

COORSTEK

Amazing Solutions.

CoorsTek, the industry's leading supplier of advanced ceramics for over 35 years, allows you to say goodbye to the performance problems of plastic. We've spent years developing ceramics for cones, tips, and stock savers, and today we are the only supplier of high purity aluminum oxide ceramics for cleaner system applications.

Our ceramic consistently withstands the most demanding processing conditions. Ceramic won't sag, crack or deteriorate when attacked by the aggressive chemicals, abrasives or debris often present in recycled material. Compare that performance to the traditional problems of plastic, which often wears, distorts, softens and sags under the same conditions.

Improve your cleaner system performance and product quality today with rugged, extremely wear-resistant CoorsTek ceramic cleaner cones.

WE HAVE WHAT YOU NEED.

Ceramic cones, tips and stock savers are available for most cleaner systems.

- Ahlstrom
- Albia
- Andritz
- Beloit
- Sprout Bauer
- Black Clawson
- Bird
- Celleco
- Hymac
- Nichols
- Richard Berg
- Voith Sulzer
- ...and more

Special designs available upon request.

We also offer a full line of cleaner system ancillary items.

For more information on CoorsTek Ceramics for Cleaning Systems or any of our other state-of-the-art products call us at **503.648.3183** or send E-mail to sales@or.coorstek.com.

Ceramic Cones
Ceramic Tips
Ceramic Stock Savers



AMAZING SOLUTIONS

COORSTEK

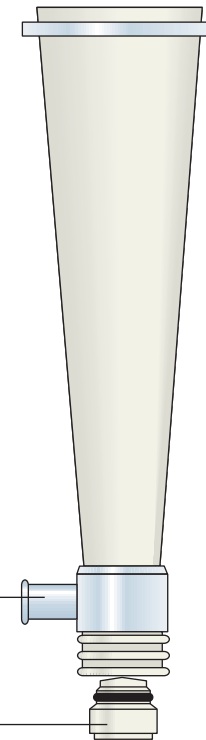
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Ceramic Cones
Ceramic Tips
Ceramic Stock Savers

TYPICAL DESIGNS

■ **Ahlstrom TC133**

Ceramic Cone

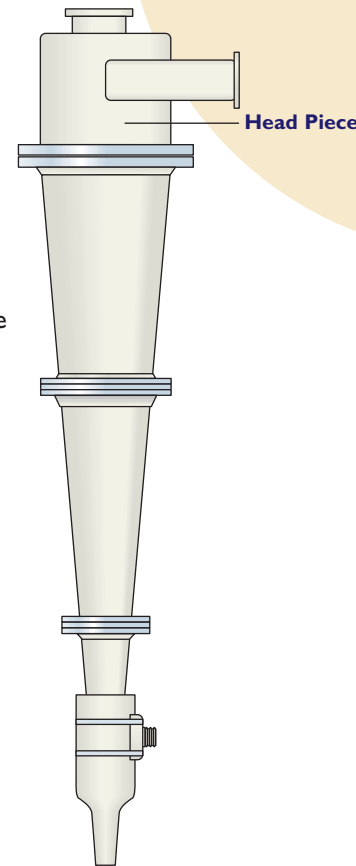


Stainless Steel Tip

Site Glass

■ **Bauer 620**

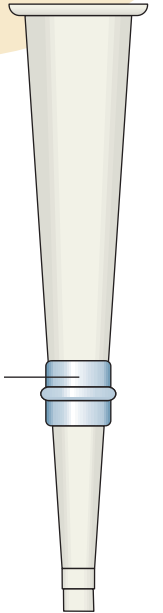
Ceramic Upper, Middle and Lower Cone
Ceramic Stock Saver



Head Piece

■ **Bauer 606**

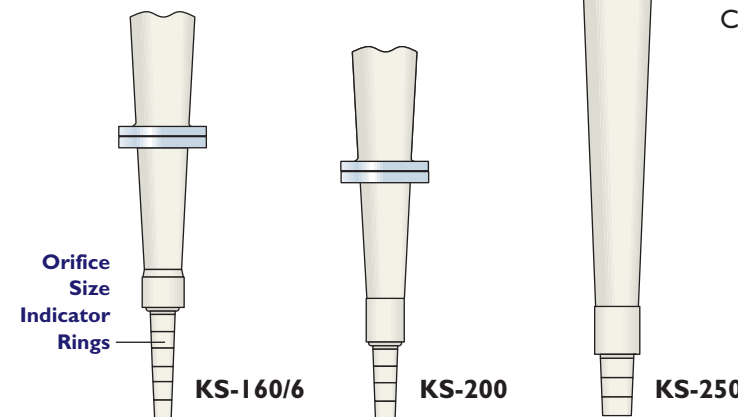
Ceramic Upper Cone
Ceramic Tip



Tri-Clover Clamp

■ **Voith Sulzer**

Ceramic Tips



Orifice Size Indicator Rings

KS-160/6

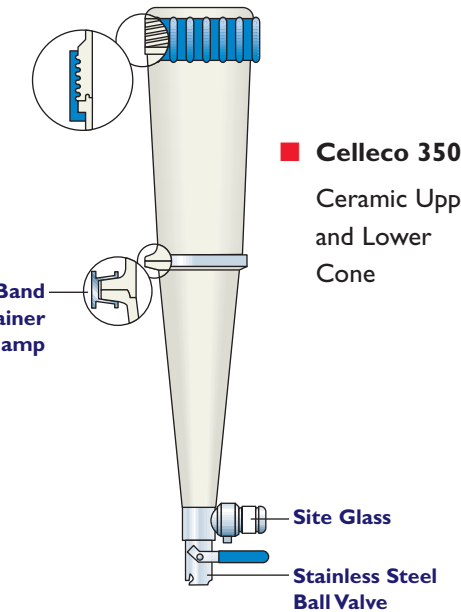
KS-200

KS-250

V-Band Retainer Clamp

■ **Celleco 350**

Ceramic Upper and Lower Cone



Site Glass

Stainless Steel Ball Valve

Notes: Items shown are representative of typical designs. Please contact your local sales representative to discuss your specific requirements. Specifications are effective as of 1/2000 and are subject to change without notice.

