**List of Collaborative Robot Partners**

**Gripper**

**SCHUNK Intec, K.K.**

Schunk offers the most extensive lineup of compact grippers and all-purpose grippers in the industry, and has full range of accessories for the perfect match between arms and tools, thereby enabling it to support the most diversified of needs.

** Inquiry point (Japan)**

Victor-Sinhaaga. 3-5-1, 2-2-13, Minato-Sintaaga, Shinka-ku, Tokyo, 140-0004, Japan

Tel: +81-3-4511-4327/Fax: +81-3-4511-4327

E-mail: info@schunke-intec.jp

** Inquiry point (Europe)**

SHK GmbH & Co. KG
Bahnstrasse 104-134, D-74438 Laufende, Neckar, Germany

Tel: +49-7133-102-0

E-mail: info@schunk.com

** Inquiry point (China)**

SHK Vicr Co., Ltd.
7F Building 1, No. 420 Chuangang Road, Waving District, Shanghai 201116

Tel: +86-21-54420007

E-mail: info@shunk.com

** Inquiry point (North America)**

SHK Vicr Inc.
21 Killy Hawk Drive Morrisville, NC 27560

Tel: +1-919-572-2705

E-mail: info@schunk.com

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**ZIMMER / Nabeya Bi-tech Kaisha**

As an authorized distributor for Zimmer products in Japan, it offers a vast lineup of grippers/electric grippers with high grip force (maximum 1800N).

** Inquiry point (Japan)**

1-ban, Toshkaido, Saka-ku, Hyogo Prefecture, 651-3055, Japan

Tel: +81-7-5-7523-1102/Fax: +81-7-5-7523-1719

E-mail: info@hikoki.com

** Inquiry point (Europe)**

Zimmer Group
In Sabenkreuf 5, 77446 Rheinau - Germany

Tel: +49 78 44 01 38-0

E-mail: info@zimmer-group.de

** Inquiry point (China)**

ZIMMER GROUP (China) LTD.
Level 2-03, Bldg A, 324, Fu Ye East 3rd Rd.
CH 200313, Puxong, Shanghai

Tel: +86 21-6335106

E-mail: info@com.zimmer-group.com

** Inquiry point (North America)**

ZIMMER GROUP US INC.
1006 5th Street CL SE
US 20032 Hickory, NC

Tel: +1 938 853 9722

E-mail: info@us.zimmer-group.com

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**This two-class parallel electric gripper is manufactured exclusively for collaborative robots, and is compliant with safety standard ISO/TS 15066. Its LED status display enables simple status monitoring in the field. The durable design includes 4-stage grip force adjustment.**

**Model**

Covert EGF-40-N: Assist

**Weight**

850g (including attachments and fingers)

**Stroke**

12mm (Single-class stroke 6mm x 2)

**Grip Force**

35N, 70N, 105N, 140N (adjustable within 4-stages)

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**This two-class parallel electric gripper is exclusively for collaborative robots and compliant with safety standard ISO/TS 15066. Its built-in controller and mechanical cell clock ensure that it will not drop workpieces it is holding, even in the event of a power outage.**

**Model**

IRIC-03-089405

**Weight**

910g (including attachments and fingers)

**Stroke**

20mm (Single-class stroke 10mm x 2)

**Grip Force**

120N, 300N, 1400N, 1900N (adjustable within 4-stages)
**Gimatic**

As a gripper manufacturer, Gimatic offers a broad line-up of air and electric grippers, and can support the design, manufacture, and assembly of end-effectors based on injection molded part extraction.

**Gimatic Japan Ltd.**

USD 10 TOC Bldg., 7-12-11 Nishi-Gotanda, Shinagawa-ku, Tokyo 141-0031, Japan
Tel: +81-3-6202-9125
Fax: +81-3-6202-9126
E-mail: info@gimatic.com

**Gimatic Srl**

Via Bosso Ferrari 2/4, 20350 Rho (MI) Italy
Tel: +39 02 0426392
Fax: +39 02 0426392
E-mail: info@gimatic.com

**Gimatic Automation Engineering (Shanghai) Co., Ltd**

2026 No. 633, Southeast Asia
CHANGHAI, CHINA 201500
Phone: +8602160779366
E-mail: info@gimatic.com

**Gimatic USA** - Ohio
28303 Euclid Ave Wickliffe, OH USA 44092
Phone: +1 216 526 4011
Fax: +1 216 535 4833
E-mail: sales@gimaticusa.com

This parallel open/close plug-and-play gripper has a built-in driver. Maintenance is not required for 10 million cycles. Its original mechanism means that it does not consume power while the jaw is stopped and it maintains its gripped state even in case of a power outage.

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**Schmalz**

Schmalz is a vacuum transport device manufacturer founded in 1910. From highly versatile suction-type robot hands to suction pads, and high-performance vacuum generators, the company provides customers with a wide range of products that meet the needs of each industry, as well as vacuum know-how cultivated on a global scale.

**Schmalz GmbH**

Ludwigstr. 60 16030 Berlin
Tel: +49 30 351009-0
Fax: +49 30 351009-31
E-mail: info@schmalz.de

**Schmalz Ltd.**

No. 1, Chuanping Rd., CN-202201 Pudong Shanghai China
Tel: +86 21 6088 3168
Fax: +86 21 6088 3167
E-mail: info@schmalz.com.cn
HP: http://www.schmalz.cn

**Schmalz Inc.**

5848 Oak Forest Drive, Raleigh, NC 27616 USA
TEL: +1 919 713 6660
Mail: v.schneider@schmalz.us
HP: https://www.schmalz.us/en/

This is the industry’s most compact, lightweight electric vacuum pump. It achieves vacuum transport without using air or a hose. Its smart body also makes it perfect for bin picking.

