

Destaco

03/28/2023



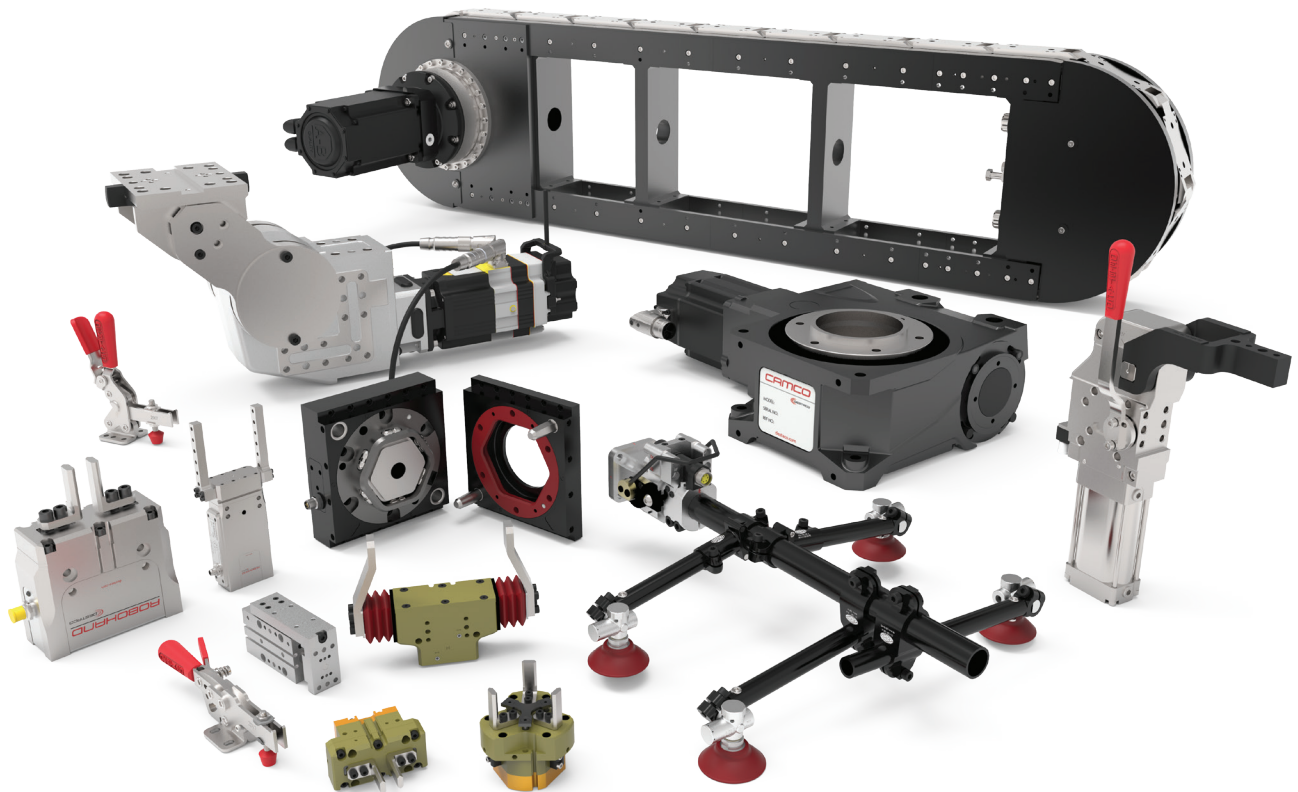
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This catalog is a custom document and the products included is based on your unique selection from portions of complete catalogs that already exist. Please refer to our full catalogs for more information on products not included in this customized document.

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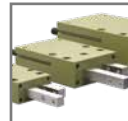
Specialty Grippers GR-SPC



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NORTH AMERICAN XPRESS PROGRAM

A Full Line of Automation Products to Meet Your Application Needs Quickly













ON OUR MOST POPULAR PRODUCTS

To choose the best and most cost-effective automation solution for your application please contact your DESTACO sales representative or DESTACO customer service.

Product listed below are for North American Market only.