CoorsTek – Oregon Operations, 555 N.E. 53rd Avenue, Hillsboro, Oregon 97124 USA
Phone: 503.648.3183 • Fax: 503.648.1501 • E-mail: sales@or.coorstek.com



AMAZING SOLUTIONS

COORSTEK

Amazing Solutions.

- Single & Double Slot Covers
- Herringbone Covers
- Felt Conditioning Elements
- Stainless Steel Structures
- Lubrication Showers
- Vacuum Systems
- Mounting Accessories
- Deckles

CoorsTek Felt Conditioning Units are custom designed to provide optimum felt conditioning performance.

Available in single slot, double slot, or herringbone designs, our Felt Conditioning Units extend felt life, reduce drag load, improve felt cleaning and improve moisture profile.

FEATURES AND BENEFITS

Long-term performance

Advanced ceramic low-friction surfaces reduce drag loads and extend felt life.

Our Vinyl Ester resin carrier system provides corrosion and temperature resistance that greatly exceeds polyester resin carrier systems.

316L stainless steel structure provides corrosion resistance and insures long-term felt conditioning unit stability.

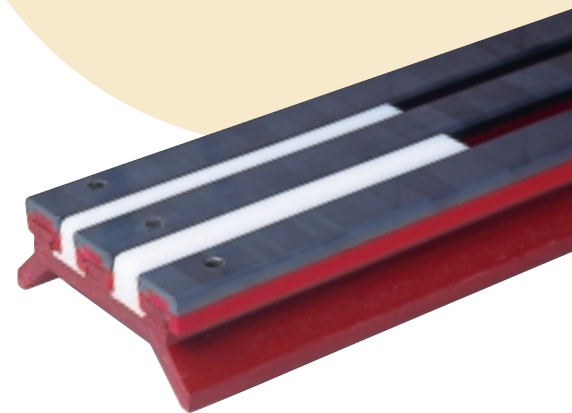
Heat cured adhesive system

Provides an adhesive bond with temperature resistance 30% higher than competitive ambient temperature cured systems.

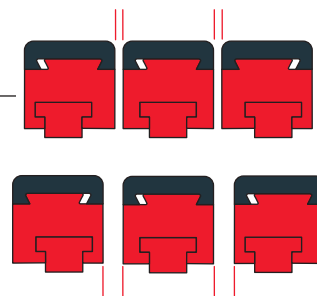
Everything you need

From single components to the design and supply of a complete felt conditioning unit, CoorsTek has cost-effective solutions to meet your needs.

For more information on CoorsTek Felt Conditioning Units or any of our other state-of-the-art products call us at **503.648.3183** or send E-mail to sales@or.coorstek.com.

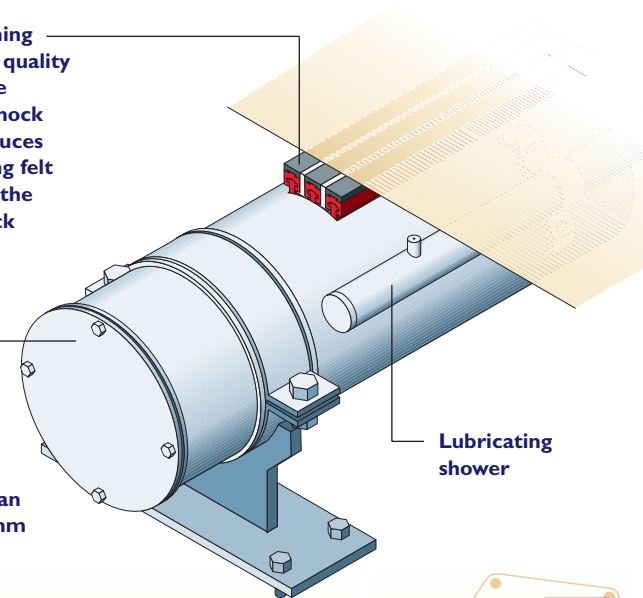


CoorsTek offset T-bar option allows for open area adjustment by reversing elements.

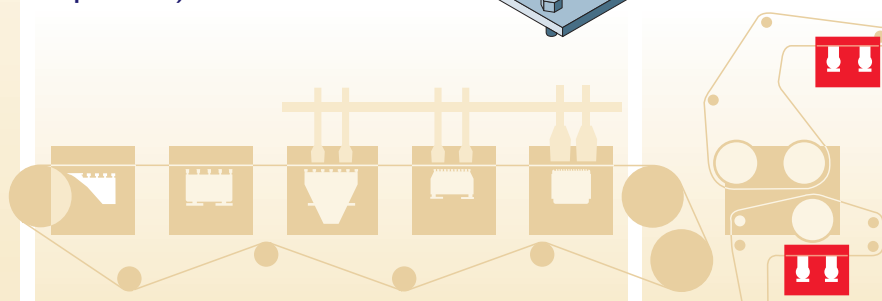


Silicon Nitride forming elements offer high quality surfaces and provide excellent thermal shock resistance. This reduces drag loads, extending the life and eliminating the risk of thermal shock related failure.

