DESTACO
A STABILUS COMPANY

WE ARE AUTOMATING TOMORROW

SPR10

Small Payload Robot/ Cobot Solutions (<10kg)

destaco.com

VISUAL SELECTION GUIDE

MARKETS

AUTOMOTIVE

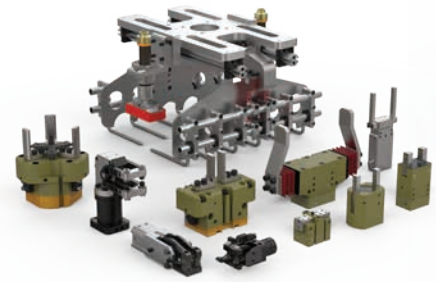
CONSUMER GOODS

INDUSTRIAL

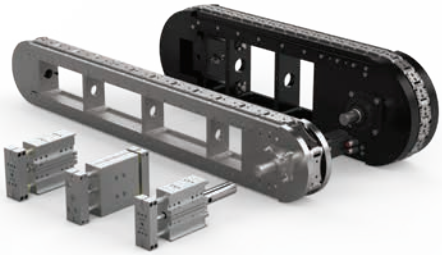
LIFE SCIENCES

ABOUT DESTACO

Built on a Strong Foundation



Gripping Solutions



Linear Positioning Solutions

Rotary Positioning Solutions

DESTACO
A STABILUS COMPANY

Clamping Solutions

CRL Central Research Laboratories

CRL Remote Handling Solutions

Robotic Tooling Solutions

DESTACO, a Stabilus Group company, is a global leader in the design and manufacture of high-performance automation, workholding and remote-handling solutions. The company serves customers in a variety of end-markets, including the automotive, life sciences, consumer packaged goods, aerospace, industrial and nuclear sectors.

Built on a legacy of more than 100 years, DESTACO offers a comprehensive portfolio of products designed to engineer precise movement, placement and control solutions that drive productivity and uptime for manufacturers around the world. The DESTACO family of products consists of industry-leading brands such as DESTACO Manual Clamps, Power Clamps, and End Effectors; CAMCO™ and Ferguson™ Indexers; Robohand™ Grippers; and CRL™ Manipulators and Transfer Ports.

DESTACO is based in Auburn Hills, Michigan, U.S.A. The company has more than 800 employees with 13 locations, in 9 countries, across the Americas, Europe and Asia.

Stabilus is one of the world's leading providers of motion control solutions for customers across a broad spectrum of industries including mobility, industrial machinery, automation, energy, construction, health, recreation, and furniture. Stabilus offers reliable and innovative solutions that enable, enhance and automate precise movement, placement, as well as opening, closing, lifting, lowering and adjusting actions. The Group, which has its headquarters in Koblenz, has a global production and distribution network with more than eight thousand employees worldwide and generated revenues of €1.2 billion in the 2023 fiscal year. Stabilus SE is listed in the Prime Standard segment of the Frankfurt Stock Exchange and included in the MDAX index.

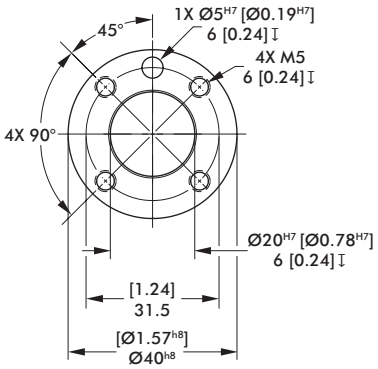
More information is available at destaco.com and group.stabilus.com

SPR10 SOLUTIONS

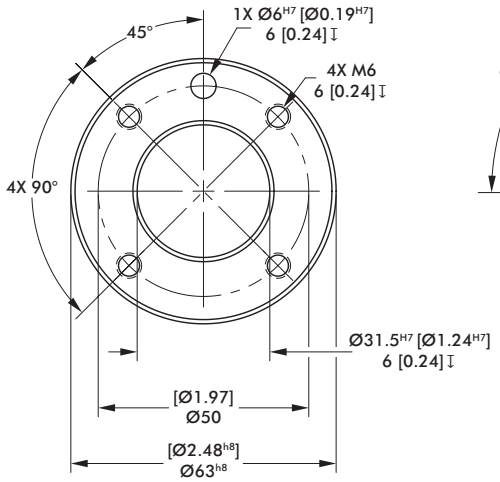
Robot Compatibility Charts

Manufacturer	Models		
GENERIC	Any model with **ISO-9409-1-31.5-4-M5**	Any model with **ISO-9409-1-50-4-M6**	Any model with **ISO-9409-1-80-6-M8**
ABB	CRB 1100	CRB 15000	
AUBO		I3, I5, I7, I10	
DOBOT		CR - 5	CR20A
DOOSAN ROBOTICS		M0609, M1509, M1013, M0617	
ESI		C-7, C-15	
F&P PERSONAL ROBOTICS		P-ROB 2R-24V, 48V	
FRANKA EMIKA		PANDA	
HAN'S ROBOTS		ELFIN 3, 5, 10	
HANWHA PRECISION MACHINERY		HCR-3, 5, 12	
JAKA/KUNLIN		ZU 7, 12	
KAWADA INDUSTRIES		NEXTAGE	
KUKA		LBR iiwa 7 R800, LBR iiwa 14 R820	
MODBOT		Robot, SCARA	
Omron TM		TM 5-700, TM 5-900, TM 12, TM 14	
RAINBOW ROBOTICS		RB5	
REIS		RV10-6, RV20-6	
ROZUM		PULSE 75, 90	
SIASUN		GCR5, GCR14, GCR20, SCR3, SCR5	
STAUBLI	TX2 40, TX2 60	TX2 90, TX2 TOUCH 90, TX2 TOUCH 90L, TX2 TOUCH 90XL	
TECHMAN		TM5M-700, TM5M-900, TM12M, TM14M	
UNIVERSAL ROBOTS		UR3e, UR5e, UR10e, UR16e	UR20, UR30
FANUC	CR-4iA, CR-7iA, CR-7iA/L, CR-14iA		
KAWASAKI	DUARO1, DUARO2		
YASKAWA / MOTOMAN	GP7, GP8		HC 20DT, HC 20

