

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.

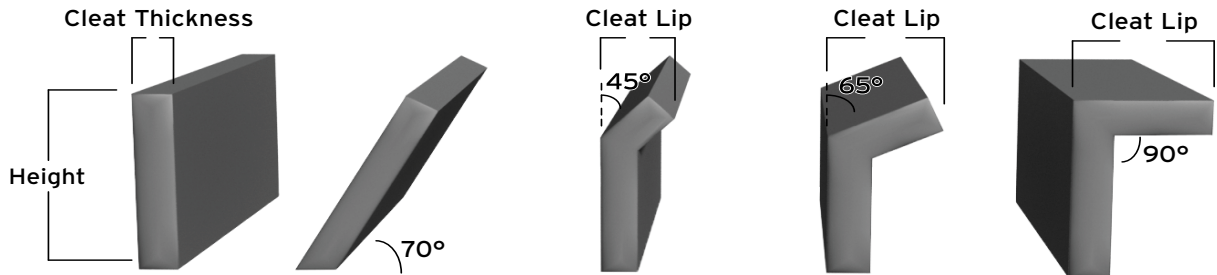
▶ Width (mm)

■ DRAWINGS

▶ Include drawing of cleat style, placement, notch-outs, tapers, "non-standard" cleat patterns, etc. when emailing worksheet for processing.

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.

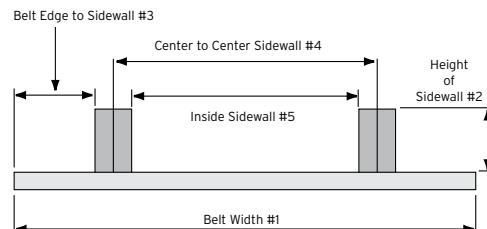
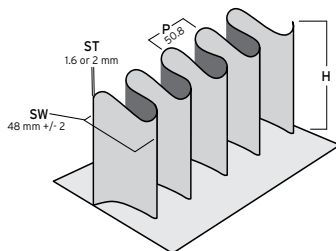
▶ Cleat spacing (distance between ends of cleats and inside of sidewall):
 Standard gap is 1/4", but can be reduced to 1/8". **IMPORTANT NOTE:** Wall corrugations are NOT symmetrical from one side of the belt to the other, cleats will not always align with the inside convolutions of the sidewall.

▶ 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 | -- | -- | -- | -- |