316L stainless steel structures are designed with 15-25% more mass than competitive designs, resulting in deflection of less than .001" per foot (.08mm per meter).



Lubricating shower





COORSTEK



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- Single & Double Slot Covers
- Herringbone Covers
- Felt Conditioning Elements
- Stainless Steel Structures
- Lubrication Showers
- Vacuum Systems
- Mounting Accessories
- Deckles



FELT CONDITIONING ELEMENTS Typical Options & Specifications

	Description	Mounting	Height in [mm]	Width in [mm]	Material
	CeraSlide®	Dovetail or T-Bar	1.00 [25.4] 1.39 [35.3]	1.50 [38.1] 1.63 [41.5] 1.75 [44.5] 1.83 [46.5] 1.90 [48.3] 2.17 [55.0]	AD96, FG99.5, TA, TTZ, SiN, SiC
	Plastic	Dovetail or T-Bar	1.00 [25.4] 1.39 [35.3]	1.50 [38.1] 1.63 [41.5] 1.75 [44.5] 1.83 [46.5] 1.90 [48.3] 2.17 [55.0]	UHMW POLYETHYLENE

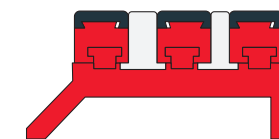
HERRINGBONE COVERS Typical Options & Specifications

	Composite Assembly	Dovetail, T-bar or Bolted	1.75 [44.4] to 2.50 [63.5]	Custom	AD96, FG99.5, TA, TTZ, SiN, SiC
	Plastic	Dovetail, T-bar or Bolted	1.00 [25.4] to 2.00 [50.8]	Custom	UHMW POLYETHYLENE

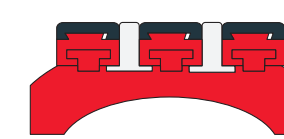
MOUNTING ACCESSORIES Options & Specifications

	T Bar	N/A	Custom	1.50 [38]	LFRP
	Dovetail to T-bar Adapter	N/A	Custom	1.50 [38]	LFRP

LFRP FELT CONDITIONING BOX ADAPTERS Typical Design Options



Angled/Vertical Mounting



Round Tube Mounting



Angled Box Mounting



Flat Top Mounting

Notes: All standard structure designs are constructed of 316L stainless steel. Custom designs available upon request. Specifications are effective as of 1/2000 and are subject to change without notice.

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COORSTEK

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Stainless Steel Structures
Forming Board Leads
Forming Board Trails
Mounting Accessories



CoorsTek understands how critical the forming board is to paper and board machine quality. We've been in the business of optimizing machine performance for over thirty-five years, offering custom designed systems to help you get the best results from your forming board.

Our goal is to provide you with economical, durable design solutions to meet the ongoing challenges of forming board stability, drainage control, CD profile accuracy, retention and proper fabric support.

FEATURES AND BENEFITS

■ Custom designs equal optimum performance

CoorsTek forming boards are custom designed for each application, insuring correct fit and meeting your specific requirements for optimum performance.

■ Proven stability

Our forming board structures are designed with 15-25% more mass than competitive designs. This means reduced vibration and deflection of less than .001" per foot (.08mm per meter).

■ Cost-effective solutions

From single components to the design and supply of complete forming board systems, CoorsTek has the cost-effective solutions to meet your needs.

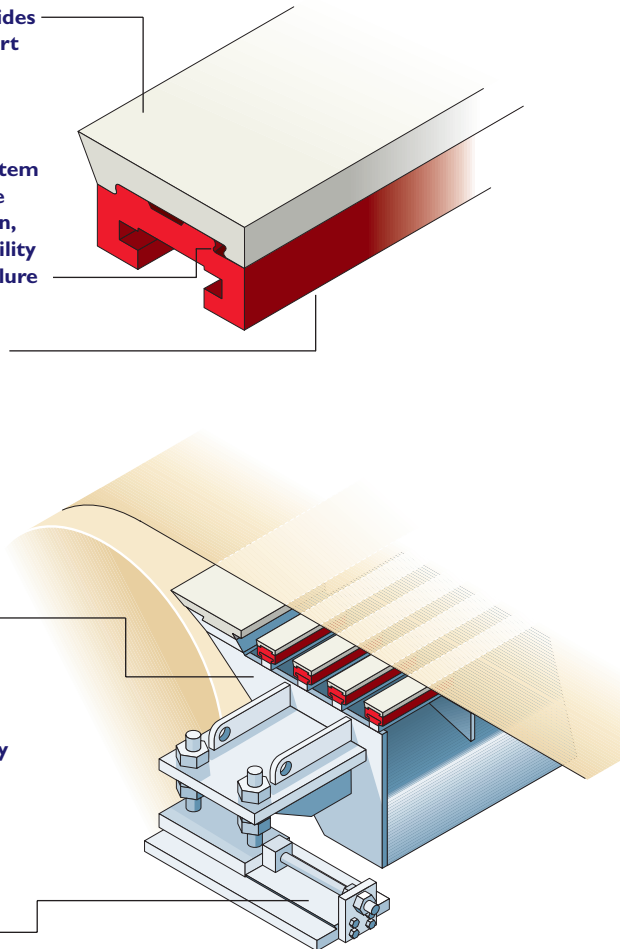
Ceramic surface provides precision fabric support

