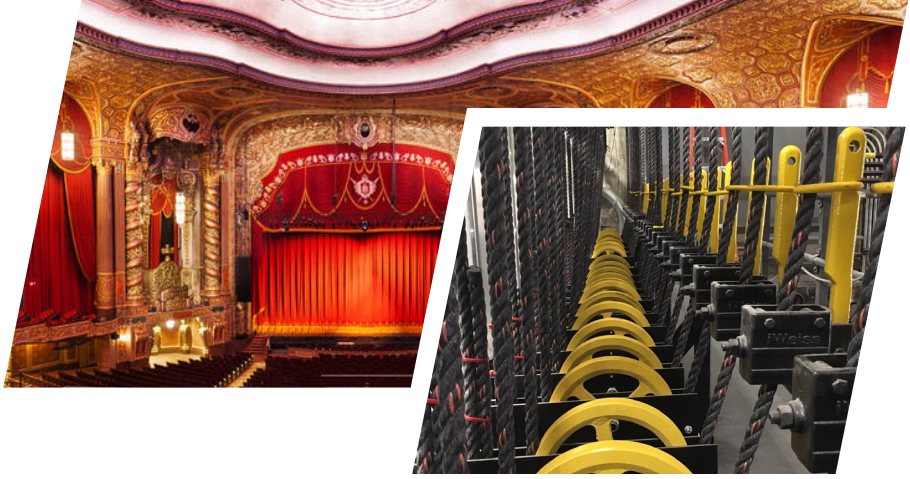

IWEISS

PERFORMANCE ENGINEERED

PRODUCT GUIDE

COMMITTED TO OUR PARTNERS **SINCE 1899**

With over 120 years of rigging installation experience behind us, IWEISS is pleased to present Align—our own line of stage rigging hardware.

Backed by strict engineering and destructive testing, Align offers us, and other companies, the ability to provide cost efficient stage rigging options. Align—in combination with our motorized VIA equipment, Align curtain track and drapery—allows us to provide total system installations.

Align and VIA equipment are now available to all rigging companies as an industry option.

a-lign /əˈlīn/

verb: align; 3rd person present: aligns; past tense: aligned; present participle: aligning

1. place or arrange (things) in a straight line.
2. come together in agreement or alliance.

noun: align

1. the full line of IWEISS rigging equipment.

Align via

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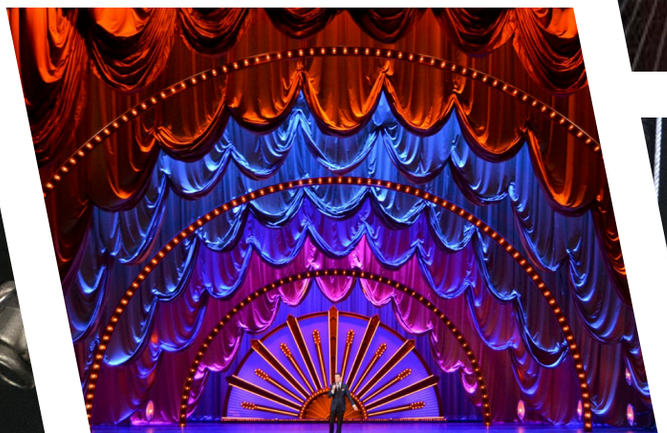

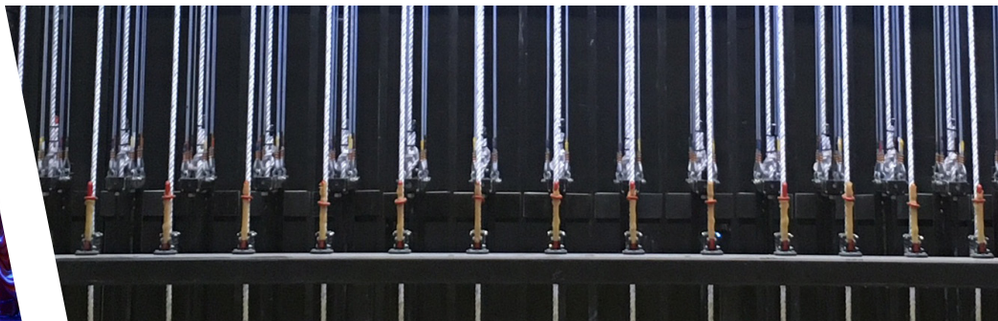

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HEAD BLOCK

Head Block: Stationary sheave or block assembly directly above counterweight arbor or pin rail. Head block permits lift lines to change direction. In wire rope systems, head block is also grooved to allow purchase line to change direction by 180 degrees.

LINES	MOUNTING	SHEAVE	CAPACITY*
6	Underhung	12" Cast	3,000 lbs
6	Upright	12" Cast	3,000 lbs
6	DP Underhung	12" Nylon	3,000 lbs
6	DP Upright	12" Nylon	3,000 lbs
8	Underhung	12" Cast	3,000 lbs
8	Upright	12" Cast	3,000 lbs
8	DP Underhung	12" Nylon	3,000 lbs
8	DP Upright	12" Nylon	3,000 lbs

The size and spacing of the head block mounting steel can affect the overall capacity of the head block. Mounting conditions must be reviewed by a structural engineer.

STANDARD SPECS

- 12" diameter, safety yellow cast iron sheave
- 10-gauge A36 steel, side-plate bolted and welded to base angle
- Tapered roller bearings
- Minimum WLL capacity of 3,000 lbs
- ¼" lift-line groove and ¾" rope groove
- Base angles 2" x 1½" x ¼"
- Painted prior to assembly

OPTIONS

- Upright or underhung mounting
- 6-Line blocks for 6" centers and greater
- 8-Line blocks for 8" centers and greater
- Single or double purchase
- Mount clips or base angle clips included
- Custom options available
- 3⁄16" cable groove
- Nylon sheave
- Custom side plates

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FLOOR BLOCK

Floor (Tension) Block: Designed to remove slack from a purchase line, prevent the purchase line from twisting in its travel, and from rubbing against wire ropes, structural framing, and adjoining equipment.

