



Japan Construction Equipment Manufacturers Association(CEMA)

About CEMA

CEMA seeks a sound development of the Japanese construction equipment industry and aims to contribute to the advancement of the country's economy and the people's everyday lives.

Main Committees

Management Advancement Committee

For sophisticated business management

Engineering and Manufacturing Committee

For handling of issues related to the environment. safety and other technological aspects

Marketing and Customer Support

Committee

For smooth

business operation

For sound development of distribution and service platforms

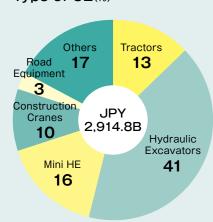
International Steering Committee Committee

For support in global expansion

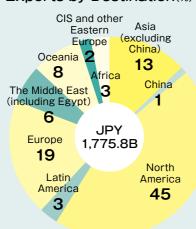
Innovation Committee

advanced industries

2022 Shipment Value by Type of CE(%)



2022 Exports by Destination(%)



Shipment value of CE vehicles excluding service parts [Source:Statistics privately compiled by CEMA]

For further information



Bridge construction

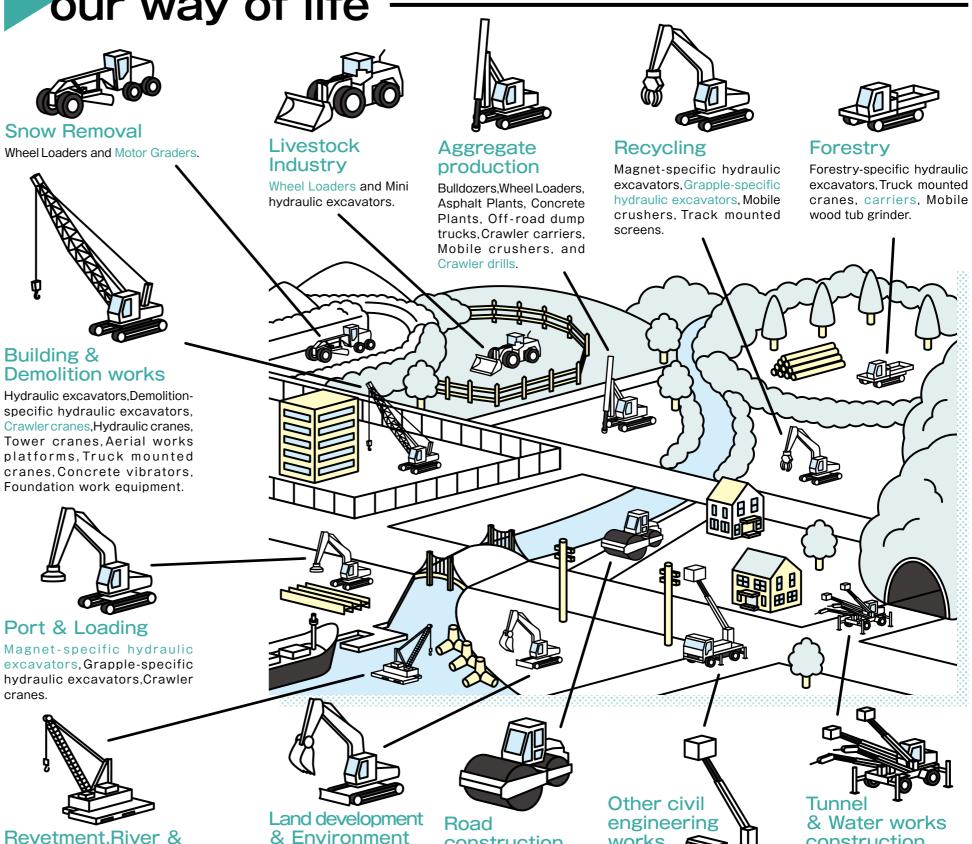
Crawler cranes, Floating cranes,

Foundation work equipment,

Hydraulic excavators.

and Crawler carriers.

How construction equipment supports our way of life



construction

Compaction equipmen.

Asphalt pavers, Motor

graders. Road surface

planers, Scrapers, Road

stabilizers.Compressors.

improvement

ICT hydraulic excavators,

Hydraulic excavators, and

Compaction equipment.

ICT bulldozers.

works

Hydraulic

excavators.