Glass fiber locking system mechanically locks the ceramic and pultrusion, eliminating the possibility of adhesive-related failure

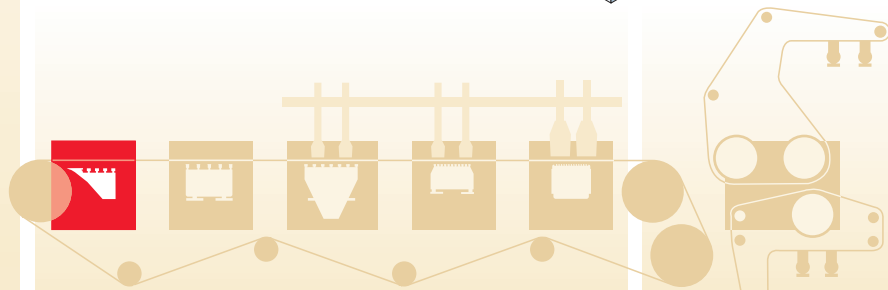
Pultrusion (Fiberglass Vinyl Ester Resin System) provides corrosion resistance that greatly exceeds polyester resin systems

CoorsTek 316L stainless steel structures provide corrosion resistance and insure long-term forming board stability

Adjustment screws for accurate vertical and lateral positioning



For more information on CoorsTek Forming Board Systems or any of our other state-of-the-art products call us at **503.648.3183** or send E-mail to sales@or.coorstek.com.



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Stainless Steel Structures
Forming Board Leads
Forming Board Trails
Mounting Accessories

FORMING ELEMENTS Typical Options & Specifications

Description	Mounting	Height in [mm]	Width in [mm]	Material
Solid Segmented Lead & Trail	Dovetail	1.00 [25] to 1.30 [33]	up to 17.00 [431]	AD 96 FG 99.5
CeraSlide® Lead	Dovetail or T-Bar	1.25 [32] to 1.58 [40]	up to 7.87 [200]	AD 96 FG 99.5
Tile Style Lead	Dovetail or T-Bar	1.00 [25] to 1.58 [40]	up to 14.37 [365]	AD 96 FG 99.5
CeraSlide® Trail	Dovetail or T-Bar	1.00 [25] to 1.58 [40]	1.50 [38] 1.67 [42] 2.00 [51] 2.50 [64] 3.00 [76] 3.94 [100]	AD 96 FG 99.5 TA
ValuFoil® Trail	T-Bar	1.00 [25] to 1.10 [28]	2.50 [64] 3.00 [76]	AD96 FG 99.5
Plastic Lead and Trail	Dovetail or T-Bar	1.00 [25] to 1.58 [40]	1.50 [38] 1.67 [42] 2.00 [51] 2.50 [64] 3.00 [76] 3.94 [100]	UHMW POLYETHYLENE

MOUNTING ACCESSORIES Options & Specifications

T Bar	N/A	Custom	1.50 [38]	LFRP
Dovetail to T-bar Adapter	N/A	Custom	1.50 [38]	LFRP

STAINLESS STEEL STRUCTURES Typical Arrangements

Lead in(mm)	Trail in(mm)	Trail Qty	Slot Width in [mm]	Box Width in [mm]	Open Area
7.87 [200]	2.00 [51]	3	1.97 [50]	19.76 [502]	30%
7.87 [200]	2.50 [64]	3	1.46 [37]	19.76 [502]	30%
7.87 [200]	2.00 [51]	4	1.97 [50]	23.74 [603]	33%
7.87 [200]	2.50 [64]	4	1.46 [37]	23.74 [603]	25%
7.87 [200]	2.00 [51]	5	1.97 [50]	27.72 [704]	35%
7.87 [200]	2.50 [64]	5	1.46 [37]	27.72 [704]	29%
7.87 [200]	2.00 [51]	6	1.97 [50]	31.69 [805]	37%
7.87 [200]	2.50 [64]	6	1.46 [37]	31.69 [805]	28%
7.87 [200]	2.00 [51]	7	1.97 [50]	35.70 [906]	39%
7.87 [200]	2.50 [64]	7	1.46 [37]	35.70 [906]	29%

Notes: All standard structure designs are constructed of 316L Stainless Steel. Custom designs available upon request. Specifications are effective as of 1/2000 and are subject to change without notice.

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COORSTEK

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Single & Multiple
Compartment Hivac Units
Stainless Steel Structures
Vacuum Systems
Hivac Covers
Deckles



CoorsTek Hivac Units are designed to reduce drive load requirements, increase fabric life and improve dryness at the couch with lower vacuum level requirements. Available in single or multiple compartment designs, our Hivac Units can be custom designed to achieve your specific performance goals.

Our patented Hivac cover design provides removable ceramic rails that offer unparalleled repair and upgrade flexibility. Our stainless steel cross bracing is the most stable and deflection resistant available.

FEATURES AND BENEFITS

■ Easy replacement of individual rails

CoorsTek patented dovetail mount system provides easy replacement of individual ceramic rails without removing the cover assembly. This feature also decreases spares cost by eliminating the need to keep complete cover assemblies as spares.

■ Heat cured adhesive system

Provides an adhesive bond with temperature resistance 30% higher than competitive ambient temperature cured systems.

■ Custom Design

Multiple Compartment Hivac Units are custom designed based on grade and speed to achieve optimum water removal capacity at the lowest vacuum and friction levels possible.

