



MATERIAL HANDLING SOLUTIONS THAT WORK
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FLOOR SUPPORTS OWNERS MANUAL

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FLOOR SUPPORTS FOR INDUSTRIAL CONVEYORS

INTRODUCTION

Thank you for purchasing a Floor Support from Wecon Systems. This model is made of the finest materials available and is manufactured in Canada by skilled craftsmen. The conveyor is very easy to operate and to maintain, but we recommend that you read this owner's manual thoroughly before using the conveyor.

This manual provides set-up instructions, safety tips, a parts list and information regarding preventative maintenance, lubrication and general usage. This component is durable and has been designed for a long service life.

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SAFETY WARNINGS

WARNING: DO NOT ATTEMPT MAINTENANCE ON ANY CONVEYOR WHILE IT IS IN OPERATION.

BEFORE STARTING MAINTENANCE

- Read and understand instruction manual and be aware of all warning stickers.
- Know where the emergency stop buttons are located.
- Know or have quick access to emergency telephone numbers in the unforeseen event that an emergency should arise.
- Maintenance functions are to be performed while the conveyor is off. The main power disconnect switch to the conveyor shall be locked out in accordance with proper written lockout procedures. This will prevent anyone from applying power to the system while maintenance personnel are at work.
- NEVER work on a conveyor while it is running unless the maintenance procedure requires the equipment to be running. When a conveyor must be operating to perform the maintenance, allow only properly trained maintenance personnel to work on the conveyor.
- Wear safety glasses when in the proximity of the conveyor.
- NEVER allow personnel with long hair near the conveyor without the use of a protective hair net.

DURING MAINTENANCE

- Do not wear loose clothing, ties or jewelry while servicing or performing maintenance on any conveyor equipment.
- Be aware of hazardous conditions, such as sharp edges and protruding parts.
- When using hoists, cables or other mechanical equipment to perform maintenance, use care to not damage conveyor components.
- Keep area clean. Clean up lubricants and other materials before starting conveyor.

AFTER MAINTENANCE

- Before starting the conveyor after any maintenance has been completed, walk around the equipment and make certain all safety devices and guards are in place, pick up tools, maintenance equipment and clear any foreign objects from equipment.
- Make certain all personnel are clear of the conveyor and made aware that the conveyor is about to be started.
- Only authorized personnel should be permitted to start any conveyor following maintenance or emergency shut-off.
- Never place any part of your body in or on any part of this conveyor while in operation.
- Do not allow anyone to stand on the conveyor.
- Do not allow horseplay around the conveyor.
- Do not remove guards, perform maintenance or clear obstructions without first locking out the main power disconnect switch.

PLEASE RECOGNIZE ALL WARNING STICKERS AND OBEY ANY SAFETY INSTRUCTIONS. WARNING STICKERS ARE PLACED ON THE EQUIPMENT FOR YOUR SAFETY – PLEASE DO NOT REMOVE THEM. CONDITIONS DO EXIST ON ANY CONVEYOR THAT CAN CAUSE INJURY OR DEATH TO PERSONNEL. NO MANUAL CAN COVER ALL THE HAZARDOUS CONDITIONS THAT MIGHT DEVELOP. ALL PERSONNEL INVOLVED IN THE OPERATION OF ANY CONVEYOR EQUIPMENT SHOULD BE CONSTANTLY AWARE OF ANY UNSAFE CONDITIONS AND USE ALL POSSIBLE CARE, ALONG WITH COMMON SENSE AND STRICT ADHERENCE TO ACCEPTED SAFETY STANDARDS TO AVOID INJURY.



STANDARD FLOOR SUPPORT

IMPORTANT

Wecon Systems does not warrant parts or components not manufactured by Wecon Systems. The manufacturers of electric motors and controls, air and hydraulic components and certain other items extend warranties, which may or may not be similar to that of Wecon Systems manufactured equipment. Defective material of this type should be reported by the customer to Wecon Systems whose sole responsibility is to notify the vendor of the defective material for action. Wecon Systems will not be responsible for units that have been tampered with or disassembled by anyone other than the authorized representative of the respective manufacturer.

EQUIPMENT DESCRIPTION

EQUIPMENT DESCRIPTION

Wecon's floor supports are built to withstand constant weight loads and use. We offer many standard styles with the availability to customize to meet specific customer requirements. Wecon provides complete conveyor supports that meet the needs of the customer for permanent, portable or mobile applications.

Floor supports are designed for installation based on standard conveyor lengths (10 – 12 ft). One floor support typically supports and ties together adjacent ends of adjoining conveyors. In certain circumstances, supports may not necessarily be installed at bed joints, however in such instances, they must be located no more than 12 feet apart.

All floor supports are manufactured using welded steel construction.

