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**Glossary of terms relating to
chains, sprockets and accessories**

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by Japan Chain Association (JCA)/ Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

Consequently, **JIS B 1812:2013** is replaced with this Standard.

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Glossary of terms relating to chains, sprockets and accessories

Introduction

This Japanese Industrial Standard has been prepared based on the first edition of **ISO 13203** published in 2005 with some modifications of the technical contents, such as addition and deletion of the corresponding terms and drawings for meeting the particular needs of Japanese market, and addition of definitions not given in the corresponding International Standard as unique contents of Japanese Industrial Standard.

The portions given dotted underlines are the matters not given in the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies the terms and definitions relating to chains, sprockets and accessories used for transmission and conveyance.

NOTE 1 While the corresponding International Standard gives only terms and related drawings, this **JIS** standard additionally provides definitions to all the terms given.

NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 13203:2005 *Chains, sprockets and accessories—List of equivalent terms* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are **IDT** (identical), **MOD** (modified), and **NEQ** (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this Standard. The most recent edition of the standard (including amendments) indicated below shall be applied.

JIS B 1801 *Short-pitch transmission precision roller chains and bush chains*

3 Classification

Terms relating to chains are classified as follows.

- a) Types of chains
 - 1) Types according to construction
 - 2) Types according to application
- b) Component parts of chains

- 1) Links
- 2) Plates
- 3) Pins
- 4) Bushes
- 5) Rollers
- 6) Attachments
- c) Basic dimensions of chains
 - 1) Chains
 - 2) Attachments
- d) Performance and characteristics of chains
- e) Sprockets
- f) Accessories for chains
- g) Selection of chains
- h) Attachment and maintenance of chains

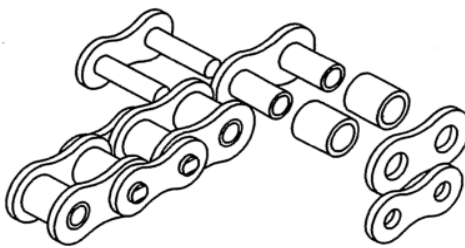
4 Terms and definitions

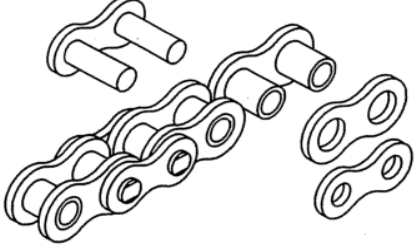
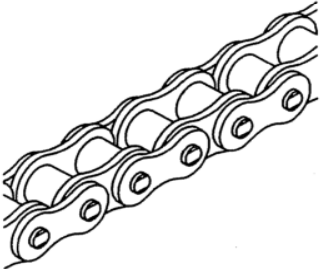
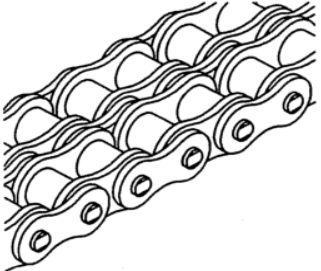
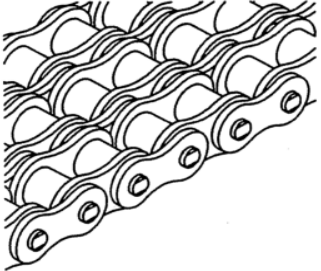
For the purpose of this Standard, the following terms and definitions apply.

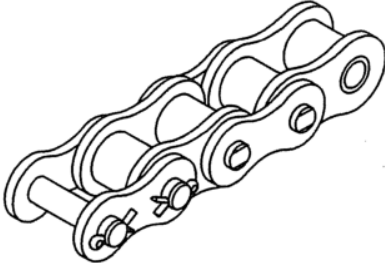
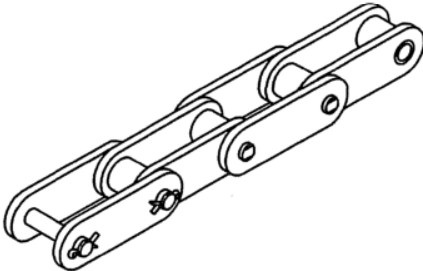
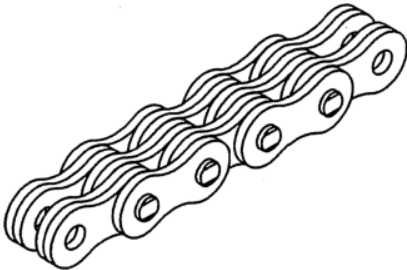
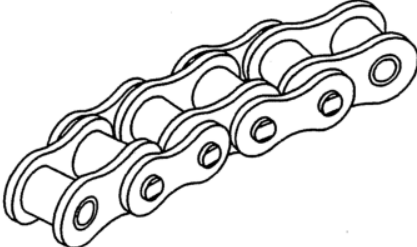
In the list, equivalent terms in English are given as reference.