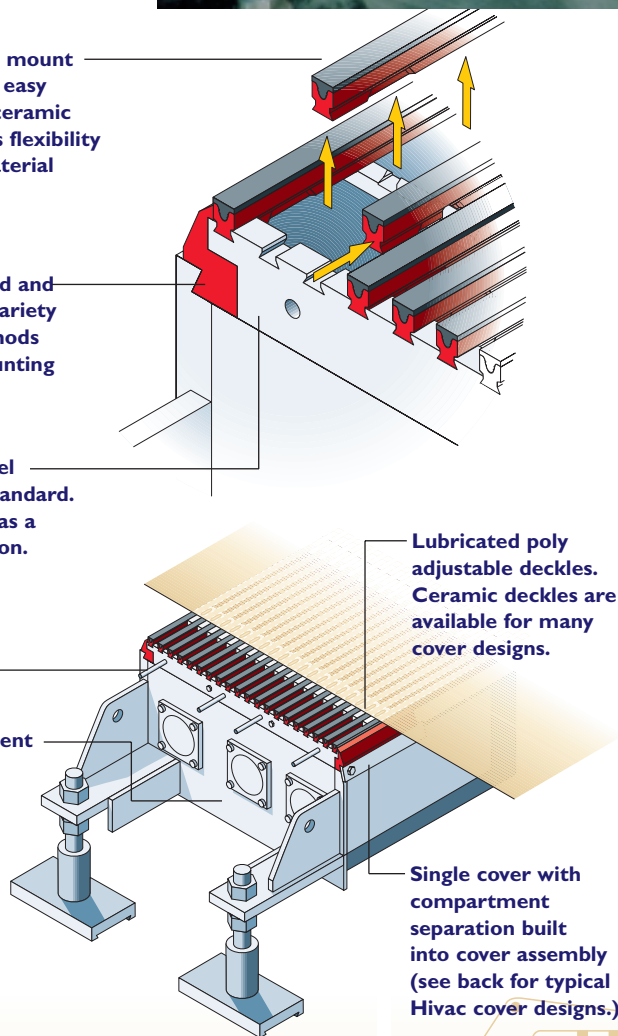
Patented dovetail mount system allows for easy removal of each ceramic rail. This provides flexibility for repair and material upgrades.

Custom LFRP lead and trail adapts to a variety of mounting methods (see back for mounting options.)

316L stainless steel cross bracing is standard. LFRP is available as a reduced cost option.

Lubrication connection

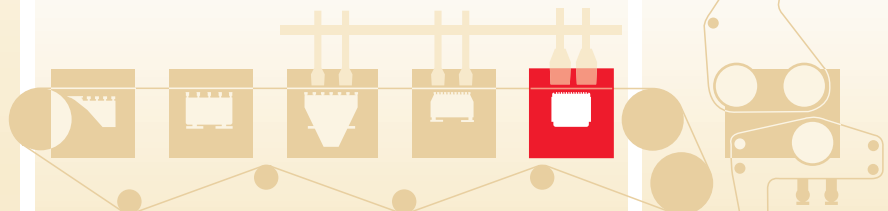
Triple Compartment Hivac Unit (see back for Multiple Compartment benefits.)



Lubricated poly adjustable deckles. Ceramic deckles are available for many cover designs.

Single cover with compartment separation built into cover assembly (see back for typical Hivac cover designs.)

For more information on CoorsTek Hivac Units or any of our other state-of-the-art products call us at **503.648.3183** or send E-mail to sales@or.coorstek.com.



COORSTEK

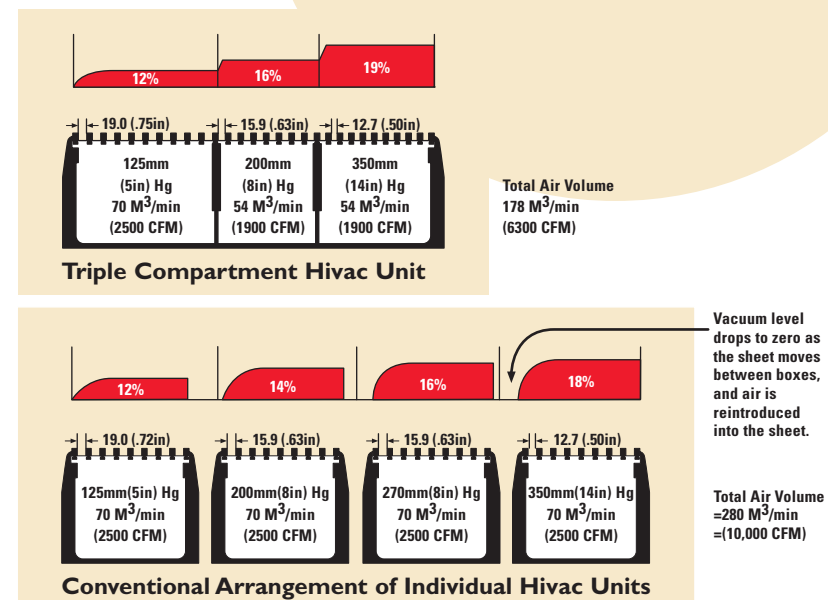
Amazing Solutions.

