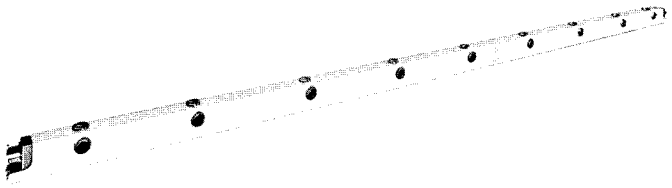
INDUSTRIAL TROL-E-DUCT®

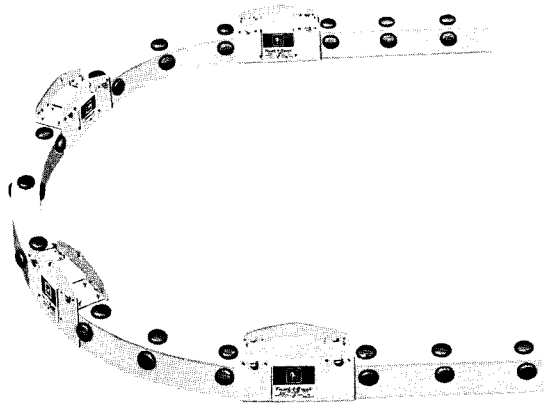
DUCT SECTIONS



Industrial Trol-E-Duct casings are formed in the shape of a channel from a single piece of 14-gauge steel. Channels are zinc-plated and lined with a shield of formed fibre. One hanger and a set of bus connectors are furnished with each duct section.

Shorter sections any length between 14" and 10 feet can also be furnished on request.

RATINGS—The system is rated at 100 amperes continuous—150 amperes intermittent (50% Duty Cycle with "on" time not exceeding 1 min.) 600V A.C., 250V D.C. 100 amperes continuous is listed by U.L. under Busways File E22174, 150 amperes intermittent under Crane and Hoistways File E30472. ITD is used on 60-cycle as well as Hi-Cycle and Super-Cycle Systems.



Curved duct sections join easily with straight duct sections to match any structural pattern. Curved sections are available for any radius of 2′ and above. Curved or Transfer Trolleys must be used with curved sections having a radius of less than five feet.

Vertical curves—since the trolleys have one roller below the duct casing and two wheels inside the casing, three points are established. These three points dictate 10′0″ as the smallest radius that the trolley can negotiate when changing elevations with "Standard," "Transfer," "Heavy-Duty," or "Roller-type" Trolleys. For special applications Curved-type trolleys may be used on 6′0″ radius vertical curves.

Drop-out sections which provide trolley access points, are built into a 10-foot section of duct and may be installed at convenient points along the duct run. The drop-out section consists of two 11¼" hinged doors which may be opened by pulling the control lever upward. Provision is made for locking the doors in a closed position. A short piece of metal welded to one side of the drop-out door assures correct polarity insertion of the trolleys. The drop-out section of duct may have a continuous 10-foot bus bar or it may be sectionalized to break the electrical continuity of the system. In sectionalizing a bus duct section, a short piece of bus bar is removed and a fibre spacer inserted in its place.

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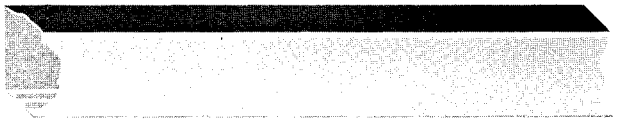
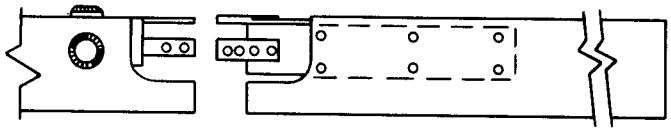
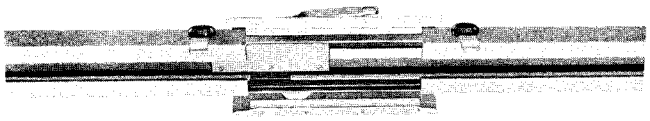
DUCT SECTIONS AND ADAPTORS



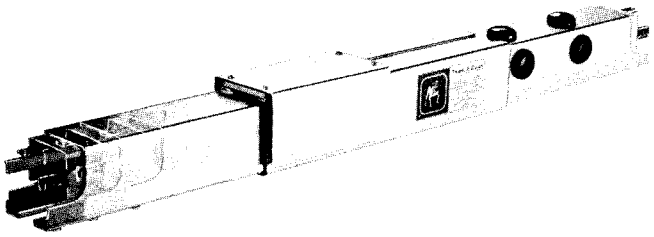
Busless sections are used to carry trolleys between energized points. Insulating ramps are required at transition points. The ends are cut off square to avoid any recesses which might shear off trolley contacts.