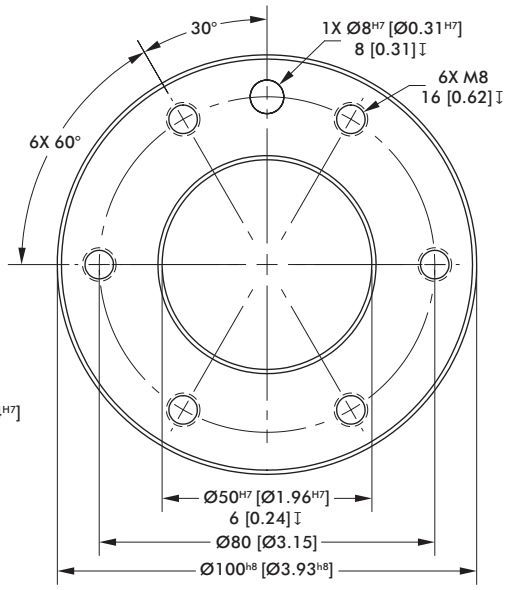
ISO-9409-1-31.5-4-M5



ISO-9409-1-50-4-M6



ISO-9409-1-80-6-M8



SPR10 SOLUTIONS

Small Robot and Cobot Solutions

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Small Payload Robot Tooling (<10kg)

for Small to Medium-sized Part Handling Solutions

DESTACO has designed its cobot tooling solutions for simplicity and ease of use with off-the-shelf availability via kits that feature all of the end-user selected accessories, along with the hardware and tools needed for installation, reducing the need to consult an application engineer. All of the tooling solutions are compatible with cobots that have an ISO 9409-1-31.5-4-M5, ISO 9409-1-50-4-M6, ISO 9409-1-80-6-M8 end-of-arm mounting pattern. Blank robot and tool plates are offered for those who wish to use their own mounting patterns.

SPR 10 Kg
Small Payload Robot Solutions

DESTACO Cobot Solutions Overview

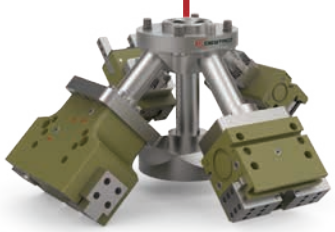
Cobot Quick-Move Base
- Multiple workstations cobot portability
- Quick release base, no tools needed

Mounting Compatability
ISO 9409-1-31.5-4-M5
ISO 9409-1-50-4-M6
ISO 9409-1-80-6-M8

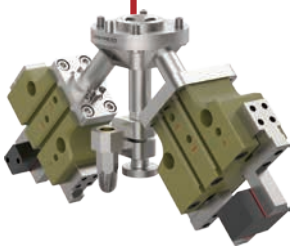
TC1 Series Manual Tool Changer/Coupler
- Self-locking insertion
- Push button release
- Visible lock status indicator for safety

Tool Extenders
- Extend cobot reach into tight spaces
- Customizable for various lengths

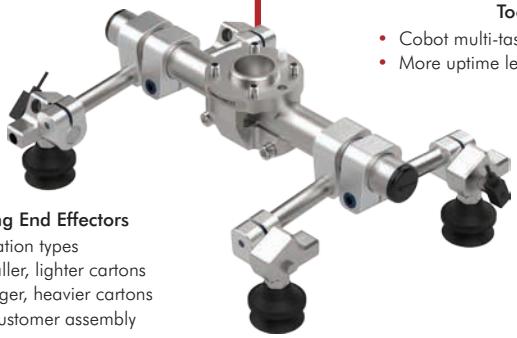
Quick Disconnect Adaptor



Tool Array
- Cobot multi-tasking productivity tools
- More uptime less tool change downtime



Machine Tending Tools
- Wide offering of tool mounting adapters
- Single operation load and unload machining centers



Palletizing End Effectors
Two configuration types
- "I" for smaller, lighter cartons
- "H" for larger, heavier cartons

Fast & easy customer assembly

Vacuum Cup and Generators (ARV)

Mag-Lift Magnetic Gripper

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SPR10 SOLUTIONS

Small Robot and Cobot Solutions

Small Payload Robot Tooling (<10kg) | Product Overview

SPR 10 Kg
Small Payload Robot Solutions

TC-1
Manual Tool Changer/Coupler

Quick-Move
Robot Base Solutions

DirectConnect
Robot Gripper Adapter

Multi-Mount
Tool Extensions

Multi-Mount
Machine Tending Solutions

Multi-Mount
Tool Array Solutions

Micro-Tool Palletizing Solutions

Tool Tree Storage
Solutions

Magnetic
Grippers

Vacuum
Grippers

Vacuum and
Magnetic Grippers

SPR10 SOLUTIONS

TC1 Series | Manual Tool Changer/Coupler

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Coupled

Uncoupled

TC1-M Robot Plates

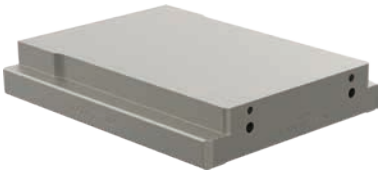
Blank Robot Plate

Model	Weight kg [lb]
TC1-050M-00	0.13 [0.29]

