



YUH CHERN

Forging The Future

[www.challengehardware.com.tw](http://www.challengehardware.com.tw)

# Industrial Conveyor Chains

Drop Forged Chains





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ZUH CHERN

# ABOUT YUH CHERN

In 1979, Yuh Chern Manufacturing Co., Ltd. was established in Taichung City, Taiwan.

## Core Business

Since our inception, we have developed a professional hot forging manufacturing service model together with experienced stamping and machining competitiveness that focuses on standardized and customized products in the field of conveyor chains and related products.

## Product Range

1 Enclosed Track Conveyor Chains

2 Drop Forged Rivetless Conveyor Chains

3 Industrial Conveyor Chains

## The Endless Pursuit for Perfection

Along with business growth, we had not only upgraded manufacturing facilities but also implemented the following management systems:

- ISO 9001 (Quality Management)
- ERP (Enterprise Resource Planning)
- SFT (Shop Floor Tracking)
- PLM (Product Lifecycle Management)
- APS (Advanced Planning and Scheduling)

## Experience Makes the Difference

Over the decades, our research and development team has accumulated valuable expertise in product development in order to provide customers with professional technical advice in the early stages of their product development. The efforts include material analysis, structure design and surface treatment. By utilizing software such as AutoCAD, Solidworks, Autodesk Inventor, SolidCAM, Cimatron CAD/CAM and Geomagic Design, we are capable of processing more than a hundred development cases per year. This has allowed us to provide increased product developing efficiency and helped customers to shorten the products TTM (time to market) period.



### Company Quality Policy

Customer Satisfaction & Continuous Improvement



### Company Vision

To further our knowledge and skill capabilities as a service provider in the technical fields of forging, stamping and machining.



### Company Mission

Through quality services and innovation, provide our customers with the most trusted and technologically advanced products.

# DROP FORGED CHAINS

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The drop forged fork link chain is designed with a rib-shape and is for a continuous conveyor system. The conveyor path can be horizontal, inclined and vertical. It is the best choice for many bulk materials such as powders, granules, flakes, and blocks. We provide different types of drop forged fork link chain products. All have solid shaft pin designs and can be assembled for light or heavy duty. The drop forged fork link chain is also known as a flight conveyor or scraper conveyor where the fork links can be welded with different styles of flights or scrapers. We provide many options to match all customers' unique conveyor designs.

Our fork link chain is forged from high quality alloy steel, such as SAE4140 (Chromium Molybdenum). We can customize the chain to support special requirements regarding materials and heat treatments to achieve greater strengths and wear resistance.

## Processing Techniques:

### Forging

The fork link chain process starts with the manufacturing of precision forging molds. Then the product is hot forged in conformity to the specifications set out by company management.