STANDARD SPECS

- 10" diameter, safety yellow cast iron sheave
- 7-gauge A36 steel side-plate bolted to guide shoe
- Sealed ball bearings
- Unit self-weight of 30lbs
- ¾" rope groove
- Steel guide shoe
- Painted prior to assembly

OPTIONS

- 6", 8", 10", 12" guide centers
- Custom options available

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LOFT BLOCK

Loft Block: Overhead block through which one or more lift lines pass before being attached to load being lifted or supported.

LINES	MOUNTING	SHEAVE	CAPACITY*
1	Upright/Underhung	8" Cast	600 lbs
1	Upright/Underhung	8" Nylon	1,000 lbs
2	Upright/Underhung	8" Nylon	1,000lbs
4	Upright/Underhung	8" Cast	1,250 lbs
8	Upright/Underhung	8" Cast	1,250 lbs

STANDARD SPECS

- 8" diameter, safety yellow cast iron or nylon-injected sheave
- 11-gauge A36 steel, side-plate bolted to base angle
- Sealed ball bearings
- Standard WLL capacity at 1,000 lbs
- ¼" lift-line groove
- Base angles 2" x 1½" x 3⁄16"
- Painted prior to assembly

OPTIONS

- Upright or underhung mounting
- 1 or 2 line idler adder
- Idlers available up to 6 lines
- 3⁄16" cable groove
- Mounting clips
- Custom mounting options
- Nylon multi-line sheave

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MULE BLOCK

Mule Block: A supplementary block located between the head and loft blocks, designed for the specific purpose of changing the direction of line travel.

LINES	MOUNTING	SHEAVE	CAPACITY*
1	Various	8" Nylon	1,000 lbs
2	Various	8" Nylon	1,000lbs
4	Various	8" Cast	1,000 lbs
8	Various	8" Cast	1,300 lbs

STANDARD SPECS

- 8" diameter, safety yellow cast iron
- ⅛" steel, side-plate bolted assembly
- Sealed ball bearings
- Standard WLL capacity at 1,000 lbs
- ¼" lift-line groove
- Mounting holes specific to project
- Painted prior to assembly

OPTIONS

- 3⁄16" cable groove
- 1, 4, and 8-line sheaves
- Mounting clips
- Swivel stand
- Nylon multi-line sheave

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ARBOR

Counterweight Arbor: A movable rigid-carriage assembly with inclusive guides that holds weights to counterbalance a load.

SIZE	4" CAPACITY	6" CAPACITY	SELF-WEIGHT
5	670 lbs	1,040 lbs	65 lbs
6	840 lbs	1,300 lbs	72 lbs
7	1,000 lbs	1,560 lbs	80 lbs
8	1,175 lbs	1,825 lbs	88 lbs
9	1,340 lbs	2,085 lbs	95 lbs
10	1,510 lbs	2,340 lbs	102 lbs
11	1,680 lbs	2,605 lbs	109 lbs
12	1,850 lbs	2,865 lbs	116 lbs

STANDARD SPECS

- ¾" cold-rolled steel rods with double nuts top and bottom
- ⅜" formed arbor top and bottom
- Safety-yellow spreader plates
- Welded front locking collar
- Threaded plastic knob handle on locking collars
- Spreader plate I.D. label every 2ft
- Steel captured UHMW guide shoes
- 8 lift line attachments
- Painted prior to assembly

OPTIONS

- 6", 8", 10", 12" centers
- Single, Double Purchase and Wire Guide

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ROPE LOCK

Rope Lock: A device attached to the lock rail that uses adjustable cams to grip the operating line of a counterweight rigging system. The handle and locking ring allow for the operating line to be locked or released.

NOTES

- Single unit A536 ductile iron body with safety-yellow powder coated 10" handle
- 2-gripping cams with adjustment bolt for rope diameters of ⅝"–1"
- Safety-yellow vinyl coated locking ring
- Rubber bumper in unit's body for quiet handle release
- Unit's body and handle have pass through holes for lock-out locations
- Designed to hold a 50-lb, out-of-balance load
- Meets or exceeds ANSI E1.4-2014

LOCK RAIL

Lock Rail: A structural railing that supports the rope locks.

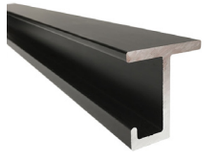
STANDARD SPECS

- ¼" steel formed top member
- Tube or formed steel stands
- Available in 6", 8", 10", 12" centers

OPTIONS

- Top tube steel member
- Incorporated bottom crash rail
- Gallery mounting
- Capstan winch reaction bar
- Custom line-set centers

GUIDE RAIL



Guide Rail: A means of guiding the counterweight arbor throughout its travel in the vertical plane, in a manner that prevents horizontal or twisting motions of the arbor.

STANDARD SPECS

- 6063-T5 aluminum extruded J-Bar guide rail
- Anodized black finish
- 1½" x 1⅞" x ⅜" guide
- Corners with .46" radius
- Bottom "J" designed to capture ⅝" hex bolt
- Provided in standard 20ft sections
- J-Bar provided pre-drilled
- Supporting wall batten & wall knee bracket slotted for ease of installation
- 6", 8", 10", 12" centers

PIN RAIL

Pin Rail: A rigidly mounted railing and its associated supports, with holes designed to accept belaying pins. Used in tying off rope and sandbag rigging lines and transfer of unbalanced system loads to the building structure.

STANDARD SPECS

- 6" diameter schedule 40 steel pipe
- Belay pin hole spacing as specified

OPTIONS

- Various pin centers
- Wood or steel belay pins
- Single or double rails
- Gallery mounting
- Standalone units

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FIRE RELEASE

Fire Curtain Release Station: An all-in-one device to allow for easy release of fire safety curtain systems with a perimeter enclosure.

STANDARD SPECS

- Release trip handle allows for direct connection to 'cut-line'
- Supplied enclosure is a light gauge steel body
- Reversible door for easy operation
- Enclosures are powder coated red
- Face plate with labeling as shown

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FIRE STOP

Fire Stop: An electromagnet release system for smoke hatches and fire safety curtain systems.