ISO 9409 Mounting

Model	Weight kg [lb]
TC1-050M-01	0.14 [0.31]

TC1-T Tool Plates

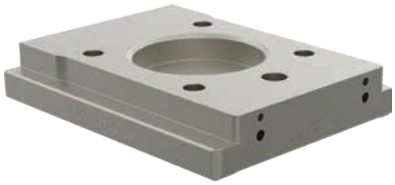


Blank Tool Plate

Model	Weight kg [lb]
TC1-050T-00	2.51 [5.53]

DirectConnect Robohand Mounting

Model	Weight kg [lb]
TC1-050T-01	2.26 [4.98]



ISO 9409 Mounting

Model	Weight kg [lb]
TC1-050T-02	2.26 [4.98]

Dimensions and technical information are subject to change without notice

SPR10 SOLUTIONS

TC1 Series | Manual Tool Changer/Coupler

*Tool Changer shown with **TC1-E01M-C01** and **TC1-E01T-C01** modules installed.*

*Tool Changer shown with **TC1-E01M-C01** and **TC1-E01T-P01** modules installed.*

TC1-E Electric Modules

Robot Plate 8-Pin M8 Socket Electrical Pass-thru Module

Model	Weight kg [lb]
TC1-E01T-P01	0.13 [0.29]

Tool Plate 8-Pin M8 Plug Electrical Pass-thru Module

Model	Weight kg [lb]
TC1-E01T-C01	0.14 [0.31]

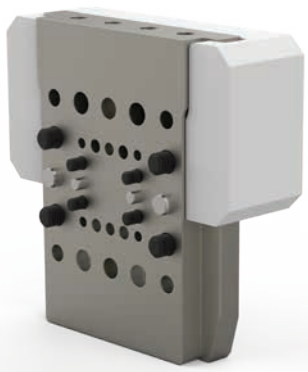
Tool Plate Magneto Resistive 4mm Sensing Module

Part Number	Weight kg [lb]	Description
TC1-E01T-P01	0.09 [0.20]	PNP
TC1-E02T-N01		NPN

TC1-H Tool Holder

For Tool Plate

Model	Weight kg [lb]
TC1-050H-01	0.13 [0.29]



Tool Plate shown placed in Tool Holder.

SPR10 SOLUTIONS

Quick-Move Robot Base Changer

SPR 10 Kg
Small Payload Robot Solutions

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CB Robot Adapter Kit
for Tool Extension Solutions

ISO 9409 Mounting

Model	Weight kg [lb]
CB-200-R01	2.51 [5.53]

CB Robot Plate Blank

Model	Weight kg [lb]
CB-200-R00	2.26 [4.98]

CB-C Clamp Collar

Model	Weight kg [lb]
CB-200-C01	2 [4.40]

CB-B Workstation Base Plate

Model	Weight kg [lb]
CB-200-B01	2.28 [5.00]

Robot Plate Compatibility Chart

Robot Manufacturer	Model	Robot Plate
TECHMAN	TM5M-700, TM5M-900, TM12M, TM14M	CB-200-R01
UNIVERSAL ROBOTS	UR3e, UR5e, UR10e, UR16e	
HANWA PRECISION MACHINERY	HCR-3, HCR-5	
OMRON TM	TM5-700, TM5-900, TM12, TM14	
DOBOT	CR-5	
Other Robots	Various	CB-200-R00

SPR10 SOLUTIONS

DirectConnect Gripper Adaptor Kit

AP Robot Adapter Kit for Robohand Grippers

Model	fits Mounting Pattern*	Weight kg [lb]
AP-031-01	ISO-9409-1-31.5-4-M5	0.102 [0.22]
AP-050-01	ISO-9409-1-50-4-M6	0.13 [0.28]
AP-080-01	ISO-9409-1-80-6-M8	0.36 [0.79]

*See page 3 for dimensions and robot compatability.

AP Gripper Mounting Compatibility

Gripper Models	Compatible Series	Description
DPG	All Size	Pneumatic 2-Jaw Parallel Gripper*
DPDL	047, 056, 088	
DPDS	047, 056, 088	
DPP	10M, 14M	
DPW	250M	
G110, G120	08, 11	
DPE	200-25	Electric 2-Jaw Parallel Gripper*
MG	050-01, 050-02	Magnetic Gripper

*Excludes AP-031-01.

8-Pin M8 NPN Sensor with Plug Connector

TM ROBOT Compatible

Part Number	Weight kg [lb]	Description
OHSN-023	0.011 [0.026]	NPN Magnetoresistive

8-Pin M8 PNP Sensor with Socket Connector

UR Compatible

Part Number	Weight kg [lb]	Description
OHSN-022	0.011 [0.026]	PNP Magnetoresistive

SPR10 SOLUTIONS

SPR 10 Kg
Small Payload Robot Solutions

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Multi-Mount Solutions
Robot Adaptors and Extention Kits

TE Tool Extensions

MM Machine Tending

MM Tool Array

Example assemblies shown

TE Robot Adapter Kit
for Tool Extension Solutions

Model	fits Mounting Pattern*	Weight kg [lb]
TE-031-01	ISO-9409-1-31.5-4-M5	0.064 [0.14]
TE-050-01	ISO-9409-1-50-4-M6	0.13 [0.28]
TE-080-01	ISO-9409-1-80-6-M8	0.36 [0.79]

*See page 3 for dimensions and robot compatability.