Single & Multiple
Compartment Hivac Units
Stainless Steel Structures
Vacuum Systems
Hivac Covers
Deckles

BENEFITS OF MULTI-COMPARTMENT HIVAC UNITS

- Increased dewatering capacity
- Less space required
- Lower friction (reduced drag load)
- Lower fabric wear
- Air is not reintroduced to sheet
- Improved efficiency

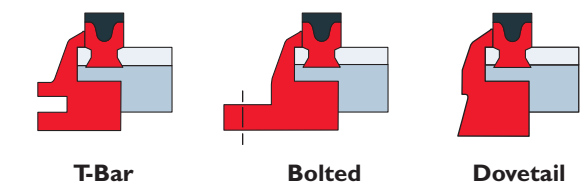
EFFICIENCY COMPARISON



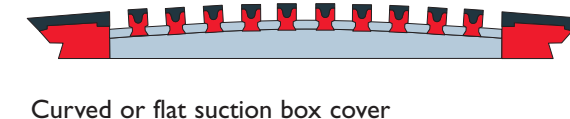
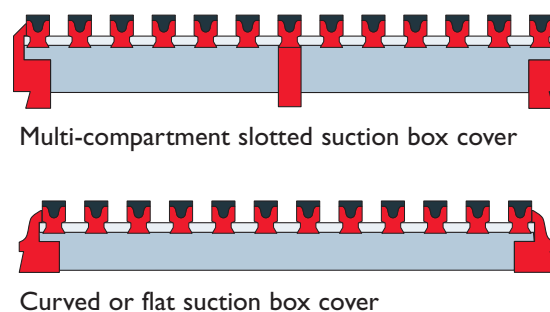
HIVAC COVER Typical Options & Specifications

Materials	AD96, FG99.5, TA, TTZ, SiN, SiC, UHMW Polyethylene
Blade Widths in [mm]	0.50 [12.7], 0.63 [16], 0.75 [19.1]
Slot Widths in [mm]	0.50 [12.7], 0.63 [16], 0.75 [19.1]
Cover Height in [mm]	2.00 [50.8]
Deckles	Finger, Adjustable, Lubricated
UHMW Polyethylene	(Ceramic available for many cover designs)

MOUNTING OPTIONS



HIVAC COVER Typical Designs



Notes: Typical designs shown. Custom designs available upon request. Specifications are effective as of 1/2000 and are subject to change without notice.

Dynamic Forming Elements
Static Forming Elements
Stainless Steel Structures
Mounting Accessories



Improve your machine productivity and product quality with patented CoorsTek VersaFoil® dynamic forming elements. The VersaFoil will transform your static hydrofoil unit into an assembly of dynamic elements offering unparalleled versatility.

VersaFoil angles can be adjusted on the machine while it is running, providing unique flexibility and allowing you to optimize drainage, activity, retention and consistency. The VersaFoil is the only adjustable angle foil available in which the angle can be changed without vertical adjustment of the hydrofoil unit.

FEATURES AND BENEFITS

■ Unparalleled versatility

VersaFoil angles are adjustable 0-4 degrees, allowing quick and easy drainage adjustment without changing foils.

Available with manual or remote hydraulic adjustment.

■ Enhanced durability

All of our ceramic forming elements use an innovative glass fiber locking system to eliminate the possibility of adhesive-related failure that could destroy the forming fabric.

The VersaFoil's wear-resistant angle adjustment mechanism insures long-term maintenance of precise adjustment.

■ Cost-effective solutions

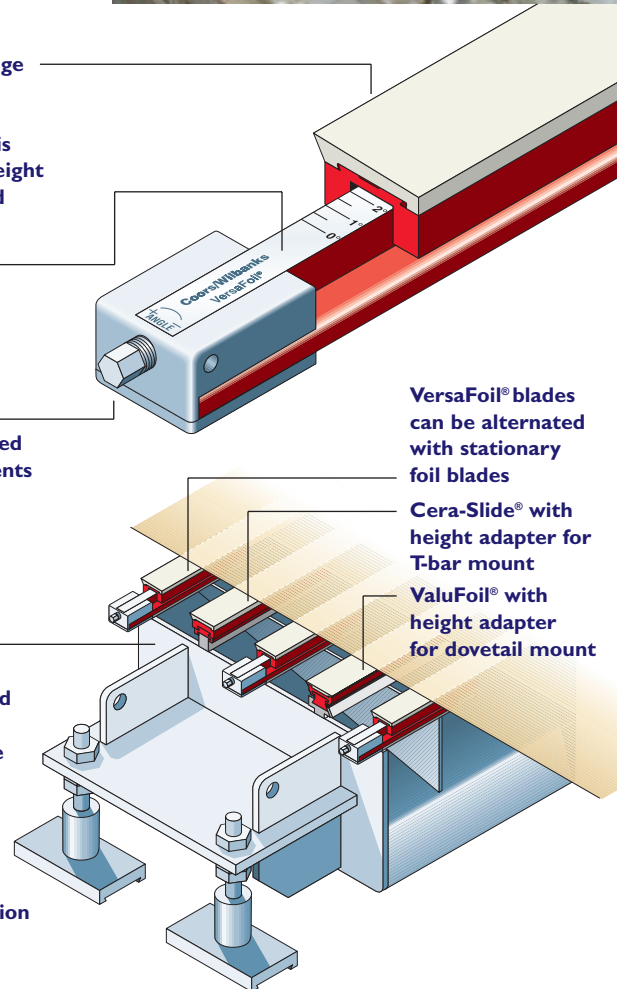
From single components to the design and supply of complete hydrofoil units, CoorsTek has the cost-effective solutions to meet your needs.

