products for a specific application. While defective products will be replaced without charge if promptly returned, no liability is assumed beyond such replacement.

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DD-25 BALL SCREW MODELS												
MODEL NUMBER	TRAVEL RATE	DYNAMIC CAPACITY	RATED LIFE	STD. MOTOR HP RATING	STD. BRAKE Torque	APPROX. DISTAN	STOPPING ICE [in.] Full Load	MAXIMUM ROD Reaction torque	BASIC WEIGHT			
	000	000	10.5	[[6].]	[[[.]]	NO LOQU	14	[IIIIU.]	[103.]			
DD-256-HL / 10XX	200	900	13.5		6	.26	.44	159	33			
DD-256-HL / 20XX	288	1,800	1.69	2	10	.43	.74	318	33			
DD-2512-HL / 10XX	144	1,500	2.91	1	6	.25	.35	265	33			
DD-256-ML / 15XX	144	1,800	7	1.5	6	.25	.43	159	33			
DD-256-ML / 20XX	144	3,600	.9	2	10	.21	.42	318	33			
DD-256-HD / 10XX	72	3,600	.09	1	6	.12	.21	159	33			
DD-256-HD / 07XX	72	2,000	4.1	.75	6	.06	.09	89	33			
DD-2512-HD / 07XX	36	4,450	.38	.75	6	.03	.04	197	33			
DD-2512-HD / 05XX	36	2,000	4.1	.5	3	.04	.06	89	33			
DD-2524-HD / 05XX	18	4,450	.38	.5	3	.02	.03	197	33			
DD-2524-HD / 03XX	18	1,500	9.9	.33	3	.02	.02	66	33			

DD-25 ACME SCREW MODELS

MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC Capacity [Ibf.]	STD. MOTOR HP RATING [ref.]	STD. BRAKE Torque [ftlb.]	APPROX. STOPPING Distance [in.] No load	MAXIMUM ROD Reaction torque [inIb.]	BASIC WEIGHT [lbs.]						
DD-256-A2 / 15XX	144	1,725	1.5	6	.30	240	30						
DD-256-A4 / 15XX	72	2,280	1.5	6	.15	239	30						
DD-2512-A4 / 07XX	36	1,900	.75	6	.06	197	30						
DD-2512-A4 / 10XX	36	2,500	1	6	.06	263	30						
DD-2524-A4 / 05XX	18	1,880	.5	3	.02	197	30						

Specifications on these charts are for standard units only and may change for modified non-standard units! For Actuators without motors see page 376 for product specifications

BALL SCREW MODELS: ACME SCREW MODELS: TOTAL WEIGHT = (1.05)T + BASIC WEIGHT, where T = TRAVEL IN INCHES TOTAL WEIGHT = (1.0)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

WARNING! UNITS ARE NOT TO BE USED AS PERSONNEL SUPPORT OR MOVEMENT. BALL SCREW MODELS ARE SELF-LOWERING.

ELECTRIC



Maximum Compression Load (lbs.)



SERIES RAD-25



RAD-25 BALL SCREW MODELS												
MODEL NUMBER	TRAVEL RATE	DYNAMIC Capacity	RATED LIFE	STD. MOTOR HP RATING	STD. BRAKE Torque	APPROX. Distan	STOPPING ICE [in.]	MAXIMUM ROD Reaction torque	BASIC WEIGHT			
	[in./min.]	[lb.]	[in. x 10 ⁶]	[ref.]	[ftlb.]	No Load	Full Load	[inlb.]	[lbs.]			
RAD-2566-HL / 10XX	48	3,550	.22	1	6	.08	.08	628	46			
RAD-2562-HL / 10XX	24	5,000	.08	1	6	.04	.04	885	46			
RAD-2566-ML / 05XX	24	5,000	.33	.5	3	.014	.014	443	46			
RAD-2562-HD / 03XX	6	5,000	.27	.33	3	.007	.007	221	46			
RAD-2546-HD / 03XX	3	5,000	.27	.25	3	.003	.003	221	46			