GUIDELINES FOR SUPPORT APPLICATIONS

- Standard supports can be used for widths up to 36". For equipment 36" wide, engineering should be consulted to review the application to determine the support recommendation. For widths greater than 36" wide, heavy duty supports are recommended.
- For heights up to 87" high, standard supports can be used depending on the application. Engineering may be required to review the application to determine the support recommendation. For heights in excess of 87", heavy duty supports are recommended.

PORTABLE SUPPORTS

Portable supports allow for the quick and easy placement of gravity wheel and light duty roller conveyors in applications where portability is required.

Wecon's portable supports are used in applications where temporary placement of equipment is required. The structural angle cross members of the gravity conveyor are positioned on the top of the support head and held in place by gravity.

Portable stands allow for quick height adjustments with no tools required. The support head is easily adjusted using the locking bolt in the base of the support and moving it to the desired height.

The support head is available to suit standard conveyor widths of 9" to 24" BFR. Portable supports are offered in several height ranges from 12" up to 52".

Portable supports are manufactured using welded steel construction.



STANDARD SUPPORTS

Permanent standard duty conveyor supports are available in several standard widths from 12" through 60" wide.

Wecon's standard supports are available in heights up to 87" high.

Standard top brackets allow for limited adjustment of supports for use in incline or decline applications. This ensures the supports maintain a perpendicular orientation to the ground.

On applications where conveyors are inclined or declined, the use of diagonal braces should be incorporated to provide greater stability. Diagonal bracing should be installed on the side of the support in the direction of the flow of the product.

Each conveyor boot adjusts individually to compensate for irregular floor surfaces. Standard foot pads welded to the boot are punched with a slot to provide a hole for anchoring the support to the floor.

Standard supports are manufactured using welded steel construction.

Standard supports are available with a mobile option to accommodate requirements in applications where conveyor mobility is a necessity.



HEAVY DUTY SUPPORTS

Permanent heavy duty conveyor supports are available in several standard widths from 12" through 60" wide.

Wecon's standard heavy duty supports are available in heights up to 121" high.

Heavy duty non-adjustable top brackets are supplied with supports for use in horizontal applications. Heavy duty adjustable top brackets are available and allow for adjustment of supports for use in incline or decline applications. This ensures the supports maintain a perpendicular orientation to the ground.

On applications where conveyors are inclined or declined, the use of diagonal braces should be incorporated to provide greater stability. Diagonal bracing should be installed on the side of the support in the direction of the flow of the product.

Each conveyor boot adjusts individually to compensate for irregular floor surfaces. Standard foot pads welded to the boot are punched with a slot to provide a hole for anchoring the support to the floor.

Optional foot pads are available for applications requiring greater stability.

Heavy duty supports are manufactured using welded steel construction.



INSTALLATION INSTRUCTIONS

SET-UP INSTRUCTIONS

Floor supports come completely assembled and ready to use. It is recommended that all set up procedures be performed by at least two qualified people. Set up for these units will consist of determining the required height and location of the equipment then simply adjusting the supports on the conveyor and making adjustments to suit the desired operation.

POSITION AND ALIGNMENT

Proper mechanical installation is vital for the equipment to operate as described. Our installation standards show the importance that Wecon places on a quality installation.

Installation Standards

- **In General:**
The following standards, where applicable, will be used as guidelines by Wecon approved installers.
- **Dimensional Reference Points:**
The location of each conveyor in the system will be determined by establishing a reference point to the center of each conveyor from the fixed building column lines as indicated on approved general arrangement drawings.
- **Level and Elevations:**
Conveyors will be installed in accordance with the elevations shown on the layout drawing(s).
After the first elevation is established, the elevation of all other points will be related to this first point. The practice of dimensioning elevations from the floor at each point of support will not be followed. When the floor level changes significantly, such as the system going to an upper or lower floor, or into another building or room, a new elevation will be established from the first floor at that point. This new elevation will then become the reference point for subsequent elevations.
- **Standards For Floor Mounting:**
Anchoring will be accomplished by drilling into the floor and inserting a suitable anchor bolt in an approved manner in accordance with the manufacturer's instructions.
Drive and intermediate stands will be anchored with 3/8" diameter minimum bolts, one in each leg.
Explosive type anchors will not be used. Adhesive or specialized anchors will be used only when specified.

Floor Mounted Units

- At the desired position for the conveyor, snap a chalk line (not in excess of 100 feet per run) on the floor location for the centre line of the unit.
- Use a plumb line to align the centre line of each conveyor section to the chalk line.
- Set height of unit.
- Adjust the conveyor both lengthwise and diagonally using a level.

NOTE: Beds must be level from side to side to prevent the possibility of product being skewed from the conveyor.

SUPPORT ASSEMBLY

Supports are fastened to the bottom flange utilizing holes designed into each bed section. Supports can be installed directly under a bed joint to support two adjacent bed sections. For single or end bed applications, supports can be mounted in the first available set of holes at the charge and the discharge ends of the conveyor. Mounting a support can be accomplished by either lifting the bed section into position onto a support or attaching the support to a bed section prior to lifting it into position. After the conveyor has been aligned and leveled, anchor the supports to the floor in an approved manner in accordance with the anchor bolt manufacturer's instructions. Once the conveyor is in its desired position, tighten all fasteners.



