About EARLS
Your choice for quality spreaders and related equipment.

About the Company
EARLS is a dynamic, 3rd generation family owned and directed company currently in our 59th year of continuous operation in the Vancouver, Canada area. Over the course of the past several decades EARLS has grown to become a full fledged engineered product manufacturer. Currently we have equipment working throughout the western hemisphere and we are looking to add customers, partners, and agent representation around the world.

Our Manufacturing Facility
Our Metro Vancouver plant is located in the suburb of Port Coquitlam where we have a 21,000 sq ft factory and 7,500 sq ft office located on a 1.4 acre industrial property. The factory consists of three bays, one each for machining, welding/fabricating, and electro-hydraulic & mechanical assembly. All EARLS spreaders are built to order at this location.

Total Commitment
EARLS total commitment to the customer encompasses all aspects of product development, design, manufacture, marketing, and after sales service. The delivery of a product to a customer marks the beginning of a permanent relationship.

Our Location
EARLS Industries Ltd.
Address: 1616 Kebet Way, Port Coquitlam, BC, V3C 5W9, Canada
Phone: +1 604-941-8388
Fax: +1 604-941-8302
Web: www.earlsindustries.com

Local Support Partner - India
Chirayush I. Gandhi
Director Sales and Technical Support.
BSc, MSc, B-Econ, MBA, NY Univ, & Univ of Boston
Email: cigandhi@emcogroup.co.in

Emco Group Companies
Address: 5/6 Magnum Opus Plaza, Shanthinagar,
Vakola, Mumbai 400055.
Phone: 91-22-2-6651771/2/4/5/6/7.
Web: www.indiamart.com/emcogroup

STS Spreader
Floating Twin-Twenty Ship to Shore Spreader
20'/40'/45'/Twin 20' Positions
Quality Spreaders & Committed Service

The EARLS telescopic ship to shore container crane spreader has become renowned at many ports around the world as one of the best pieces of equipment available. EARLS spreaders are built to order in a single facility and our product quality, support, and service are second to none. When you buy an EARLS spreader, in addition to getting a great product you are creating a lasting relationship.

List of Units in Service:

<table>
<thead>
<tr>
<th>Model #</th>
<th>Port Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>#888</td>
<td>TSI Vanterm, Vancouver, BC</td>
</tr>
<tr>
<td>#889</td>
<td>Port of Tacoma, Tacoma, WA</td>
</tr>
<tr>
<td>#817</td>
<td>Port of San Francisco, CA</td>
</tr>
<tr>
<td>#889</td>
<td>Port of Portland, OR</td>
</tr>
<tr>
<td>#871</td>
<td>Port of Trinidad &amp; Tobago</td>
</tr>
<tr>
<td>#888</td>
<td>TSI Deltaport, BC</td>
</tr>
<tr>
<td>#882</td>
<td>Fraser Surrey Docks, BC</td>
</tr>
<tr>
<td>#880</td>
<td>Ports America, Tampa, FL</td>
</tr>
</tbody>
</table>

Performance Data:

- Extend (20' to 40')
  - 23 seconds
- Retract (40' to 20')
  - 25 seconds
- Extend (40' to 45')
  - 8 seconds
- Retract (40' to 45')
  - 8 seconds
- Flippers Up (2 from 0° to 180°)
  - 4 seconds
- Flippers Down (2 from 180° to 0°)
  - 4 seconds
- Flippers Up (4 from 0° to 180°)
  - 4.5 seconds
- Flippers Down (4 from 180° to 0°)
  - 4.5 seconds
- Twistlock Pins (90° either way)
  - ~1 second

Capacity:
- 50 LT +/- 10% (single pick)
- 65 LT +/- 10% (twin pick)

Tare:
- 24,500 lbs

Fatigue:
- 1,200,000 cycles to AISC Specs.

Materials:
- ASTM A514 & ASTM A572-50

Total Life Cost:
- High MMBF (mean moves between failure)
- Low MTTR (mean time to repair)
- High Reliability
- Low TLC (total life cost)

Expansion Mode:

EARLS twin-twenty separating spreader is designed and manufactured using telescoping hydraulic cylinders complete with shock absorbing relief valves.

Paint:
- 3 Coat System (Devco)
  - Inorganic Zinc Primer
  - Epoxy Intermediate Coat
  - Aliphatic Polyurethane Top Coat