RAD-25 ACME S	RAD-25 ACME SCREW MODELS												
MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC Capacity [Ibf.]	STD. MOTOR HP RATING [ref.]	STD. BRAKE Torque [ftlb.]	APPROX. STOPPING DISTANCE [in.] NO LOAD	MAXIMUM ROD REACTION TORQUE [inlb.]	BASIC WEIGHT [lbs.]						
RAD-2566-A4 / 07XX	12	5,000	.75	6	.02	525	44						
RAD-2562-A4 / 05XX	6	5,000	.5	3	.005	525	44						
RAD-2546-A4 / 03XX	3	5,000	.33	3	.004	525	44						



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ALL SCREW MODELS:

TOTAL WEIGHT = (1.05)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

ACME SCREW MODELS:

TOTAL WEIGHT = (1.0)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

WARNING! UNITS ARE NOT TO BE USED AS PERSONNEL SUPPORT OR MOVEMENT. BALL SCREW MODELS ARE SELF-LOWERING.





DD-30 BALL SCREW MODELS													
TRAVEL RATE	DYNAMIC Capacity	RATED LIFE	STD. MOTOR HP RATING	STD. BRAKE Torque	APPROX. DISTAI	STOPPING NCE [in.]	MAXIMUM ROD REACTION TORQUE	BASIC WEIGHT					
[IN./MIN.]	[10.]	[IN. X IU°]	[ref.]	[ITID.]	NO LOAD	Full Load	[INID.]	[IDS.]					
120	3,275	1.68	1.5	6	.25	.83	239	38					
60	3,600	1.26	1.0	6	.10	.16	263	38					
60	2,500	3.78	.75	6	.05	.07	183	38					
30	2,700	3.00	.5	3	.03	.05	197	38					
	CREW M TRAVEL RATE [in./min.] 120 60 60 30	TRAVEL RATE [in./min.] Dynamic Capacity [b] 120 3,275 60 3,600 60 2,500 30 2,700	DYNAMIC RATE [in./min.] DYNAMIC CAPACITY [Ib.] RATED LIFE [in.x 10 ⁶] 120 3,275 1.68 60 3,600 1.26 60 2,500 3.78 30 2,700 3.00	TRAVEL RATE [in./min.] DYNAMIC CAPACITY [Ib.] RATED LIFE [in.x 10 ⁶] STD. MOTOR HP RATING [ref.] 120 3,275 1.68 1.5 60 3,600 1.26 1.0 60 2,500 3.78 .75 30 2,700 3.00 .5	TRAVEL RATE [in./min.] DYNAMIC CAPACITY [Ib.] RATED LIFE [in. x 10 ⁶] STD. MOTOR HP RATING [ref.] STD. BRAKE TORQUE [ftlb.] 120 3,275 1.68 1.5 6 60 3,600 1.26 1.0 6 60 2,500 3.78 .75 6 30 2,700 3.00 .5 3	TRAVEL RATE [in./min.] DYNAMIC CAPACITY [Ib.] RATED LIFE [in. x 10 ⁶] STD. MOTOR HP RATING [ref.] STD. BRAKE TORQUE [ftlb.] APPROX. DISTAL 120 3,275 1.68 1.5 6 .25 60 3,600 1.26 1.0 6 .10 60 2,500 3.78 .75 6 .05 30 2,700 3.00 .5 3 .03	TRAVEL RATE [in./min.] DYNAMIC CAPACITY [Ib.] RATED LIFE [in. x 10 ⁶] STD. MOTOR HP RATING [ref.] STD. BRAKE TORQUE [ftlb.] APPROX. STOPPING DISTANCE [in.] 120 3,275 1.68 1.5 6 .25 .83 60 3,600 1.26 1.0 6 .10 .16 60 2,500 3.78 .75 6 .05 .07 30 2,700 3.00 .5 3 .03 .05	REW MODELS TRAVEL RATE [in./min.] DYNAMIC CAPACITY [lb.] RATED LIFE [in. x 10 ⁶] STD. MOTOR HP RATING [ref.] STD. BRAKE TORQUE [ftlb.] APPROX. STOPPING DISTANCE [in.] MAXIMUM ROD REACTION TORQUE [inlb.] 120 3,275 1.68 1.5 6 .25 .83 239 60 3,600 1.26 1.0 6 .10 .16 263 60 2,500 3.78 .75 6 .05 .07 183 30 2,700 3.00 .5 3 .03 .05 197					

