

# ELECTRIC CYLINDERS QUICK REFERENCE

Use the following charts to select the electric cylinder that best fits your application. Refer to drawings on page 132. Contact Joyce/Dayton with questions regarding the proper selection of electric cylinders.

5-Ton Thrust Capacity Electric Cylinders												
Model	Max Static Capacity (tons)	Screw Lead (in)	Linear Speed (in/min)	External Gearbox Ratio	Estimated Efficiency	Max Dynamic Load at HP (lbs)						
						.33HP	.5HP	.75HP	1HP	1.5HP	2HP	3HP
<b>ACME Screw</b>												
ECAL245	5	0.250	1.76	10	11%	6,895	10,000					
ECAM245	5	0.375	2.65	10	14%	5,891	9,330	10,000				
ECAH245	5	0.500	3.53	10	16%	5,193	8,224	10,000				
ECAM125	5	0.375	5.29	10	17%	3,661	5,822	9,000	10,000			
ECAH125	5	0.500	7.06	10	20%	3,227	5,132	7,933	10,000			
ECAM65	5	0.375	10.59	10	19%	2,031	3,257	5,059	7,022			
ECAH65	5	0.500	14.12	10	23%	1,790	2,871	4,460	6,189			
ECAL245	5	0.250	18.23	Direct drive	16%			1,471				
ECAM65	5	0.375	20.83	5	21%		1,634	2,635	3,723	5,768	7,813	
ECAM245	5	0.375	27.34	Direct drive	21%			1,257				
ECAH65	5	0.500	27.78	5	25%		1,441	2,322	3,282	5,085	6,887	
ECAH245	5	0.500	36.46	Direct drive	24%			1,108				
ECAM125	5	0.375	54.69	Direct drive	23%				1,085	1,935		
ECAL65	5	0.250	72.92	Direct drive	19%					1,144	1,672	2,728
ECAM65	5	0.375	109.38	Direct drive	25%						1,429	2,331
ECAH65	5	0.500	145.83	Direct drive	29%						1,259	2,055
<b>Ball Screw</b>												
ECBL245	5	0.474	3.34	10	30%	10,000						
ECBL125	5	0.474	6.69	10	38%	6,441	10,000					
ECBM245	5	1.000	7.06	10	30%	4,910	7,775	10,000				
ECBH245	5	1.875	13.24	10	30%	2,618	4,147	6,394				
ECBL65	5	0.474	13.37	10	43%	3,572	5,729	8,900	10,000			
ECBM125	5	1.000	14.12	10	38%	3,051	4,852	7,500	10,000			
ECBH125	5	1.875	26.47	10	38%	1,627	2,588	4,000	5,537			
ECBL65	5	0.474	26.32	5	47%	1,678	2,875	4,635	6,550	10,000		
ECBM65	5	1.000	28.23	10	43%	1,692	2,714	4,216	5,851			
ECBL245	5	0.474	34.54	Direct drive	46%			2,211				
ECBH65	5	1.875	52.94	10	43%		1,447	2,249	3,121			
ECBM65	5	1.000	55.56	5	47%		1,362	2,196	3,103	4,807	6,511	
ECBL125	5	0.474	69.08	Direct drive	52%			1,162	1,910	3,404	4,898	
ECBM245	5	1.000	72.92	Direct drive	46%			1,048				
ECBH65	5	1.875	104.17	5	47%			1,171	1,655	2,564	3,473	
ECBL65	5	0.474	138.16	Direct drive	55%					1,720	2,513	4,101
ECBM125	5	1.000	145.83	Direct drive	52%					1,612	2,320	
ECBH125	5	1.875	273.44	Direct drive	52%						1,237	
ECBM65	5	1.000	291.67	Direct drive	55%						1,191	1,942
ECBH65	5	1.875	546.88	Direct drive	55%							1,036

5-Ton Electric Cylinders			
	Maximum Rise		Cylinder Tube Torque (in*lb) Per Pound Thrust
	Vertical Operation	Horizontal Operation	
<b>ACME Screw</b>			
ECAL	59"	44"	.131
ECAM	63"	47"	.151
ECAH	59"	44"	.171
<b>Ball Screw</b>			
ECBL	54"	40"	.084
ECBM	54"	40"	.178
ECBH	59"	44"	.332

Note: For proper model selection refer to Selection Guidelines on page 126.