### Machining

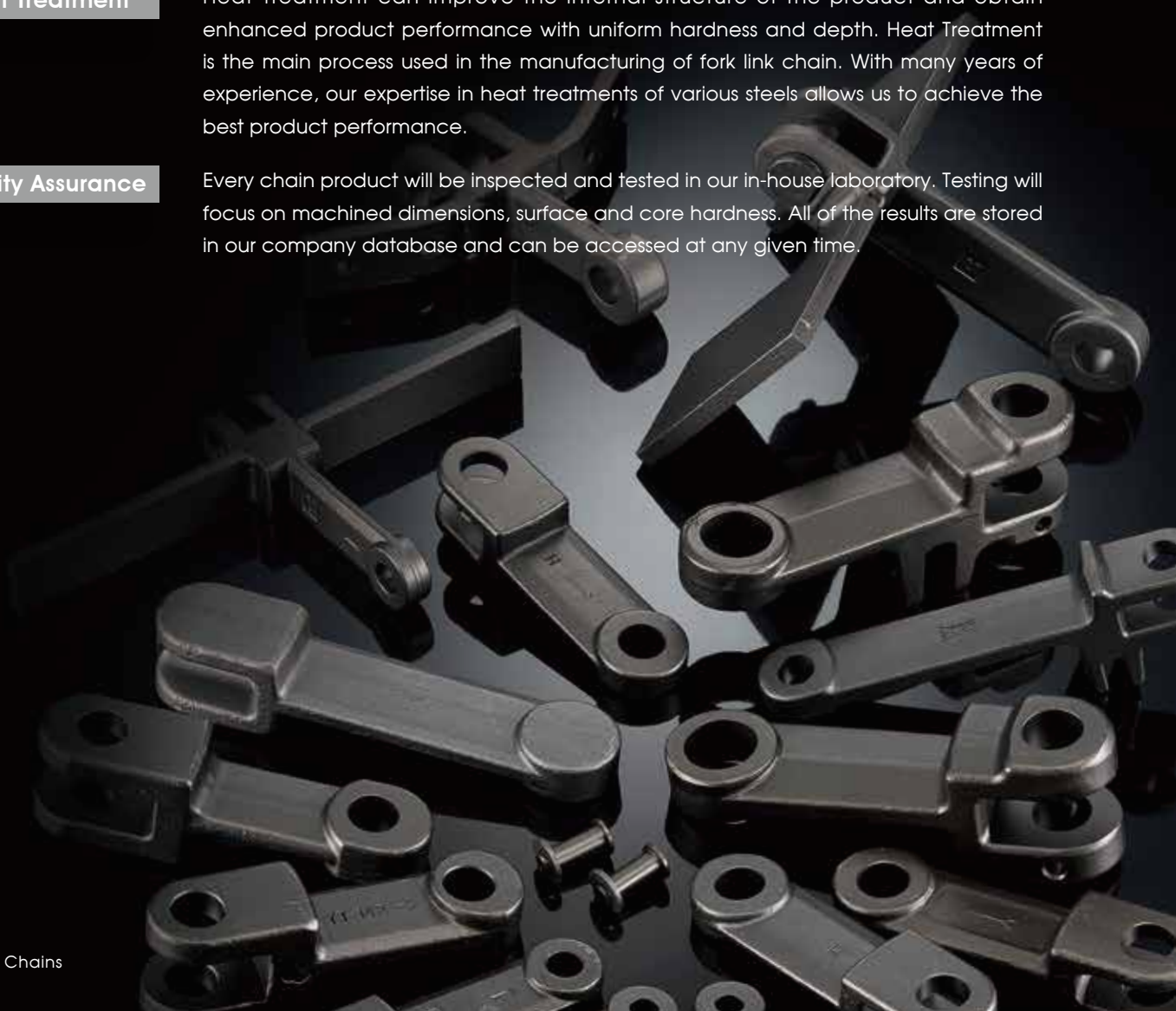
Our advanced CNC machining process guarantees excellence and consistent quality of our manufactured products. These machining processes include milling, drilling & boring. Our precision machining ensures that the product's aperture, hole pitch and groove width all meet the outlined requirements.

### Heat Treatment

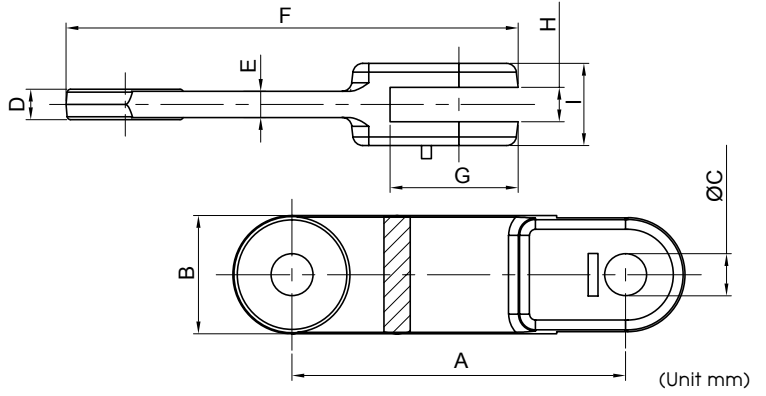
Heat Treatment can improve the internal structure of the product and obtain enhanced product performance with uniform hardness and depth. Heat Treatment is the main process used in the manufacturing of fork link chain. With many years of experience, our expertise in heat treatments of various steels allows us to achieve the best product performance.