DD-30 ACME SCREW MODELS										
MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC Capacity [lbf.]	STD. MOTOR HP RATING [ref.]	STD. BRAKE Torque [ftIb.]	APPROX. STOPPING DISTANCE [in.] NO LOAD	MAXIMUM ROD Reaction torque [inlb.]	BASIC WEIGHT [lbs.]			
DD-306-A4 / 15XX	72	2,100	1.5	6	.15	240	33			
DD-3012-A4 / 10XX	36	2,200	1	6	.06	263	33			
DD-3024-A4 / 05XX	18	1,200	.5	3	.02	140	33			

Specifications on these charts are for standard units only and may change for modified non-standard units! For Actuators without motors see page 376 for product specifications

BALL SCREW MODELS: ACME SCREW MODELS: TOTAL WEIGHT = (1.31)T + BASIC WEIGHT, where T = TRAVEL IN INCHES TOTAL WEIGHT = (1.38)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

WARNING! UNITS ARE NOT TO BE USED AS PERSONNEL SUPPORT OR MOVEMENT. BALL SCREW MODELS ARE SELF-LOWERING.

ELECTRIC





ELECTRIC **CYLINDERS**



RAD-30 BALL SCREW MODELS											
MODEL NUMBER TRAVEL RATE DYNAMIC CAPACITY RATED LIFE STD. MOTOR STD. BRAKE APPROX. STOPPING MAXIMUM R REACTION TO DISTANCE [in.] MODEL NUMBER RATE CAPACITY LIFE HP RATING TORQUE DISTANCE [in.] REACTION TO						MAXIMUM ROD Reaction torque	BASIC WEIGHT				
	[in./min.]	[lb.]	[in. x 10°]	[ref.]	[ftlb.]	No Load	Full Load	[inlb.]	[lbs.]		
RAD-3066-HD / 05XX	20	4,775	.54	.5	3	.02	.02	349	51		
RAD-3062-HD / 03XX	10	5,250	.40	.33	3	.012	.012	383	51		
RAD-3022-HD / 03XX	5	6,000	.27	.33	3	.006	.006	439	51		

RAD-30 ACME SCREW MODELS											
TRAVEL DYNAMIC STD. MOTOR STD. BRAKE APPROX. STOPPING MAXIMUM ROD MODEL NUMBER RATE CAPACITY HP RATING TORQUE DISTANCE [in.] REACTION TORQUE N [in./min.] [Ibf.] [ref.] [ftlb.] NO LOAD [inlb.]											
RAD-3066-A4 / 10XX	12	6,000	1	6	.02	702	47				
RAD-3062-A4 / 07XX	6	4,925	.75	3	.005	575	47				
RAD-3022-A4 / 05XX	3	6,000	.5	3	.004	702	47				

10

100



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BALL SCREW MODELS:

TOTAL WEIGHT = (1.31)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

ACME SCREW MODELS:

TOTAL WEIGHT = (1.38)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

WARNING! UNITS ARE NOT TO BE USED AS PERSONNEL SUPPORT OR MOVEMENT. BALL SCREW MODELS ARE SELF-LOWERING.





DD-50 BALL SCREW MODELS											
MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC Capacity [Ib.]	RATED LIFE [in. x 10 ⁶]	STD. MOTOR HP RATING [ref.]	STD. BRAKE TORQUE [ftlb.]	APPROX. DISTAN No Load	STOPPING CE [in.] Full Load	MAXIMUM ROD Reaction torque [inlb.]	BASIC WEIGHT [lbs.]		
DD-506-SL / 20XX	539	950	110	2	10	.8	1.7	501	63		
DD-506-HL / 20XX	288	2,000	73	2	10	.43	1.07	320	63		
DD-506-HL / 30XX	288	2,500	21	3	15	.74	1.48	480	63		
DD-506-HD / 20XX	136	4,000	18	2	10	.20	.46	320	63		
DD-506-HD / 30XX	136	5,750	5.4	3	15	.35	.66	480	63		
DD-5024-HD / 07XX	34	3,000	19	0.75	6	.03	.04	314	63		