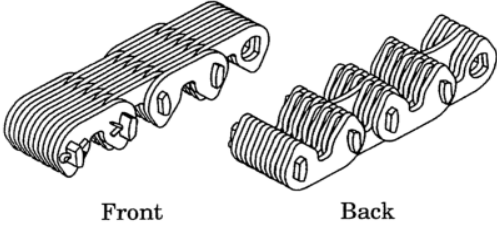
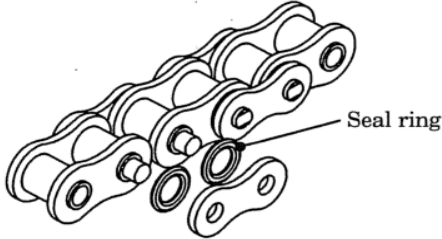
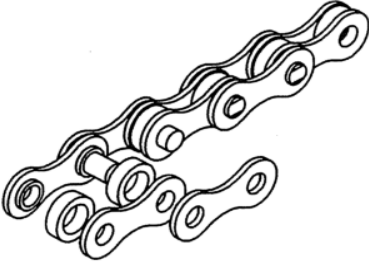
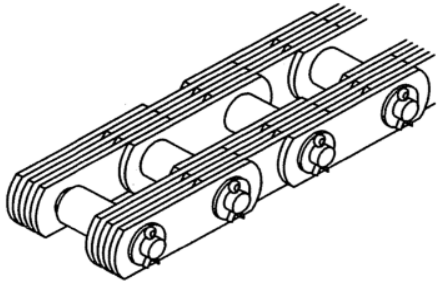
4.1 Types of chains

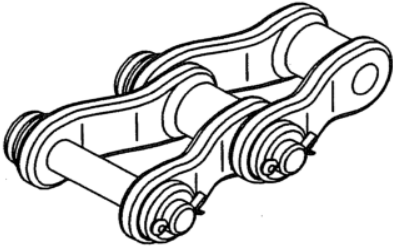
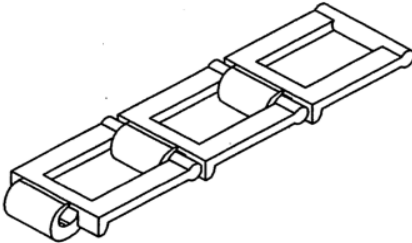
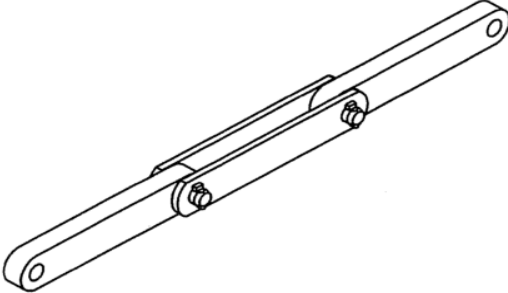
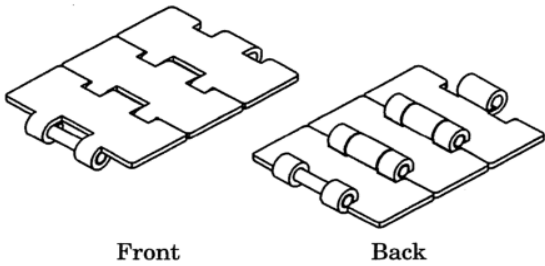
4.1.1 Types according to construction

