

MADE
IN
LAPUA

THE PIONEER IN CHAIN SOLUTIONS



LAPUA-KETJURI

www.lapuachains.com

CHOOSE AS PARTNER

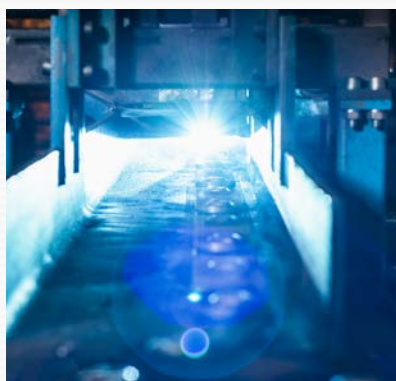
Durability and uncompromising quality.



The history of Lapua chains goes back to 1947, when manufacturing of chains began in Lapua. During the nearly 70 years of our history, it has always been true that all chains look alike, but you can't tell from appearances which is the best. Because of this, companies have moved their attention from minimizing costs to optimizing utilization rates and productivity. The industry has noticed that saving money will not make you rich. Competitiveness and profitability require investment. The machines, chains and other components need to be productive. The advantages of a Lapua chain are the low total costs of ownership (TCO) and its ability to stand up to comparison.

The exceptionally long lifetime of Lapua chains result from first-class Western materials, the best hardening methods, and careful assembly. Every single link in the chain is of uniform quality and durability. Every manufacturing stage in the Lapua chain production process takes place in Finland. The manufacturing process is self-sufficient, so the production of each link in the chain is controlled and its origin known.

www.lapuachains.com



2016 Laser marking
of side plates and
type designation.

2015 The first conveyor chain in the world with product warranty
over the lifetime of the chain.

2015 Introduced two complete new product families
to take conveyor chains to a whole new level. The
conditions and use of conveyors vary, and the best
results for every situation cannot be achieved with
the same chain.

 STANDARD®

 LTRA®

2013 Development of Lapua Hybrid®
and Lapua MFI®

2002 The chain factory is sold to
Kauhavan Konepaja Oy, Lapua Chains Ltd.

2000 Large-scale introduction of through
hardening in welded conveyor chains.

1994 Chain production is
moved into new premises.

1992 The first fully automated riveted chain
assembly line.

1923 Valtion
Patruunatehdas
(State Cartridge
Factory)
is founded.

1974 Break-through sideplate manufacturing technology that provides
complete cylindrical pin and bushing holes developed.

1947 Production of chains begins in Lapua.



FOR INDUSTRY NEEDS

PRODUCTS AND SERVICES

◆ M-type basic chains SFS 2380

- A wide variety of raw material options and attachments available.

◆ A-type chains SMS 1698

- Conveyor chains conforming to Swedish standards, which can be modified in the same way as M-type chains

◆ Attachment chains

- All of the chains we manufacture can be equipped with various attachments.

◆ Roller chains for the sawmill industry

- Size categories 16B - 32B
- We are the only manufacturer in Northern Europe to manufacture roller chains entirely ourselves, from parts to assembly.

◆ Y-chains for the pulp industry

- Can be equipped with various attachments or brackets and re-greasing holes.

◆ Lamella chains for the paper industry

◆ Lifting chains

- We manufacture heavy-duty pin and leaf chains

◆ Sprockets

◆ Measurement service

- In addition to chain deliveries, we perform measurement and inspection services for our customers' chain uses.



LEARN MORE
ABOUT OUR PRODUCTS:
[www.lapuachains.com/
products](http://www.lapuachains.com/products)





The biggest customer groups for Lapua chains are the sawmill industry, pulp factories, paper factories, heating and power plants, and the process industry.

Made to be productive!



"The most important thing for us is to form an understanding of the customers' needs and to create the exact solution for the chains that they need. When others break, Lapua chains endure!"

Tomi Ulvila
Head of Quality and Product Development
Lapua Chains Ltd.

