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SERIES 1700

· · · · · · · · · · · · · · · · · · ·		Flush	Fid				
	in.	mm			32		5 - S
Pitch	1.50	38.1	a fail	212		-	
Vinimum Width	5	127	-	1000		- /	з,
Nidth Increments	1.00	25.4					÷.
Opening Sizes (approx.)	0.62 × 0.50	15.7 × 12.7			- 38	82	
	0.70 × 0.26	17.8 × 6.6	10.2	1		1	
Open Area	37	%		a		.//	
Hinge Style	Clos	sed		10	in a	S.	
Drive Method	Center/Hin	nge-Driven				410	
Produc	ct Notes			-		10	
Fully flush edges with high SLIDELOX® rod retention Robust design offers exce durability, especially in tou applications. Abrasion resistant system conventional modular plas	hly visible, orange i feature. Ident belt and spro ugh material hand lasts 2.5 to 3 time stic belts. teeth.	acetal ocket ling s longer than					

Do not use on pusher conveyors.

Additional Information

- See "Belt selection process" (page 5)
- See "Standard belt materials" (page 18)
- See "Special application belt materials" (page 18)
- See "Friction factors" (page 31)

Relt Data

Dell Data														
Belt Material	Standard Rod Material 0.25 × 0.17 in. (6.4 × 4.3 mm)	BS	Belt Strength	Temperatu (contin	W	Belt Weight	Agency Acceptability ^b 1=White, 2=Blue, 3=Natural, 4=Gr			Brey				
		lb/ft	kg/m	°F	°C	lb/ft²	kg/m²	FDA (USA)	USDA Dairy ^c	CFA ^d	Ae	Jf	Z ^g	EU MC ^h
AR Nylon	Nylon	1800	2678	-50 to 212	-46 to 100	2.21	10.78	•						

Sprocket temperatures should be limited to -40 to 160 °F (-40 to 70 °C). Belt used in temperature range of 212 to 240 °F (100 to 116 °C) are not FDA compliant. a. Prior to Intralox's development of the Series 1700, USDA-FSIS Meat and Poultry discontinued publishing a list of acceptable new products designed for food b. contact. As of the printing of this literature, third party approvals are being investigated, but are not yet sanctioned by the USDA-FSIS. USDA Dairy acceptance requires the use of a clean-in-place system.

c.

Canada Food Inspection Agency d.

Australian Quarantine Inspection Service e.

Japan Ministry of Health, Labour, and Welfare f.

g. h. European Migration Certificate providing approval for food contact according to EU Directive 2002/72/EC and all its amendments to date. 0.75

1.50"

(38.1 mm)

(19.0 mm)

MAF-New Zealand Ministry of Agriculture and Forestry. MAF acceptance requires the use of a clean-in-place system.

218 SERIES 1700

	in.	mm
Pitch	1.50	38.1
Minimum Width	5	127
Width Increments	1.00	25.4
Opening Sizes (approx.)	0.70 × 0.26	18 × 7
Open Area	37	%
Product Contact Area	89	%
Hinge Style	Clos	sed
Drive Method	Center/Hir	ige-Driven

Product Notes

- Always check with Customer Service for precise belt width measurement and stock status before designing a conveyor or ordering a belt.
- Fully flush edges with highly visible, orange acetal SLIDELOX® rod retention feature.
- Robust design offers excellent belt and sprocket durability, especially in tough material handling applications.
- Abrasion resistant system lasts 2.5 to 3 times longer than conventional modular plastic belts.
- Sprockets have large lug teeth.
- Multi-rod hinge design significantly reduces cam shafting. Every row contains two rectangular rods.
- Abrasion resistant nylon used in modules and rods.
- Ultra abrasion resistant polyurethane split sprockets.
- Steel is preferred carryway material.
- Chevron pattern or flat continuous carryway
- recommended. Straight, parallel wearstrips should not be used.
- Do not use on pusher conveyors.
- Minimum 2 inch (51 mm) indent from flush edge.

