



## About EARLS

Your choice for quality spreaders and related equipment.



### About the Company

EARLS is a dynamic, 3<sup>rd</sup> generation family owned and directed company currently in our 59<sup>th</sup> 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

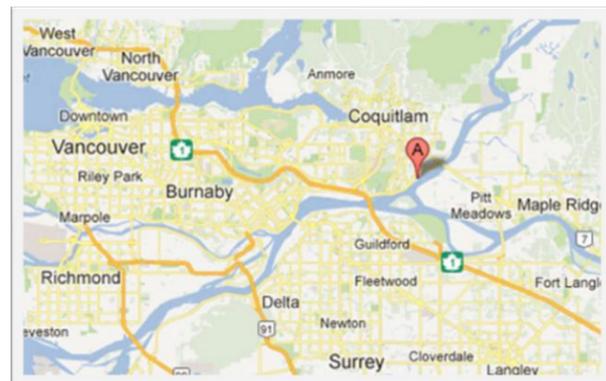
#### EARLS Industries Ltd.

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### Local Support Partner - India

#### Chirayush I. Gandhi

Director Sales and Technical Support.

BSc, MSc, B-Econ, MBA, NY Univ, & Univ of Boston

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#### Emco Group Companies

**Address:** 5/6 Magnum Opus Plaza, Shantinagar, Vakola, Mumbai 400055.

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# MODEL ST20 STS Spreader

Separating Twin-Twenty Ship to Shore Spreader  
20'/40'/45'/Twin 20' Positions



### Extension Cylinders

- ✓ Our spreaders are driven by hydraulic extension cylinders that are designed, engineered, and manufactured in house.
- ✗ EARLS spreaders are not chain driven.

### Twistlock Pins & Nuts

- ✓ EARLS spreaders are equipped with fabricated twistlock pins and nuts that we manufacture in house.
- ✗ We do not use forged twistlock pins.

### Twin-Twenty Module

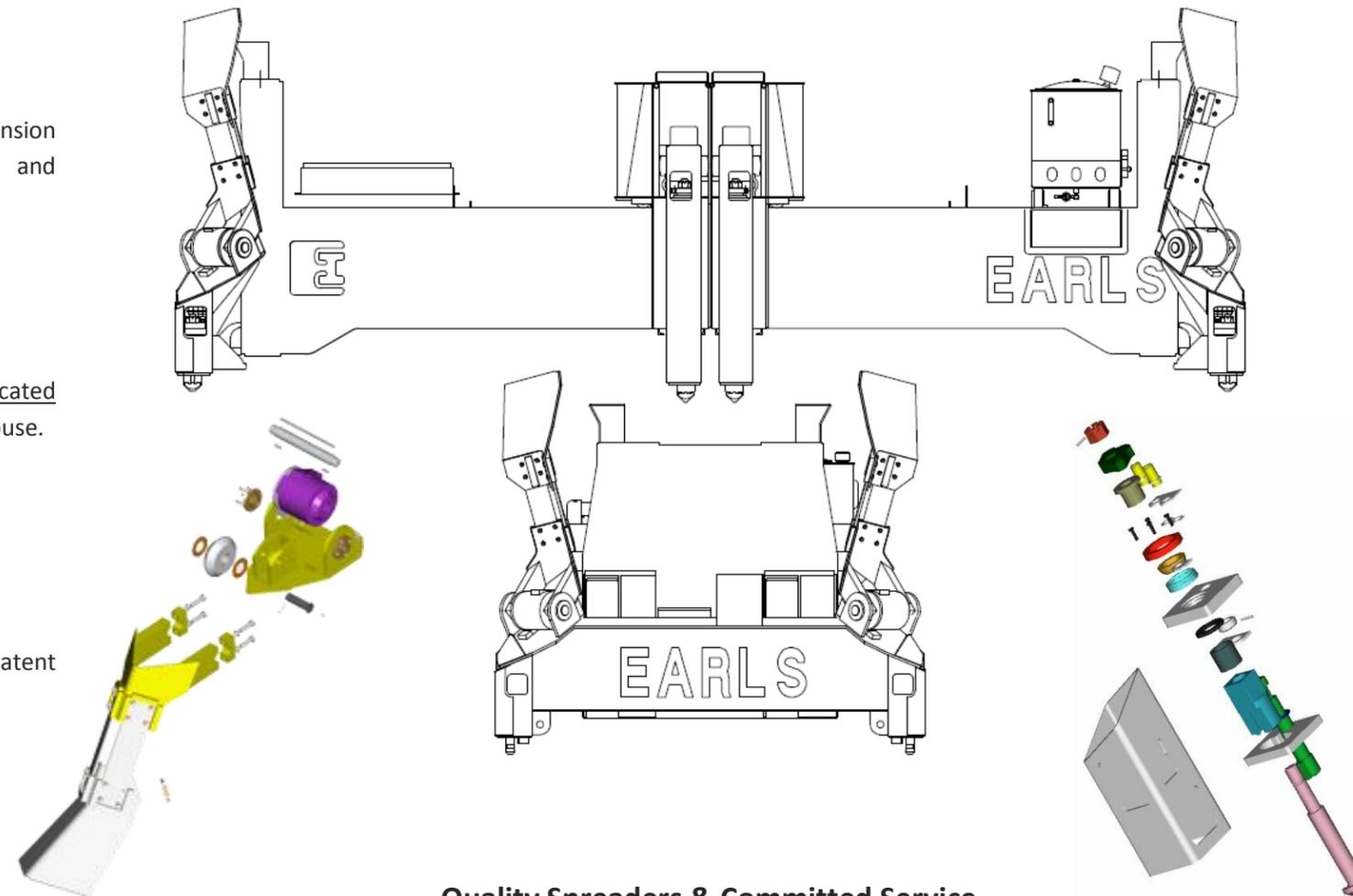
- ✓ EARLS invented the Floating Twin-20.
- ✓ EARLS holds a patent for this design (US Patent awarded in 1994.)

### Flipper Details

- ✓ HS-15 Rotary Actuators.

### Total Life Cost

- ✓ High MMBF (mean moves between failure)
- ✓ Low MTTR (mean time to repair)
- ✓ High Reliability
- ✓ Low TLC (total life cost)



### 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.



### Separating Twin-Twenty Models:

|            |                                      |
|------------|--------------------------------------|
| Model #881 | Maher Terminals, NY/NJ               |
| Model #861 | APM (Maersk-Sealand), Tacoma         |
| Model #898 | Port of Seattle                      |
| Model #893 | Philadelphia Regional Port Authority |
| Model #894 | DPW Caucedo, Dominican Rep.          |
| Model #883 | Port of Houston Authority, Texas     |
| Model #884 | Global Terminals, NY/NJ              |

### Performance Data:

|                                   |              |
|-----------------------------------|--------------|
| Extend (20' to 40')               | 23 seconds   |
| Retract (40' to 20')              | 25 seconds   |
| Extend (40' to 45')               | <10 seconds  |
| Retract (40' to 45')              | <10 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)   | ~1.5 seconds |

### Capacity:

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

### Tare:

25,500 lbs to 33,500 lbs  
(units in service)

### Fatigue:

300,000 to 2,000,000 cycles  
to AISC Specs.

### Materials:

ASTM A514 & ASTM A572-50

### Expansion Mode:

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

### Paint:

- 3 Coat System (Devoe)
  - Inorganic Zinc Primer
  - Epoxy Intermediate Coat
  - Aliphatic Polyurethane Top Coat