Parallel Grippers

		 SIZE	 STROKE [mm]	 FORCE [N]
	HEAVY DUTY RDH/RTH Series 2 & 3 Jaw Impact Resistant Shielded Gripper	1, 2, 3, 4, 5 -L Stroke option	4.0-26	125-675
	HEAVY DUTY RP Series Rugged Impact Resistant Gripper	5, 10, 11, 12, 15	4.0-12.7	156-311
	RPL/RPLC Series Zero Side Play, High Repeatability Gripper	1, 2, 3, 4 (C)=Clean Room Version	6.4-25.4	116-160
	RPM/RPMC Series Low Friction Micro Gripper	1, 2, 3, (C)=Clean Room Version	4.1-6.3	36
	DPG Series Modular Multi-Part Sensing Gripper	10M-2	12.7	222
	HEAVY DUTY DPW Series Wide Parts/ Long Finger Gripper	250, 375, 500	19.05-63.5	222-800
	HEAVY DUTY RPW Series Wide Parts/ Long Finger Gripper	625	50.8-88.9	1068

Angular Grippers

		 SIZE	 ANGLE	 FORCE [N]
	RA Series Low Cost Small Size Angular Gripper	RA-5	15° (per finger)	89

Rotary Actuators

		 SIZE	 ANGLE	 PAYLOAD [Kg]
	RR Series High Torque Compact Rotary Actuators	18, 28, 36	0-180°	0.45-3.6

EUROPEAN XPRESS PROGRAM

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Product listed below are for European Market only.



SIZE
















STROKE [mm]



FORCE [N]

2-Jaw Parallel Grippers

		SIZE	STROKE [mm]	FORCE [N]
	HEAVY DUTY RDH Series Impact Resistant Shielded Gripper	All Sizes	4-70	361-28002
	2P Series Precision Cylindrical Gripper	All Sizes	10-30	109-3043
	REP-2 Series Cylindrical Shielded Gripper	All Sizes	10-30	480-3351
	DGC Series Precision Long Stroke Gripper	All Sizes	20-60	474-2318
	DPG Series Modular Gripper	All Sizes	6.4-25.4	222
	DPW Series Wide Parts/ Long Finger Gripper	All Sizes	19.1-63.5	222-800
	HEAVY DUTY RPW Series Wide Parts/ Long Finger Gripper	625, 750	19.1-114.3	222-2091
	HEAVY DUTY RP Series Rugged Impact Resistant Gripper	All Sizes	4.0-50.8	40-3336
	DPL Series Long Stroke, Low Profile Gripper	All Sizes	40-140	811-2035
	CP Series Compact Gripper	All Sizes	4-32	10-2749
	RPL/RPLC Series Zero Side Play, High Repeatability Gripper	All Sizes (C)=Clean Room	6.4-25.4	116-160
	RPM/RPMC Series Low Friction Micro Gripper	All Sizes (C)=Clean Room	3.2-6.3	36
	RDE Series Water Immersion Gripper	Contact DESTACO for More Information		

EUROPEAN XPRESS PROGRAM

A Full Line of Automation Products to Meet Your Application Needs Quickly











ON OUR MOST POPULAR PRODUCTS








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Product listed below are for European Market only.

3-Jaw Parallel Grippers

		 SIZE	 STROKE [mm]	 FORCE [N]
    	HEAVY DUTY RTH Series Impact Resistant Shielded Gripper	All Sizes	4-20	579-4562
	3P Series Precision Cylindrical Gripper	All Sizes	10-30	107-2030
	REP-3 Series Cylindrical Shielded Gripper	All Sizes	10-30	469-3268
	PPC Series Thru-Hole Gripper	All Sizes	10-30	896-4332
	RTE Series Water Immersion Gripper	Contact DESTACO for More Information		

Angular Grippers

		 SIZE	 ANGLE	 FORCE [N]
   	RUA Series Cylindrical Gripper	All Sizes	15.9-19.1° (per finger)	313-3941
	DCT-CT Series 180° Jaw Opening Gripper	All Sizes	90° (per finger)	32-893
	RA Series Compact Gripper	RA-6	15° (per finger)	71-801
	FUA Series Food Gripper	All Sizes	35° (per finger)	9-32

EUROPEAN XPRESS PROGRAM

A Full Line of Automation Products to Meet Your Application Needs Quickly



ON OUR MOST POPULAR PRODUCTS

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Product listed below are for European Market only.