Additional Information

- See "Belt selection process" (page 5)
- See "Standard belt materials" (page 18)
- See "Special application belt materials" (page 18)
- See "Friction factors" (page 31)

Belt Data													
Belt Material	Standard Rod Material	BS	Belt Temperature Range Strength (continuous) ^a			Belt Agency Acceptabil Weight 1=White, 2=Blue, 3=Natur			lity ^b ral, 4:	y ^b I, 4=Grey			
	$(6.4 \times 4.3 \text{ mm})$	lb/ft	kg/m	°F	°C	lb/ft ²	kg/m²	FDA (USA)	CFA ^c	Ad	Je	Z ^f	EU MC ^g
AR Nylon	Nylon	1800	2678	-50 to 212	-46 to 100	2.21	10.78	•					

a. Sprocket temperatures should be limited to -40 to 160 °F (-40 to 70 °C). Belt used in temperature range of -212 to 240 °F (100 to 116 °C) are not FDA compliant.
 b. Prior to Intralox's development of the Series 1700, USDA-FSIS Meat and Poultry discontinued publishing a list of acceptable new products designed for food contact. As of the printing of this literature, third party approvals are being investigated, but are not yet sanctioned by the USDA-FSIS.

c. Canada Food Inspection Agency

- d. Australian Quarantine Inspection Service
- e. Japan Ministry of Health, Labour, and Welfare

f. MAF-New Zealand Ministry of Agriculture and Forestry. MAF acceptance requires the use of a clean-in-place system.

g. European Migration Certificate providing approval for food contact according to EU Directive 2002/72/EC and all its amendments to date.

Flush Grid Nub Top™

tly reduces cam rectangular rods.





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SERIES 1700

Meat & Poultry

3

			Tra	nsver	se Ro	oller	Тор	ТМ
			in.	m	ım	10. U		
Pitch			1.475	37	7.5	196		
Minimum Wie	dth		12	30	4.8		.08	Elements in the other of the
Width Increm	nents		2.00	50	0.8		di	
Min. Opening	g Size (appro	x.) 0	.62 x 0.5	i0 <u>16</u>	x 13	1		A STATE OF A
Max. Openin	g Size (appro	ox.) 0	.70 x 0.2	.6 18	x 7		100	A A ALES
Open Area				26%			-	
Hinge Style			(Closed				and the second second
Drive Method	ł		Center/	Hinge-Dri	ven			a alla
	Produ	ıct N	otes			-		
 designing a Fully flush a Robust des durability, e applications Sprockets h Ultra abrasi Split sprock Roller axles lasting perfo Roller diam Roller lengt Roller spaci Minimum re 	a conveyor edges with SI ign offers exc specially in to so ave large lug on resistant p ets are availa are stainless ormance. eter is 0.95" h is 0.825" (2 ing is 1" (25.4 eturn roller dia	or order LIDELO. cellent b bugh, m g teeth. polyuret able. s steel for (24.1 mm). 4 mm). ameter i	ring a be X® rod re elt and s aterial ha hane spr or durabi m). s 6.0" (1	eit. etention fe procket andling rockets. lity and lo 52.4 mm).	eature. ong-	1.875		
 See "Belt se See "Stand See "Special See "Friction 	election proce ard belt mate al application n factors" (pa	ess" (pa erials" (p belt ma age 31)	ge 5) age 18) <i>iterials"</i> (page 18)		(47.6 m		1.475" (37.5 mm) - (37.5 mm) - (37.5 mm) - (37.5 mm) (9.5 mm)
					Belt Dat	a		
Belt Material	Standard Rod Material Ø 0.312 in.	BS Ib/ft	Belt Strength	Temperat (contin	ure Range nuous)	Ib/ft ²	Belt Weight	Agency Acceptability: 1=White, 2=Blue, 3=Natural, 4=Grey FDA USDA- USDA CEAD AC Id EU
	(7.9 mm)							USA) FSIS - Dairy ^a MC ^e

2200

3270

Nylon

Polypropylene

a. USDA Dairy acceptance requires the use of a clean-in-place-system.
b. Canada Food Inspection Agency
c. Australian Quarantine Inspection Service
d. Japan Ministry of Health, Labour, and Welfare
e. European Migration Certificate providing approval for food contact according to EU Directive 2002/72/EC and all its amendments to date.