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**SMC Corporation**

SMC was founded in 1959 as a general manufacturer of pneumatic devices. It currently manufactures and sells automatic control equipment. Support is provided for both domestic sales and overseas sales in all countries and regions.

**SMC Corporation**

1F, Nihonbashi 2-chome, Chuo-ku, Tokyo 103-8550, Japan
Tel: +81-3-3507-2677
Fax: +81-3-3509-5361
E-mail: yokoyama.michio@smc.co.jp

Based on the concept of “plug-and-play that can be used right away,” it is equipped with an SCD300-1 compliant robot brush and can be simply attached without requiring the manufacturing of attachments.

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**Convum**

Device that act as robot hands are available. The fully standard- ized CRK Series includes brush, arm, and suction pad. Its design work is required and delivery can be completed in a short period of time. Please contact us to discuss our suction hands.

**Convum Mytkulu Ltd.**

502, Newmarket Place, Bldg. No. 4-8-17
Kiyosumi, Minatoku, Tokyo, Japan 118-0023
Tel: +81-3-3730-3814
Fax: +81-3-3730-3815
E-mail: robot@thintechs.co.jp

**OnRobot Japan**

This robot can be connected to various types of robots from each company via a shared mount-type quick-changer. Plans are to increase the quantity of products to 40 beginning in 2020.

**OnRobot**

4F, Sankyo Bldg. 1, 1-11 Higashi-Katsushika, Tokyo 170-0045, Japan
Tel: +81-3-5872-7704
E-mail: takahashi.asks@onrobot.com

**THK Intechs**

THK Intechs, through its experience with various types of collaborative robot engineering, has developed several convenient options for utilizing collaborative robots. Selecting these superior options will create unimaginable performance benefits. This will not only increase work efficiency, but also further increase the versatility of your collaborative robots.

**THK Intechs**

Model: NHD-ASSISTA-NAV-SET
Support hand GIMATIC “KIT-ASSISTA-C” proprietary

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**Yasojima Proceedo Co., Ltd.**

Proposes a robot hand that can fully utilize the characteristics of 3D printers.

**Yasojima**

Achieves consistency from design to manufacturing.

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**THK Intechs**

Model: NHD-5AF-ASSISTA-C
Weight: 987g (Hand not included)
Stroke: Compliance stroke 40mm
Portable max: Maximum 35kg (width of hands, fingers, etc.)

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**THK Intechs**

By attaching this to a robot, it is possible to detect touch from the top and bottom clamping directions and mechanically protect robot and hand parts, peripheral devices, and body parts. Consideration is given to safety, with a built-in high-res- olution LM guide and 2DOF safety sensor.
Igus was founded in 1994, and its service network now extends to 72 countries throughout the world, including its head office in Germany. Based on its core material development, robotics, and molding technologies, reliable technologies accumulated through experience, and achieving an impressive track record, the company strives to improve the mechanical performance and productivity of its customers throughout the world, doing so by aiming for plastics with longer service life (100,000 times with lower costs).

Model Name: TRE30-ASSISTA-S
TRE30-ASSISTA-KL

Type using wiring from the upper section of the arm (Short type)

Type using wiring from the base (Long type)

This set protects the external cabling of collaborative robots.
It is also simple to mount the harnessed cables.

Software

Ricoch Industry Company, Ltd.

Utilizing its multi-view camera, this tool can be easily configured whenever necessary. It supports increasing productivity by enabling the simple checking of events such as the cause of equipment stoppage and tact fluctuation.

Safety Fence

Captian Industries, Inc.

Dozing to the simple modular format, assembly of this safety fence is both quick and safe. Using only the dedicated X-KEY, the lightweight, easy-to-handle nature of the panel enables it to be assembled by one person.

Screw

HIOS Inc.

This ultralightweight, compact electric driver can be attached to a robot using only two screws when integrated with HIOS’ PAT screws (TDTPLA screw/INRTORD), thereby fully supporting this deployment of automation.

Hand Cart

NiC, Autotec, Inc.

This device manufacturer uses originally developed industrial aluminum structural materials. By being the first in the world to create a numerical basis for frame rigidity values, aluminum robot frames have been standardized. Based on abundant performance data focusing on robot frames, the company proposes ideal frames to meet customers’ needs.

Type

Model: MR-Assista
Size: W600×D600×H900
Weight: 99kg

Utilizing guidelines travel with a range sensor [laser range], guide laying construction is completely unnecessary on deployment. Additionally, not only the AGV main body, but also the safety sensors for robots, etc. can be customized to match a user’s safety standards.

Tanabe Engineering Corporation

Single-handed support of all processes, from design to manufacturing, for various automated machinery. Capable of proposing peripheral equipment based on AGV customization where necessary.

Type

Model: W55A + D938 x 1100 (including bumper)
Reference values for AGV main body excluding robot

Weight: Approx. 260kg
Reference values for AGV main body excluding robot

Hand Cart

Satori Electric Co., Ltd.

A trading company for control/FA machinery. In addition to robot carts, automation and factory IoT solutions are offered. Please also inquire regarding interest in automating factories.

Model: HC-1-ASSISTA
Size: W800×D780×H910
Weight: 240kg

Sensor

Igus K.K

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