Before You Ask For A Quote

How to Measure Your Old Filter Belt

Measure the old belt properly and photograph the right details, and we can answer with engineering instead of three rounds of questions. Seven steps and six photos: dimensions go straight into the engineering RFQ form, and photos can be attached to the form or to your reply to the confirmation email.

Start the seven stepsAlready measured? Send it

Why measureToolsThe 7 stepsPhoto checklistSend it

Measuring your old belt is how a replacement vacuum belt filter cloth actually gets specified: the width, the length, the joint, the edge finish and the machine nameplate are what turn a request into something a factory can build. The old belt is the most reliable source of its own size there is — more reliable than an order from three years ago, and more reliable than a catalogue entry for a machine that has been rebuilt since.

A

The old belt is the drawing

It carries the real width, the real length after service, the joint that was fitted and how the edges were running. Nothing else on site tells you all five.

B

The nameplate is a cross-check

Brand and model let us sanity-check your dimensions against the machine. If the plate is gone, we work from the belt — it is not a blocker.

C

Photos answer what numbers cannot

Joint construction, edge condition and where the failure started are all read off photographs. Six of them cover it.


Export packaging and crating setup for a wide synthetic filter belt roll wrapped in protective moisture barrier film and strapped in a heavy-duty wooden shipping crate.

Export crating reference: heavy filter belt roll sealed in protective barrier wrap and secured in a reinforced timber crate for international transport. ILLUSTRATION

Before You Start

What to take with you

Machine stopped, isolated and tagged out before any of this. None of these steps are worth doing on a running filter.

Tape measure

Long enough to reach across the full belt width in one run, and to walk the belt length.

Phone camera

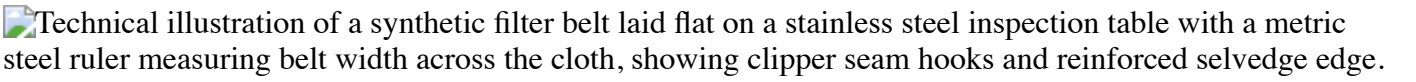
Every step that asks for a photo produces reference images to attach to the engineering RFQ form, or to your reply to the confirmation email (or send to rfq@hvbfcloth.com).

Torch

Joints and nameplates are usually in the worst-lit part of the machine.

Chalk or tape

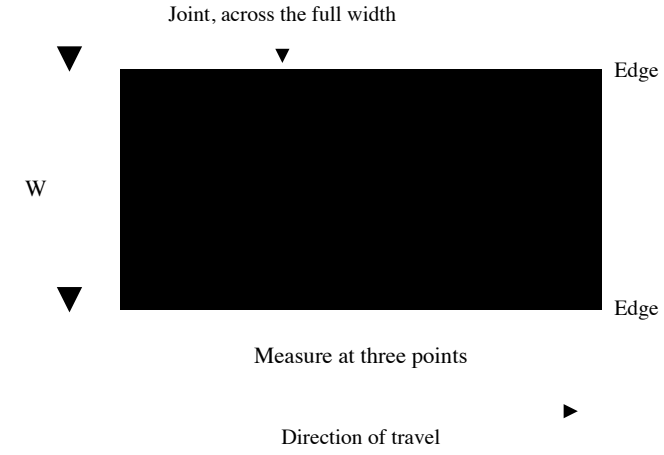
Mark your starting point on an endless belt so you know where one lap ends.


Technical illustration of a synthetic filter belt laid flat on a stainless steel inspection table with a metric steel ruler measuring belt width across the cloth, showing clipper seam hooks and reinforced selvedge edge.

Measurement setup: verifying belt width with a metric steel rule, inspecting clipper seam joint and reinforced selvedge edge. ILLUSTRATION

Width — measured across the cloth face

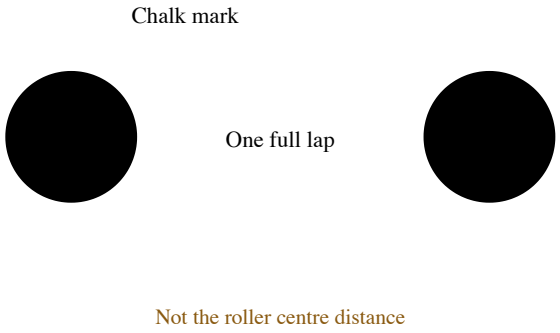
PLAN VIEW, LOOKING DOWN AT THE BELT



Take the tape along the cloth face, not as a straight chord across a sagging belt. If the three figures differ, send all three — that difference is information.