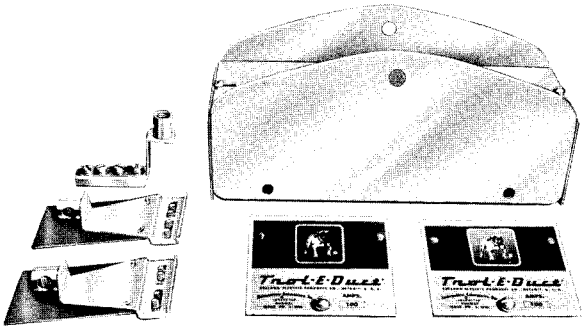
Insulated ends—whenever a busless section is to be joined to a bussed section, it must have insulated ramps to provide a smooth transition. These insulated ramps eliminate the possibility of shearing off trolley contacts when passing through a busless joint.



Sectionalizing sections can be provided with small segments of the bars removed and the missing section filled with an insulating spacer. These can be as small as ¼" to permit the contact to span the gap and prevent even momentary power loss or as large as one foot to insure that all contacts are off the first set of bars before any of them touch the second set of bars. The gaps can be located in a staggered line so that all contacts break alternately. This applies to standard and drop-out sections.



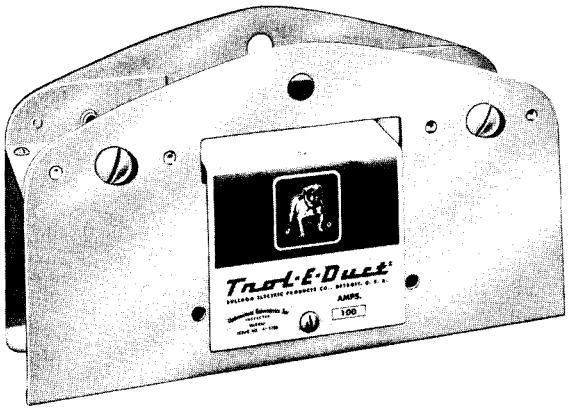
Expansion section consists of 10'0" of duct and two TDF-3 Feed-in Adaptors plus hanger. The maximum expansion or contraction is 4½". Expansion Sections should be used where a Trol-E-Duct run crosses an expansion joint in the building frame.



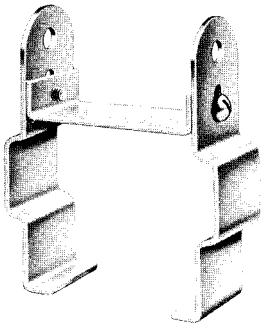
Feed-in adaptors are used wherever feeder connections are desired. #1 Awg pressure-type wire grips are furnished with each unit. Feed-in Adaptors may be connected to the end of a run, or used to provide center feed. Concentric knockouts are formed in the ends of each Adaptor.

INDUSTRIAL TROL-E-DUCT®

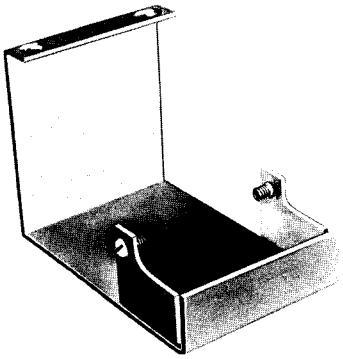
HANGERS AND END PLATES



Standard Hangers are formed from 12-gauge steel and serve as a support for duct sections, and as a means for joining adjacent sections. They add nothing to the length of the run. A screwdriver is the only tool needed to join ITD sections. Bus-bar couplings are furnished with each hanger. Curved Industrial Trol-E-Duct Hangers are specially formed to join two specific ITD sections and have a definite location in the Trol-E-Duct system.



Intermediate Hangers give extra duct support at the center of standard sections. They are easy to mount and fit securely around duct sections.



End Plates close the ends of Industrial Trol-E-Duct runs. They keep the trolleys on the track and prevent damage to the bus bars.