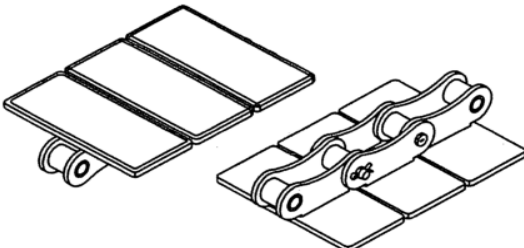
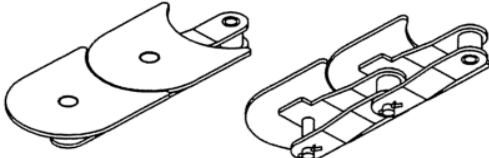
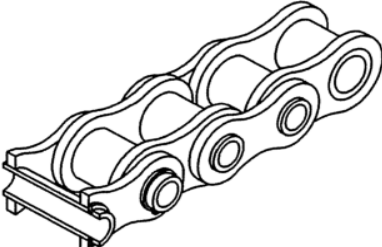
No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
<u>4.1.1.1</u>	<u>チェーン</u>	generic term for chains having outer links and inner links alternately connected, the connecting part of which can be bent		<u>chain</u>
<u>4.1.1.2</u>	<u>ローラチェーン</u>	chain with a roller 	JIS B 1801 (ISO 606)	<u>roller chain</u>

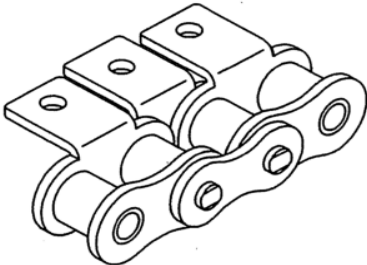
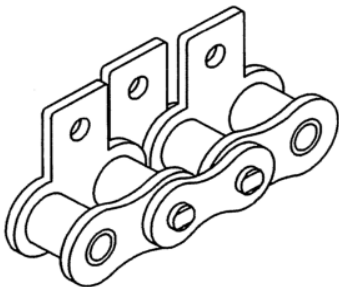
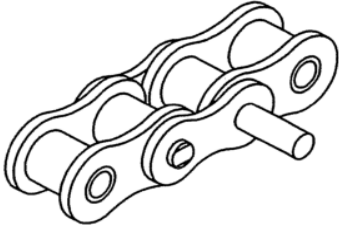
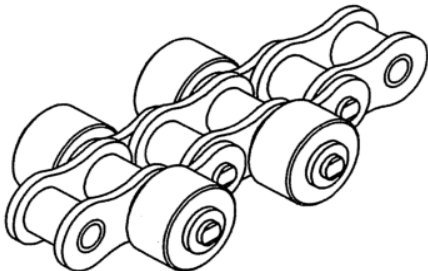
No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
4.1.1.3	ブシュチェーン	chain without a roller 	JIS B 1801 (ISO 606)	bush chain
4.1.1.4	1列ローラチェーン	one-row roller chain 	JIS B 1801 (ISO 606)	simplex roller chain
4.1.1.5	2列ローラチェーン	chain composed of two simplex roller chains that are integrated into one by combining in the longitudinal direction of the pins 	JIS B 1801 (ISO 606)	duplex roller chain
4.1.1.6	3列ローラチェーン	chain composed of three simplex roller chains that are integrated into one by combining in the longitudinal direction of the pins 	JIS B 1801 (ISO 606)	triplex roller chain
4.1.1.7	多列ローラチェーン	generic term for roller chains with two or more rows	JIS B 1801 (ISO 606)	multiplex roller chain

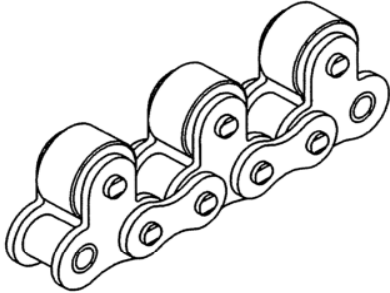
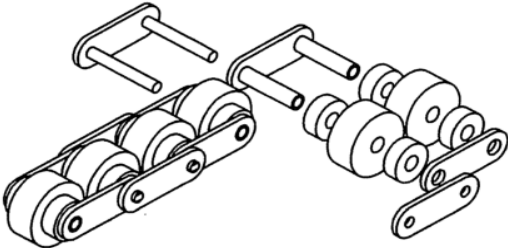
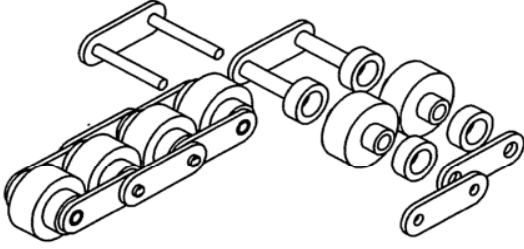
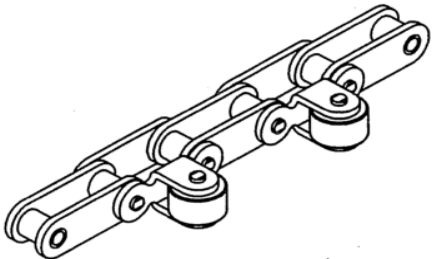
No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
4.1.1.8	ローラチェーン	roller chain specified in JIS B 1801 	ISO 606	short pitch roller chain
4.1.1.9	ダブルピッチ ローラチェーン	roller chain of which the pitch is doubled 	JIS B 1803 (ISO 1275)	double pitch roller chain, double pitch conveyor chain
4.1.1.10	リーフチェーン	chain composed of multiple plates bound together solely by pins 	JIS B 1804 (ISO 4347)	leaf chain
4.1.1.11	サイドボウチェーン	chain that can be bent into an arc-like shape in the longitudinal direction of the pins 	—	side bow roller chain