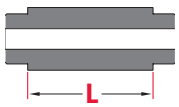
MM Robot Adapter Kit
for Machine Tending and Tool Array Solutions

Model	fits Mounting Pattern*	Weight kg [lb]
MM-050-01	ISO-9409-1-50-4-M6	0.14 [0.31]
MM-080-01	ISO-9409-1-80-6-M8	0.45 [0.99]

*See page 3 for dimensions and robot compatability.

TE Extension Kit

TE-25040
Extension Kit
Shown



for Tool Extension Solutions

Model	(L) mm [in]	Weight kg [lb]
TE-25040	40mm	0.07 [0.15]
TE-25060	60mm	0.10 [0.22]
TE-25080	80mm	0.13 [0.29]
TE-25100	100mm	0.16 [0.35]

MM Extension Kit

MM1530
Extension Kit
Shown

for Machine Tending/
Tooling Array Solutions

Model	(L) mm [in]	Weight kg [lb]
MM-1520	20mm	0.25 [0.05]
MM-1530	30mm	0.31 [0.06]
MM-1540	40mm	0.37 [0.08]

MM Air Blow-Off Kit
for Machine Tending

Accepts G⅛ or ⅛NPT Male Fitting

Model	Weight kg [lb]
MM-T-05	0.051 [0.11]

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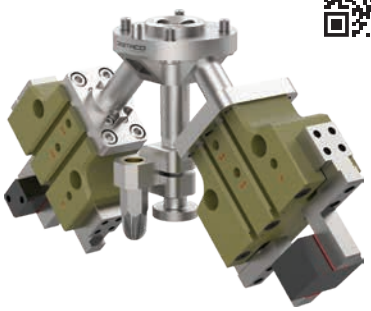
SPR 1 Kg
Small Payload Robot Solutions

SPR10 SOLUTIONS

Multi-Mount Solutions
Tool Plate and Mount Kits

Tool Extensions



Machine Tending

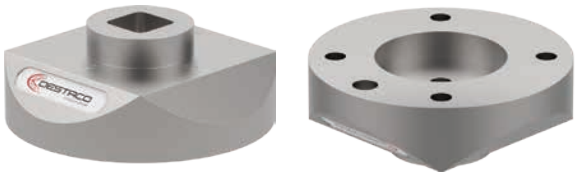
Tool Array

Example assemblies shown

MM-T Tool Plate
for Tool Extenders, Machine Tending and Tool Array Solutions

Blank for Customization

Model	Weight kg [lb]
MM-T-01	0.07 [0.15]



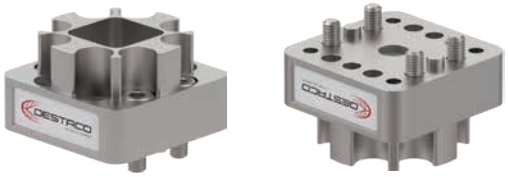
ISO 9409 Mounting

Model	Weight kg [lb]
MM-T-02	0.11 [0.24]

MM-T DirectConnect Tool Mount Kits
for Tool Extenders, Machine Tending and Tool Array Solutions

3mm and 5mm Square Mounting

Model	Weight kg [lb]
MM-T-03	0.06 [0.14]

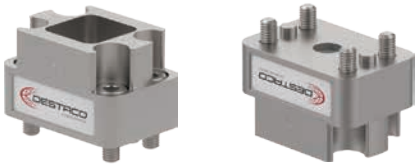


3mm Square Mounting

Model	Weight kg [lb]
MM-T-04	0.021 [0.046]

3mm and 5mm Rectanglar Mounting

Model	Weight kg [lb]
MM-T-05	0.051 [0.11]



3mm Rectanglar Mounting

Model	Weight kg [lb]
MM-T-06	0.02 [0.04]

SPR10 SOLUTIONS

MicroTool Palletizing End Effectors

SPR 10 Kg
Small Payload Robot Solutions

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How To Order:

(Example shown is based on I-Structure configured end effector, considering the following box specifications.
The H-Structure would be ordered in the same way. Be sure to observe min/max box sizes when configuring end effector.

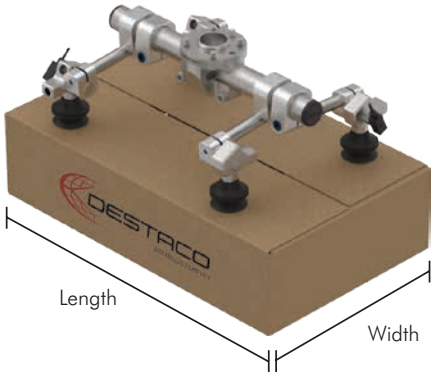
Length of Box (mm) = **600** **Width of Box** (mm) = **450** **Weight of Box** (kg) = **8**

	Model Number #	Description	Qty	Page
1	CA-050-01	Robot Adapter Kit	1	5
2	CPI-PAT-1OT-12	Length Tube	1	6
3	VAA-300-1050-M18	Vacuum Arms	4	7
4	VC-B30N-18F	Vacuum Cups	4	9
5	360-VN-3	NPN Sensors	2	10

