

Rope Machine

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Rope Structure #1



<http://wildernessarena.com>

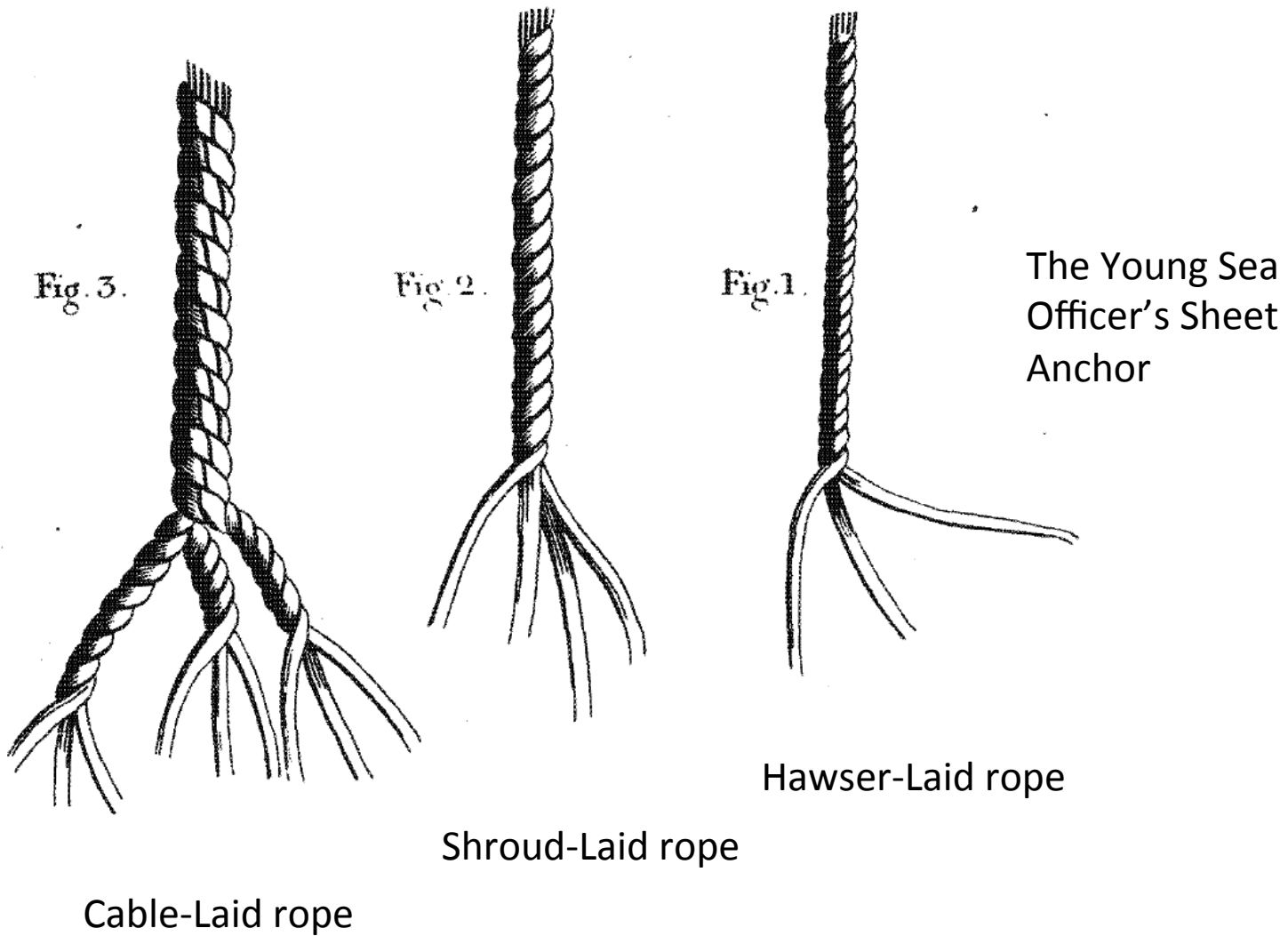
Cutty Sark close-up



Cutty Sark: Outlined

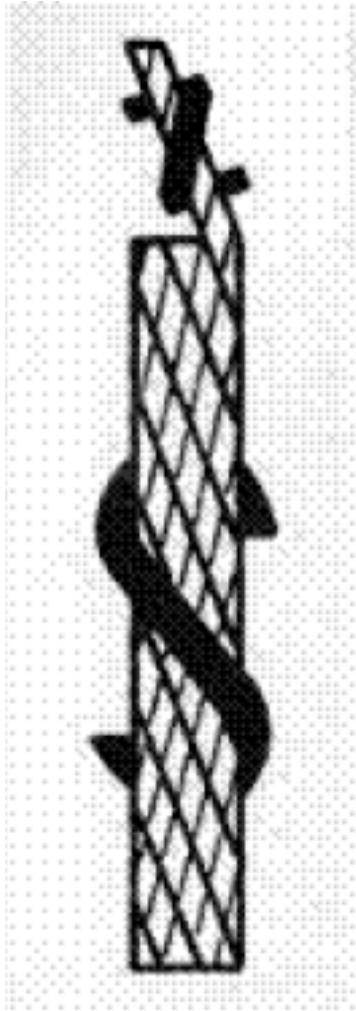


Rope Structure #2



Handedness

Left Hand
Or "S"



Right Hand
Or "Z"