Our VersaFoil® lead edge maintains the same elevation through its entire angle range. This means no structure height adjustment is required

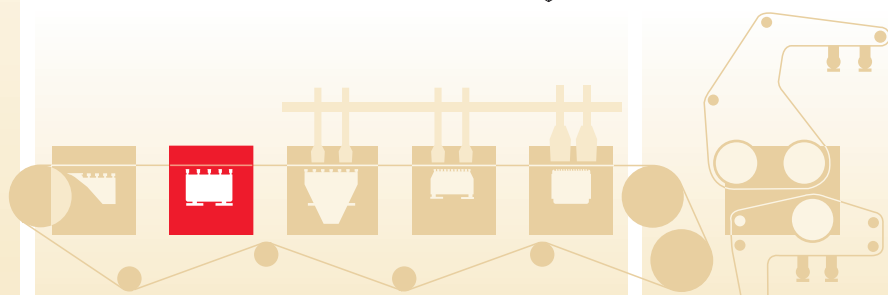
Easy to read scale insures accurate adjustments

Variable adjustment from 0° - 4° is not limited to typical 1/2" increments

CoorsTek 316L stainless steel structures are designed with 15-25% more mass than competitive designs resulting in deflection of less than .001" per foot (.08mm per meter) insuring accurate CD profile and formation



For more information on CoorsTek Hydrofoil Units or any of our other state-of-the-art products call us at **503.648.3183** or send E-mail to sales@or.coorstek.com.



Dynamic Forming Elements
Static Forming Elements
Stainless Steel Structures
Mounting Accessories

FORMING ELEMENTS Typical Options & Specifications

	Description	Mounting	Angle	Height in [mm]	Width in [mm]		Material
	Versafoil®	Dovetail or T-Bar	0° - 4° Adjustable	2.06 [52]	2.50 [64]		AD 96 FG 99.5, TA
	CeraSlide®	Dovetail or T-Bar	0° - 4°	1.00 [25] to 1.58 [40]	1.50 [38] 2.00 [51] 3.00 [76]	1.67 [42] 2.50 [64] 3.94 [100]	AD 96 FG 99.5 TA
	ValuFoil®	T-Bar	0° - 3°	1.00 [25] to 1.10 [28]	2.50 [64] 3.00 [76]		AD 96 FG 99.5
	Plastic Foil	Dovetail or T-Bar	0° - 4°	1.00 [25] to 1.58 [40]	1.50 [38] 2.00 [51] 3.00 [76]	1.67 [42] 2.50 [64] 3.94 [100]	UHMW POLYETHYLENE

MOUNTING ACCESSORIES Options & Specifications

	T-Bar	N/A	N/A	Custom	1.50 [38]		LFRP
	Height Adapter T-Bar Mount	N/A	N/A	Custom	Custom		LFRP
	Height Adapter Dovetail Mount	N/A	N/A	Custom	Custom		LFRP

STAINLESS STEEL STRUCTURES Typical Arrangements

5-Blade Hydrofoil Box Width in [mm]	7-Blade Hydrofoil Box Width in [mm]	Box Height in [mm]	Mounting Rail Length in [mm]
25 [635]	32 [813]	11 [267]	79-197 [2000-5000]
		14 [368]	201-248 [5100-6300]
		19 [470]	252-276 [6400-7000]
		23 [572]	280-315 [7100-8000]
		26 [673]	319-350 [8100-8900]
		31 [775]	354-382 [9000-9700]

Box width and forming element spacing can be custom designed based on grade and machine speed.

Notes: All standard structure designs are constructed of 316L Stainless Steel. Custom designs available upon request. Specifications are effective as of 1/2000 and are subject to change without notice.

- Vacuum Foil Boxes
- Wet Suction Boxes
- Lovac Elements
- Stainless Steel Structures
- Vacuum Systems
- Mounting Accessories
- Deckles

CoorsTek, in the business of optimizing machine performance for over 35 years, offers Lovac Units custom designed to meet your specific performance requirements.

Our Vacuum Foil Boxes are designed to enable you to remove large volumes of water without damaging the set sheet while preventing pin-holing and loss of fines.

Our Wet Suction Boxes are designed so you can obtain your specific consistency targets going into a dandy roll or top wire unit, for example.

FEATURES AND BENEFITS

Long-term performance

Ceramic surfaces provide long-term precision fabric support.

Fiberglass Vinyl Ester Resin carrier system provides corrosion resistance that greatly exceeds polyester resin systems.

316L stainless steel structures provide corrosion resistance and insure long-term stability.

Proven design

Glass fiber locking system mechanically locks the ceramic and the pultrusion, eliminating the possibility of adhesive-related catastrophic failure.