Hydraulic cranes, Aerial works

platforms, Truck mounted

cranes.Concrete pump trucks.

02 Japan Construction Equipment Manufacturers Association

construction

Microtunneling machines, Drill

Jumbo (drilling equipment for

tunneling), and Telescopic

Shield machines.

crawler cranes.

History of Construction The pioneer of Japan-made rough terrain cranes equipment



Kobe Steel (currently Kobelco Construction Machinery) 50K electric excavator



Komatsu G40 bulldozer (1943)

Manufactured following the Navy's request in Dec 1942 for construction of airfields.

1950 ~ 1959

machine-aided

construction

Ishikawajima Calling

(currently Kato Works)

330 sprawler crawler

This mechanical crane was

Ishikawajima-Harima Heavy

Kobe Steel (currently

Kobelco Construction

Both 10KT(6t)and 20KT

delivered to the National

(10t) were completed and

crane(1953)

Police Reserve

Machinery) 10KT truck

Industries and Calling (US)

manufactured by Ishikawajima

Calling, a company set up based

on a technological tie-up between

crane(1952)

Start of full-scale

Dawn of the era of construction machinery manufacturing in Japan

In and around the time of the WWII

~ 1945

1945 ~ 1949

Restart of the construction The first domestically produced mechanical machinery industry



Komatsu D50A bulldozer(1947)

This bulldozer. 8t in weight and with a capacity of 55 horsenower was developed based on a prototype made during the war.

Having experienced many breakdowns in initial machines. numerous modifications were subsequently implemented



Hitachi (currently Hitachi **Construction Machinery**) U05 shovel (1949)



Aichi Sharyo(currently Aichi Corporation) AC-D4Edigger derrick / pole setter (1966)

This vehicle consisting of a derrick fitted to a pole setter was a modified version of AC-D4 pole setter.

1966 ~ 1974

1960 ~ 1965

Driving force during Japan's economic boom



Industries (currently Caterpillar) hydraulic excavator (Yumbo) Y-35(1961) This excavator was

domestically manufactured by Shin Mitsubishi Heavy Industries based on a technological tie-up with French company Sicam. Many Japanese people still call excavators "Yumbo"



Hitachi Construction Machinery UH03 hydraulic excavator(1965)

The excavator, 8.3t in weight and with a bucket capacity of 0.3m gained excellent user reputations and became the basis of HCM LIH hydraulic excavators, now operating across the world.

1975 ~ 1988

Tadano Iron Works

(currently Tadano)

to drive on the road and perform crane operation from

the cab. The 4WD compact

and is workable at narrow

sites with uneven terrain.

sophisticated

functionality

Advancing

more

vehicle managed rough roads

towards larger.

crane(1970)

TR-150 rough terrain

This crane allowed the operator

Shift from high growth to stable growth



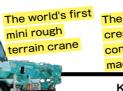
Furukawa Kogyo (currently Furukawa Rock Drill) HCR200crawler drill(1977)

The first domestically manufactured hydraulically operated crawler drill. From around 1983, an era of allhydraulic drills began on a full



Okada Aiyon PCP-S001 self-propelled crusher (1987)

Japan's first self-propelled crusher for use at demolition



Kobe Steel (currently **Kobelco Construction** Machinery) RK70M/RK70 mini rough terrain crane (1989)

Responding to diversifying needs with larger, smaller or Environmentally friendly products

1989 ~ 2008

The pioneer of environ creation-oriented construction machinery

Komatsu BR60 selfpropelled crusher (1992)

This crusher was developed for recycling debris from demolition sites, such as lumps of concrete, by crushing them on site and reusing them as materials for roadbeds and building foundations.



Tadano Tadano AR-5500 all terrain crane (1998)

This was the largest all terrain crane ever produced in Japan with a lifting capacity of 550t.

Future outlook as of 2020

A "new generation" of construction machinery is incoming.