"I" Structure

for Small to Medium Boxes <10kg

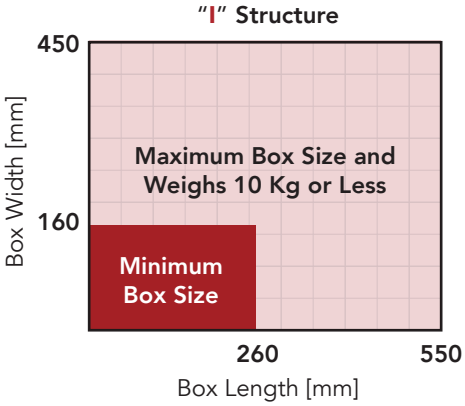
See Page 14 for individual components

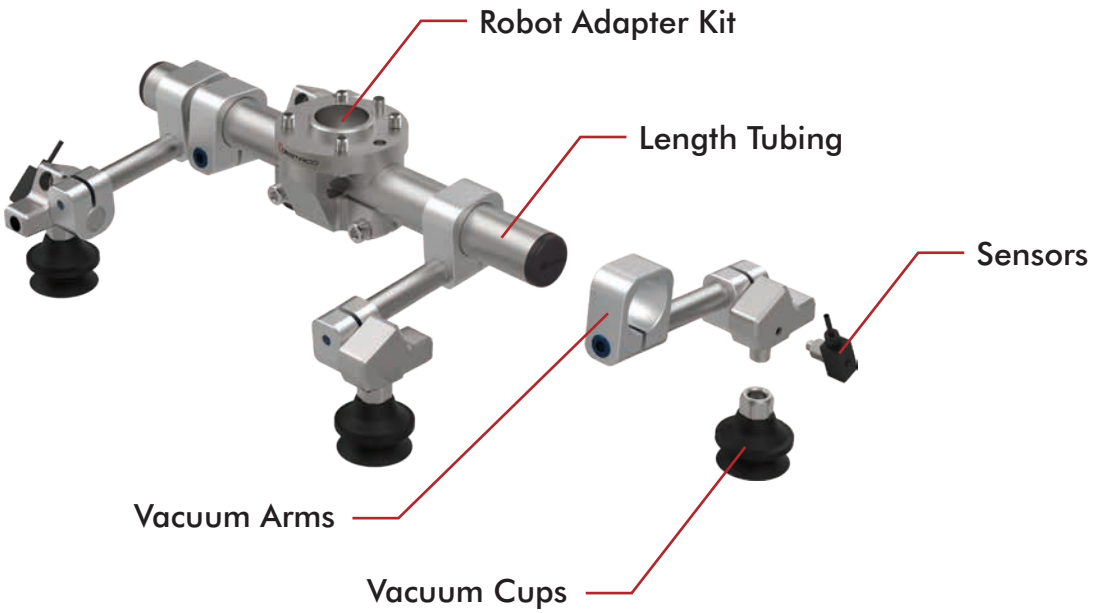


"I" Structure Palletizing

Box Length
260mm to 550mm

Box Width
160mm to 450mm





Dimensions and technical information are subject to change without notice

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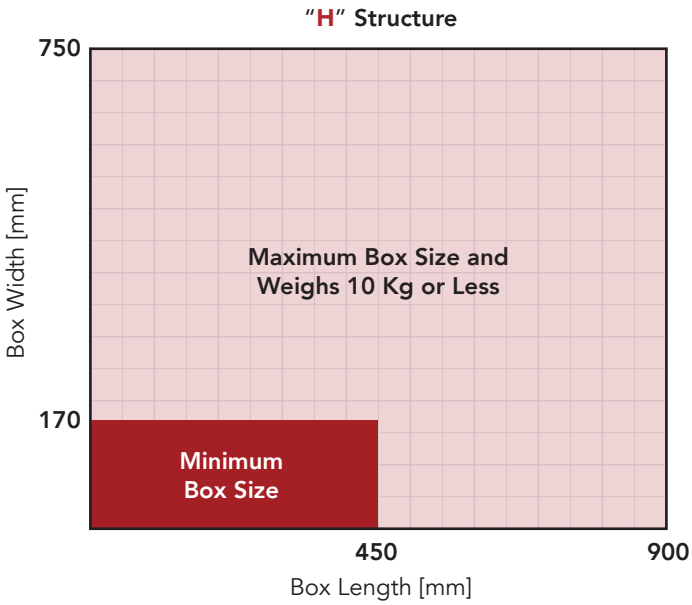
SPR 10Kg Small Payload Robot Solutions