DD-50 ACME SCREW MODELS										
MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC CAPACITY [lbf.]	STD. MOTOR HP RATING [ref.]	STD. BRAKE TORQUE [ftlb.]	APPROX. STOPPING DISTANCE [in.] NO LOAD	MAXIMUM ROD REACTION TORQUE [inlb.]	BASIC WEIGHT [Ibs.]			
DD-506-A2 / 20XX	144	1,900	2	10	.21	476	53			
DD-506-A3 / 10XX	108	1,000	1	6	.19	143	53			
DD-506-A3 / 20XX	108	2,200	2	10	.16	288	53			
DD-506-A3 / 30XX	108	2,900	3	15	.28	432	53			
DD-508-A4 / 20XX	54	3,000	3	15	.08	455	53			
DD-5024-A3 / 07XX	27	1,900	.75	6	.02	285	53			

Specifications on these charts are for standard units only and may change for modified non-standard units! For Actuators without motors see page 376 for product specifications

BALL SCREW MODELS: ACME SCREW MODELS: TOTAL WEIGHT = (1.92)T + BASIC WEIGHT, where T = TRAVEL IN INCHES TOTAL WEIGHT = (1.87)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

WARNING! UNITS ARE NOT TO BE USED AS PERSONNEL SUPPORT OR MOVEMENT. BALL SCREW MODELS ARE SELF-LOWERING.

ELECTRIC







Eight different positions are available. (See page 378)

RAD-50 BALL SCREW MODELS											
MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC Capacity	RATED LIFE [in. x 10 ⁶]	STD. MOTOR HP Rating [ref.]	STD. BRAKE Torque [ftlb.]	APPROX. DISTAN	STOPPING ICE [in.] Full Load	MAXIMUM ROD Reaction torque [inlb.]	BASIC WEIGHT [lhs]		
RAD-5066-HL / 10XX	48	4,000	22	1	6	.08	.08	478	77		
RAD-5066-HD / 10XX	23	5,000	5.6	1	6	.04	.04	475	77		
RAD-5046-HL / 10XX	12	8,000	1.5	1	6	.02	.02	1,179	77		
RAD-5062-HD / 10XX	11	9,000	1.4	1	6	.02	.02	754	77		
RAD-5046-HD / 10XX	6	9,000	1.4	1	6	.02	.01	754	77		

1.75

RAD-50 ACME SCREW MODELS											
MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC Capacity [lbf.]	STD. MOTOR HP RATING [ref.]	STD. BRAKE Torque [ftlb.]	APPROX. STOPPING DISTANCE [in.] NO LOAD	MAXIMUM ROD REACTION TORQUE [inlb.]	BASIC WEIGHT [lbs.]				
RAD-5066-A3 / 10XX	18	2,700	1	6	.03	402	66				
RAD-5062-A3 / 10XX	9	4,500	1	6	.02	670	66				
RAD-5046-A3 / 10XX	4.5	7,200	1	6	.01	1,073	66				



SERIES 50 DD & RAD



BALL SCREW MODELS:

TOTAL WEIGHT = (1.92)T + BASICWEIGHT, where T = TRAVEL IN INCHES

ACME SCREW MODELS:

TOTAL WEIGHT = (1.87)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

WARNING! UNITS ARE NOT TO BE USED AS PERSONNEL SUPPORT OR MOVEMENT. BALL SCREW MODELS ARE SELF-LOWERING.





DD-100 BALL SCREW MODELS											
MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC Capacity [Ib.]	RATED LIFE [in. x 10 ⁶]	STD. MOTOR HP RATING [ref.]	STD. BRAKE Torque [ftlb.]	APPROX. DISTAN No Load	STOPPING CE [in.] Full Load	MAXIMUM ROD Reaction torque [inIb.]	BASIC WEIGHT [lbs.]		
DD-1008-SL / 20XX	404	1,150	240	2	10	.6	.9	385	80		
DD-1008-HL / 20XX	216	2,175	42	2	10	.3	.5	385	80		
DD-1008-HL / 50XX	216	5,400	2.7	5	15	.7	1.3	956	80		
DD-1008-HD / 20XX	102	4,600	10.4	2	10	.2	.2	385	80		
DD-1008-HD / 30XX	102	7,500	2.4	3	15	.3	.4	628	80		
DD-1008-HD / 50XX	102	12,000	.59	5	15	.3	.7	1005	80		
DD-10024-HL / 15XX	72	2,700	22	1.5	6	.15	.16	478	80		
DD-10024-HD / 15XX	34	7,150	2.8	1.5	6	.07	.09	598	80		