Hitachi Construction Machinery ZW series wheel loaders (2006)

Developed jointly with TCM, the next-generation wheel loaders have significantly improved traveling performance, excel in operability and workability, and are compatible with the so-called "off-road" act (Japan's emission regulations for non-road special motor vehicles)



Shin Caterpillar Mitsubishi (currently Caterpillar) CAT793C dump truck (2002)

218t in load capacity, 147.4t in weight, and 1615kW in rated output -the super-large (largest in Japan) dump tracks are in operation at limestone



Sumitomo Construction Machinery SH250-6MH material hander (2014)



Sumitomo Construction Machinery SH200-5 LEGEST hydraulic excavator(2008)

Its high economic efficiency including fuel efficiency was



Komatsu PC30E-5(2020) This battery-powered

mini excavator showed an excavation performance as high as engine-driven models while realizing zero-emissions and substantially reducing noise

History of CEMA

Year		Topics
1990		Japan Construction Equipment Manufacturers Association (CEMA) was established as a private organization, being split from The Japan Society of Industrial Machinery Manufacturers, an incorporated association. The establishment of CEMA, an incorporated association, was approved by the Ministry of International Trade and Industry (the current Ministry of Economy, Trade and Industry).
1991	MAR	CEMA published the "Manual for Antimonopoly Laws".
1992	MAR	CEMA published the "Introduction of CEMA Activities and Anti-monopoly Laws" . CEMA released the first statistics on shipment value. CEMA released its first demand forecast.
1995	JAN	The Great Hanshin Earthquake occurred. CEMA
		set up a contact point for recovery support. CEMA published the "Safety Manual". CEMA started offering a product liability (PL)insurance plan.
1997		CEMA launched a homepage "CEMA WORLD". CEMA published the "Guidelines for Unified Safety Standards and Warning Signs for Construction Equipment".
1998	NOV	CEMA launched the "Voluntary Action Plan for Environmental Conservation".
1999	JUN	CEMA established a voluntary regular inspection program for mobile cranes.
2000	MAY	CEMA celebrated its 10th anniversary.
2002	APR	CEMA renewed its website to include members-only pages.
	NOV	CEMA created the "Maintenance Certification Scheme for Concrete Pumping Trucks".
2003		CEMA developed the "Guidelines for Correction of Quotations under Misleading Representations". CEMA developed the "Guidelines regarding Anti-theft Devices for Construction Equipment". CEMA developed the "Guidelines for Fair Representation and Relevant Matters".
2006	MAR	CEMA issued the "Research Study Paper on the Outlook of Japan's Construction Equipment Industry (Vision 2005)".
2008	MAR	CEMA amended the "Voluntary Action Plan for Environmental Conservation".
2010	MAY	CEMA published "CEMA's 20-year History" to commemorate the 20th anniversary.
2011		The Great East Japan Earthquake occurred. CEMA set up a contact point for consultation. The Cabinet Office granted permission to change the CEMA's corporate status to a general incorporated association.
2013	DEC	CEMA compiled the "Q&A Manual on Anti-monopoly Laws for the Construction Equipment Industry" .
2014	APR	CEMA set up the Research Subcommittee.
2017	MAR	CEMA developed the "Action Plan to Promote Fair Transactions with Partner Companies" .
2019	DEC	CEMA made public a movie clip for recruiting service personnel.
2020	MAY	CEMA published "CEMA's 30-year History" to commemorate the 30th anniversary.
2021	JUL	CEMA submitted a compiled written request for the achievement of carbon neutrality (CN) to the Japanese government.
0000		05144

CN stands for carbon neutrality

(the 2022 version) for the achievement of

carbon neutrality to the Japanese government

2022 JUL CEMA submitted a compiled written request

Construction equipment helping society

Turning fields of mines into a place to live



All stranded workers rescued Koken Boring Machine

A boring machine's remarkable work at a cave-in site

"Building Safe Villages" **Project**

Since 2008, Komatsu has partnered with Japan Mine Action Service - JMAS(an Approved Corporation Engaging in Specified Non-profit Activities) to conduct demining activities in areas suffering from anti-personnel landmines and projects for community restoration in Cambodia, Angola (completed) and Laos. On the safe, mine-free land, the Company engaged in many activities using its construction machinery, including developing farmland and rehabilitating/revitalizing communities.





A hydraulic excavator operating for infrastructure development in Cambodia

In response to a request for cooperation from the Chinese rescue team, Koken dispatched its employees and employees of its Chinese agent to the site. Koken's explosion-proof arrow drill RPD-180CBR managed



FS-120CZ (equipped with

to bore a 21-meter hole through collapsed soil mass and confirm the survival of nine stranded workers. Then a vital lifeline for rescue activity, specifically a path to bring in water, food and communication devices, was successfully set up, enabling communication with the stranded workers.