STANDARD SPECS

- 120V input power
- 2-hr battery backup power supply
- Power/battery/normal operation LED indicator lights
- Track-guided release pulley
- Normally open or closed contacts
- Rated for up to 80 lbs of tension
- Audible AC power loss alarm

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V310 LIGHT DUTY MULE BLOCK

Light Duty Mule Block: The Light Duty Mule Block is used is for diverting cable in various directions. The housing can be an anchored structure or U-bolted to pipe. The housing is a steel form with a nylon ball-bearing sheave. The single line sheave is designed to support 300 lbs at 3⁄16" cable. Multiple-line sheaves are also available.

STANDARD SPECS

- Rigid mounted sheave assembly
- 3.5" nylon diameter 3⁄16" sheave
- Working load limit of 300 lbs
- Sheave can be mounted in two orientations
- All steel construction

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SMOKE STEEL

Vertical Guide (Smoke) Pockets: Partial enclosures on both sides of the proscenium opening that protect the edges and guides of a fire safety curtain system.

STANDARD SPECS

- ¼" "Z" Form vertical guide with 18" capture plate
- ⅜" splice plates
- 2" x 1½" base mounting angle
- All holes slotted for ease of installation
- Painted black finish

OPTIONS

- 5ft and 10ft section
- 6"–12" deep "Z" bases
- Cable, track and knife guides

IWEISS CURTAIN TRACK

Cut sheets for our products can be found on our website

2⅝"w X 2¾"h
STEEL CHANNEL
IWC20B

BLACK SINGLE CARRIER IWC18

- 2 Performance thermal plastic rubber wheels
- Durometer: 80A
- Swivel hook and 6" trim chain for curtain attachment and leveling
- Carrier load rating at 12" center spacing: 20 lbs
- Black finish

IWC19 BLACK MASTER CARRIER

- 4 Performance thermal plastic rubber wheels
- Durometer: 80A
- Clamps provided for securing operating line
- 1 pair required for overlapping tracks
- Carrier load rating: 20lbs
- Black finish

4" DOUBLE END PULLEY IWC03

- 4" diameter nylon sheaves with shielded ball bearings
- Steel housing clamps to track
- Chain bracket for offstage tie-off of curtain edge
- ⅜" rope groove
- Black finish

IWC04 4" SINGLE END PULLEY

- 4" diameter nylon sheave with shielded ball bearings
- Steel housing clamps to underside of track
- Chain bracket for offstage tie-off of curtain edge
- ⅜" rope groove
- Black finish

8" DOUBLE END PULLEY IWC23

- 8" diameter nylon sheaves with sealed ball bearings
- Steel housing clamps to underside of track
- Chain bracket for offstage tie-off of curtain edge
- Grooved for up to ½" operating line
- Black finish

IWC24 8" SINGLE END PULLEY

- 8" diameter nylatron GS sheave with sealed precision ball bearings
- Grooved for up to ½" operating line
- Heavy-duty steel housing clamps to underside of track
- Chain bracket for offstage tie-off of curtain edge
- Black finish

TRACK SPLICE IWC07

- Formed steel enclosure brackets to align and lock multiple track sections for longer runs
- Black finish

IWC06 CLAMP HANGER

- Formed steel enclosure brackets clamp top side of track
- Adjusts for various positions
- Black finish
- Recommended spacing is 5.5ft on center to meet above carrier load rating

4" ADJUSTABLE FLOOR BLOCK IWC08

- 4" diameter nylon sheave
- Shielded ball bearings
- In steel housing for floor mounted installation
- 9" vertical adjustment
- ⅜" rope groove
- Black finish

IWC22 8" ADJUSTABLE FLOOR BLOCK

- 8" diameter nylon sheave
- Shielded ball bearings
- In steel housing for floor mounted installation
- 9" vertical adjustment
- ½" rope groove
- Black finish

END STOP IWC09

- Compression fitting installed at track end to prevent carrier moving beyond end of track
- Tapped and formed steel U-shaped
- ⅜" eye bolt for easy install of tie-off of curtain end
- Black finish

IWC05 OVERLAP CLAMP

- Fixed bracket to create standard offset of tracks in a bi-part assembly
- Formed steel plates with adjustment bolts for track alignment
- Black finish

BACKPACK FOR ½", ⅜" AND 3/16" IWC13/IWC14

- Assembly of a single plate with (2) rubber washers
- Assembly creates pull-off effect to move curtain into storage position
- Plates for ⅜" and ½" rope available pending operation cord
- Supplied with rubber washers
- Black finish

IWC190M OVERLAPPING MASTER CARRIER

- 5 Performance thermal plastic rubber wheels
- Durometer: 80A
- Neoprene-tired shielded ball-bearing wheels riveted to formed steel body with swivel hook and trim chain
- Provided with (3) trim chains for curtain tie-off
- Black finish

CENTER PIPE SUPPORT IWC26

- Creates hanging position in center of two tracks overlapping each other in a bi-part assembly
- Formed steel plate with mounting holes
- Black finish

IWC27 BLACK CEILING SPLICE

- Two formed steel members create holding splice to use when directly mounting to top surface
- Formed steel plate with through bolts for install
- Black finish on plates and hardware

IWEISS TRACK BRACKET IWTB

- Form steel wall bracket mounting of curtain track
- Universal design for mounting in two directions
- Mounting surface uses holes and slots for easy installation
- Load rating: 150 lbs
- Bracket are powder coated in black finish
- Custom colors available

IWEISS CURTAIN TRACK

Cut sheets for our products can be found on our website

1"w X 2½"h
ALUMINUM I BEAM
IWI20B
Can be curved!