Old Cable-Laid Rope

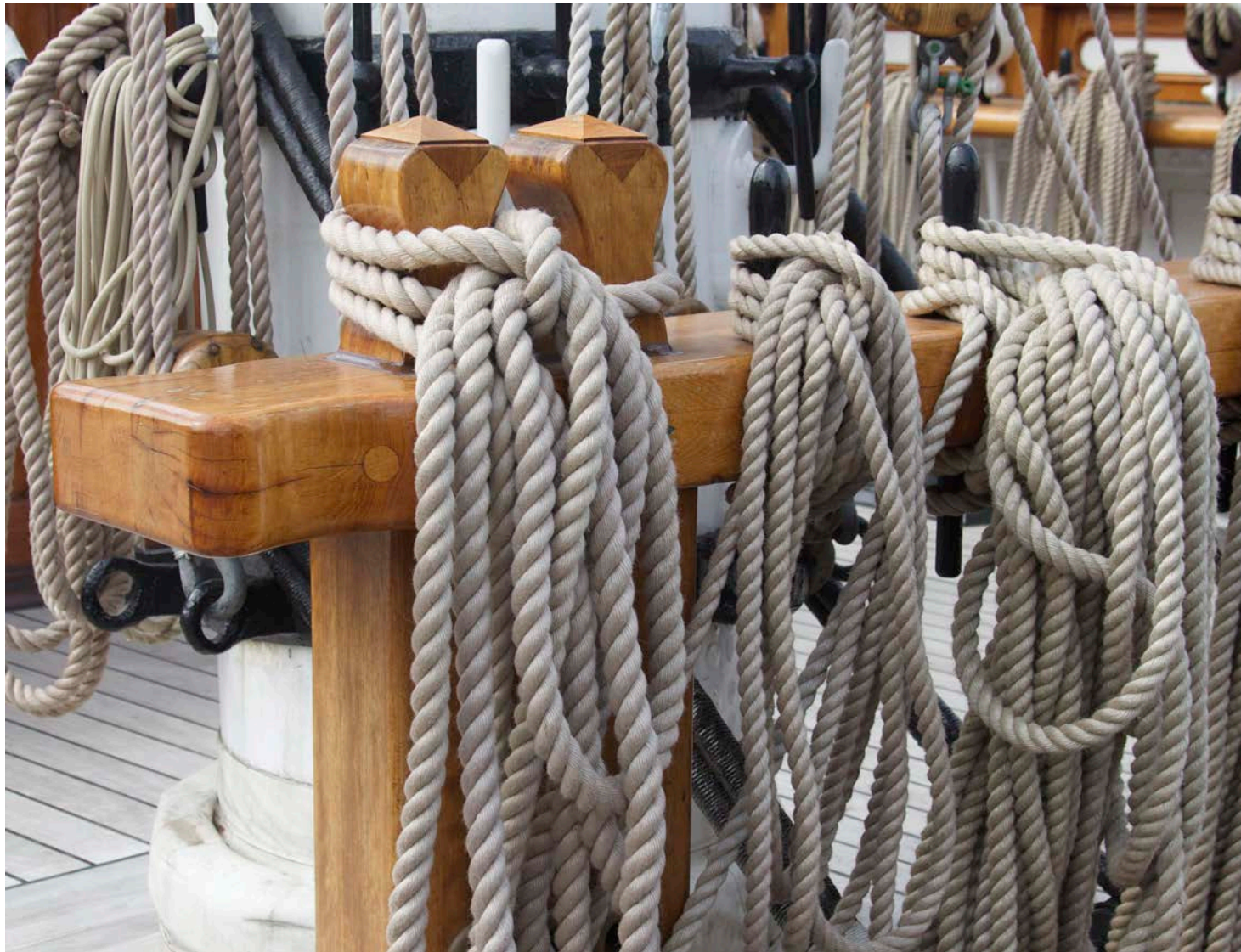


Vasa
1628



Mary Rose