Kato Works products in action in the extremely cold Antarctic Kato Works

Supporting Syowa Station

Since 2015, Kato Works has delivered a 35-ton rough terrain crane MR-350Ri, an 8-ton class hydraulic excavator HD308US-6, and a compact track loader CL45 to Syowa Station in Antarctica, where the lowest temperature is-45 degrees Celsius.Kato Works' construction machinery has been enormously helpful in various fields, such as new construction and reconstruction of the observation facility in Antarctica "Showa Station", ground preparation for that purpose, snow removal work, and transportation of goods.

The equipment is transported

by the Antarctic observation ship "Shirase".

Crane transportation



Promoting Safe Construction Contributing

with

technology

Furukawa Rock Drill

Drill Jumbo supports infrastructure behind the scenes

Since 2016, Furukawa Rock Drill has been introducing "Drill NAVI", a quantitative bedrock evaluation system that uses three-dimensional drilling energy, to be installed on its tunnel excavator Drill Jumbo. Drill NAVI is particularly useful for Drill Jumbo in digging holes for explosive charges into bedrock at mountain tunnel construction sites. With Drill NAVI, which is also capable of selecting the optimum support pattern and auxiliary construction method, Furukawa Rock Drill will continue to build up its track record as an indispensable presence in tunnel construction -work that supports behind the scenes development of roads, railways and all other public infrastructure.



Drill Jumbo in operation for

Drill NAVI * *Registered (New Technology Information System)



of the Ministry of Land, Infrastructure, Transport and Tourism under the registration number KK-160012-A

Operating in the wake of the Great East Japan Earthquake. **Kumamoto Earthquake** and Hokkaido Eastern Iburi Earthquake Morooka

After the Great East Japan Earthquake (2011), Morooka's material transport vehicles were used by the Ground Self-Defense Force to search for missing persons and transport rubble. Also, the Company's wood crushers were used in the tsunami-stricken areas to dispose of wooden debris including devastated houses and driftwood.



A material carrier that carries waste materials over water (JGSDF specifications)

A self-propelled

wood crusher

debris and

working in

tandem with

a hydraulic excavator in

Kesennuma

crushing wood



Power-generating floodlights that are helpful in disaster, recovery, and reconstruction sites

Yanmar Construction Equipment

Power-generating floodlights, one of the products Yanmar Construction Equipment offers, can deliver light over a wide area for a long time, and have been useful at evacuation centers and recovery sites to ensure personal safety and as a means of logistical support.





A power-generating floodlight

Contribution to forest development

Kobelco Construction Machinery

Carbon offset in forestry machinery

Kobelco Construction Machinery launched the Kobelco "Carbon Offset" program on October 1, 2013, a unique program that utilizes the carbon offset system and enables the Company to contribute even more to the prevention of global warming and improvement of forest environments. In 2015, the Company was awarded the Minister of Agriculture. Forestry and Fisheries Award at the "5th Carbon

Offset Awards". in recognition of its steady efforts.



Improving the environment by **Environmental**

measures

adopting its unique technology Nippon Pneumatic Kogyo (NPK)

Adoption of its booster increases speed and power, while reducing load on hydraulic excavators

NPK's booster is a mechanism that increases the internal pressure of a cylinder to the level and at the timing needed. The booster has been made compact enough to be mounted on a demolition machine, which is a one-of-a-kind proprietary technology of NPK. This booster helps to increase speed and power, while reducing load on the hydraulic excavator.

This booster's improvement effects on the

environment, which include "reduction of construction period" and "reduction of fuel consumption = reduction of CO2 emissions", have been recognized by public institutions which have been recognized by public institutions.



Secondary crusher (G200) equipped with booster





(SV-110XR) equipped with booster

06 Japan Construction Equipment Manufacturers Association

Initiative for environmental harmony

Initiatives for realizing a carbon-neutral society

CO2 reduction target from construction equipment

million tons of CO2 by 2030

The CE industry has strived to reduce CO2 emissions through higher energy efficiency of CE as well as the development and practical application of energysaving CE including hybrid types. Going forward, the industry aims to work with the government and construction companies on even more efficient use of CE and other relevant initiatives.