SINGLE CARRIER IWI28

- Nylon wheel, shielded ball-bearing wheels riveted to formed steel body with swivel hook and trim chain
- Plastic glide strips for noise and friction reduction
- Carrier load rating at 12" center spacing: 8 lbs
- Black finish

IWI04 **SINGLE END** PULLEY

- 4" diameter nylon sheave with shielded ball bearings
- Steel housing clamps to tracks
- For use with bi-parting tracks
- Black finish

CEILING HANGER IWI11

- Steel plate mounts flush to ceiling
- Track clamps to bracket with offset clips
- Black finish
- Adjustable mounting for various locations
- Recommended spacing is 4.5ft on center to meet above carrier load rating

IWI19 **SINGLE** SPINDLE

- Formed steel bracket with single ball bearing shaft for guiding of operation cord
- Used along the inside single pulley end of track systems
- Black finish

MASTER CARRIER IWI29

- Nylon wheel, shielded ball-bearing wheel assembles with swivel hook and trim chain pivot on formed steel body
- Supplied with 2 clamps for securing operating line
- 1 pair required for overlapping tracks
- Carrier load rating at 12" center spacing: 8 lbs
- Black finish

IWI03 **DOUBLE END** PULLEY

- 4" diameter nylon sheaves for ¼" diameter rope with shielded ball bearings
- For use with bi-part and single draw track systems
- Steel housing clamps to track
- Black finish

CLAMP HANGER IWI06

- Formed steel brackets clamp to track
- Adjusts for various positions
- Recommended spacing is 4.5ft on center to meet above carrier load rating
- Acts as end stop
- Black finish

IWI18 **DOUBLE** SPINDLE

- Formed steel housing contains two ball bearing guides for operating line to follow curve
- Mount to inside and outside of curve on double end pulley section of track for single and bi-parting draw systems
- Black finish

SPLICE IWI07

- Aluminum plates align and bolt top track sections together
- Track must be straight at joint
- Black finish

IWI05 **OVERLAP** CLAMP

- Steel formed bracket to offset tracks for bi-part
- Black finish

OUTSIDE IDLER IWI21

- Formed steel bracket with single ball bearing pulley to guide operation cord
- Used along the outside of single pulley end of track systems
- Black finish

IWEISS MANUAL PRODUCTS

Cut sheets for our products can be found on our website

VIASHEAVE

ViaSheave: A small-housing, loft-block-style block. The housing can be anchored, clipped, or U-bolted and is a steel form with a nylon ball-bearing sheave. The single line sheave is designed to support 300 lbs at 3⁄16" cable. Multiple-line sheaves also available.

STANDARD SPECS

- Designed for smaller loads and to divert cable
- Basic loft block construction with universal base angle
- 3.5" sheave with 1⁄8" or 3⁄16" cable groove

P305 PIPE CLAMP

Batten (Pipe) Clamp: A piece of rigging hardware, consisting of two pieces of metal bolted around a pipe batten with a hole for the attachment of a hanging chain, turnbuckle assembly, or rope.

STANDARD SPECS

- 10-gauge steel with complete perimeter pipe fit
- Two-piece attached with 3⁄8" black grade 5 hardware
- Sized for 1.5" schedule 40 steel pipe
- Supplied with top 9⁄16" rigging hole
- Black finish
- Clamp stamped with 1,000 lb WLL

INDEX LIGHT

Index Light: A high-quality, two-circuit dimmable LED unit—white for work light in any area of the stage, blue for running lights. Units available in 4ft and 8ft long sections and come with extruded rails on two sides for flexible mounting configurations. Index strip lights and wall-mounted controls are UL listed.

STANDARD SPECS

- Assembly is UL listed
- Formed 16-gauge steel housing
- White reflector interior with matte black exterior
- Both ends supplied w/ multi-pin connector for continuous circuiting
- (2) Position extruded mounting rails
- (1) White LED circuit
- (1) Blue LED circuit
- Integrated wall-mount slider control
- 120V 3amp service required (based on 50ft system)
- 4ft and 8ft standard lengths
- 7 lbs and 14 lbs respectively

P309 INTERSECTION BRACKET

Intersection Bracket: Pair of formed steel plates allowing two 1½" pipes to overlap at a 90 degree angle.

STANDARD SPECS

- 1⁄8" steel formed clamps for intersecting pipes
- Clamps supplied with black grade 5 hardware
- Black finish
- 1,500 lb WLL

HIGH PIPE INTERSECTION BRACKET P309XP

High Pipe Intersection Bracket: This arrangement allows for inline and 90 degree hanging arrangements. Connect to upper pipe of Pipe Grid Systems for lower fixed pipe positioning. Bracket has black finish.

STANDARD SPECS

- Two 3⁄16" steel plates
- Welded square tube to lower pipe elevation equal to OD of 1.5" schedule 40 steel pipe
- Supplied with black grade 5 hardware and center mounting screw
- Includes intersection bracket
- Black finish

P309XW HIGH PIPE TRACK BRACKET

High Pipe Track Bracket: Creates easy 360 degree mounting of standard I-Beam track system to 1½" pipe. Primarily intended for attaching to the upper pipe on pipe grid systems. This arrangement allows for the bottom of curtain track systems to be installed just 4¾" below the hanging pipe and level to tracks on Low Pipes using low pipe track bracket. Bracket has black finish.

STANDARD SPECS

- Two 3⁄16" steel plates
- Welded square tube to lower track elevation equal to OD of 1.5" schedule 40 steel pipe
- Bottom plate drilled and tapped for I-Beam track hanger
- Supplied with black grade 5 hardware and center mounting bolt
- Includes half of an intersection bracket and I-Beam track ceiling hanger
- Black finish

PIPE BLOCK PTB

Pipe Block: Versatile sheave to be mounted to 1.5" pipe in various orientations. Typically used in the installations of wire tension grids and pipe grid systems for light duty rigging. The housing is a steel form with a nylon ball-bearing sheave. The single line sheave is designed to support 300 lbs and uses 3⁄16" cable. Multiple line sheaves also available.

STANDARD SPECS

- ¼" "Z" Form vertical guide with 18" capture plate
- ⅜" splice plates
- 2" x 1½" base mounting angle
- All holes slotted for ease of installation
- Painted black finish

OPTIONS

- 5ft and 10ft section
- 6"–12" deep "Z" bases
- Cable, track and knife guides

P309XL LOW PIPE TRACK BRACKET

Low Pipe Track Bracket: Creates easy 360 degree mounting of standard I-Beam track systems to 1½" pipe. Primarily intended to attach to the lower pipe on pipe grid systems. This arrangement allows for the bottom of curtain track systems to be installed just 2⅞" below the hanging pipe. Bracket has black finish.