1511

Cutty Sark



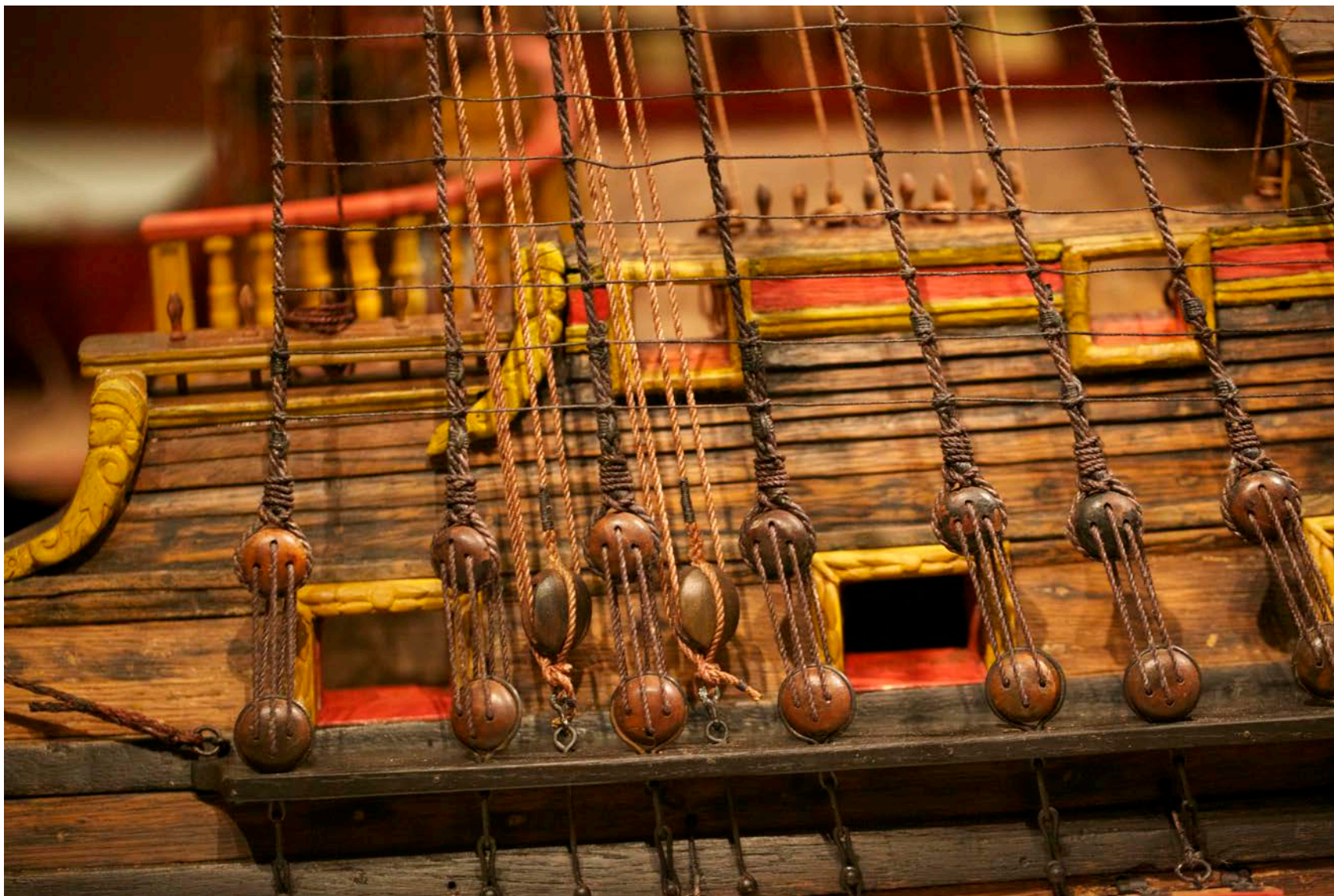
3 sizes of
running