Achievement of energysaving in construction equipment manufacturing

has already been achieved in comparison with 2013 % reduction

The CE industry has also devoted ceaseless effort in energy-saving, not only in the CE itself, but also in replacing production facilities and structures housing CE, etc. The industry will continue its reduction efforts towards the target year of 2030.

Initiatives for recycling of CE

Recyclability rate

CE is manufactured with fewer parts made from resin or other unrecyclable materials compared to automobiles and household electric appliances. Due to this, the recyclability rate of CE (the rate of technically recyclable portions against the weight) is already high.

The environment creation-oriented construction machinery

Development of self-propelled crushers

Self-propelled crushers have been developed and more widely used in recent years, for recycling waste materials generated from construction work (such as concrete and asphalt lumps) by crushing them on site and reusing them as materials for roadbeds and aggregates.



Komatsu BR380JG-3 Galapagos

Helping people to build foundations of their daily lives

Nippon Sharyo, Ltd. (Joined in 2016)



manufactures CE, and I oversee painting process control, mainly for pre-painting of CE parts and final coating of assembled CE bodies, as well as providing support to workers. I once found out, at a highway groundwork site near my hometown, that the construction work was managed by Nippon Sharyo and machines I was involved with were being used. I was impressed to see with my own eyes that our work is indeed helping Japanese society as the company's corporate philosophy, "contributing widely to the development and improvement of social infrastructure", declares.

Promotions to Future Generations

Participation in the Children, Dreams, Future Festival Aichi Corporation

Organizer: Sainoko Network, a specified non-profit corporation

Since 2003, Aichi Corporation has been holding test drive events with its aerial work platforms for local children in the Festival.

For children, the test drive experience of working vehicles, which they have few opportunities to come into contact with in their daily lives, contributes to increasing their interest and awareness of working in the future.



Lego® Block Classes

Sumitomo Construction Machinery (SCM)

SCM regularly holds Lego® Block Classes for the purpose of "nurturing young people". Inviting Jumpei Mitsui, one of only

23 LEGO® Certified Professional builders in the world, as a lecturer. SCM provides children with the opportunity to learn the joy of "manufacturing" and develop their creativity.



Collaboration with exhibitions at the National Museum of Emerging Science and Innovation

Sumitomo Heavy Industries Construction Cranes(HSC Cranes)

In the 2019 special exhibition "Under Construction - Is It Safe to Enter!? Heavy Machinery in Use!" HSC Cranes exhibited 10 items, including the operator's cabin, winch.

hammerhead, and hook of its 350-ton lifting crawler crane SCX3500-3. About 140,000 people visited during the 90 days of the exhibition, enjoying the view of construction sites that they are usually unable to see up close.



Activities to support and increase "Rikejo", women in the STEM fields

(Science Technology Engineering Mathematics) Caterpillar

Caterpillar established the "Caterpillar STEM Award" in 2018 to nurture and support local female engineers who will revitalize the world. In addition to the General Category, which mainly accepts applications from

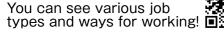
young researchers who are active on the front lines of companies and universities, the Student Category was newly established in 2019 to nurture future generations. Caterpillar has also hosted a programming experience program since 2020.



Voices of people

who work towards the future

Scan the code for further info! ▶





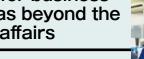
Seeking to design even quieter hydraulic excavators





am assigned to design enclosure(exterior)parts for hydraulic excavators, and am mainly working on design optimization of sound-absorbing materials for even quieter HE while pursuing cost reduction ideas day by day. The difficult part of design work is that there are no clear answers. Having no correct answers available, you still have to find an optimal solution and develop a design. This is the most challenging but stimulating element of my job.

Giving a push for business growth by ideas beyond the realm of legal affairs



Ms. M. S.

Hitachi Construction Machinery Co., Ltd. (Joined in 2006)

lam involved mainly in preparation/review of contracts with domestic and overseas clients. consultation on problematic issues, research on laws and regulations, and lawsuit-related work. Every day feels exciting because cases to be handled come from various countries, parties and circumstances and stages of the business, spanning from R&D, production and procurement to sales, transport and aftermarket services. I try to understand their standpoints without being too "defensive", and seek ideas and proposals that help the company and businesses to reduce risk and achieve growth.