OUR COMPONENTS ARE WIDELY USED IN VARIOUS INDUSTRY BRANCHES:

- Sawmill industry ● Heating plants ● Metal industry ● Feed industry
- Waste Treatment ● Mineral wool manufacture ● Nuclear power plants
- Pulp and Paper industry ● Hydropower industry ● Grain processing
- Building material industry ● Food industry ● Mining industry
- Farming industry ● Water treatment ● Power industry ● Maritime shipping
- Steel industry ● Asphalt industry ● Chip and peat haulers

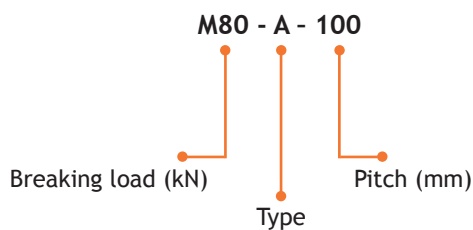


READ REFERENCES FROM
OUR CUSTOMERS AT:
[www.lapuachains.com/
references](http://www.lapuachains.com/references)

FROM LAPUA CHAINS

CHAIN TABLES

M -CHAIN MARKING MODEL



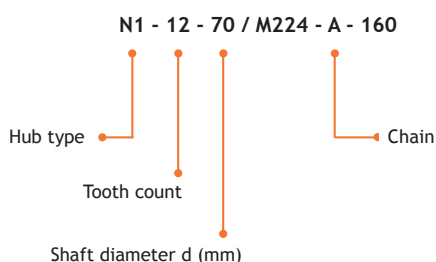
STRUCTURE TYPES:

- A - A chain with straight side plates, no rollers
- B - chain with straight side plates with small rollers
- C - chain with straight side plates with plain rollers
- D - chain with straight side plates with flanged rollers
- E - chain with raised side plates and plain rollers

M-CHAINS	Chain no	Breaking load kN	Pitch p (mm)				Inner width min	Pin Ø	Bush Ø	Small roller Ø	Plain roller Ø	Outer width max	Side plates		
													Thickness	Height	Height type E
RIVETED CHAINS	M 56	56	63	80	100	125	23	10	15	21	42	46	4	30	40
	M 80	80	80	100	125	160	27	12	18	25	70	59	5	35	50
	M 112	112	80	100	125	160	31	15	21	30		65	6	40	60
	M 160	160	100	125	160	200	36	18	25	36		77	7	50	70
(+ 40 %)															
WELDED CHAINS	M 224	315	125	160	200	250	42	21	30	42	85	89	8	60	90
	M 315	440	160	200	250	315	47	25	36	50	100	103	10	70	100
	M 450	630	200	250	315	400	55	30	42	60	120	121	12	80	120
	M 630	880	250	315	400	500	65	36	50	70	140	140	14	100	140
	M 900	1260	250	315	400	500	76	44	60	85	170	162	16	120	180

SPROCKETS

SPROCKET MARKING MODEL



**A PART OF THE SOLUTION
THAT IS AT LEAST AS IMPORTANT
AS THE ACTUAL CHAINS.**

Lapua Chains delivers sprockets in addition to chains and guides. Purchasing all components from the same manufacturer is simple and cost-effective, and it guarantees that all parts fit together seamlessly.

TO SPROCKETS

KARKAISTAAN: HRC >50

Reikätolkki 4-73041 Ø15 C11

A -CHAIN MARKING MODEL

A18 x 150 G

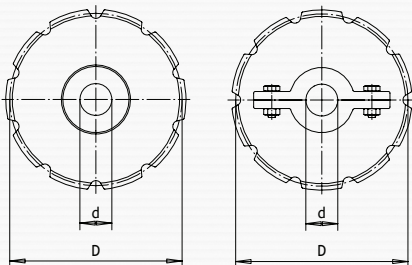
breaking load (t) Pitch Thickness of side plate

A-CHAINS	Chain no	Breaking load τ	Pitch p (mm)				Inner width min	Pin Ø	Bush Ø	Outer width max	Height	Side plates	
												Inner plate thickness	Outer plate thickness, Heavy
RIVETED CHAINS	A 5,5	5,5	50	63	80	100	22	12	18	50	30	5	4
	A 8,5	8,5	63	80	100	150	25	14	20	60	35	6	8
	A 12,5	12,5		100	150	200	35	18	25*	77	40	8	8
	A 18	18		100	150	200	45	21*	30	97	50	8	10
(+ 40 %)													
WELDED CHAINS	A 24	33		100	150	200	55	25*	36	113	60	10	12
	A 30	42		150	200	250	65	30	42	126	70	10	12
	A 40	56		150	200	250	80	36	50	145	80	12	12
	A 65	90		150	200	250	80	36	50	162	90	15	15
*) Non-standard													

NORMAL

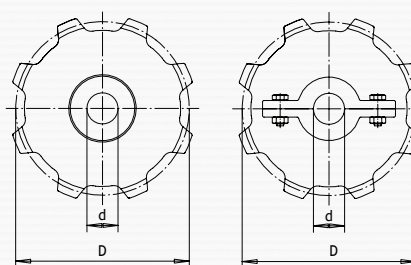
LONG TOOTH GAP

HUB TYPES



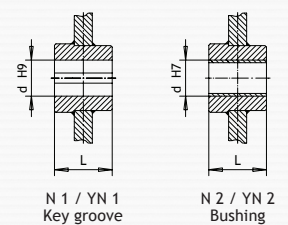
One-piece N

Splittable NN



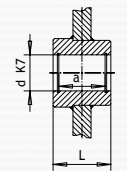
One-piece YN

Splittable XN



N 1 / YN 1
Key groove

N 2 / YN 2
Bushings



N 4 / YN 4
Ball bearing

Our sprocket selection includes one-piece sprockets, more easily installable two-piece, a.k.a. splittable, sprockets, sprockets with long notches for decreasing occlusion, as well as special sprockets such as half-toothed sprockets.