### Quality Assurance

Every chain product will be inspected and tested in our in-house laboratory. Testing will focus on machined dimensions, surface and core hardness. All of the results are stored in our company database and can be accessed at any given time.

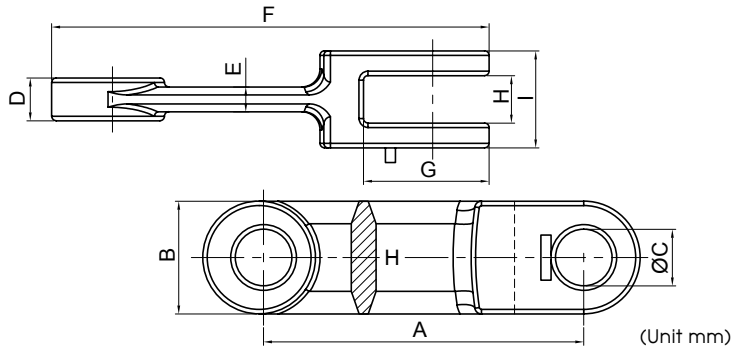


### Drop Forged Chain Pitch 101.6mm



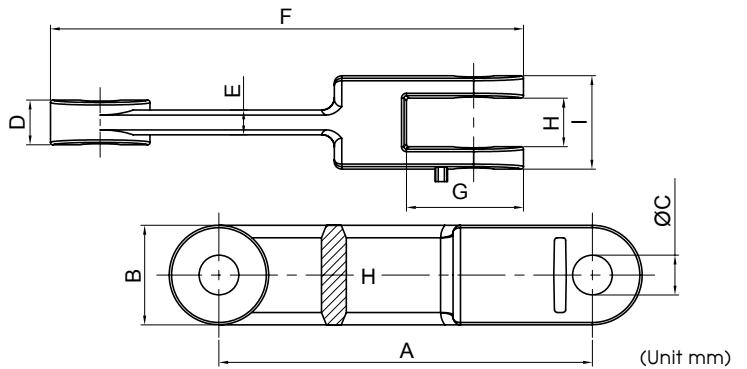
Item NO.	Description	A	B	C	D	E	F	G	H	I	Material	Surface Finishing	Min. Ultimate Tensile Strength (kgf)
5013321001	Drop Forged Chain Link P101.6 (L)	101.6	36	12.8	9.3	8	137.6	39	10.5	25	SAE1045	Anti-Rust Oil	16300
5013321004	Drop Forged Chain Link P101.6 (HD)(H)	101.6	36	14.1	13	9	138	35	14	30	SAE4140	Anti-Rust Oil	21700

### Drop Forged Chain Pitch 142mm



Item NO.	Description	A	B	C	D	E	F	G	H	I	Material	Surface Finishing	Min. Ultimate Tensile Strength (kgf)
5013333001	Drop Forged Chain Link P142 (H)	142	50	25	19.2	11.6	194	56.7	21	42.7	SAE4140	Anti-Rust Oil	36000
5013331003	Drop Forged Chain Link P142 (MD)(H)	142	50	25	25	16	192	55	26	54	SAE4140	Anti-Rust Oil	47500
5013331004	Drop Forged Chain Link P142 (HD)(H)	142	50	25	28	15	204	65	30	62	SAE4140	Anti-Rust Oil	53200

### Drop Forged Chain Pitch 150mm



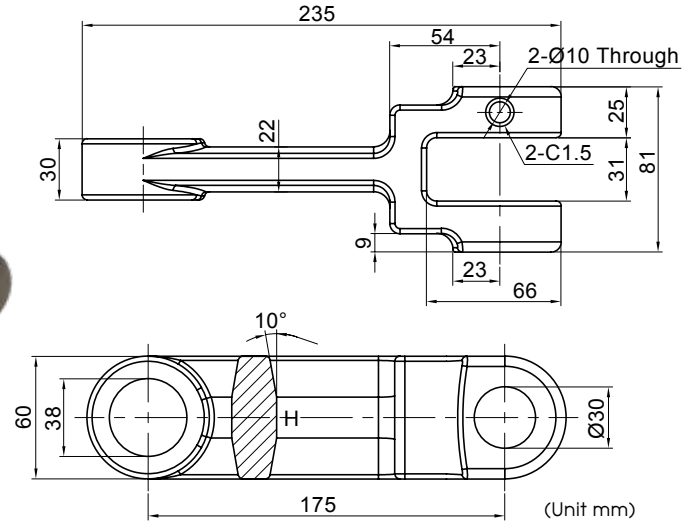
Item NO.	Description	A	B	C	D	E	F	G	H	I	Material	Surface Finishing	Min. Ultimate Tensile Strength (kgf)
5013343001	Drop Forged Chain Link P150 (H)	150	40	16.3	18	10	190	47	19	37	SAE4140	Anti-Rust Oil	32800
5013331002	Drop Forged Chain Link P150 (FT20)(L)	149.2	46	20	20	11	198.2	51.5	21	41	SAE1045	Anti-Rust Oil	39500