rope

Cutty Sark measured



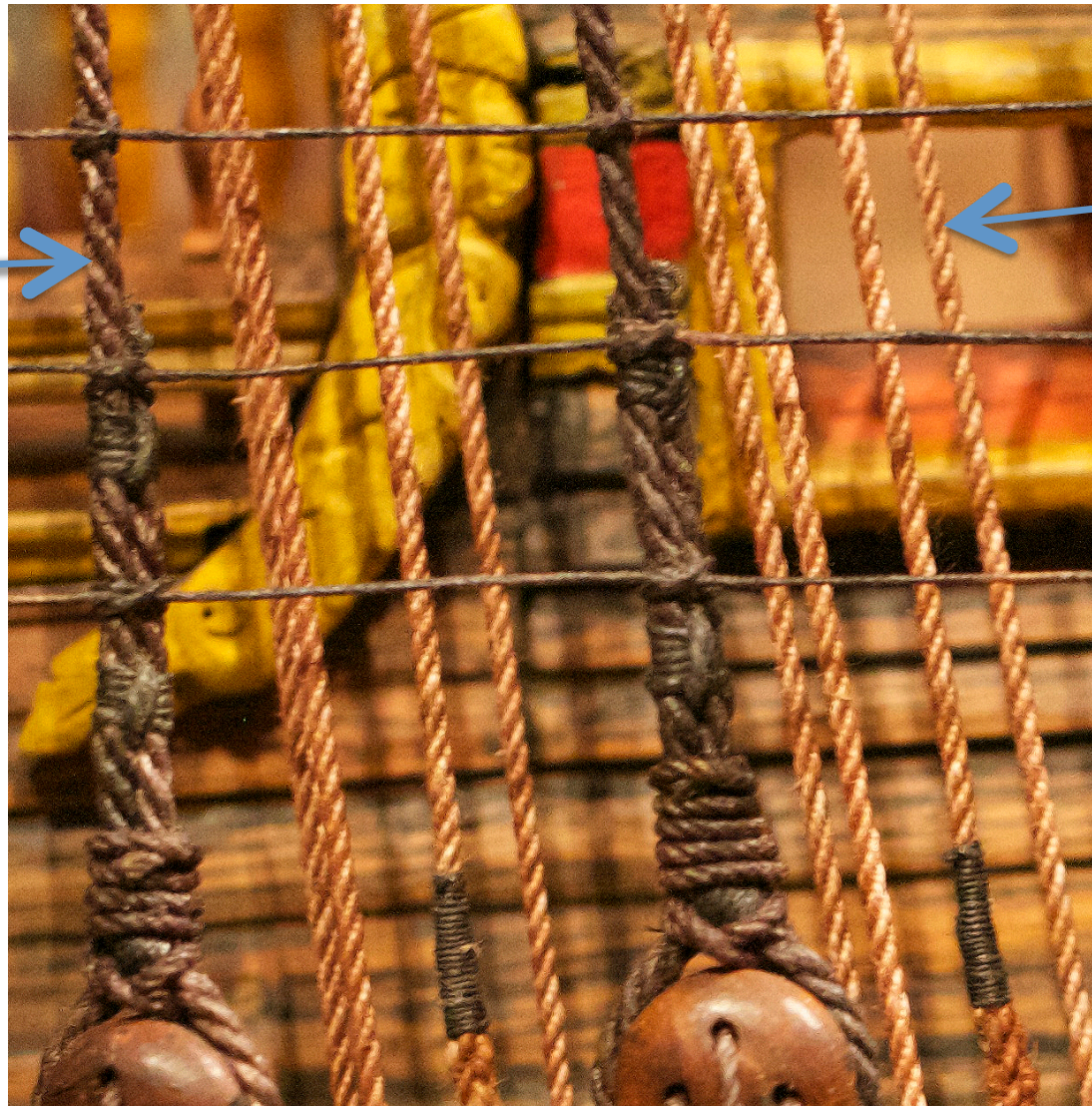
left
rope
4"

