

VOLTA BELT SELECTION WORKSHEET

Here's what we need from you.

NAME:

COMPANY:

PHONE #:

EMAIL:

DATE:

Follow this process to provide the information that will allow Apache to help you select the best Volta solution for your application. Experienced sales team members are just a phone call away, and knowledgeable field representatives are available when a site visit may be necessary.

<p>BELT TYPE</p> <ul style="list-style-type: none"> ▶ Net length (mm/in): Center to center of pulley: Pulley diameter: ▶ Exact width (mm/in): ▶ Overall gauge (belt thickness): ▶ Top surface / profile: ▶ Color: ▶ Food association requirements (FDA, USDA, EU, 3A Dairy, etc.): <p>FABRICATIONS</p> <ul style="list-style-type: none"> ▶ Splice / lacing: Butt weld endless Butt weld prepared ends Clipper® Volta hinge lace Plastic rivet Staple <p>Tracking Guides</p> <ul style="list-style-type: none"> ▶ Size: ▶ Placement (top or bottom): ▶ Number of guides: Single guide placement: Center pulley side Offset Flushed edge Indent from edge to center _____ Multiple guides: Center to center _____ Flushed edge <p>Custom Cleating (see Volta Custom Cleating Design Worksheet)</p> <p>Sidewall (see Volta Footless Sidewall Design Worksheet)</p> <p>DRAWINGS</p> <ul style="list-style-type: none"> ▶ Provide drawing of profiles, placement of V-guides, etc.: 	<p>CONVEYOR SYSTEM ANALYSIS</p> <ul style="list-style-type: none"> ▶ Belt speed FPM (feet per minute): ▶ Minimum pulley diameter: ▶ Drive pulley placement (front, back, center): ▶ Degree of wrap (90°, 180°, 210°, etc.): <p>Level of the Belt</p> <ul style="list-style-type: none"> ▶ Level (horizontal, incline, decline): ▶ Degree of angle: <p>Conveyor Bed Construction</p> <ul style="list-style-type: none"> ▶ Flat (rollers or slider bed): ▶ Trough, degree: <p>Slider Bed Material</p> <ul style="list-style-type: none"> ▶ Steel plate (smooth, corrugated, perforated, strips): ▶ UHMW (strips, solid): ▶ Other, specify: <p>Take Up</p> <ul style="list-style-type: none"> ▶ Type (manual screw, pulley, quick master cylinder): ▶ Location: <p>Conditions</p> <ul style="list-style-type: none"> ▶ Ambient temp: ▶ Product temp: ▶ Product being conveyed: ▶ Product weight: ▶ Product accumulation? ▶ Cutting or chopping on belt? ▶ Presence of oil, water, or grease? (specify) ▶ Presence of solvents or acids? (specify) ▶ Cleaning agent(s) used: <p>PREVIOUS BELT HISTORY</p> <ul style="list-style-type: none"> ▶ Style: ▶ Manufacturer: ▶ Ply: ▶ Belt life: ▶ Reason for failure or replacement: <p>▶ Customer expectations for new belt (check all that apply): Longer life Abrasion resistance Flexibility Less down time In house installs & repairs</p>
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FOR YOUR PROTECTION

Any recommendations Apache may provide are based on information furnished by you. These recommendations are reliable based on our years of experience and technical expertise.

Recommendations cannot be guaranteed. Performance guarantees must involve an on-site inspection and must be made in writing.

VOLTA CUSTOM CLEATING DESIGN WORKSHEET

NAME:

COMPANY:

PHONE #:

EMAIL:

DATE:

Here's what we need from you.

Follow this process to provide the information that will allow Apache to help you select the best Volta cleat solution for your application. Experienced sales team members are just a phone call away, and knowledgeable field representatives are available when a site visit may be necessary.

■ CLEAT STYLE

▶ Footed thinline: Straight

Height: 30 mm 40 mm 50 mm 60 mm

Color: White Blue

▶ Footless (see table below):

Straight 70° Angle 45° Scoop 65° Scoop 90° Scoop

Height (mm):

Thickness (mm):

Lip size (mm):

▶ V-sections cleat (dimensions same as V-guides):

Size: 6 mm 8 mm 10 mm 13 mm 17 mm 22 mm

▶ Cleat centers:

See reference chart [Cleat Center Locations for Volta Positive Drive Belts when using Volta SuperDrive™, DualDrive, DualDrive Small Pulley belting](#). Cleats on these belts must be placed between the lugs located on the bottom of the belt.