BEST MATERIALS BEST HARDENING

To ensure top-quality hardening, Lapua Chains partners only with those Western suppliers who can provide the best raw materials.
All chain pins and bushes are hardened in their full length.



LAPUA MFI® THE MOST MODERN INDUCTION HARDENING METHOD ON THE MARKET

The multifrequency induction hardening system, developed and registered by Lapua Chains. The hardening is performed on company premises in Lapua under the company's own supervision. This way, greater hardening depth and more uniform quality, compared to standard induction hardenings, can be achieved.
The inner surface remains unhardened > for lighter applications. A low-cost and efficient hardening method.



THROUGH HARDENING BY FAR THE BEST HARDENING METHOD FOR HEAVY-DUTY CHAINS

Of all chain manufacturers, we have probably studied and tested this method in practice the most. By far the best hardening method for heavy-duty chains that demand hard compression resistance.
The through hardened bush has an unsurpassed capacity to withstand pressure from the socket without cracking. It is mainly used for big, welded chains, M224 and larger.



FOR LIGHTER USE AND INITIAL
INSTALLATIONS

A cost-effective industrial conveyor chain that
complies with the standard.





The only conveyor chain in the world to offer product warranty over the lifetime of the chain!



**LAPUA HYBRID®
EXCEPTIONAL HARDENING METHOD,
ONLY USED BY LAPUA CHAINS.**

By combining the benefits of through hardening and case hardening, the raw material becomes thoroughly hard and the surface develops an even harder, wear-resistant layer. The advantages can be seen in riveted chains where the chain speeds are high and wear-resistance needs to be particularly good.

TECHNOLOGY

The market's latest concept, the Lapua Hybrid® hardening system.

GUARANTEE

ORIGIN

The chains are made entirely in Lapua, from parts to the final assembly of the chains.

FULLY
HARDENED!

FOR HEAVY DUTY USE AND CHALLENGING ENVIRONMENTS

For critical conveyors where uninterrupted use and problem-free maintenance are the key factors.



THE STANDARDS DEFINE ALL
THE CHAINS TO LOOK THE SAME
**LAPUA CHAINS
ARE THE MOST
DURABLE!**



LAPUA ULTRA®
12 QUALITY FACTORS
LEARN MORE:
www.lapuachains.com/ultra

ALWAYS LOOKING FIRMLY TO THE FUTURE

Constant product development at Lapua Chain leads to quality. Since the beginning, we have developed technical solutions to improve durability at critical points in the chains. The current improvements clearly surpass all requirements set by standards and are a standard part of all Lapua chains.

Among the most important factors for the durability of Lapua chains are the tight and precise fittings of pins and bushes into side plates. The cutting method we use for side plates makes the holes in pins and bushes exceptionally cylindrical, even in larger chains. Using a tight compression achieves extremely good stress and breaking resistance. The role of side plates in guaranteeing the chain's durability is very significant. In addition, various attachments and brackets are often welded to the side plates. Due to the quality of the material that we use, our chains are very good with regard to attachments and maintenance. Our side plate material is also very frost resistant, so the chain does not lose functionality even under extreme conditions.

Lapua Ultra® chains are laser marked with a symbol that identifies the production batch to make it possible to track the chain all the way to the beginning of the manufacturing process.



LIFE CYCLE COSTS

The initial investment of the chain is only half the story,
the durability defines the total cost of the product's life cycle

BY CHOOSING THE RIGHT CHAIN YOU CAN AVOID:

- ▶ UNPREDICTABLE DOWNTIME
- ▶ LOSS OF USABILITY
- ▶ LOSS OF CAPACITY
- ▶ CHANGING CHAINS

(Purchasing price for chain > Sprockets and sliding guides > Other components)

MADE AND TESTED UNDER EXTREME CONDITIONS - IN FINLAND



LAPUA-KETJUT

www.lapuachains.com

IN CO-OPERATION WITH:

CHAIN
W O R L D

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