Directors/Officers

Message from Chairman

The past few years have elapsed amid chaos with an unprecedented impact of a virus, in addition to rapid changes of the times. Still, CEMA, with its members, strives to further advance the construction equipment industry and to realize a sustainable society. CEMA is resolved to add value to its activities through effective administration in order to support our causes.

Chairman

Hiroto Honda Representative Executive Officer of Caterpillar Japan LLC



Excutive Managing Director

Vice Chairman

Akira Yamamoto CONSTRUCTION MACHINERY CO., LTD. President and CEO

Managing Director

Fumio Sato Japan Construction Equipment Manufacturers

Toshinaga Hirai Japan Construction Equipmen¹ Manufacturers

Masafumi Senzaki Hitachi Construction Machinery Co., Ltd. President and Executive Officer, COO



Hiroyuki Ogawa Komatsu Ltd. President and CEO



Yasunobu Kazumi SUMITOMO CONSTRUCTION MACHINERY CO..LTD.



Ichiro Sakai SAKAI HEAVY INDUSTRIES, LTD. President



Satoru Koyama Japan Construction Equipment Manufacturers Association

Director

Toshiya Yamagishi AICHI CORPORATION President Teppei Havashi EXEN Corporation President C.E.O. Yuji Okada OKADA AIYON CORPORATION President Kimiyasu Kato KATO WORKS CO.,LTD. President and Representative Director

Yuji Kitagawa Kitagawa Corporation Director Katsuhiko Yukawa Kubota Corporation Senior Managing Executive Officer GM of Construction Machinery Division Ryujiro Kiyama KOKEN BORING MACHINE CO.,LTD. President CEO Shigeru Haraguchi SANWA KIZAI CO.,LTD. President

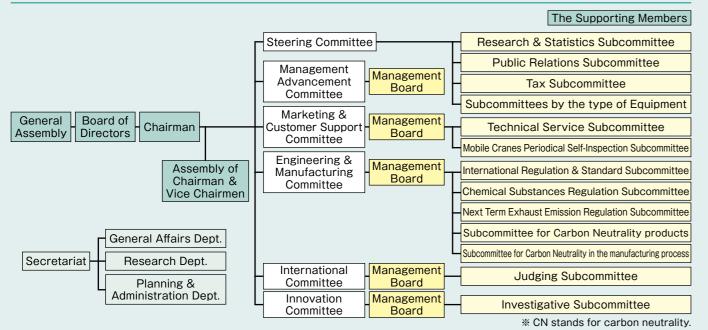
Toshiaki Ujiie Tadano Ltd. President and CEO Masaru Tsuii Nikko Co., Ltd. Representative Director and President Michikazu Fukaya NIPPON SHARYO, LTD. Director Masaki Yamaguchi Furukawa Rock Drill Co., Ltd. President Yoshimasa Horiuchi Hokuetsu Industries Co., Ltd. President.CEO

Yukio Suwabe MARUZEN KOGYO CO.,LTD. President Hironari Kyoya Mikasa Sangyo Co., Ltd. President Giuliano Parodi YANMAR CONSTRUCTION EQUIPMENT CO.,LTD. President

Auditor

Kenji Yamakawa FURUKAWA UNIC CORPORATION President Hidemitsu Moriki MARUMA TECHNICA CO., LTD. President Yuko Shigyo Japan Electronics and Information Technology Industries Association Executive Vice President Director

Organization



List of Members

Regular Members

- A AICHI CORPORATION AVOLON SYSTEMS Co., Ltd.
- C CANYCOM Caterpillar CHOWA KOGYO Co., Ltd.
- D Daiichi Techno Co.,Ltd. DAIWA-KIKO CO.,Ltd. Denyo Co.,Ltd.
- E Epiroc Japan KK **EXEN Corporation**
- F Furukawa Rock Drill Co.,Ltd. FURUKAWA UNIC CORPORATION
- G GIKEN LTD.
- H HANTA Machinery Co., Ltd. Hitachi Construction Machinery Camino Co., Ltd. Hitachi Construction Machinery Co., Ltd. Hokuetsu Industries Co., Ltd.