DD-100 ACME SCREW MODELS											
MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC Capacity [Ibf.]	STD. MOTOR HP RATING [ref.]	STD. BRAKE Torque [ftlb.]	APPROX. STOPPING DISTANCE [in.] NO LOAD	MAXIMUM ROD REACTION TORQUE [inIb.]	BASIC WEIGHT [lbs.]				
DD-1008-A2 / 20XX	108	2,000	2	10	.6	398	77				
DD-1008-A2 / 30XX	108	3,000	3	15	.3	597	77				
DD-1008-A2 / 50XX	108	4,500	5	15	.7	896	77				
DD-1008-A4 / 20XX	54	2,000	2	10	.2	362	77				
DD-10024-A2 / 15XX	36	2,000	1.5	6	.3	398	77				

Specifications on these charts are for standard units only and may change for modified non-standard units! For Actuators without motors see page 376 for product specifications

BALL SCREW MODELS: ACME SCREW MODELS: TOTAL WEIGHT = (1.92)T + BASIC WEIGHT, where T = TRAVEL IN INCHES TOTAL WEIGHT = (2.5)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

WARNING! UNITS ARE NOT TO BE USED AS PERSONNEL SUPPORT OR MOVEMENT. BALL SCREW MODELS ARE SELF-LOWERING.

ELECTRIC

ELECTRIC CYLINDERS





REDUCER IS SHOWN IN POSITION 1 Eight different positions are available. (See page 378)

RAD-100 BALL SCREW MODELS											
MODEL NUMBER	TRAVEL RATE [in /min]	DYNAMIC Capacity	RATED LIFE [in x 10 ⁶]	STD. MOTOR HP RATING [ref]	STD. BRAKE Torque [ft -lh]	APPROX. DISTAN	STOPPING ICE [in.] Full Load	MAXIMUM ROD REACTION TORQUE (in -lb 1	BASIC WEIGHT		
RAD-10086-HL / 10XX	36	4,275	5.5	1	6	.06	.06	758	93		
RAD-10086-HD / 10XX	17	10,000	1.0	1	6	.03	.03	837	93		
RAD-10046-HL / 10XX	12	9,750	.47	1	6	.02	.02	1,226	93		
RAD-10082-HD / 10XX	9	15,000	.3	1	6	.01	.01	1,258	93		
RAD-10046-HD / 10XX	6	18,750	.15	1	6	.01	.01	1,571	93		

1.75

RAD-100 ACME SCREW MODELS											
MODEL NUMBER	TRAVEL DYNAMIC STD. MOTOR STD. BRAKE APPROX. STOPPING MAXIMUM ROD RATE CAPACITY HP RATING TORQUE DISTANCE [in.] REACTION TORQUE [in./min.] [lbf.] [ref.] [ftlb.] NO LOAD [inlb.]										
RAD-10086-A2 / 10XX	18	3,800	1	6	.06	756	89				
RAD-10082-A2 / 10XX	9	6,275	1	6	.07	1,249	89				
RAD-10046-A2 / 10XX	6	7,800	1	6	.03	1,552	89				



SERIES 100 DD & RAD

BALL SCREW MODELS:

TOTAL WEIGHT = (1.92)T + BASICWEIGHT, where T = TRAVEL IN INCHES

ACME SCREW MODELS:

TOTAL WEIGHT = (2.5)T + BASICWEIGHT, where T = TRAVEL IN INCHES

WARNING! UNITS ARE NOT TO BE USED AS PERSONNEL SUPPORT OR MOVEMENT. BALL SCREW MODELS ARE SELF-LOWERING.