Developed length — one full lap

SIDE VIEW OF THE ENDLESS BELT



Mark a start point, then follow the cloth for one whole lap back to the mark. A used belt has stretched: send what you measure today and say it is off a used belt — do not correct it yourself.

The two dimensions every quotation starts from. Everything else can be worked out from photographs; these two have to be measured.
The Seven Steps

Measure it once, properly

Each step shows what it produces and which field on the engineering form it fills. Work down the list and the form fills itself.

1. 01

Measure the width

Measure across the cloth face, perpendicular to the direction of travel. Take the measurement at three points along the belt and write down all three — if they differ, the belt has been pulled out of shape and we need to know that.

You produce Width in mm, at three points
Fills form field cloth_width_mm *(E3)*

Common mistakeDo not pull the tape as a straight chord across a sagging belt. Let the tape follow the cloth face.

2. 02

Measure the length or circumference

On an endless belt, mark a start point with chalk or tape, then walk the tape along the belt for one full lap back to the mark. If the belt cannot be turned, take the roll centre distances and say clearly that the figure is derived, not measured.

You produce Length in mm, and whether it is measured or derived
Fills form field cloth_length_mm *(E4)*

Common mistakeA used belt has usually stretched. Send what you measure today and tell us it is a used belt — do not correct it yourself.

3. 03

Identify the joint

Work out which of the four joint types you have: clipper hooks joined by a pin, a PAD seam worked into the fabric, interlocking spirals with a pintle wire, or a lapped and bonded joint. If you are not sure, photograph it and let us identify it.

You produce Joint type, plus close-up photos of both faces
How to submit Upload to Seam photo slot in RFQ form (or send to rfq@hvbfcloth.com)

Common mistakeOne photo of one face is not enough. The failure is often only visible from the other side.

4. 04

Look at the edges

Note how the edges are finished and how worn they are. Photograph both edges, and say which is the drive side as you face the discharge end.

You produce Edge condition photos, left and right
How to submit Upload to Edge / tracking slot in RFQ form (or send to rfq@hvbfcloth.com)

Common mistakePhotograph the edge before you cut the belt off the machine — edge damage tells us how it was running.

5. 05

Copy the machine nameplate

Brand, model and serial number, exactly as printed. If the plate is gone or unreadable, that is fine — the form accepts unknown, and the belt dimensions carry the job.

You produce Machine brand and model, or unknown

Fills form field equipment_brand / equipment_model (or upload plate photo) *(E1 / E2)*

Common mistakeLight the plate from an angle. A straight flash usually washes out the stamped text.

6. 06

Record perforation or drainage detail

If the cloth is perforated or has a defined drainage zone, photograph it against something that gives scale, and note where the zone starts relative to the edge.

You produce Photos of the perforation or drainage zone
How to submit Upload to Old cloth photo slot in RFQ form (or send to rfq@hvbfcloth.com)

Common mistakeShoot square-on, not at an angle — hole spacing is impossible to read from a slanted photo.

7. 07

Vertical pressure filters: the plate

Vertical pressure filters only

On a tower press or stacked pressure filter, the plate is what defines the cloth. Record the filtration area per plate and the plate dimensions, from the machine data sheet where you have it.

You produce Plate area in m2 and plate dimensions
Fills form field plate_area_m2 *(E5)*

Common mistakeThis step only applies to vertical pressure filters. On a vacuum belt filter, skip it.

Measurement to form field, in one table

Step	What you send	Where it goes	Submission route
01	Width in mm, three points	cloth_width_mm	Form field (E3)
02	Length in mm, measured or derived	cloth_length_mm	Form field (E4)
03	Joint type and close-ups of both faces	Note joint in form & upload to Seam slot	Direct upload / email
04	Edge condition photos	Upload to Edge / tracking slot	Direct upload / email
05	Machine brand and model, or unknown	equipment_brand & upload Nameplate slot	Form field + upload
06	Perforation or drainage zone photos	Upload to Old cloth / GA slot	Direct upload / email
07	Plate area in m2 (vertical pressure filters)	plate_area_m2	Form field (E5)

No filter cloth specification figures are published on this page.

Photo Checklist

Six photos before you leave the machine

Tick them off as you take them. Nothing here is stored or uploaded from this page — it is a scratch list for your own use while you are standing at the filter.

- ☐ 01 The old cloth on the machine Wide shot showing the cloth, the frame and the run — upload to Old cloth full view slot.
- ☐ 02 The joint, both faces Close-up. If the joint has failed, include the failure — upload to Seam close-up slot.
- ☐ 03 Both edges Close-up of each side, labelled left and right — upload to Edge / tracking profile slot.
- ☐ 04 The machine nameplate Brand, model, serial. Lit from an angle — upload to Machine nameplate slot.
- ☐ 05 Perforation or drainage zone If your cloth has one. Shot square-on — upload to Drawing / GA slot.
- ☐ 06 The failure area If something has failed, photograph it before it is cut out or cleaned up.

