

Anexo H. Tablas ANSI/CEMA Standard No. 350.

Tabla H.1. Capacidades de tornillos transportadores

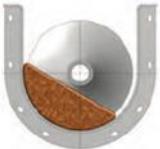
Material Class Code		Degree of Trough Loading	Screw Dia. (in)	Maximum RPM*	Capacity, ft ³ /hr	
					At Max. RPM	At One RPM
A-15		 45%	6	165	368	2.23
A-25			9	155	1,270	8.2
B-15			12	145	2,820	19.4
B-25			14	140	4,370	31.2
C-15			16	130	6,060	46.7
C-25			18	120	8,120	67.6
			20	110	10,300	93.7
			24	100	16,400	164.0
			30	90	28,795	320.0
			36	75	41,490	553.2
A-35	E-15	 30% A	6	120	180	1.49
A-45	E-25		9	100	545	5.45
B-35	E-35		12	90	1,160	12.9
B-45	E-45		14	85	1,770	20.8
C-35			16	80	2,500	31.2
C-45			18	75	3,380	45.0
D-15			20	70	4,370	62.5
D-25			24	65	7,100	109.0
D-35			30	60	12,800	213.3
D-45			36	50	18,440	368.8
A-16	C-36	 30% B	6	60	90	1.49
A-26	C-46		9	55	300	5.45
A-36	D-16		12	50	645	12.90
A-46	D-26		14	50	1,040	20.80
B-16	D-36		16	45	1,400	31.520
B-26	D-46		18	45	2,025	45.00
B-36	E-16		20	40	2,500	62.50
B-46	E-26		24	40	4,360	109.00
C-16	E-36		30	35	7,465	213.30
C-26	E-46		36	30	11,064	368.80
A-17	C-37	 15%	6	60	45	0.75
A-27	C-47		9	55	150	2.72
A-37	D-17		12	50	325	6.46
A-47	D-27		14	50	520	10.4
B-17	D-37		16	45	700	15.6
B-27	D-47		18	45	1,010	22.5
B-37	E-17		20	40	1,250	31.2
B-47	E-27		24	40	2,180	54.6
C-17	E-37		30	35	3,728	106.5
C-27	E-47		36	30	5,532	184.4

* Maximum recommended RPM

Fuente: <https://n9.cl/yo73n>

Tabla H.2. Dimensiones del tornillo seleccionado como referencia para el dimensionamiento del eje con paletas del acondicionador

Table 2-3 Screw Conveyor Capacities

Material Class Code		Degree of Trough Loading	Screw Dia. (in)	Maximum RPM*	Capacity, ft ³ /hr	
					At Max. RPM	At One RPM
A-16	C-36		6	60	90	1.49
A-26	C-46		9	55	300	5.45
A-36	D-16		12	50	645	12.90
A-46	D-26		14	50	1,040	20.80
B-16	D-36		16	45	1,400	31.520
B-26	D-46		18	45	2,025	45.00
B-36	E-16		20	40	2,500	62.50
B-46	E-26		24	40	4,360	109.00
C-16	E-36		30	35	7,465	213.30
C-26	E-46		36	30	11,064	368.80

Fuente: <https://n9.cl/yo73n>

Tabla H.3. Factores de capacidad del tornillo seleccionado para el acondicionador

Table 2-4 Screw Conveyor Capacities

Special Conveyor Pitch Capacity Factor CF ₁					
Pitch	Description		CF ₁		
Standard	Pitch = Diameter of screw		1.00		
Short	Pitch = 2/3 Diameter of screw		1.50		
Half	Pitch = 1/2 Diameter of screw		2.00		
Long	Pitch = 1-1/2 Diameter of screw		0.67		
Special Conveyor Flight Capacity Factor CF ₂					
Type of Flight	Conveyor Loading				
	15%	30%	45%		
Cut Flight	1.95	1.57	1.43		
Cut & Folded Flight	N. R. *	3.75	2.54		
Ribbon Flight	1.04	1.37	1.62		
Special Conveyor Mixing Paddle Capacity Factor CF ₃					
Factor CF ₃	Standard Paddles Per Pitch Set at 45°				
	Reverse Pitch				
	None	1	2	3	4
	1	1.08	1.16	1.24	1.32

Fuente: <https://n9.cl/yo73n>

Tabla H.4. Dimensiones para el eje con paletas según el porcentaje de grumos esperado

Table 2-5 Maximum Lump Size

Screw Dia. (in)	Pipe O.D. (in)	Radial Clearance (in)	Class 1		
			10% Lumps	25% Lumps	95% Lumps
			Ratio R = 1.75 Max. Lump, (in)	Ratio R = 2.5 Max. Lump, (in)	Ratio R = 4.5 Max. Lump, (in)
6	2-3/8	2-1/3	1-1/4	3/4	1/2
9	2-3/8	3-4/5	2-1/4	1-1/2	3/4
9	2-7/8	3-4/7	2-1/4	1-1/2	3/4
12	2-7/8	5-1/16	2-3/4	2	1
12	3-1/2	4-3/4	2-3/4	2	1
12	4	4-1/2	2-3/4	2	1
14	3-1/2	5-3/4	3-1/4	2-1/2	1-1/4
14	4	5-1/2	3-1/4	2-1/2	1-1/4
16	4	6-1/2	3-3/4	2-3/4	1-1/2
16	4-1/2	6-1/4	3-3/4	2-3/4	1-1/2
18	4	7-1/2	4-1/4	3	1-3/4
18	4-1/2	7-1/4	4-1/4	3	1-3/4

Fuente: <https://n9.cl/yo73n>