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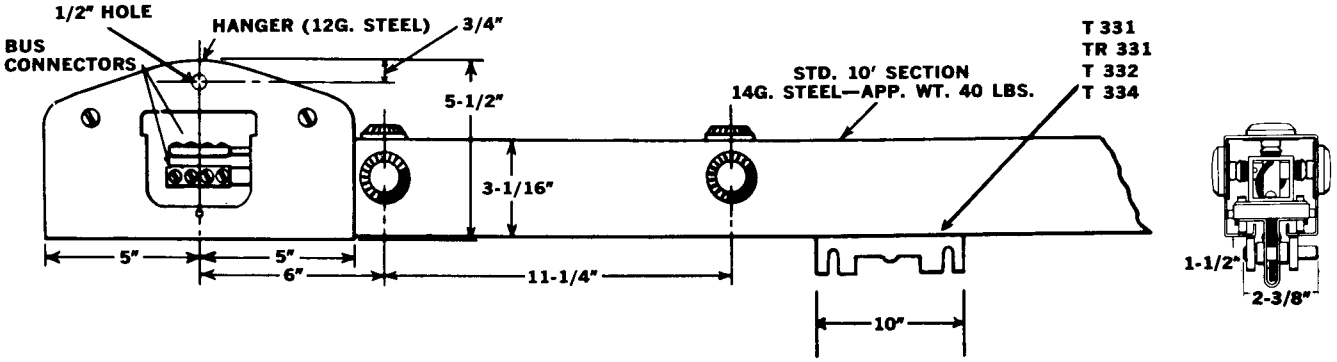
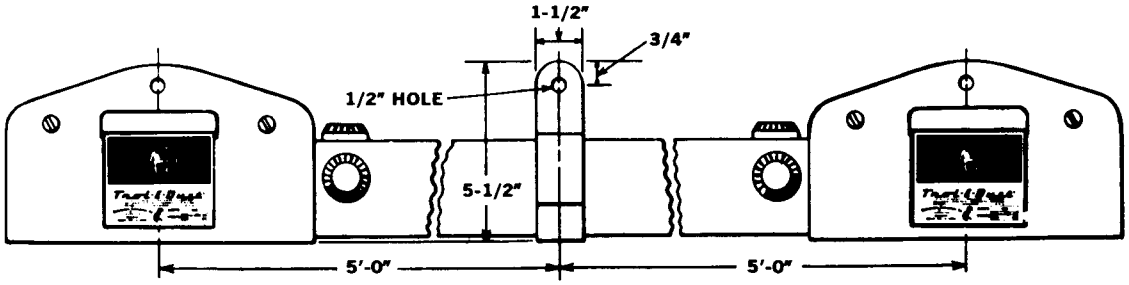
DIMENSIONAL DATA

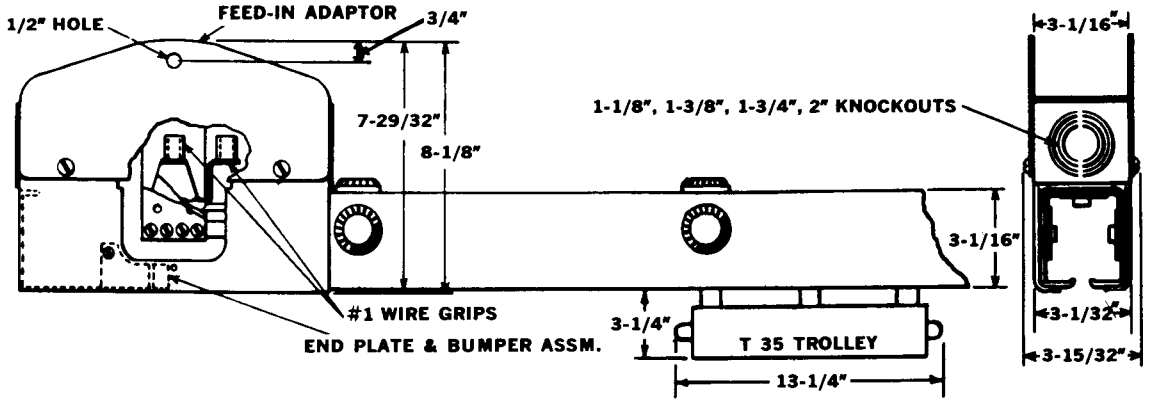
DUCT SECTION WITH HANGER



DUCT SECTION WITH HANGERS, INTERMEDIATE HANGER



DUCT SECTION WITH FEED-IN ADAPTOR



Note: Hangers, couplings or feed-ins do not affect the length of a duct run.

INDUSTRIAL TROL-E-DUCT®

DIMENSIONAL DATA

DROP-OUT DUCT SECTIONS