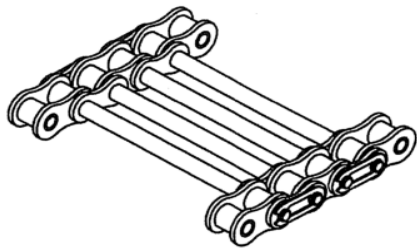
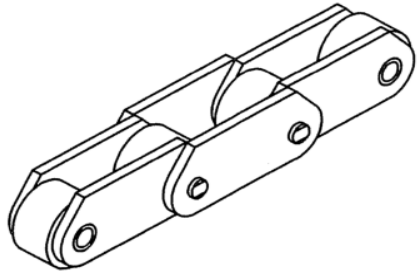
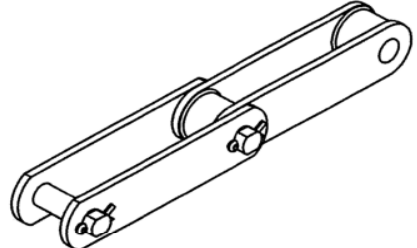
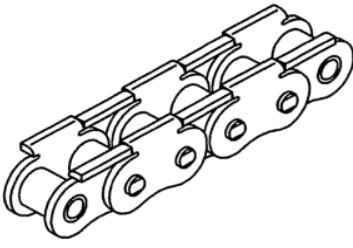
No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
4.1.1.12	サイレントチェーン	chain constituted of multiple toothed plates engaging with the sprocket, bound together with guide plates for prevention of coming off, and pins  Front Back	—	silent chain inverted tooth chain
4.1.1.13	シールチェーン	chain in which seal rings are inserted between outer plates and inner plates and lubricant is sealed between pins and bushes  Seal ring	—	sealed chain
4.1.1.14	ブッシュレスローラチェーン	roller chain without bushes 	JIS D 9417 (ISO 9633)	bushless roller chain
4.1.1.15	ガルチェーン	chain constituted of plates and pins, in which the pins mesh with the sprocket 	—	galle chain

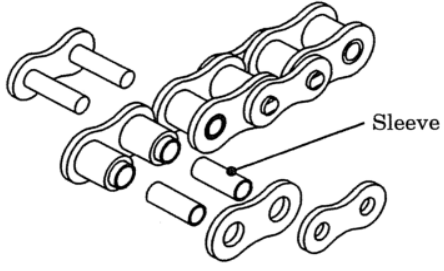
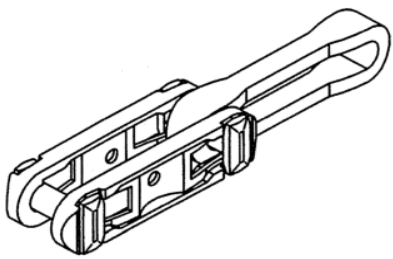
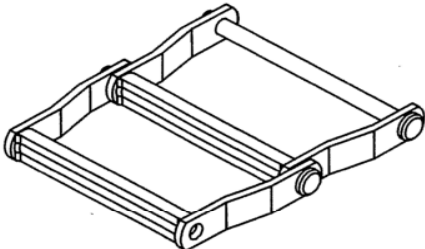
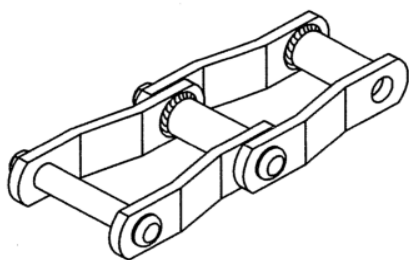
No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
4.1.1.16	ピントルチェーン	chain constituted of links (plates and bushes are integrated) and pins 	—	pintle chain
4.1.1.17	デタッチャブルチェーン	chain in which links and pins are structurally integrated, allowing easy separation and assembly 	—	detachable link chain
4.1.1.18	ブロックチェーン	chain in which the inner link is constituted of one block or two or more blocks 	—	block chain
4.1.1.19	フラットトップチェーン	chain composed of flat plate parts, which are connected with hinges  Front Back	ISO 4348	flat top chain