STANDARD SPECS

- 3⁄16" steel plate
- Drilled and tapped for I-Beam track ceiling hanger
- Supplied with black grade 5 hardware and center mounting screw
- Includes half of an intersection bracket and I-Beam track ceiling hanger
- Black finish

WE STOCK ALL **YOUR RAW FABRIC NEEDS**

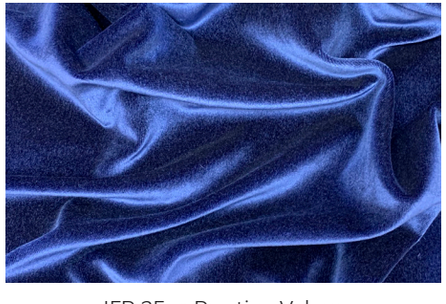
There are many different types of stage 'theatre fabrics' that serve different purposes. Below is a list of the standard fabrics used in the theatre industry. Contact us to fulfill any fabric needs you may have!

IFR/FR Sharkstooth Scrim - Black

FR 16oz and 12oz Commando Cloth

IFR 20oz Crescent

FR/NFR Muslin - Natural



IFR 25oz Prestige Velour

IFR 29oz Wool Segre

FR Muslin - White

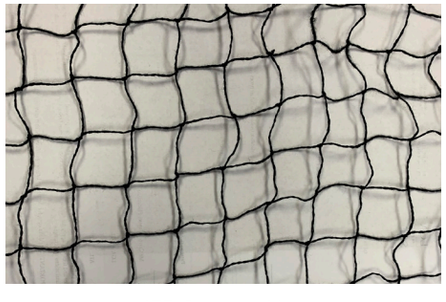
IFR Blackout Satin

IFR 25oz Charisma

IFR 23oz Drama Velour

FR 25oz Majestic Velour

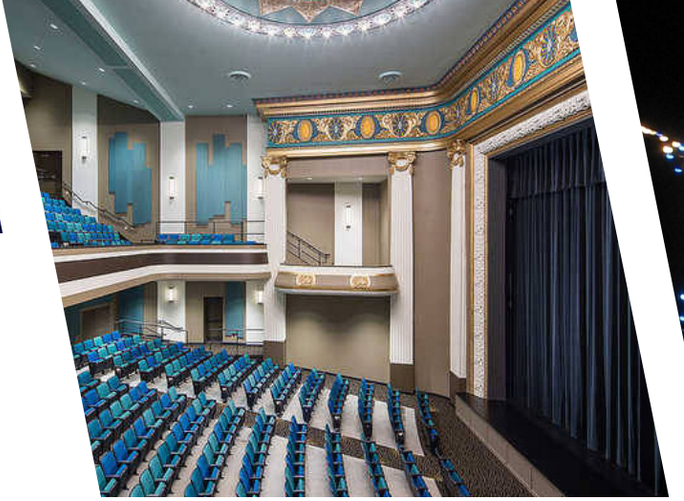
FR 16oz Princess Velour



IFR Scenery Net

FR Leno Filled Scrim - White

IFR/FR Sharkstooth Scrim - White



WE WILL MAKE YOUR IDEAS **COME TO LIFE**

Since the very beginning, IWEISS has been offering unmatched expertise in a wide range of theatrical products and services.

In addition to rigging products and installations, we combine a tradition of expertise in design, fabrication, touring, and production, with knowledge of the latest soft goods and hardware technology. We specialize in fast, high-quality service at competitive prices. With the addition of our 44,000-sq-ft facility in Missouri last year, we have added capacity and productivity to our already superior, personalized service.

With years of experience, our staff brings a wealth of knowledge and commitment to excellence in the execution of every project—no job is too large or too small. Every curtain produced by IWEISS is handmade and our staff enjoys all creative challenges. We take pride in our ability to find practical solutions to innovative design ideas.

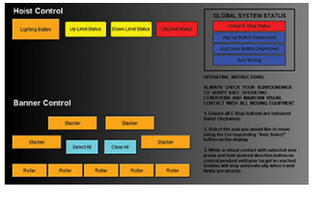
- Grand Drapery
- Full Stage Packages
- Digital Printing
- Fiber Optic
- Custom Fabric Applications
- Projection Screens
- Arena Masking
- Pipe and Drape Products

...AND SO MUCH MORE!

VIACONTROL

IWEISS ViaControl: A wall mounted UL Listed multi-axis control station designed for the maintenance and pre-set operation of stage equipment. Capable of controlling 1-20 axes the ViaControl utilizes a standard handheld momentary push button pendant for control of individual axis as selected through the station's touch screen. The unit comes standard with on/off key switch, remote pendant receptacle, and latching E-stop.

The ViaControl offers such feedback as limit engagement indication, positioning feedback, live load cell readings, disconnect power, and E-stop device.



SPECIFICATIONS

- **Cabinet:** UL list wall mount hinged panel
- **Dimensions:** 12"w x 12"h x 6"d
- **Display:** 7.5 touchscreen
- **Input Power:** 120v, 5amp single phase
- **Operation:** Corded up/down and latching E-stop hand-held remote pendant

FEATURES

- On/off keyswitch
- Latching E-stop
- Remote pendant receptacle
- Multi-axis controller, single axis selection
- Customizable to venue's requirements
- Timed program to log-out after 30 minutes of non-use
- Accepts coordinated I/O input for control of different manufacturers equipment

ALÉVO CONTROLLER

IWEISS ALÉVO Control: ALÉVO Control system is a scalable and modular control station. Whether the requirement is to operate a series of individual cues to general pre-programmed presets or general maintenance, the ALÉVO Control system is the operating system to service your automation needs.

ALÉVO is capable of controlling up to 100 axes through the desktop console or portable handheld option.

The customizable 15" handheld or 20" desktop allow for various screens layouts and ample user feedback information, from various inter-locks, positioning feedback, e-stop locations, and live operational viewing. External monitors are available for additional viewing and monitoring.

SPECIFICATIONS

- Portable handheld control
- OR desktop console
- Large display touch screen
- Cuing and jogging
- Axis status from positioning, drive faults, disconnects, limits, load cell, etc...

LINE-SHAFT

Line-Shaft: Line-Shaft consists of modular drums with tubular or solid drive shafts connecting to a single gear motor with a primary and secondary brake. The cable drums can be supplied as helically grooved or pile-ons for the specified travel requirements, allowing for a multi-line vertical lift.

Other standard safety features are a 4-cam rotary limit switch, redundant braking, E-stop system and hold-to-run operation controls. Each drum has a keeper to maintain cable placement. All Line-Shafts can be specified for a lifting capacity of 100–10,000 lbs with multiple lift lines at fixed or variable speeds. Soft start/soft stop is standard on all IWEISS equipment.