## Drop Forged Chain Pitch 175mm

### • Drop Forged Chain Link P175 (H)

Item NO. 6014351002

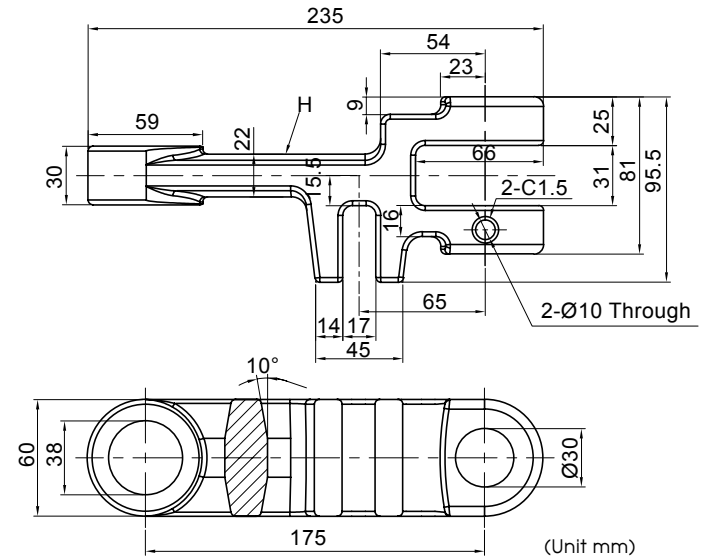
Material | SAE4140  
 Surface Finishing | Anti-Rust Oil  
 Min. Ultimate Tensile Strength (kgf) | 75200



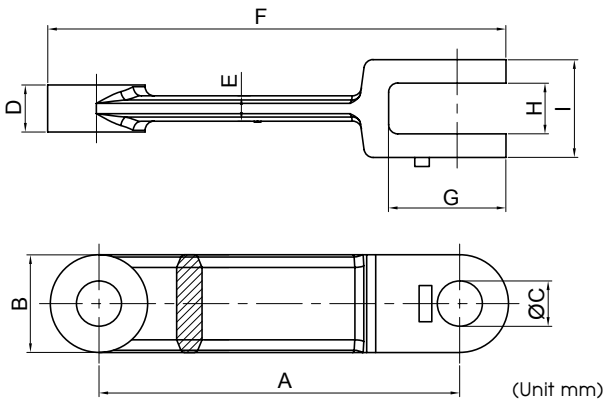
### • Drop Forged Chain Link Double Head P175 (H)

Item NO. 6014351001

Material | SAE4140  
 Surface Finishing | Anti-Rust Oil  
 Min. Ultimate Tensile Strength (kgf) | 75200