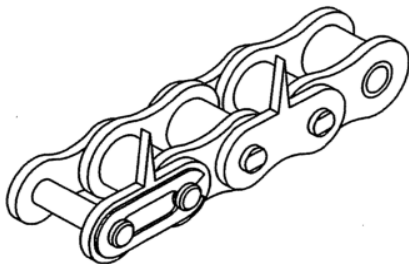
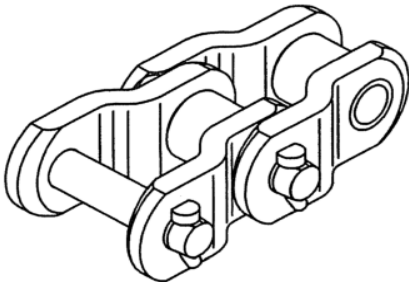
No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
4.1.1.20	トッププレートチェーン	chain with flat plates mounted on its top  Front Back	—	top plate chain
4.1.1.21	クレセントチェーン	chain in which crescentic flat plates are attached in parallel with plates and can be moved in a curved line on a horizontal plane  Front Back	—	crescent chain
4.1.1.22	ホローピンチェーン	chain having hollow pins, the hollows of which can be utilized for attaching various accessories 	ISO 1977	hollow pin roller chain, hollow pin conveyor chain
4.1.1.23	アタッチメント付きチェーン	generic term for chains that are used for conveyance by attaching the attachments	JIS B 1803 (ISO 1275)	chain with attachment

No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
4.1.1.24	ベントアタッチメント付きチェーン	chain provided with attachments that are plates extended to have tongue-like protrusions, which are bent 	JIS B 1803 (ISO 1275)	bent attachment chain
4.1.1.25	ストレートアタッチメント付きチェーン	chain provided with attachments that are plates extended to have tongue-like protrusions, which are unbent 	JIS B 1803 (ISO 1275)	straight attachment chain
4.1.1.26	延長ピン付きチェーン	chain with pins extended beyond the plate surface 	JIS B 1803 (ISO 1275)	extended pin chain
4.1.1.27	サイドローラ付きチェーン	chain having rollers attached to the pins extended outside the plates 	—	conveyor chain with outboard rollers

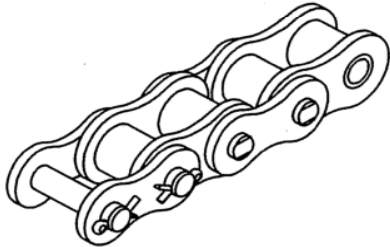
No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
<u>4.1.1.28</u>	<u>トップローラ 付きチェー ン</u>	chain having rollers incorporated into attach- ments that are tongue-like protrusions obtained by extending the plates in the central part be- tween the pitches 	—	<u>top roller chain</u>
<u>4.1.1.29</u>	<u>センターロー ラチェーン</u>	chain with large rollers arranged between two smaller rollers that mesh with the sprocket 	—	<u>center roller chain</u>
<u>4.1.1.30</u>	<u>倍速チェーン</u>	chain with small-diameter rollers and large-diam- eter rollers combined in such a way as to enable conveying speed faster than the travelling speed of the chain 	—	<u>double speed chain</u>
<u>4.1.1.31</u>	<u>ガイドローラ チェーン</u>	chain to which guide rollers are attached via the attachments, so as to prevent snaking of the chain or to reduce the resistance of the side bow part 	—	<u>guide roller chain</u>