DD-200 BALL SCREW MODELS											
MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC Capacity [Ib.]	RATED LIFE [in. x 10 ⁶]	STD. MOTOR HP RATING [ref.]	STD. BRAKE TORQUE [ftlb.]	APPROX. DISTAN No Load	STOPPING CE [in.] Full Load	MAXIMUM ROD REACTION TORQUE [inlb.]	BASIC WEIGHT [lbs.]		
DD-2008-HL / 70XX	216	8,000	36	7.5	25	.4	.6	1,416	154		
DD-2008-HD / 70XX	108	16,600	2.1	7.5	25	.2	.3	1,469	154		
DD-2008-HD / 50XX	108	11,000	7.3	5	15	.4	.7	979	154		
DD-20024-HL / 20XX	72	4,000	292	2	10	.1	.1	708	154		
DD-20024-HD / 20XX	36	7,000	28	2	10	.1	.1	620	154		
DD-20024-HD / 30XX	36	10,000	9.7	3	15	.1	.1	885	154		

DD-200 ACME SCREW MODELS									
MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC CAPACITY [lbf.]	AMIC STD. MOTOR STD. BRAKE APPROX. ST ACITY HP RATING TORQUE DISTANC of.] [ref.] [ftIb.] NO LO		APPROX. STOPPING DISTANCE [in.] NO LOAD	MAXIMUM ROD REACTION TORQUE [inlb.]	BASIC WEIGHT [lbs.]		
DD-2008-A2 / 70XX	108	4,250	7.5	15	.4	995	138		
DD-2008-A3 / 70XX	72	4,620	7.5	15	.24	979	138		
DD-20024-A2 / 20XX	36	2,500	2	10	.05	585	138		
DD-20024-A2 / 30XX	36	3,500	3	15	.09	819	138		

Specifications on these charts are for standard units only and may change for modified non-standard units! For Actuators without motors see page 376 for product specifications

BALL SCREW MODELS:

ACME SCREW MODELS:

TOTAL WEIGHT = (3.31)T + BASIC WEIGHT, where T = TRAVEL IN INCHES TOTAL WEIGHT = (3.6)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

WARNING! UNITS ARE NOT TO BE USED AS PERSONNEL SUPPORT OR MOVEMENT. BALL SCREW MODELS ARE SELF-LOWERING.

ELECTRIC





ELECTRIC CYLINDERS



RAD-200 BALL SCREW MODELS										
MODEL NUMBER	TRAVEL RATE	DYNAMIC Capacity	RATED LIFE	STD. MOTOR HP Rating	STD. BRAKE Torque	APPROX. STOPPING DISTANCE [in.]		MAXIMUM ROD Reaction torque	BASIC Weight	
	[in./min.]	[lb.]	[in. x 10 ⁶]	[ref.]	[ftlb.]	No Load	Full Load	[inlb.]	[lbs.]	
RAD-20088-HL / 50XX	27	30,000	.69	5	15	.09	.09	5,300	202	
RAD-20088-HD / 30XX	13.5	35,000	.23	3	15	.03	.03	3,098	202	
RAD-20048-HL / 30XX	9	35,000	.44	3	15	.02	.02	6,195	202	
RAD-20048-HD / 20XX	4.5	40,000	.15	2	10	.01	.01	3,540	202	

RAD-200 ACME SCREW MODELS

MODEL NUMBER	TRAVEL RATE [in./min.]	DYNAMIC STD. MOTOR STD. BRAKE CAPACITY HP RATING TORQUE [Ibf.] [ref.] [ftib.]		STD. BRAKE Torque [ftlb.]	APPROX. STOPPING DISTANCE [in.] NO LOAD	MAXIMUM ROD Reaction torque [inlb.]	BASIC WEIGHT [Ibs.]			
RAD-20088-A2 / 70XX	13.5	31,000	7.5	25	.03	7,254	187			
RAD-20088-A3 / 50XX	9	22,500	5	15	.03	4,770	187			
RAD-20048-A2 / 30XX	4.5	12,500	3	15	.01	2,925	187			



SERIES 200 DD & RAD



BALL SCREW MODELS:

TOTAL WEIGHT = (3.31)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

ACME SCREW MODELS:

TOTAL WEIGHT = (3.6)T + BASIC WEIGHT, where T = TRAVEL IN INCHES

WARNING! UNITS ARE NOT TO BE USED AS PERSONNEL SUPPORT OR MOVEMENT. BALL SCREW MODELS ARE SELF-LOWERING.