Our Line-Shaft can be configured in numerous mounting orientations for a variety of uses pending the project needs and structure attachment requirements.

SPECIFICATIONS

- **Drive Cable:** ⅛"–⅜" wire rope
- **Travel Distance:** Varies
- **Working Load Limit (WLL):** 100 lbs–10,000 lbs
- **Speed:** Up to 240 ft/min
- **Dimensions:** As required
- **Power:** 120V 20A (up to 1.5 hp) or three phase service at 208 or 480 VAC
- All machinery has been designed to ANSI E1.6 standards

FEATURES

- **Safety:** 4-cam rotary limits, redundant electrical braking rated 200% of load, integrated E-stop system
- **Compatibilities:** Overhead lifting, multiple lifting points
- **Control:** Momentary push button with latching E-stop, fixed speed, soft start/stop on all models

OPTIONS

- 1-phase or 3-phase input available
- 8" standard drum (travel distance can be custom)
- Hydraulic governor for fire safety curtain operation
- Cross groove and slack line sensors
- Load sensing
- Absolute encoder for multiple positioning control

T-DRUM WINCH

T-Drum Winch: A multi-line drum winch. This winch is designed with an 8:1 safety factor and engineered for 1 to 8 lift lines. It utilizes ¼" aircraft cable on a 8" or 12" helically grooved drum with pinch roller and travel capability of up to 75ft of travel per line.

The T-Drum comes as a standard welded steel-frame unit, gear motor with primary brake, and a secondary load brake. Safety features are two 4-cam rotary limit switches allowing for ultimate positions, up/down and four mid-positions—options are available for an absolute encoder for constant positioning control. Our standard soft start/stop motor control starter cabinet is supplied and any of our control stations are available for user interface control.

All machine components are completely enclosed inside a steel plate and tube-welded frame with universal mounting holes for various installation orientations, allowing all controls to be easily accessible in any mounting position.

SPECIFICATIONS

- **Working Load Limit:** up to 3,500 lbs (pending number of lift lines)
- **Lift Lines:** 2–6 (¼" 7x19 wire rope)
- **Speed:** Soft start/stop; up to 30ft/min 8"–12"
- **Drum:** 12" grooved helically drum with 75ft travel capacity per line
- **Limits:** Two 4-cam rotary for multiple position control
- **Brakes:** Motor brake and secondary electric load brake
- **Power:** 120VAC, 20A up to 1.5 hp (208/480 beyond)
- **Unit Dimensions:** Varies
- **Attachments:** Base angles/side angles, and pipe frame
- **Unit Weight:** Varies
- All machinery has been designed to ANSI E1.6 standards

OPTIONS

- Zero fleet add on base
- Variable speed

VIAWINCH

ViaWinch: A winch rated for various line pulls utilizing a ¼" drive line on a grooved aluminum drum, with a travel of 70' and a range of speeds to suit all your lifting needs. An on-board starter cabinet allows the use of a plug-in pendant for operation, soft start/stop and a power requirement of 120V 20 amps at the winch. The ViaWinch is specifically constructed to be mounted in various orientations for a variety of uses, including a deck winch, clew-winch, or grid-mounted point hoist. With its compact size and weight, it is a portable unit.

Additional options include incorporating a standard clew with up to (10) ¼" lift lines.

All machine components are enclosed in a welded steel-plate frame with mounting holes on unit's base, front and rear.

BASE MODELS	LINE PULL	SPEED
VWH-1-37-800	800 lbs	37ft/min (7in/sec)
VWH-1-30-1200	1,200 lbs	30ft/min (6in/sec)
VWH-1-1-500	500 lbs	1ft/sec

SPECIFICATIONS

- **Drive Cable:** ¼" wire rope
- **Travel Distance:** 70ft
- **Working Load Limit (WLL):** Up to 1,000 lbs (see base models)
- **Speed:** Up to 120ft/min
- **Frame:** Self-contained steel unit, universal mounting positions, integrated guide cable attachment
- **Dimensions:** 28"L x 24"W x 14"D
- **Power:** 120V 20A single phase service
- All machinery has been designed to ANSI E1.6 standards

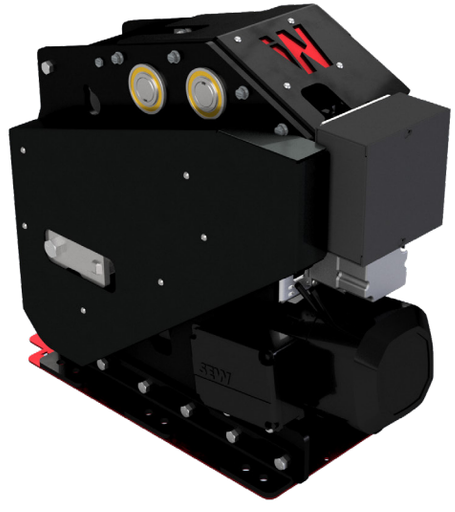
FEATURES

- **Safety:** Helical gearing, 4-cam rotary limits, redundant electrical braking rated to 200% of load, integrated E-stop system
- **Compatibilities:** Overhead lifting, deck movement, point hoist, portable
- **Control:** Momentary push button with latching E-stop, fixed speed, soft start/stop with all single-phase models

OPTIONS

- 3-phase input available
- Power available via standard Edison plug or hardwired
- Custom configurations available

COUNTERWEIGHT ASSIST HOIST



IWEISS' INSPIRE Counterweight Assist Hoist (CWA) is one of the first CWA hoists on the market with a true redundant braking system. Designed to handle out-of-balance loads for counterweight line-set rigging systems, INSPIRE allows for adjustments of a variety of loading scenarios where a maximum out-of-balance loading is 1,000lbs. Driven by a state of the art gearmotor with primary brake, the small envelope still allows for a secondary electrical brake on the primary load shaft.

INSPIRE is a fixed speed unit operating at 25ft/min for travel up to 60ft. Comes standard with a rotary limit switch, installation anchor template and has options for an absolute encoder and load cell for precise live loading feedback. Local lock rail control stations or remote multi-axis control stations is available.

INSPIRE is designed for safety, operation, and spacing.