Reduce vibration and deflection

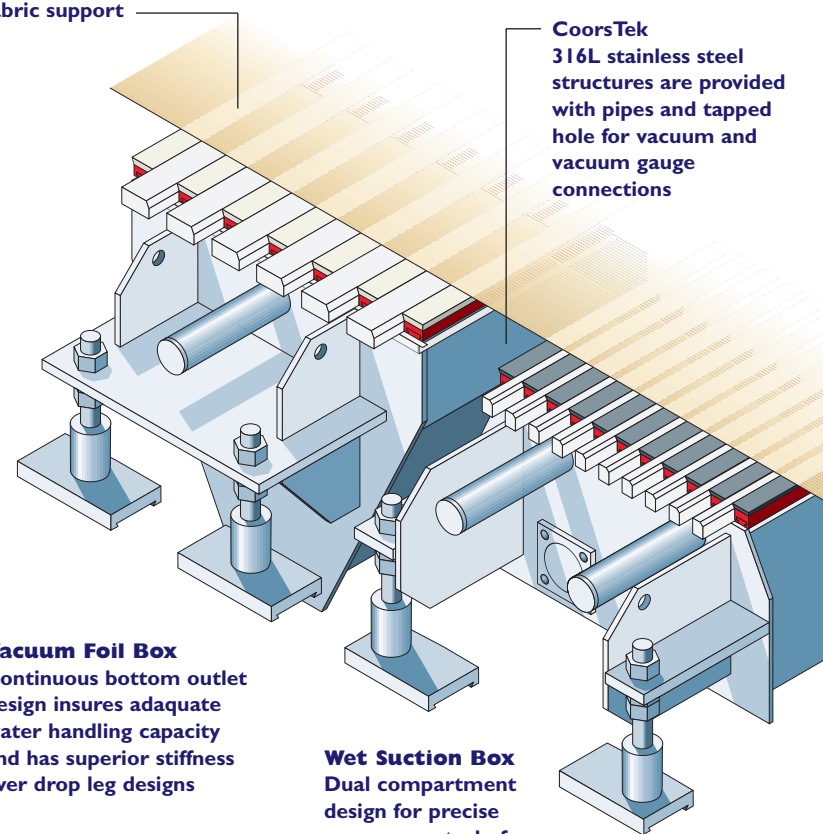
Coors Tek 316L stainless steel structures are designed with 15-25% more mass than competitive designs. This means reduced vibration and deflection of less than .001" per foot (.08mm per meter).

CoorsTek ceramic elements provide precision fabric support

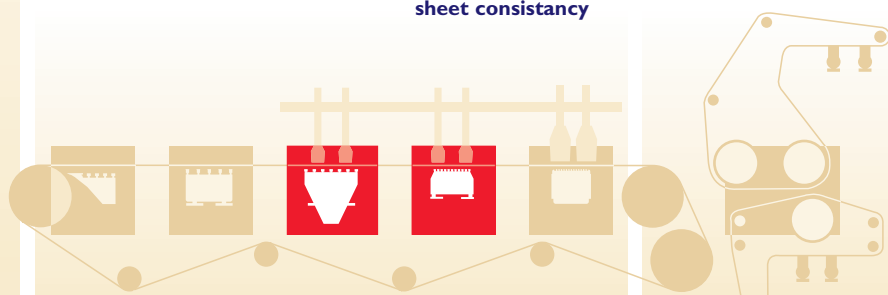
CoorsTek 316L stainless steel structures are provided with pipes and tapped hole for vacuum and vacuum gauge connections

Vacuum Foil Box Continuous bottom outlet design insures adequate water handling capacity and has superior stiffness over drop leg designs

Wet Suction Box Dual compartment design for precise vacuum control of sheet consistency






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- Vacuum Foil Boxes
- Wet Suction Boxes
- Lovac Elements
- Stainless Steel Structures
- Vacuum Systems
- Mounting Accessories
- Deckles



VACUUM FOIL BOX Typical Options & Specifications

	Description	Mounting	Angle	Height in [mm]	Width in [mm]	Material
	CeraSlide®	Dovetail or T-Bar	0°-4°	1.00 [25] to 1.58 [40]	1.50 [38] 1.67 [42] 2.00 [51] 2.50 [64] 3.00 [76] 3.94 [100]	AD 96 FG 99.5 TA
	ValuFoil®	T-Bar	0°-3°	1.00 [25] to 1.10 [28]	2.50 [64] 3.00 [76]	AD 96 FG 99.5
	Plastic Foil	Dovetail or T-Bar	0°-4°	1.00 [25] to 1.58 [40]	1.50 [38] 1.67 [42] 2.00 [51] 2.50 [64] 3.00 [76] 3.94 [100]	UHMW POLYETHYLENE

WET SUCTION BOX Typical Options & Specifications

	CeraSlide®	Dovetail or T-Bar	0°	1.40 [35.6]	1.67 [42]	AD 96, FG 99.5 TA, SiN, SiC
	Plastic Foil	Dovetail or T-Bar	0°	Custom	1.50 [38]	UHMW POLYETHYLENE

MOUNTING ACCESSORIES Options & Specifications

	T-Bar	N/A	N/A	1.50 [38]	1.00 [25]	LFRP
	Dovetail to T-Bar Adapter	N/A	N/A	Custom	Custom	LFRP

STAINLESS STEEL STRUCTURES Typical Arrangements

Vacuum Foil Box • 5 or 7-Position		Wet Suction Box • 11-Position		Mounting Rail Length	
Box Width in [mm]	Box Height in [mm]	Box Width in [mm]	Box Height in [mm]	in [mm]	
28 [711]	18 [457]	25 [635]	10 [255]	79-197	[2000-5000]
28 [711]	20 [508]	25 [635]	14 [355]	201-248	[5100-6300]
28 [711]	23 [584]	25 [635]	16 [405]	252-276	[6400-7000]
28 [711]	28 [711]	25 [635]	19 [480]	280-315	[7100-8000]
28 [711]	36 [914]	25 [635]	27 [685]	319-350	[8100-8900]
28 [711]	44 [1118]	25 [635]	35 [890]	354-382	[9000-9700]

Notes: All standard structure designs are constructed of 316L Stainless Steel. Custom designs available upon request. Specifications are effective as of 1/2000 and are subject to change without notice.