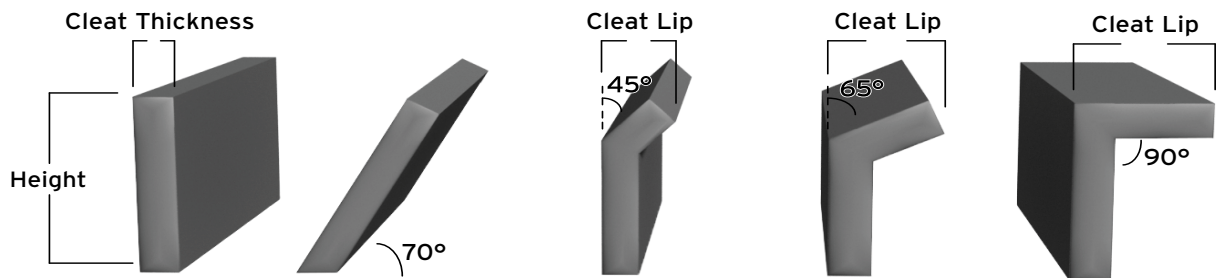
▶ Width (mm)

■ DRAWINGS

▶ Provide drawing of cleat style, placement, notch-outs, tapers, "non-standard" cleat patterns, etc.:

VOLTA FOOTLESS CLEAT OPTION DIMENSIONS

	STRAIGHT	70° ANGLE	45° SCOOP	65° SCOOP	90° SCOOP
HEIGHT (MM)	10 – 150	30 – 150	60 – 150	60 – 150	60 – 150
THICKNESS (MM)	3, 4, 5, 6, 8	3, 4, 5, 6, 8	3, 4, 5, 6, 8	3, 4, 5, 6, 8	3, 4, 5, 6, 8
LIP SIZE (MM)	–	–	25, 38, 50, 63	25, 38, 50, 63	25, 38, 50, 63



NOTE: Not all cleat options are available on all Volta belt styles. Not all cleat thicknesses are recommended for all heights.

VOLTA FOOTLESS SIDEWALL DESIGN WORKSHEET

NAME:

COMPANY:

PHONE #:

EMAIL:

DATE:

Here's what we need from you.

To ensure your belt is manufactured with the proper footless sidewall specifications and proper placement on base belt, please refer to the below diagrams and complete the following:

BELT LENGTH AND WIDTH

▶ Length:

▶ Width (see illustration, #1):

SIZE OF SIDEWALL (#2)

▶ Height:

30 mm 40 mm 50 mm 60 mm 80 mm 100 mm 130 mm 150 mm Other _____

PLEASE NOTE PLACEMENT OF SIDEWALL

▶ Flush with edge of belt:

▶ Indent from belt edge to corrugation (#3):

INSIDE SPACE BETWEEN SIDEWALL

▶ Center to center of sidewall (#4):

▶ Inside corrugation to inside corrugation (#5):

PLACEMENT OF CLEATS (IF APPLICABLE)

If cleats are required, please first complete the Volta Cleat Worksheet, then complete the cleat placement questions below in regards to sidewall.

▶ Cleat spacing (distance between ends of cleats and inside of sidewall):

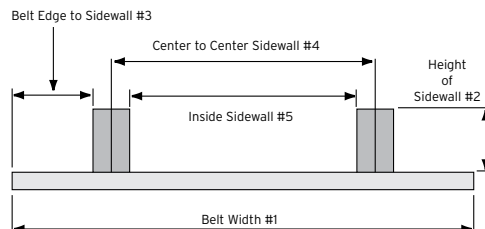
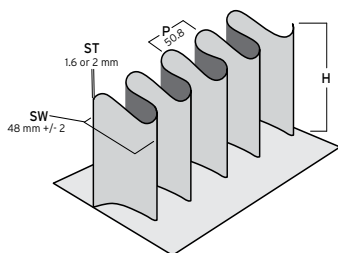
Standard gap is 1/4", but can be reduced to 1/8". **IMPORTANT NOTE:** Wall corrugations are NOT symmetrical from one side of the belt to the other, cleats will not always align with the inside convolutions of the sidewall.

▶ Additional sidewall to be left loose for field joining?

FOOTLESS SIDEWALL MINIMUM PULLEY DIAMETERS

	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
HEIGHT "H"	1-1/4	30	1-1/2	40	2	50	2-3/8	60	3-1/8	80	3-15/16	100	5-7/64	130	5-29/32	150
SIDEWALL THICKNESS "ST"	1/16	1.6	1/16	1.6	1/16	1.6	1/16	1.6	1/16	1.6	1/16	1.6	5/64	2	5/64	2
2 MM BELT THICKNESS																
NORMAL FLEX	3.15	80	3.54	90	3.94	100	4.33	110	Not Recommended							
BACK FLEX	4.33	110	4.72	120	5.91	150	7.09	180	Not Recommended							
2.5 MM BELT THICKNESS																
NORMAL FLEX	3.15	80	3.54	90	3.94	100	4.33	110	Not Recommended							
BACK FLEX	4.33	110	4.72	120	5.91	150	7.09	180	Not Recommended							
3 MM BELT THICKNESS																
NORMAL FLEX	3.15	80	3.54	90	3.94	100	4.33	110	5.12	130	6.30	160	8.27	210	9.84	250
BACK FLEX	4.33	110	4.72	120	5.91	150	7.09	180	9.06	230	11.81	300	15.75	400	17.72	450
4 MM BELT THICKNESS																
NORMAL FLEX	3.15	80	3.54	90	3.94	100	4.33	110	5.12	130	6.30	160	8.27	210	9.84	250
BACK FLEX	4.33	110	5.12	130	6.30	160	7.48	190	9.45	240	12.2	310	16.54	420	18.5	470
5 MM BELT THICKNESS																
NORMAL FLEX	3.94	100	3.94	100	4.33	110	4.72	120	5.91	150	7.09	180	8.86	225	11.02	280
BACK FLEX	5.12	130	5.91	150	7.09	180	8.66	220	10.24	260	13.39	340	17.72	450	19.69	500

