

DRIVES®
CHAIN BY TIMKEN

DRIVES® LEAF CHAIN FOR RAIL AND PORT

Press Fit Plates

Slip Fit Plates

Ballized pitch hole

INNOVATION IN PERFORMANCE

Drives® Leaf Chain has been designed and developed to maximize service life for the toughest applications.

Starting with the best materials leads to higher strength and durability. Our leaf chain components are sourced, manufactured and sent to you from within the United States.

From concept, to production and then throughout the life of the unit, we work hard and smart to exceed your expectations.

LEAF CHAIN CONSTRUCTION

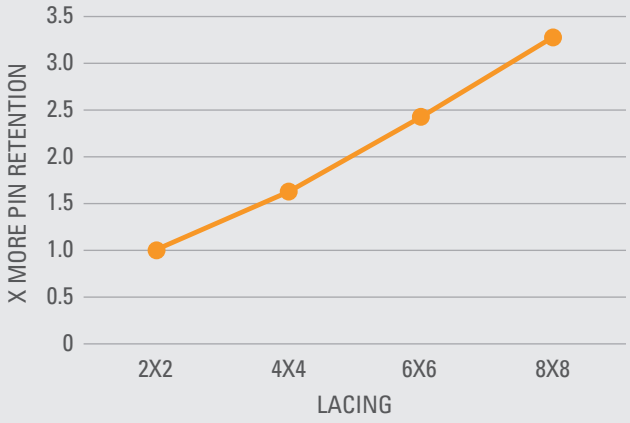
- Press fit construction increases push-out force and minimizes risk of pin rotation
- Pins and wide-waist link plates are manufactured from high quality alloy steel
- Precision heat treatment optimizes tensile strength, ductility and wear life
- Ballized pitch hole surface finish improves wear life, fatigue resistance and pin retention
- Rust inhibitor or hot dip lubricant is utilized for effective lubrication



INNOVATION IN APPLICATION

Drives' engineers understand what you're looking for in leaf chain: high tensile strength, maximum wear life and pin retention. That's why we manufacture chain to increase uptime, reduce maintenance costs and keep operations moving along successfully.

Our unique press fit construction has proven successful in increasing push-off force and pin retention. Drives' leaf chain with 8x8 lacing has 3.25X higher push-off force than competing leaf chain, leading to 3.25X higher pin retention. Similarly, our 6x6 laced leaf chain has 2.40X greater push-off force and pin retention.



As such, Drives' large pitch leaf chain is essential for container handling at rail and sea ports. Drives engineers develop our leaf chain based on their thorough understanding of shipping containers and the chain requirements needed to move them.

The average 40ft shipping container can weigh up to 67,200 lbs[1] with maximum cargo. Multiplied by the number of containers moved in one day, straddle carriers and forklift trucks require chain built to sustain the heaviest of shipments.

1 https://containerauction.com/read-news/shipping-container-capacityweights

INNOVATION IN SERVICE

Producing products that push the boundaries of performance is only the beginning. Drives recognizes that those in the rail and seaport industries demand technical, logistical and after-sales support.

IN-HOUSE MANUFACTURING

- Ensures production flexibility for standard and customized products

QUALITY OF SERVICE

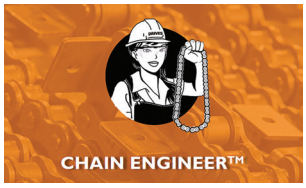
- State-of-the-art engineering includes research and development plus product testing

ONSITE SUPPORT

- Supported by experienced design and application engineers

TOOLS & RESOURCES

- **Go/No-Go Wear Gauge:** Available for BL12, BL14, and BL16 Leaf Chains; measures 1-3% elongation
- **Chain Engineer App (www.chain-engineer.com):** Allows users to track leaf chain elongation online; select equipment used, enter measurements and submit to receive data in real-time







NOMENCLATURE

SERIES ID

For most commonly used leaf chain, this will be either:

BL or LH: Heavy

AL: Light

EL or LL: Light

FEMALE LACING

Number of plates in the inner grouping

2 to 8 plates per grouping

Many combinations available. Here are a few:

BL1222: 2 female plates

BL1466: 6 female plates

BL1644: 3 female plates

BL2044: 4 female plates

BL	16	8	8

CHAIN SIZE

Imperial sizes are given in inches, divided by 8ths to calculate pitch.

12: 12/8 = 1.50" pitch

14: 14/8 = 1.75" pitch

16: 16/8 = 2" pitch

20: 20/8 = 2.5" pitch

Metric sizes are given in millimeters (mm).

MALE LACING

Number of plates in the outer grouping

2 to 8 plates per grouping

Many combinations available. Here are a few:

BL1222: 2 male plates

BL1466: 6 male plates

BL1634: 4 male plates

BL2044: 4 male plates

TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related power transmission rebuild and repair services.

Stronger. By Design.

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