Valkenisse



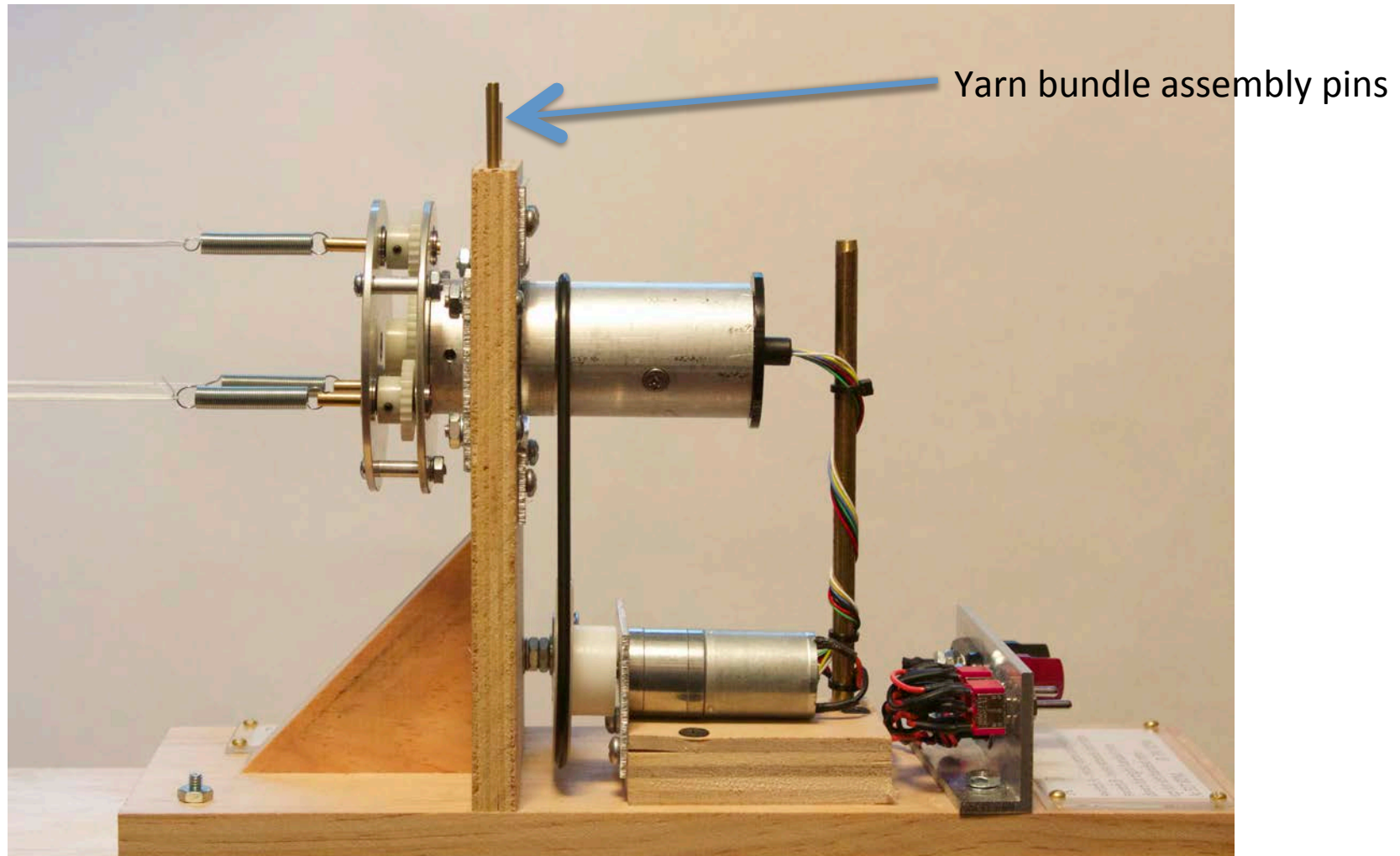
Valkenisse close-up

Left-hand

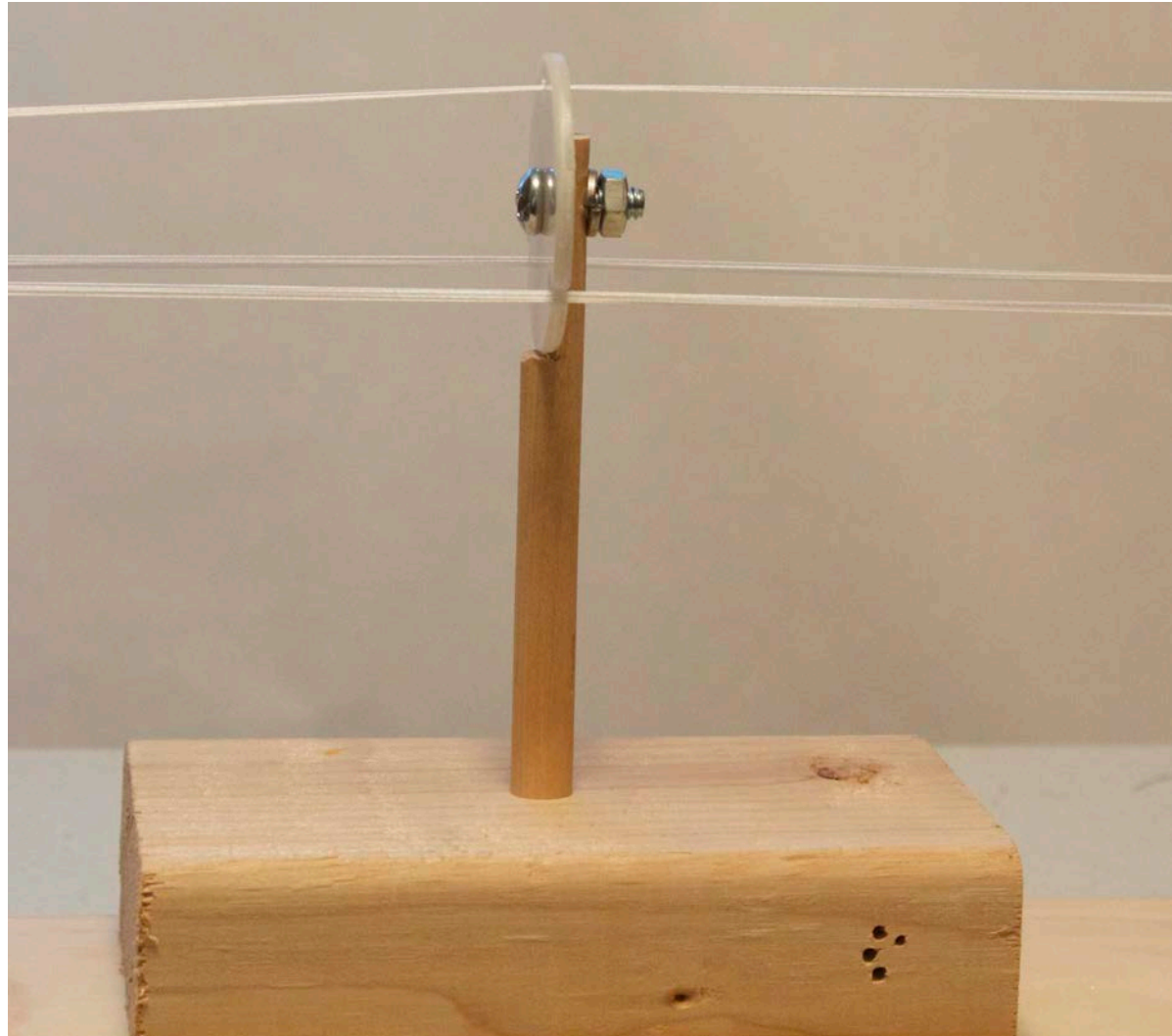


Right-hand

Rope Machine Head



Rope Machine Spreader

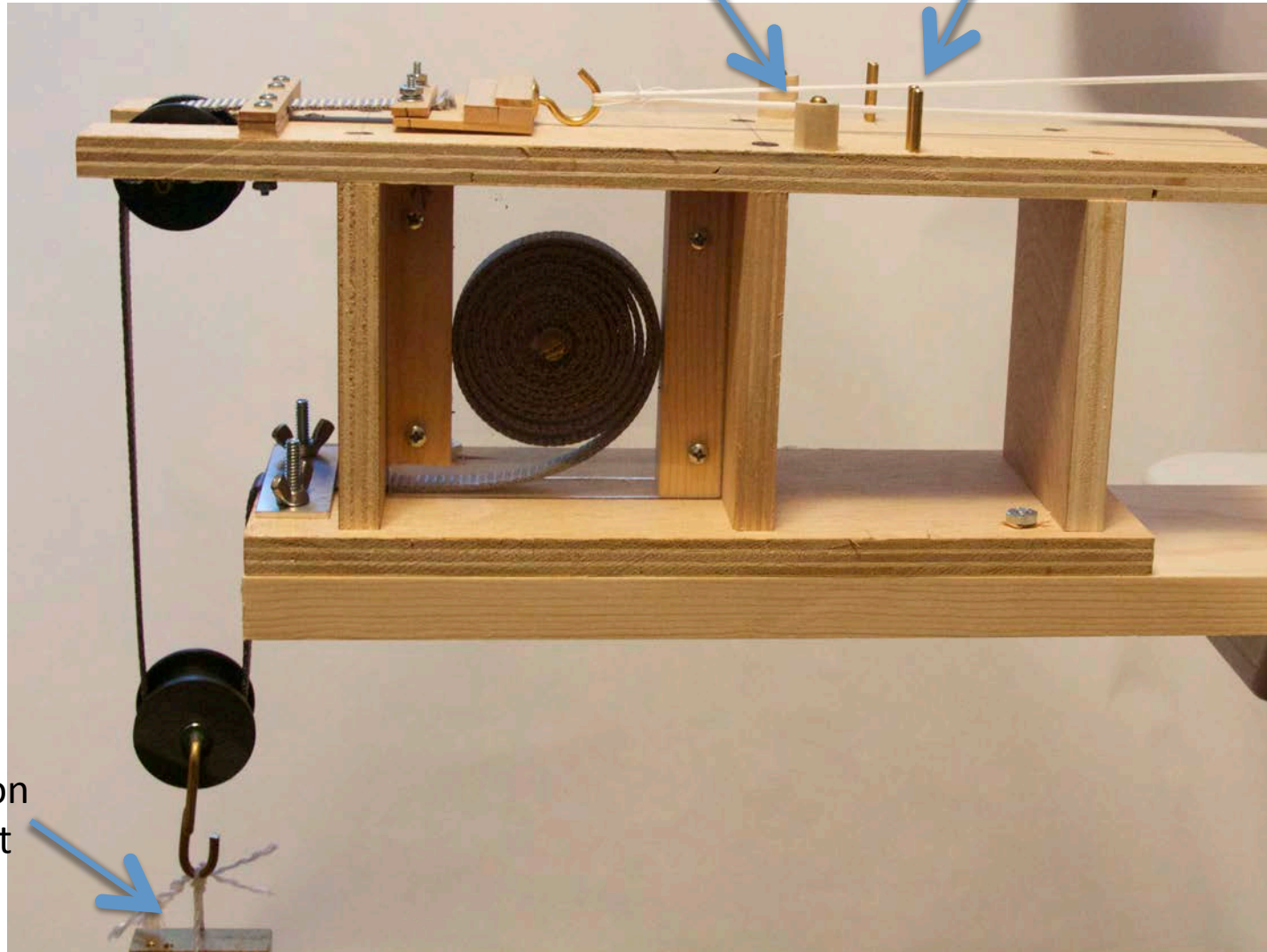


Rope Machine Tail

Yarn starter posts

Yarn bundle assembly pins

Tension
weight



Rope Machine Instructions

A B + 6vdc -

switch A - twist yarns into strands

switch B - twist strands into rope

down for right handed rope

up for left handed rope

A: 517 RPM

B: 391 RPM

Instructions

- Assemble yarn bundles & load into machine
Using yarn bundle assembly pins
- Insert spreader
- Use switch A to twist yarns into strands
- Remove spreader
- Use switch B to twist strands into rope

Filament Silk Thread

- Yli: 100wt silk - 0.0057 dia
www.roserushbrooke.com, 1,000 yd. mini cone - \$16.75
- Superior Threads - Kimono Silk #100 - 0.0066 dia
www.superiorthreads.com, 1,090 yd. mini spool - \$17.99
- Purely Silk - size 00 - 0.0088 dia
www.firemountaingems.com, 695 yd. mini cone - \$9.58
- Ashaway – 8/0 braided silk suture – 0.0017 dia
www.ashawayusa.com, 1000 yd. spool - \$169.10

Example 1



8 yarns per strand – 6/0 silk suture – right laid

Example 2



10 yarns per strand – 6/0 silk suture – left laid

Now a demo