For reinforced belts add 10% to table values



CLEAT CENTER (PITCH) LOCATIONS FOR VOLTA POSITIVE DRIVE BELTS

Reference Chart

Please use the chart below to complete the Volta Cleat Design Worksheet, when using Volta's positive drive belts – SuperDrive™, DualDrive, and DualDrive Small Pulley. Cleats on these belts must be placed between lugs located on the bottom of the belt. The chart below will give you the center to center dimensions needed.

VOLTA CENTER TO CENTER (PITCH) DIMENSIONS											
SUPERDRIVE™ (SD) CENTER TO CENTER				DUALDRIVE (DP) CENTER TO CENTER				DUALDRIVE SMALL PULLEY (DDSP) CENTER TO CENTER			
# OF LUGS	MM	INCHES (DECIMALS)	INCHES (FRACTIONS)	# OF LUGS	MM	INCHES (DECIMALS)	INCHES (FRACTIONS)	# OF LUGS	MM	INCHES (DECIMALS)	INCHES (FRACTIONS)
2	79.4	3.126	3-1/8	2	99	3.898	3-7/8	3	60	2.362	2-3/8
3	119.1	4.689	4-11/16	3	148.5	5.846	5-7/8	4	80	3.15	3-1/8
4	158.8	6.252	6-1/4	4	198	7.795	7-13/16	5	100	3.937	3-15/16
5	198.5	7.815	7-13/16	5	247.5	9.744	9-3/4	6	120	4.724	4-3/4
6	238.2	9.378	9-3/8	6	297	11.693	11-11/16	7	140	5.512	5-1/2
7	277.9	10.941	10-15/16	7	346.5	13.642	13-5/8	8	160	6.299	6-5/16
8	317.6	12.504	12-1/2	8	396	15.591	15-9/16	9	180	7.087	7-1/16
9	357.3	14.067	14-1/16	9	445.5	17.539	17-9/16	10	200	7.874	7-7/8
10	397	15.63	15-5/8	10	495	19.488	19-1/2	11	220	8.661	8-11/16
11	436.7	17.193	17-3/16	11	544.5	21.437	21-7/16	12	240	9.449	9-7/16
12	476.4	18.756	18-3/4	12	594	23.386	23-3/8	13	260	10.236	10-1/4
13	516.1	20.319	20-5/16	13	643.5	25.335	25-5/16	14	280	11.024	11
14	555.8	21.882	21-7/8	14	693	27.283	27-5/16	15	300	11.811	11-13/16
15	595.5	23.445	23-7/16	15	742.5	29.232	29-1/4	16	320	12.598	12-5/8
16	635.2	25.008	25	16	792	31.181	31-3/16	17	340	13.386	13-3/8
17	674.9	26.571	26-9/16	17	841.5	33.13	33-1/8	18	360	14.173	14-3/16
18	714.6	28.134	28-1/8	18	891	35.079	35-1/16	19	380	14.961	14-15/16
19	754.3	29.697	29-11/16	19	940.5	37.028	37	20	400	15.748	15-3/4
20	794	31.26	31-1/4	20	990	38.976	39	21	420	16.535	16-9/16
21	833.7	32.823	32-13/16	21	1039.5	40.925	40-15/16	22	440	17.323	17-5/16
22	873.4	34.386	34-3/8	22	1089	42.874	42-7/8	23	460	18.11	18-1/8
23	913.1	35.949	35-15/16	23	1138.5	44.823	44-13/16	24	480	18.898	18-7/8
24	952.8	37.512	37-1/2	24	1188	46.772	46-3/4	25	500	19.685	19-11/16
25	992.5	39.075	39-1/16	25	1237.5	48.72	48-3/4	26	520	20.472	20-1/2
26	1032.2	40.638	40-5/8	26	1287	50.669	50-11/16	27	540	21.26	21-1/4
27	1071.9	42.201	42-3/16	27	1336.5	52.618	52-5/8	28	560	22.047	22-1/16
28	1111.6	43.764	43-3/4	28	1386	54.567	54-9/16	29	580	22.835	22-13/16
29	1151.3	45.327	45-5/16	29	1435.5	56.516	56-1/2	30	600	23.622	23-5/8
30	1191	46.89	46-7/8	30	1485	58.465	58-7/16	--	--	--	--