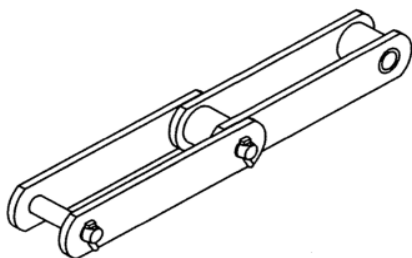
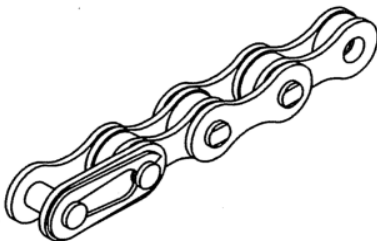
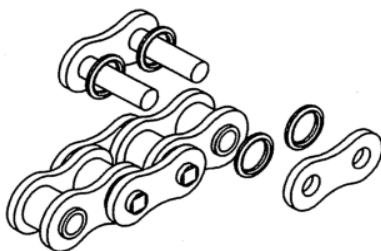
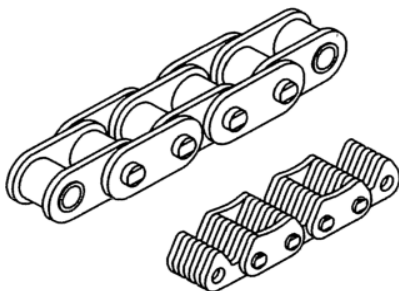
No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
4.1.1.32	クロスバーチェーン	chain obtained by integrating two roller chains by connecting them with long pins 	—	cross bar chain, twin strand conveyor chain
4.1.1.33	ディープリンクチェーン	chain having plates with a greater depth than normal chain plates, thus enabling loading directly on the plates 	ISO 1977	deep link chain, deep link conveyor chain
4.1.1.34	コンビネーションチェーン	chain constituted of components of different materials, with the inner link integrated with cast iron, cast steel, resin, etc. and the steel outer link 	—	combination chain, combination conveyor chain
4.1.1.35	ノーバックベンドチェーン	chain capable of transmitting pushing force through prevention of bending to one direction, which is enabled by interference made by plates or attachments 	—	non back bend chain, pusher chain

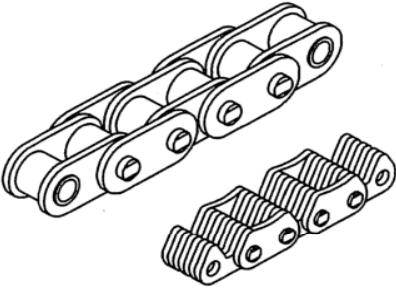
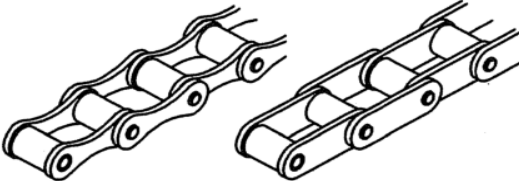
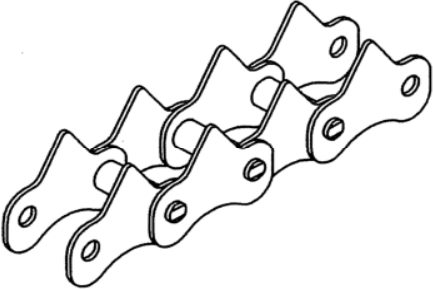
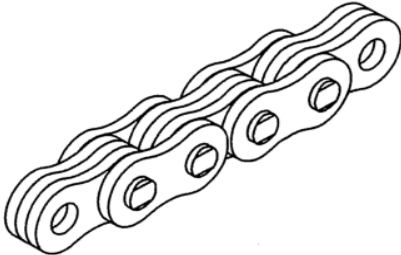
No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
4.1.1.36	スリーブチェーン	chain in which self-lubricating sleeves are inserted between pins and bushes, so as to prevent wear between pins and bushes 	—	sleeve chain
4.1.1.37	鍛造リベットレスチェーン	chain obtained by connecting the forged center link and side bar with pins with heads at both ends 	ISO 6973	drop forged rivetless chain
4.1.1.38	ドラッグチェーン	chain obtained by connecting, with pins, the links that are integrated by welding the offset plates and the bushes playing the role of a scraper 	ISO 6971	welded type cranked link drag chain, drag chain
4.1.1.39	オフセット形溶接チェーン	chain obtained by connecting, with pins, the links that are integrated by welding the offset plates and the bushes 	—	welded type cranked link chain