SPECIFICATIONS

- **Hoist out of balance capacity:** 1,000lbs
- **Max lifting capacity:** 3,000lbs
- **Travel capacity:** 60ft
- **Voltage:** 230/480
- **Service factor:** 2.0
- Local lock rail mount push button controls
- **Wall mount multi-axis control**
- **Fits between 8" center line-sets**
- **Estimated Hoist Weight:** 185lbs

SAFETY

- Rotary Limit Switch
- Highly mechanical efficiency integrated gear brake motor
- Electrical load brake

OPTIONS

- Absolute encoder

SOUND CONTROL ROLLER SYSTEM

Sound Control Roller System:
Motorized acoustical banners that adjust the reverberation of all types of facilities and benefit any kind of performance.

Each roller or stacker system can be manufactured with various spacing of fabric panel separation and distance from the building's perimeter structure. Each unit's framework allows for flexibility of adjustment to various field conditions.

All systems are supplied with inherently fire retardant velour that comes in a variety of colors. Third party acoustical data is available. All banner systems are hung and tested in our facility to best replicate the final installation prior to shipping.

SPECIFICATIONS

- 120V/5amp or 208VAC
- Banners up to 12ft wide
- Seamless fabric panels up to 62"
- 22oz synthetic velour
- 2", 4", 6" fabric spacing
- 0-25ft vertical travel
- All machinery has been designed to ANSI E1.6 standards

FEATURES

- Symmetrical unit design
- Easy limit settings
- Universal mounting positions
- Standard and custom colors
- Acoustic testing data available
- Internal leveling
- Easy motor access
- Absolute encoder positioning
- Controlled by a standard ethernet cable

OPTIONS

- Custom outfitting available
- Horizontal slats (stacker)
- Unit enclosure (shown in photo, not included)

SOUND CONTROL STACKER SYSTEM

Sound Control Stacker System:
Motorized acoustical banners that adjust the reverberation of all types of facilities and benefit any kind of performance.

Each roller or stacker system can be manufactured with various spacing of fabric panel separation and distance from the building's perimeter structure. Each unit's framework allows for flexibility of adjustment to various field conditions.

All systems are supplied with inherently fire retardant velour that comes in a variety of colors. Third party acoustical data is available. All banner systems are hung and tested in our facility to best replicate the final installation prior to shipping.

SPECIFICATIONS

- 120V/5amp or 208VAC
- Banners up to 20ft wide
- Seamless fabric panels up to 62"
- 22oz synthetic velour
- 2", 4", 6" fabric spacing
- 0-25ft vertical travel
- All machinery has been designed to ANSI E1.6 standards

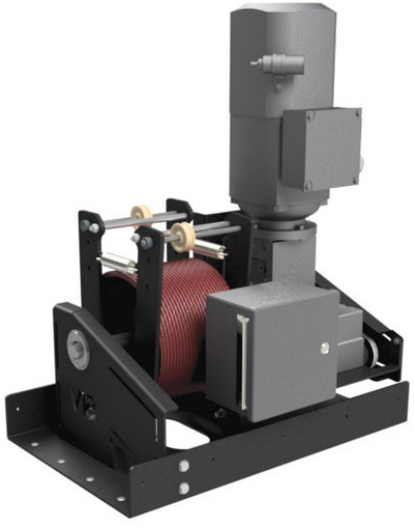
FEATURES

- Symmetrical unit design
- Easy limit settings
- Universal mounting positions
- Standard and custom colors
- Acoustic testing data available
- Internal leveling
- Easy motor access
- Absolute encoder positioning
- Controlled by a standard ethernet cable

OPTIONS

- Custom outfitting available
- Horizontal slats (stacker)
- Unit enclosure (shown in photo, not included)

CURTAIN MACHINE



Curtain Machine: Designed for the use of motorizing various stage, decorative, acoustical curtains and scenic elements. With its sleek design using state of the art technology, this unit has a small footprint offering large capacities. The Curtain Machine has a travel capacity of up to 40ft in a single direction and bi-parts up to 80ft wide at a fixed speed or variable speeds up to 1.5 ft/sec a single direction or 3 ft/sec in a bi-part operation. The formed steel framework allows for installation adjustability and mounting on brackets or flat structures.

The Curtain Machine comes standard with a cable tensioning device. The unit has a standard 1Hp gearmotor and allows for an integrated absolute encoder and comes with a 4-cam rotary limit switch and all curtain machine units are provided in black. The drum is grooved for 3⁄16" cable but can be customized to your requirements. The IWEISS Curtain Machine is the new curtain machine you've been waiting for.

SPECIFICATIONS

- **Operating Cable:** 3⁄16" Diameter
- **Travel Distance:** 40ft (80ft bi-part)
- **Line Pull:** 200lbs
- **Max Speed:** up to 1'-6"/sec (3'-4"/sec Bi-Part)
- **Dimensions:** 20 3⁄4"W x 13"D x 25"H
- **Power:** 1-Phase OR 3-Phase
- All machinery has been designed to ANSI E1.6 standards

FEATURES

- **Safety:** 4-cam rotary limits
- **Frame:** Formed steel
- **Control:** Open/Close Push Button
- Incorporated electrical distribution

OPTIONS

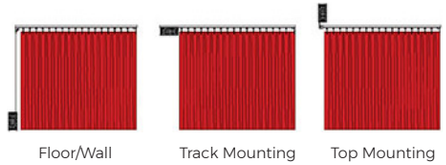
- Absolute encoder
- Multi-Axis Controller
- Track Systems
- Draperies

** Rated for non-overhead lifting applications only*

VIATRAVELER

ViaTraveler: A zero fleet winch designed for moving horizontal loads up to 60ft. This unit has been specifically manufactured to work in conjunction with all standard stage curtain tracks. Its zero fleet capability permits close placement of unit to pulleys and eliminates the concern of fleet angles. Its closed loop design allows for bi-direction motion of any horizontal movement. In addition ViaTraveler can be installed in any orientation and has one of the smallest cubic areas on the market.

ViaTraveler is a powerful, versatile, and easy to use curtain draw machine that offers a cost effective solution for most motorized curtains.