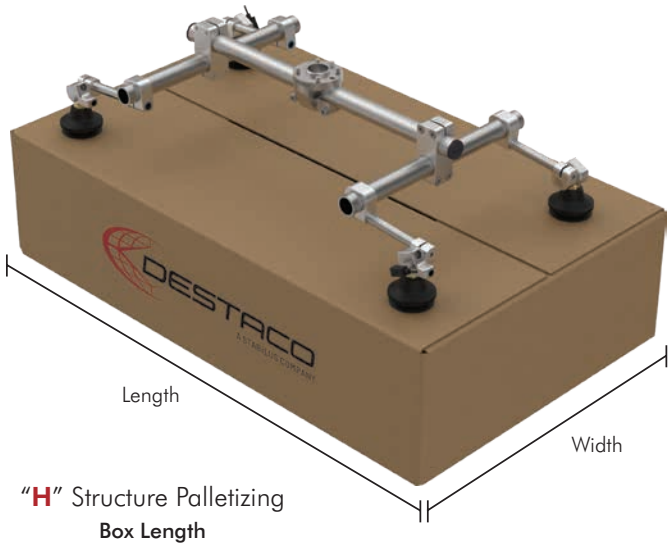
SPR10 SOLUTIONS

MicroTool Palletizing End Effectors

"H" Structure
for Medium to Large Boxes <10kg

See Page 14 for individual components

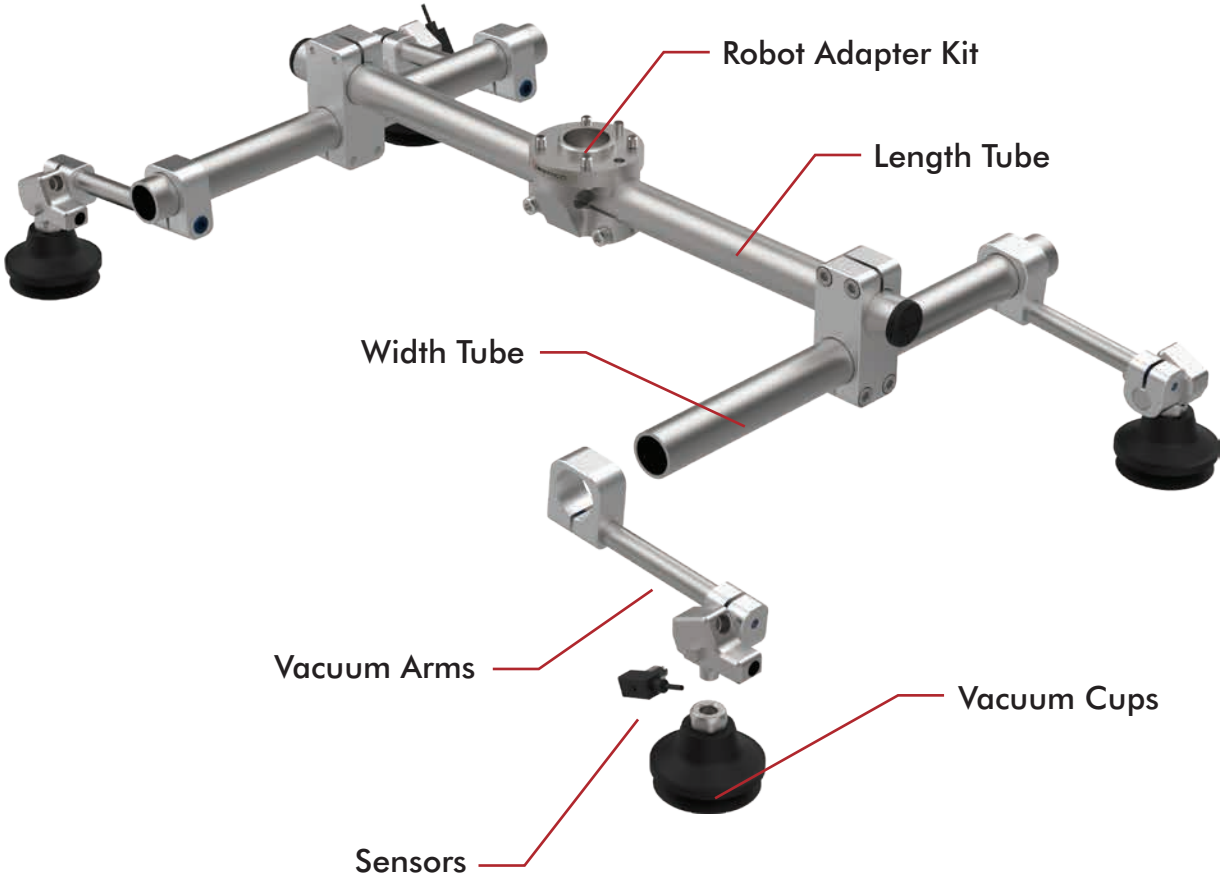




"H" Structure Palletizing

Box Length
450mm to 900mm

Box Width
170mm to 750mm



SPR10 SOLUTIONS

MicroTool Palletizing End Effectors

SPR 10 Kg
Small Payload Robot Solutions

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CA Robot Adapter Kit

for Ø1.00" Tubing

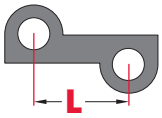
Model	fits Mounting Pattern	Weight kg [lb]
CA-080-01	ISO-9409-1-80-6-M8	0.52 [1.15]
CA-050-01	ISO-9409-1-50-4-M6	0.21 [0.46]

CLM Clamp Assembly Kit

Ø1.00" to Ø1.00

Model	Weight kg [lb]
CPI-CLM-10-10-EC	0.13 [0.29]

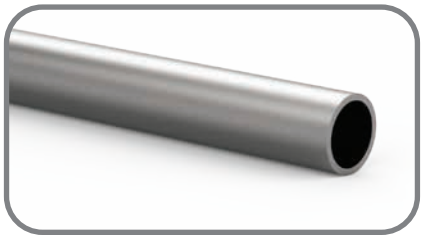
VAA Vacuum Assembly for Ø1.00" Tube



Ø1.00" to Ø 0.50" Applecore

Model	(L) mm [in]	Structure	Weight kg [lb]
VAA-200-1050-M18	50.7 [2.00]	I	0.09 [0.20]
VAA-300-1050-M18	76.1 [3.00]	I	0.10 [0.22]
VAA-400-1050-M18	101.6 [4.00]	I, H	0.11 [0.24]
VAA-500-1050-M18	127.0 [5.00]	I	0.12 [0.26]
VAA-600-1050-M18	152.4 [6.00]	I	0.13 [0.28]