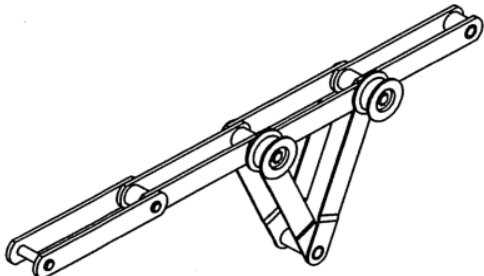
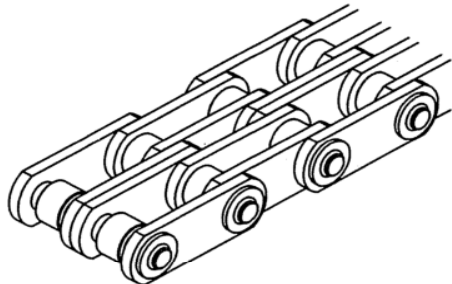
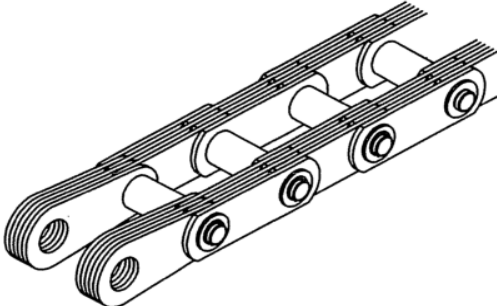
No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
4.1.1.40	スティッカーチェーン	chain having the plates with the sharp-pointed triangular attachment 	—	sticker chain
4.1.1.41	重荷重チェーン	chain constituted of only the offset link for heavy load and of which the number of links can be adjusted every one pitch 	ISO 3512	heavy duty cranked link chain, cranked link chain

4.1.2 Types according to application

No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
4.1.2.1	伝動用ローラチェーン	chain used for the purpose of transmitting the driving force of a drive machine to a driven machine 	JIS B 1801 (ISO 606)	short pitch roller chain

No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
4.1.2.2	コンベヤチェーン	chain used for the purpose of conveying objects 	ISO 1977	conveyor chain, solid pin conveyor chain
4.1.2.3	自転車用チェーン	chain that drives the rear wheel of a bicycle NOTE: As the chain for multi-stage shift transmission, the bushless roller chain is often used. 	JIS D 9417 (ISO 9633)	cycle chain
4.1.2.4	モータサイクル用チェーン	drive chain for the rear-wheel drive of a motorcycle and chain used in an engine 	ISO 10190	motorcycle chain
4.1.2.5	自動車用チェーン	chain mainly used in the engine of a car NOTE: There are a roller chain and a silent chain. 	—	automotive chain

No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
4.1.2.6	タイミングチェーン	chain used in order to open and close an engine induction-exhaust valve NOTE: There are a roller chain and a silent chain. 	—	timing chain
4.1.2.7	農機用S形及びC形チェーン	chain used for the machines that harvest agricultural crops NOTE: For Type S, the plates are gourd-shaped, and for Type C, they are oval.  Type S Type C	ISO 487	type S and C agricultural roller chain
4.1.2.8	農機用フィードチェーン	chain used for combine harvesters, which convey rice straws with their stalks stuck between the triangular attachments 	JIS B 9204	agricultural feed chain
4.1.2.9	フォークリフトトラックチェーン	chain used for raising and lowering the fork of a forklift truck 	JIS B 1804 (ISO 4347)	fork lift truck chain

No.	Term (Japanese character)	Definition	Related standard	English equivalent (reference)
4.1.2.10	ホイストチェーン	chain used for the hanging of a hoist NOTE: Generally a leaf chain is used for this purpose.	JIS B 1804 (ISO 4347)	hoist chain
4.1.2.11	立駐チェーン	chain for moving the pallets, buckets, etc. for loading cars in a multilevel parking garage, in the vertical or horizontal direction NOTE: The drawing shows the chain used at the vertical rotary parking system multilevel parking garage. In multilevel parking garage of other systems, a short pitch roller chain can also be used. 	—	<u>parking chain</u>
4.1.2.12	ドローベンチチェーン	chain for pulling the drawn material of a cold-drawing bench NOTE: There are also a side roller type, a block chain type and a leaf chain type. 	—	draw bench chain
4.1.2.13	水門チェーン	chain for lifting and lowering the gate used for opening and closing of the water gate 	—	<u>water gate chain</u>