- I IHI Transport Machinery Co.,Ltd. Iwata Corporation
- K KANTO TEKKO Co., Ltd. KATO WORKS CO.,LTD. Kitagawa Corporation KOBELCO CONSTRUCTION MACHINERY CO., LTD. KOKEN BORING MACHINE CO.,LTD. Komatsu Ltd. KONAN ELECTRIC CO.,LTD. **Kubota Corporation** KYC Machine Industry Co., Ltd. KYOKUTO KAIHATSU KOGYO CO.,LTD.
- M MAEDA SEISAKUSHO CO., LTD. MARUJUN CO., LTD. MARUMA TECHNICA CO., LTD. MARUZEN KOGYO CO.,LTD. MCD PRODUCT CORPORATION MEIWA SEISAKUSHO, LTD. Mikasa Sangyo Co., Ltd. Mitsubishi Logisnext Co., Ltd. Morooka Co..Ltd
- Nagano Industry Co., Ltd. NAKAYAMA IRON WORKS, LTD.

Nikko Co., Ltd. NIPPON SHARYO, LTD.

62 companies (in alphabetical order) as of December 2023

- O OKADA AIYON CORPORATION
- P Puzmeister Japan Co.,Ltd.
- S SAKAI HEAVY INDUSTRIES, LTD. Sakato Manufacturing SANWA KIKOH Co., Ltd. SANWA KIZAI CO.,LTD. ShinMaywa Industries, Ltd. SUMITOMO CONSTRUCTION MACHINERY CO.,LTD. Sumitomo Heavy Industries Construction Cranes Co., Ltd. SYMTEC Co.,Ltd.
- T Tadano Ltd. TAKEUCHI MFG. CO., LTD. Taguchi Industrial Co., Ltd. Tanaka Iron Works Co., Ltd. **TEISAKU Corporation** TOHO CHIKAKOKI.CO.,LTD. TOKU PNEUMATIC TOOL MFG.CO..LTD
- YANMAR CONSTRUCTION EQUIPMENT CO.,LTD. YUTANI INDUSTRIAL..CO LTD

Supporting Members

- A AMADA CO.,LTD. Antex CO., LTD. Arai Shoji Co., Ltd.
- B Bansyu Electric Co.Ltd. BetonTech CO..LTD. **Bosch Rexroth Corporation Bridgestone Corporation**
- C Cargotec Japan Ltd.
- E e-OHTAMA, LTD.
- F FUKUYAMA RBBER Ind Co., Ltd.
- H Honeywell Japan Ltd.
- Isuzu Motors Engine Sales Inc. Isuzu Motors Limited ITOCHU Corporation
- J JA MITSUI LEASING, LTD. JAPAN A.M.C. LTD
- K Kawasaki Heavy Industries, Ltd. Kurimoto.Ltd.

- **KYB** Corporation
- L Leading CO.,LTD.
- M Marubeni Corporation Maxis Corporation Mitsubishi Fuso Truck and Bus Corporation Mitsubishi HC Capital Inc. Mizuho Leasing Company, Limited
- N NACHI-FUJIKOSHI CORP. Nabtesco Corporation NAKAGAWA SPECIAL STEEL INC. ND LEASING SYSTEM CO.,LTD. Nissay Leasing Company, Limited **NTN Corporation** NTT TC Leasing Co., Ltd.
- O OKAMURA CORPORATION Ondo Metal Co..Ltd. **ORIX** Corporation
- P P&J Co.Ltd. POCLAIN HYDRAULICS K.K. PRESS KOGYO CO., LTD.

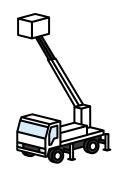
R RYOSAN CO.,LTD

58 companies (in alphabetical order) as of December 2023

- S SANDVIK Co.,Ltd. SHIMABUN ENGINEERING CO., LTD. Shinsei Kobelco Leasing Co., Ltd. Showa Leasing Co.,Ltd. SINTOKOGIO, LTD. SUMITOMO CORPORATION Sumitomo Mitsui Finance and Leasing Company, Limited Sumitomo Rubber Industries, Ltd.
- TAIYO SHOJI Co., Ltd. TOKYO KEIKI INC. TOKYO RADIATOR MFG.Co.,Ltd. TONICHI KOSAN CO.,LTD. TOPY INDUSTRIES LIMITED. Tovo Iron Works Co.,Ltd.
- U UBE MACHINERY CORPORATION, Ltd. UD Trucks Corp.
- W WIRTGEN JAPAN Co.Ltd.
- Y Yamazaki Machinery Co.,Ltd.









Japan Construction Equipment Manufacturers Association(CEMA)

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