1 to 93

34 to 200

4.70

22.96

•

219

SERIES 1700 220

	Sprocket and Support Quantity Reference Flush Grid and Flush Grid Nub Top TM										
Belt Wid	Ith Range ^a	Minimum Number of	V	Vearstrips							
in.	mm	Sprockets Per Shaft ^b	Carryway	Returnway							
5	127	2									
6	152	2	_								
7	178	3									
8	203	3									
9	229	3									
10	254	3									
12	305	3									
14	356	3									
15	381	3									
16	406	5									
18	457	5									
20	508	5	Straight, parallel wearstrips should not	Straight, parallel wearstrips should not be used.							
24	610	5	continuous carryway instead.	instead.							
30	762	7									
32	813	7									
36	914	9									
42	1067	9									
48	1219	11									
54	1372	11									
60	1524	13									
72	1829	15									
84	2134	17									
96	2438	21									
120	3048	25									
144	3658	29									
For Other M	Widths, Use O laximum 4 in. (1	dd Number of Sprockets ^c at 102 mm) Ç Spacing	Maximum 6 in. (152 mm)	Maximum 12 in. (305 mm) ⊊ Spacing							

a. b. c.

Belts are available in 1.00 in. (25.4 mm) increments beginning with 5 in. (127 mm). If the actual width is critical, consult Customer Service. These are the minimum number of sprockets. Additional sprockets may be required for heavily loaded applications. The center sprocket should be locked down. With only two sprockets, fix the sprocket on the drive journal side only. See Retainer Rings/Center Sprocket Offset chart on page 304 for lock down location.

	Sprocket and Support Quantity Reference Transverse Roller Top TM											
Belt Width Range ^a		Minimum Number of	Wearstrips									
in.	mm	Sprockets Per Shaft ^D	Carryway	Returnway								
5	127	2	2	2								
6	152	2	2	2								
7	178	3	2	2								
8	203	3	2	2								
9	229	3	3	2								
10	254	3	3	2								
12	305	3	3	2								
14	356	3	3	3								
15	381	3	3	3								
16	406	5	3	3								
18	457	5	3	3								
For Other M	Widths, Use Od aximum 4 in. (10	ld Number of Sprockets ^c at ୦2 mm) ଢୁ Spacing	Maximum 6 in. (152 mm)	Maximum 12 in. (305 mm)								

SERIES 1700

Sprocket and Support Quantity Reference Transverse Roller Top TM											
Belt Width Range ^a		Minimum Number of	Wearstrips								
in.	mm	Sprockets Per Shaft ^D	Carryway	Returnway							
20	508	5	4	3							
24	610	5	4	3							
30	762	7	5	4							
32	813	7	5	4							
36	914	9	5	4							
42	1067	9	6	5							
48	1219	11	7	5							
54	1372	11	7	6							
60	1524	13	8	6							
72	1829	15	9	7							
84	2134	17	11	8							
96	2438	21	12	9							
120	3048	25	15	11							
144	3658	29	17	13							
For Other M	Widths, Use Oc laximum 4 in. (1	ld Number of Sprockets ^c at 02 mm) ଦୂ Spacing	Maximum 6 in. (152 mm)	Maximum 12 in. (305 mm) & Spacing							

a. Belts are available in 1.00 in. (25.4 mm) increments beginning with 5 in. (127 mm). If the actual width is critical, consult Customer Service.

b. These are the minimum number of sprockets. Additional sprockets may be required for heavily loaded applications.

c. The center sprocket should be locked down. With only two sprockets, fix the sprocket on the drive journal side only. See Retainer Rings/Center Sprocket Offset chart on page 304 for lock down location.





	Ultra Abrasion Resistant Sprockets ^a												
No. of	Nom.	Nom.	Nom.	Nom.	Nom.	Nom.	F	vailable E	Bore Size	s			
Teeth	Pitch	Pitch	Outer	Outer	Hub	Hub	U.S.	Sizes	Metric	Sizes			
(Chordal	Dia. in.	Dia.	Dia.	Dia.	Width	Width							
Action)		mm	in.	mm	in.	mm	Round	Square	Round	Square			
							in.	in.	mm	mm			
12	5.8	147	5.85	149	1.5	38		1.5		40			
(3.41%)													
14	6.7	170	6.80	173	1.5	38		1.5		40			
(2.51%)													
16	7.7	196	7.74	197	1.5	38		1.5		40			
(1.92%)				1				2.5		60			
22	10.5	267	10.59	269	1.5	38		2.5					
(1.02%)								1					

a. Contact customer Service for lead times.

a. Contact customer Service for lead times.