PAT Thin Wall Tubing



Ø1.00"/ 0.85" Wall Thickness

Model	Structure	Weight kg [lb]
CPI-PAT-10T-06	H	0.06 [0.13]
CPI-PAT-10T-08	I, H	0.09 [0.20]
CPI-PAT-10T-10	I, H	0.11 [0.24]
CPI-PAT-10T-12	I, H	0.13 [0.29]
CPI-PAT-10T-14	I. H	0.15 [0.33]
CPI-PAT-10T-16	I, H	0.17 [0.38]
CPI-PAT-10T-18	H	0.19 [0.42]
CPI-PAT-10T-20	H	0.22 [0.48]
CPI-PAT-10T-22	H	0.24 [0.53]
CPI-PAT-10T-24	H	0.26 [0.57]

Vacuum Sensor

Part Number	Weight kg [lb]	Description
360-VN-3	0.09 [0.20]	NPN
360-VP-3		PNP

VC-B Micro Series Round Bellow Vacuum Cups (Female Mount)

Ø20mm

Model	Structure	Weight g [oz]
VC-B20N-18F	I, H	6.2 [0.20]

Ø30mm

Model	Structure	Weight g [oz]
VC-B30N-18F	I, H	11.5 [0.37]

Ø50mm

Model	Structure	Weight g [oz]
VC-B50N-18F	I, H	30.5 [0.98]

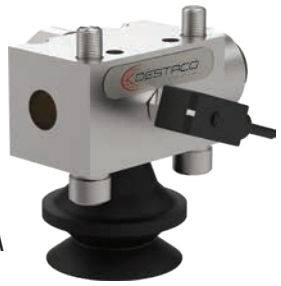
Dimensions and technical information are subject to change without notice

SPR10 SOLUTIONS

Vacuum and Magnetic Gripper Kits

VSA ARV® Vacuum Gripper Kit

Model	Weight kg [lb]
CPI-VSA-ARVS-5-U18	0.13 [0.29]



Shown with Vacuum Sensor and VC-B30N-18M Vacuum Cup

VC-F Micro Series Round Flat Foot Vacuum Cups

Ø20mm

Model	Weight g [oz]
VC-F20N-18M	7.8 [0.27]

Ø30mm

Model	Weight g [oz]
VC-F30N-18M	6.2 [0.22]

Ø50mm

Model	Weight g [oz]
VC-F50N-18M	19.6 [0.69]

VC-B Micro Series Round Bellow Vacuum Cups

Ø20mm

Model	Weight g [oz]
VC-B20N-18M	5.07 [0.18]

Ø30mm

Model	Weight g [oz]
VC-B30N-18M	11.42 [0.40]

Ø50mm

Model	Weight g [oz]
VC-B50N-18M	24.76 [0.87]

VC-BM Micro Series Round MultiBellow Vacuum Cups

Ø20mm

Model	Weight g [oz]
VC-BM20N-18M	[0.19] 5.3

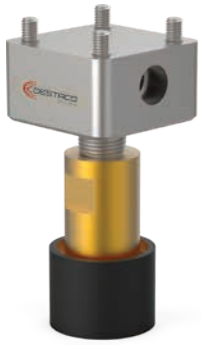
Ø30mm

Model	Weight g [oz]
VC-BM30N-18M	[0.36] 10.3

Ø50mm

Model	Weight g [oz]
VC-BM50N-18M	[1.15] 32.7

MG Magnetic Gripper Kit



Ø1.50″

Model	Weight kg [lb]
MG-050-01	0.31 [0.69]

Ø3.00″

Model	Weight kg [lb]
MG-050-02	0.57 [1.26]

SPR10 SOLUTIONS

Tool Tree Storage Solutions

SPR 10 Kg
Small Payload Robot Solutions

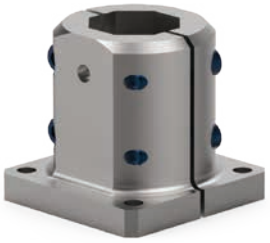
CLICK OR SCAN
QR codes for full catalog pages on products

TC Tool Holder Mount Kit

for Ø30 mm Boom

Model	Weight kg [lb]
TC-050H-02	0.37 [0.81]

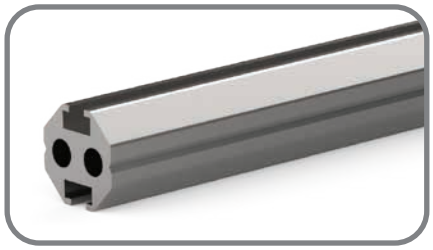
CLM End Mount



Ø1.00" to Ø1.00

Model	Weight kg [lb]
CPI-CLM-30B-20F	0.29 [0.64]

B-30 BodyBuilder™ Extrusion



30mm Octagonal Boom

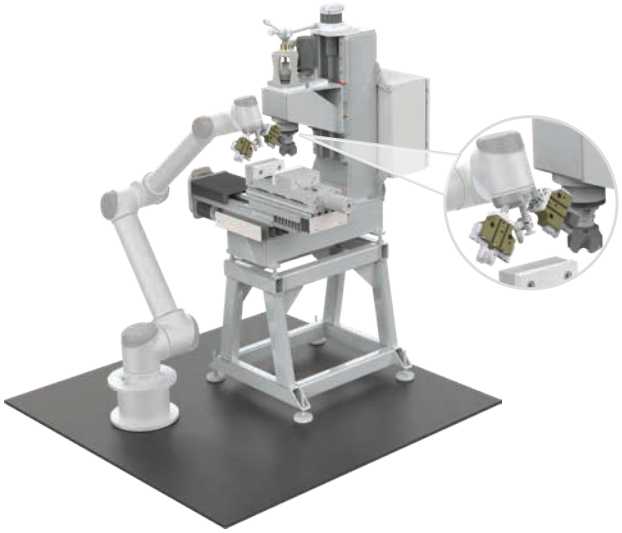
Model	(L) mm [in]	Weight kg [lb]	Max # of Tool Holders
B-30-300-0	300 [11.8]	0.38 [0.84]	4
B-30-400-0	400 [15.7]	0.51 [1.12]	6
B-30-500-0	500 [19.7]	0.64 [1.40]	8