New installation with no old cloth? Tick the new project option on the form and send the machine model plus any drawing or data sheet you have instead. You will not be blocked for not having an old belt to photograph.
Field Engineering Tool

Printable Field Measurement Worksheet

Taking measurements at the filter? Use this standardized A4 clipboard worksheet to record widths, take-up stroke, seam fastener pitch, and slurry data directly at the machine.

Print A4 Worksheet Download A4 PDF
hvbfcloth.com · Field Measurement & Verification Protocol Form Ref: M6-HVBF-WORKSHEET
Plant / Mill Name:
_____
Unit Tag / Filter ID:
_____
Machine Brand:
_____
Machine Model:
_____
Inspection Date:
_____
1. Dimensional Verification (Physical Cloth, Not Roller)
Width 1 (Feed End):
_____ mm
Width 2 (Mid Zone):
_____ mm
Width 3 (Discharge):
_____ mm
Total Circumferential Length:
_____ mm ([ ] Measured / [ ] Derived)
Take-Up Carriage Position:
[ ] Retracted (0%) [ ] Mid (~50%) [ ] Extended
2. Seam & Edge Specification
Joint Architecture:
[ ] Clipper [ ] PAD [ ] Spiral [ ] Welded
Fastener Metallurgy:
[ ] 316L [ ] 904L [ ] Hastelloy C-22/C-276
Clipper Row Pitch (10-hook span):
_____ mm / Pin: [ ] PEEK [ ] Nylon [ ] Steel
Edge Tracking Profile:
[ ] Plain [ ] Hot-melt PU Bead [ ] PVC Bead
3. Slurry & Operating Parameters
Filtered Material:
_____

Operating Temp:
_____ °C
Slurry pH:

_____
4. Photo Checklist (Tick When Captured)
[ ] Photo 1: Machine context [ ] Photo 2: Seam face (top) with metric rule [ ] Photo 3: Seam underside [ ] Photo 4: Both edges & tracking bead [ ] Photo 5: Discharge roller & cake fracture [ ] Photo 6: Machine nameplate
Submit online at https://hvbfcloth.com/rfq/engineering/ or email to rfq@hvbfcloth.com. Independent replacement cloth — not an OEM spare part. Dimensions and construction are confirmed per enquiry.
FAQ

Measuring questions worth settling first

- How do I measure the length of an endless belt?
- The belt has stretched. Do I send the measured size or the original size?
- There is no nameplate on the machine. Can you still quote?
- This is a new installation and there is no old cloth. What do I send?

These answers provide engineering guidance based on mechanical and chemical filtration principles. For specific machine parameters, submit your operating data to our technical desk.

Send It

Send your measurements and photos

One form, one set of facts. No account, no registration, and you can say unknown wherever you genuinely do not know.

The photographs can go on the form or on your reply. The engineering RFQ form takes the joint, edge and nameplate photographs you have just taken as attachments. Attach up to 8 files (each up to 3.5 MB; keep the combined total under about 3 MB). For larger files, reply to the confirmation email and attach them there. You can also email them directly to rfq@hvbfcloth.com.

Submit measurements on engineering form Just have a quick question?

Independent replacement cloth — not an OEM spare part. Dimensions and construction are confirmed per enquiry.

Related

Came here from a fault?

Belt Tracking

The cloth drifts, wrinkles or needs constant re-centering. Cloth, machine and process causes, split out.

Read →

Joint / Seam Failure

The joint leaks, opens or pulls out, and vacuum drops as it passes the box.

Read →

Horizontal Vacuum Belt Filter Cloth

Endless belts for rubber-belt HVBF machines.

Read →

Vertical Pressure Filter Cloth

Tower press and stacked pressure filter cloth, low-elongation endless construction.

Read →

All filtration problems →

Last updated: 2026-10-02 · Version: v1.1

Industrial Filter Cloth

Industrial Filter Cloth Solutions for Demanding Solid-Liquid Separation

LithiumPhosphateAlumina4A ZeoliteFGDGypsum

Enquiries and attachments: rfq@hvbfcloth.com

ProductsApplicationsMachinesMatch Existing ClothMaterialsSolutionsResourcesFactoryQuality Measure Old Belt Request Quote Evidence Center About & Governance Contact Español (Minas) Deutsch (Industrie) Français (Mines)

Photographs on this site are process illustrations unless captioned otherwise. They show what each step or duty is; they are not photographs of our own plant, and they are not customer installations.

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