## Drop Forged Chain Pitch 200mm

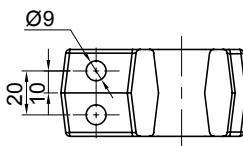
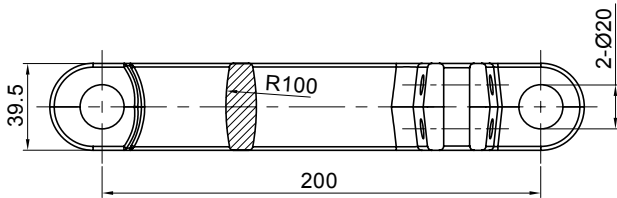
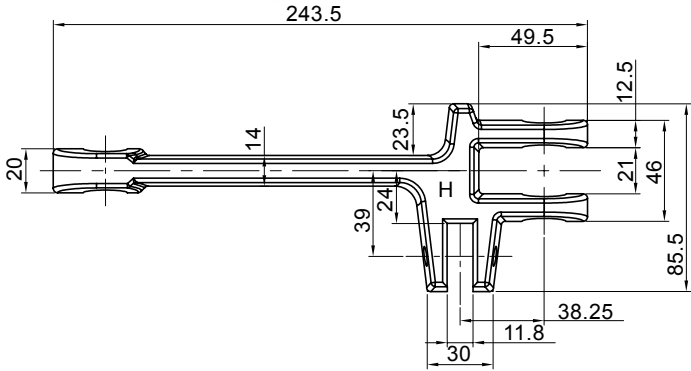


Item NO.	Description	A	B	C	D	E	F	G	H	I	Material	Surface Finishing	Min. Ultimate Tensile Strength (kgf)
5014363001	Drop Forged Chain Link P200 (H)	200	54	25	26	14	254	65	28	54	SAE4140	Anti-Rust Oil.	57300
5013331001	Drop Forged Chain Link P200 (FT30)(Z)	199.2	46	20	20	12	248.2	51.5	21	41	SCM435	Anti-Rust Oil.	39500

• **Drop Forged Chain Link Double Head P200 (H)**

Item NO. 5013363001

Material	SAE4140
Surface Finishing	Anti-Rust Oil
Min. Ultimate Tensile Strength (kgf)	29600



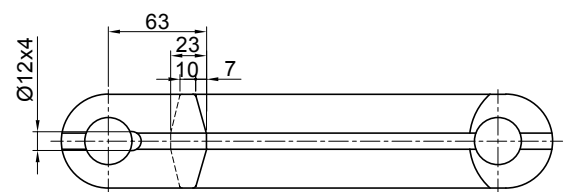
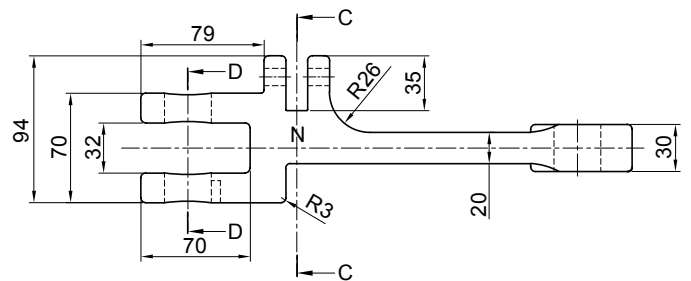
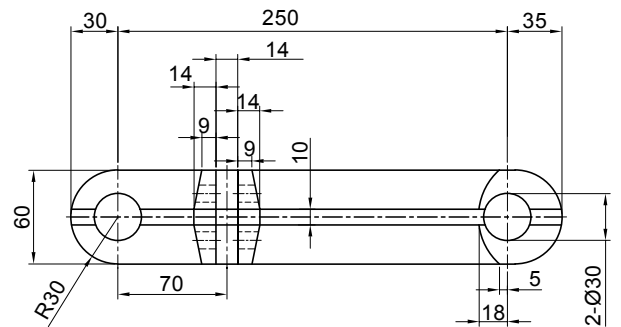
(Unit mm)

**Drop Forged Chain Pitch 250mm**

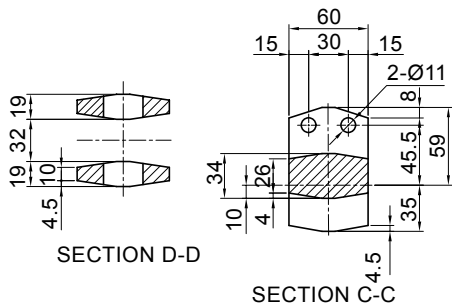
• **Drop Forged Chain Link Double Head P250 (N)**

Item NO. 5013486001

Material	SCM420
Surface Finishing	Anti-Rust Oil
Min. Ultimate Tensile Strength (kgf)	68400



(Unit mm)





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