NOTES

SPR-10 APPLICATION EXAMPLES

Small Robot and Cobot Solutions

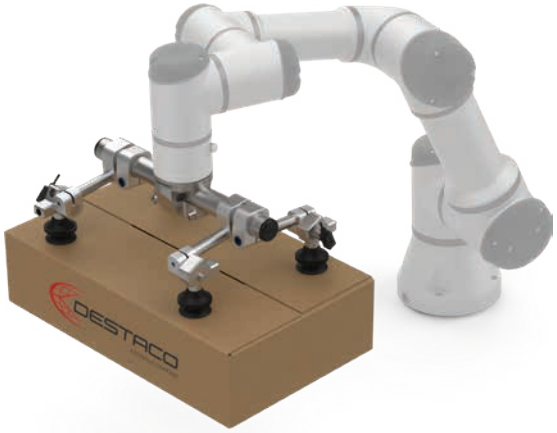
Tool Extenders and Machine Tending



Tool Arrays

DirectConnect Robohand Gripper Adapter

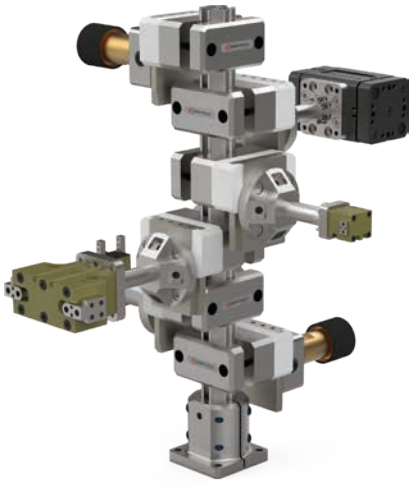
Microtool Palletizing



Mag-Lift Magnetic Gripper

ARV® Vacuum Gripper

Tool Tree Holder



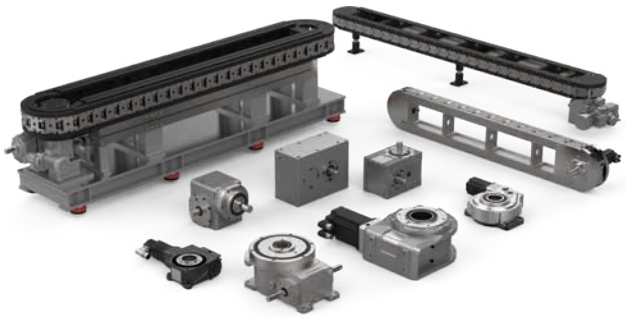
OUR PORTFOLIO OF PRODUCTS

End Effectors (EE)

- Tool Changers
- End-of-Arm Tooling
- Vacuum Products
- Palletizing Solutions

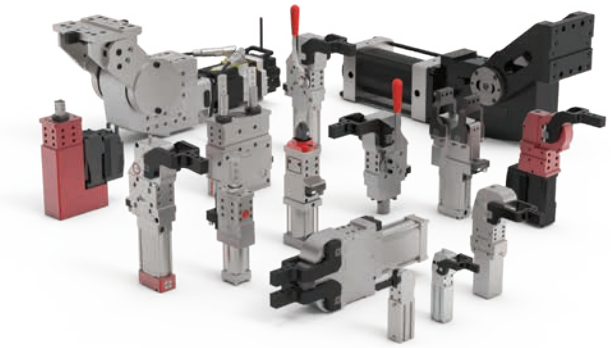
Grippers (GR)

- Electric Grippers
- Pneumatic and Sheet Metal Grippers
- Rotates
- Slides



Indexers (IN)

- Precision Conveyors
- Dial Indexers
- Shaft and Flange Indexers
- Part Handlers



Power Clamps (PC)

- Power Clamps
- Pin Clamps and Packages
- Pivot Units
- Power Cylinders

Manual Clamps (MC)

- Hold Down
- Squeeze Action
- Plunger, Hook and Latch
- Pneumatic Toggle and Swing

Sheet Metal Grippers (SM)

- Accelerate® Press Room
- Cam Type
- Toggle Lock

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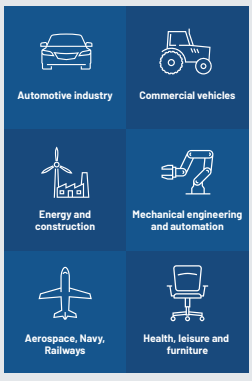
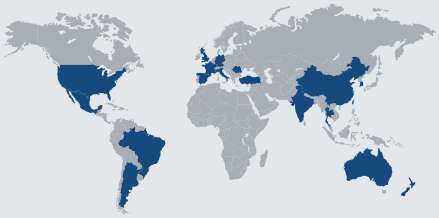


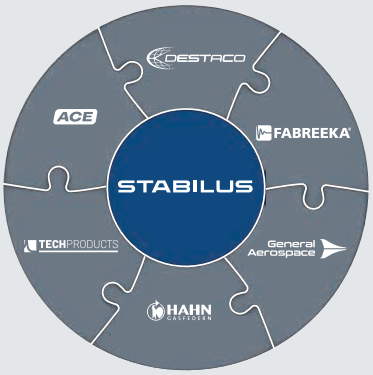
Industries



45 Locations in 19 Countries

8K Employees

2023 Revenues



Expert Brands

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