					Ultra	Abras	ion Re	sistan	t Split	Sproc
No. of	Nom.	Nom.	Nom.	Nom.	Nom.	Nom.	A	vailable E	Bore Size	s
Teeth (Chordal	Pitch Dia. in	Pitch Dia	Outer Dia	Outer Dia	Hub Width	Hub Width	U.S.	Sizes	Metric	Sizes
Action)		mm	in.	mm	in.	mm	Round in.	Square in.	Round mm	Square mm
14	6.7	170	6.80	173	1.5	38		1.5		40
(2.51%)								2.5		60
16	7.7	196	7.74	197	1.5	38		1.5		40
(1.92%)								2.5		60
22	10.5	267	10.59	269	1.5	38		2.5		60
(1.02%)								3.5		

Available	Flight Height	Available Materials	4
in.	mm		
4.0	102		
6.0	152	Nylon (AR)	
Note: Minimu Note: Flights application.	um indent is 2.0 s can be cut dov	0 in (51 mm) vn to any height required for a particular	
Note: Flight	is smooth (strea	amline) on both sides.	
Note: Each f	light rises out o	f the center of its supporting module,	
molded as a	n integral part. N	No fasteners are required.	

intralox.

SERIES 1700

Conveyor Frame Dimensions

Regardless of type or configuration, all conveyors using Intralox belts have some basic dimensional requirements. Specifically, dimensions "A", "B", "C" and "E" listed below should be implemented in any design.

For general applications and applications where end transfer of tip-sensitive product is not critical, use the "A" dimension at the bottom of the range.



Sprocket Description			Α		В		С		E			
Pitch Diameter		No. Tooth	Range (Bottom to Top)		in	mm	in	mm	in	mm		
in.	mm	NO. Teeth	in.	mm	1							
SERIES 1700 FLUSH GRID												
5.8	147	12	2.36-2.46	60-62	2.42	61	5.67	144	3.27	83		
6.7	170	14	2.85-2.93	72-74	2.63	67	6.61	168	3.74	95		
7.7	196	16	3.33-3.40	85-86	2.81	71	7.56	192	4.22	107		
10.5	267	22	4.78-4.83	121-123	3.30	84	10.41	264	5.64	143		
SERIES 1700 FLUSH GRID NUB TOP												
5.8	147	12	2.36-2.46	60-62	2.42	61	5.79	147	3.39	86		
6.7	170	14	2.85-2.93	72-74	2.63	67	6.73	171	3.86	98		
7.7	196	16	3.33-3.40	85-86	2.81	71	7.68	195	4.34	110		
10.5	267	22	4.78-4.83	121-123	3.30	84	10.53	267	5.76	146		
SERIES 1700 TRANSVERSE ROLLER TOP												
5.8	147	12	2.42-2.52	61-64	2.36	60	6.92	176	4.46	113		
6.7	170	14	2.91-3.00	74-76	2.56	65	7.87	200	4.93	125		
7.7	196	16	3.40-3.47	86-88	2.73	69	8.81	224	5.41	137		
10.5	267	22	4.84-4.90	123-124	3.20	81	11.67	296	6.83	173		

Dead Plate Gap

Where there is a transfer point from a belt without finger transfer plates to a dead plate, there should be a gap between the surfaces to allow for the chordal action of the belt. As the belt engages its sprockets, chordal action causes the modules to move past a *fixed* point (the tip of the dead plate) with *varying* clearances. The table below shows the minimum amount of gap which occurs at the "low point" of the modules if the tip of the dead plate just comes in contact with the "high point" as the modules pass.

In some installations it may be desirable to keep the tip of the dead plate in contact with the belt, rather than allow a gap to occur. This can be done by hinging the mounting bracket for the dead plate. This allows the dead plate to move as the modules pass, but results in a small oscillating motion which may present tippage problems for sensitive containers or products.



Note: The top surface of the dead plate is typically 0.031 in. (0.8 mm) above the belt surface for product transfer onto the belt, and 0.031 in. (0.8 mm) below the belt surface for product transfer off the belt.

	Sprocket Descriptio	Gap			
Pitch D	iameter	No. Tooth	in	mm	
in.	mm	NO. IEEUI			
5.8	147	12	0.099	2.5	
6.7	170	14	0.085	2.2	
7.7	7.7 196		0.074	1.9	
10.5	267	22	0.054	1.4	