Overview of Sherman & Reilly Transmission Stringing Blocks

About Transmission Construction
Transmission-class line construction is very specialized. Compared to distribution construction, structures are taller, spans are longer, conductors are larger/heavier/stiffer, and pulls are longer and can extend over steep and very uneven terrain. In addition, aluminum conductors vary in construction requirements, calling for special handling techniques, tools, and equipment.

Transmission construction also involves different line and structure designs, as well as different conductor configurations. These configurations can range from single to bundled two, three, four, and six conductors per phase. Some lines are strung using conventional, ground-based equipment and tools, while others require stringing using helicopters.

For all these reasons, the configuration and quality of the blocks in which sheaves are mounted are as important as the sheaves.

About Sherman & Reilly Transmission Stringing Blocks
Sherman & Reilly’s Transmission Stringing Blocks are the result of extensive field research, laboratory testing, and real-world experience over a period of 75+ years. We offer both single-conductor and multi-conductor “bundle” blocks, as well as “specialty” blocks for out-of-the-ordinary conditions (e.g., river crossings, specialty conductors, etc.). All Sherman & Reilly transmission blocks incorporate the same robust and reliable Sherman & Reilly sheave design, made of a high-performance aluminum alloy, differing only by dimensions and weight, and rendering high efficiency, while being easy on conductors. With few exceptions, all of Sherman & Reilly transmission blocks may be configured with polished-groove sheaves or with sheaves that are lined with either polyurethane or Neoprene.

Please refer to Figure 1 (below) for a diagram of Sherman & Reilly’s transmission block offerings.

Of the Single-Conductor Blocks, there are 3 Series (models/types):

- **The 73 Series**, ideal for reconductoring.
- **The 74 Series**, ideal for new-line stringing of smaller-OD conductor.
- **The 78 Series**, ideal for new-line stringing of large-OD, transmission-class conductor.

All blocks of all three single-conductor Series are made of a high-strength aluminum allow – frames and sheaves – which makes the blocks strong but lightweight. Please refer to other publications found on this page and to the product pages of the respective Series for more information about the sheaves, blocks, and accessories.

Of the Bundle Blocks, there are 2 Series (models/types):

- **The 70 Series**, ideal for the great majority of transmission-class stringing projects.
- **The 72 Series** – the Sherman & Reilly Multiversal Series, which are ideal when the versatility of field-reconfiguration of the blocks is desired for meeting the demands of changing stringing needs and conditions.

All blocks of both bundle-block Series incorporate the same robust and reliable, high-strength aluminum-alloy sheave design used for single-conductor blocks. However, the 70 Series blocks are of a rigid-frame
design, and the frames are made of hot-dipped galvanized steel. The 72 Series blocks are of a design that enables reconfiguration of the blocks (the number and positioning of the sheaves) in the field, and the frames are made of the same high-strength alloy as the sheaves.

Please refer to other publications found on this page and to the product pages of the respective Series for more information about the sheaves, blocks, and accessories.

For More Help

For a thorough discussion on transmission blocks, please refer to the whitepaper Sheaves, Block, and Accessory Selection for Transmission Conductor Installation found in the Publications section of this page.

For help with Configuration and Ordering Transmission Blocks
If you are unsure how to configure your order and/or need a quote, then please consult your Sherman & Reilly Representative or consult Sherman & Reilly directly by calling 1-800-251-7780 and asking for “Quotes.”

Figure 1.
Schematic of Sherman & Reilly Transmission Stringing Blocks