Floor/Wall Mounting | Track Mounting | Top Mounting

SPECIFICATIONS

- **Operating Cable:** 3⁄16" wire core rope
- **Travel Distance:** 60ft (120' bi-part)
- **Line Pull:** Up to 265 lbs
- **Speed:** Up to 150ft/min
- **Dimensions:** 22¼"L x 13"W x 10½"D
- **Power:** 120V 5A single phase service
- All machinery has been designed to ANSI E1.6 standards

FEATURES

- **Safety:** 4-cam rotary limits
- **Frame:** Self-contained steel unit
- **Mounting:** Universal mounting positions; can mount inches from head block
- **Compatibilities:** Works with all stage curtain track models
- **Control:** Momentary push button fits single gang junction box, fixed speed, soft start/stop with all single phase models

OPTIONS

- 3-Phase input available
- Variable speeds
- Available with 8-axis control station
- Cue-able controller available
- Custom configurations available
- Track systems
- Draperies

IWEISS AUTOMATION PRODUCTS

Cut sheets for our products can be found on our website

CLINCHER WINCH

Clincher Winch: A single-drive cable winch used for the operation and release of a fire safety system.

This unit has a helically grooved steel drum for 5⁄16" aircraft cable with a travel capacity of 60ft. The Clincher Winch has all moving components and an adjustable hydraulic governor enclosed inside a small formed steel housing.

This winch can be supplied in single or three phase and has a 4-cam rotary limit. The motor control cabinet and a three-button, wall-mount control station are provided separately.

SPECIFICATIONS

- **Working Load Limit:** up to 1,200 lbs
- **Lift Lines:** 5⁄16" wire rope
- **Speed:** 30ft/min (powered operation)
- **Drum:** 8" helically grooved with 60ft travel capacity
- **Limits:** One 4-Cam rotary
- **Brakes:** Motor brake
- **Power:** 120VAC, 20A up to 1.5 hp (208/480 beyond)
- **Unit Dimensions:** 27"w x 13"d x 19"h
- **Attachments:** Base angles/side angles/top clew tie-off
- **Frame:** Formed steel housing
- **Release:** Built-in hydraulic speed governor for controlled descent
- **Finish:** Powder coated prior to assembly
- All machinery has been designed to ANSI E1.6 standards

OPTIONS

- Fire curtain
- Smoke steel
- Fire stop
- Fire release station

IWEISS LIFTING SYSTEMS

STAGE, ORCHESTRA, OR TRAP—FLAT FLOOR CONVERSION SYSTEM **STAGE** LIFT

SERAPID
RIGID CHAIN TECHNOLOGY

Stage Lift: Whether lifting an orchestra pit, small trap, or entire stage, SERAPID lifts are a valuable asset to a performance venue. Lifts provide a safe working atmosphere while a simple programmable control system can easily adjust the lift to various floor elevations. Automated decks cut down on set-up costs, required personnel, and storage needs.

IWEISS is a certified installer and inspector of SERAPID stage lifts, orchestra lifts, and platform lift systems. In addition we are an authorized distributor of all SERAPID lifting products. SERAPID specializes in horizontal and vertical motion through the use of their LinkLift™ rigid chain technology. The rigid chain is a mechanical actuator that is flexible in one direction and rigid as a steel beam in the other.

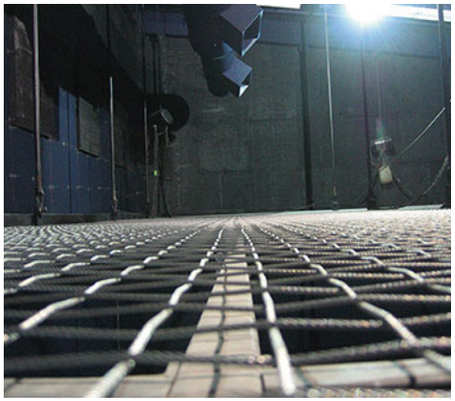
As a mechanical system it eliminates the issues associated with hydraulic, cable, and pneumatic systems.

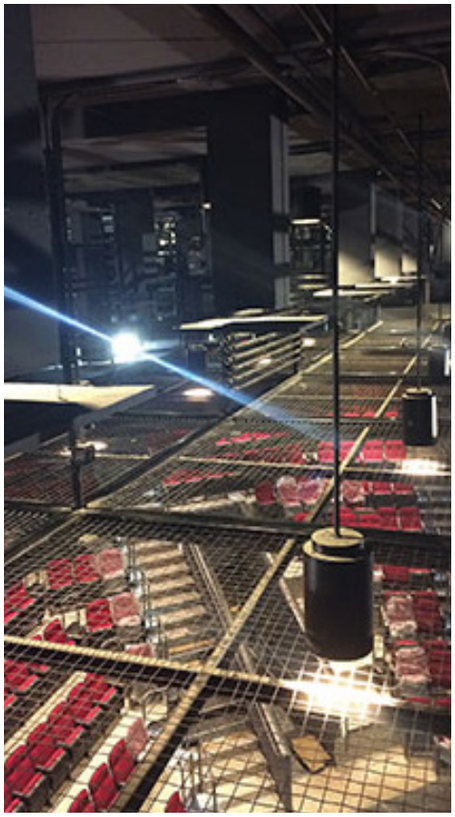
IWEISS manufactures all steel components and control systems in house to provide the most cost-efficient option for your new lift system or controls upgrade.

IWEISS STANDARD RIGGING PRODUCTS

Cut sheets for our products can be found on our website

ALOFT WIRE TENSION GRID





Wire Tension Grid (WTG): Panels assembled to form a pliable elevated walking surface in performance spaces and can be fitted to almost any geometrical shape one can imagine.

Pre-engineered, cable-mesh-woven panels are framed by ¼" CNC-form, laser-cut steel resulting in extreme accuracy for final product. Eighth-inch, 7x19 galvanized aircraft cables are basket-woven in 2" squares rated at 20 lbs per square foot and for 300 lbs point loads on standard panels of 8'x8'.

Panel hangers are engineered to support up to 2,500 lbs with various attachments to building structure. All panels are powder coated after construction but prior to weaving cables. Panels can be supplied in any color in our standard powder coat color chart.

OPTIONS

- Kick plates
- Hand rails
- Lighting pipes
- Hinging panels
- Black or silver cables
- Custom-sized WTG panels
- Custom sq ft ratings

IWEISS

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