HD SUPPORT MOUNTED ON END



HD SUPPORT MOUNTED ON JOINT

If diagonal braces are required to provide additional stability, they should be installed in the direction of the flow of the product.

EQUIPMENT INSTALLATION

It is recommended that only trained personnel install or service this equipment.

Wecon FLOOR SUPPORTS are shipped on skids, generally, not exceeding 4000 pounds, for lift truck unloading and handling. The skids may also be handled with a crane if one is available. If a crane is utilized, ensure the operator is certified in the competency of its operation. Each skid will vary in width, length and height depending upon the style of product purchased.

The conveyor frames, supports, rollers and accessories should be thoroughly inspected before proceeding with the conveyor installation. Upon delivery, be sure to check the following items very carefully:

- The alignment of frames, to ensure horizontal and parallel orientation.
- The equipment to ensure there is no visible damage to the frames or rollers.

PREPARING FOR USE

- Make certain that installation is in conformance to all local codes and regulations.
- Ensure the conveyor path is free from oil, debris and other foreign objects.
- Check to ensure that all hardware has been tightened and securely fastened.
- Ensure that all personnel are clear, then run unit and observe travel.

EQUIPMENT OPERATION

- With equipment operational, observe travel of product along the conveyor over the length of the bed.
- Listen for any noisy bearings, rollers or vibrations. Correct any problems immediately.
- Operate conveyor with a moderate load of product and check for functionality.
- Check to ensure supports are aligned to accommodate desired product flow and orientation.
- Any equipment that show visual signs of damage should be replaced immediately.

MAINTENANCE

WARNING: DO NOT ATTEMPT MAINTENANCE ON ANY CONVEYOR WHILE IT IS IN OPERATION.

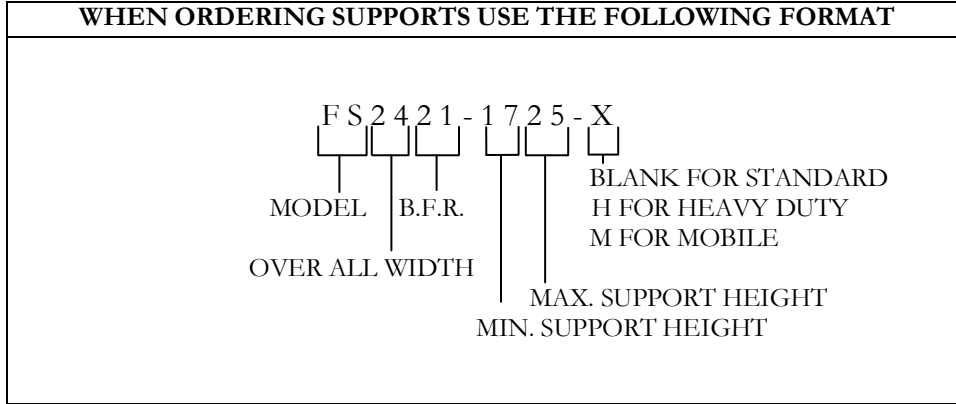
Floor supports are self-contained and almost maintenance free. Suggested maintenance should include a visual inspection of the support for damage, and a general inspection of all nuts and bolts for tightness.

MECHANICAL MAINTENANCE

Item	Schedule Service	Suggested Maintenance
Supports	Weekly	Check to ensure supports have not been damaged and fasteners are properly secure
Hardware	At set-up and every week of operation	Check to ensure all fasteners are in place and properly tightened

PARTS GUIDE

SUPPORTS



TOP BRACKETS

TYPE	PART NUMBER
Standard top bracket	TB-5-10
Heavy duty non-adjustable top bracket	TB-5-316
Heavy duty adjustable top bracket	TB-5-318

STANDARD BOOTS

HEIGHT	PART NUMBER
12"	BW-12-12
18"	BW-18-12
24"	BW-24-12

HEAVY DUTY BOOTS

HEIGHT	PART NUMBER
12"	BW-12-10
18"	BW-18-10
24"	BW-24-10

HARDWARE

TYPE	PART NUMBER
3/8-16 UNC locking bolt	FS-HW-1

CASTERS

TYPE	PART NUMBER
Caster 4" phenolic swivel lock wheel 5" o/a rig (for mobile applications)	422-ACB-HD-SWB

TOUCH-UP PAINT

COLOUR	PART NUMBER
Wecon (shop) blue	P-S-BLUE
Ermanco blue (ER-1)	P-E-BLUE-ER-1
Ermanco blue (ER-2)	P-E-BLUE-ER-2
Medium grey	P-M-GREY
Wecon (shop) green	P-S-GREEN
Safety yellow	P-S-YELLOW