Rotary Actuators



SIZE



ANGLE



PAYLOAD [Kg]



RR Series Light-Duty
High Torque Compact
Rotary Actuators

All Sizes

0-180°

0.45-1.3



RR Series Heavy-Duty
High Torque Compact
Rotary Actuators

All Sizes

0-180°

3.6-91

Feed Escapements



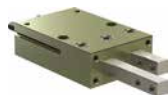
SIZE



STROKE [mm]



PARTS ESCAPED



RFE Series
2-Finger Actuation

All Sizes

16-32

85-150
(per minute)



SIZE



PORTS



PAYLOAD [Kg]

Tool Changers and Compliance



RQC/RTP Series
Heavy-Duty
Tool Changer

All Sizes

19 pin
Electrical and
6 Pneumatic
Ports

90-550



QC/TP Series
Tool Changer

All Sizes

12-15 pin
Electrical and
4 Pneumatic
Ports

30-150



CH Series
Horizontal Compliance

All Sizes

N/A

2-40



AU Series
Resettable Emergency
Stop Module

Contact DESTACO for More Information

CLEAN ROOM RATED SOLUTIONS

Grippers/Slides/Rotaries | Product Overview

DESTACO's Clean Room Rated Solutions are geared toward laboratory, semiconductor, medical, and food handling type environments. Many of our pneumatic products include a scavenge or purge port. These extra ports create internal vacuum or pressure to control contaminants escaping into the environment or prevent de-greaser or other chemicals penetrating our product.

Solutions include:

- Diverse line-up of products for class 10/100 cleanroom environments
- Manufactured with corrosion-resistant materials for use with de-ionized water
- Customized solutions available with food and medical grade lubricants, stainless steel, and nickel-plated materials to meet your application requirements.

Electric Parallel Grippers			
Rating	RPE-100	DPE-200	DPE-400
ISO 4 (Class10)	☉☉		
ISO 5 (Class100)	☉		☉
ISO 6 (Class1,000)	☉	☉	☉
ISO 7 (Class10,000)	☉	☉	☉
ISO 8 (Class100,000)	☉	☉	☉

Pneumatic 2-Jaw and 3-Jaw Grippers									
Rating	RPMC	RPLC	DPDS	DPDL	DPG	DPP	RDH	RTH	DCT
ISO 4 (Class10)	☉☉	☉☉	☉☉						
ISO 5 (Class100)	☉☉	☉☉	☉☉	☉☉	☉		☉☉	☉☉	☉
ISO 6 (Class1,000)	☉☉	☉☉	☉	☉	☉		☉	☉	☉
ISO 7 (Class10,000)	☉	☉	☉	☉	☉	☉	☉	☉	☉
ISO 8 (Class100,000)	☉	☉	☉	☉	☉	☉	☉	☉	☉

Rotary Actuators			
Rating	DRG	DRF	RR
ISO 4 (Class10)			
ISO 5 (Class100)	☉	☉	
ISO 6 (Class1,000)	☉	☉	
ISO 7 (Class10,000)	☉	☉	
ISO 8 (Class100,000)	☉	☉	☉

Linear Slides			
Rating	DLB	DLT	DLM
ISO 4 (Class10)			
ISO 5 (Class100)			
ISO 6 (Class1,000)	☉	☉	☉
ISO 7 (Class10,000)	☉	☉	☉
ISO 8 (Class100,000)	☉	☉	☉

- ☉ Standard Clean Room
- ☉ With use of Scavenge Port

Note: All products tested using Krytox™ Grease. Please contact factory for individual test results and additional clean room requirements.

ROBOTIC TOOLING SOLUTIONS

CLICK OR SCAN
To view full catalog pages
on these product

Automatic Tool Changers | Features and Benefits

Automatic Tool Changers

Robotic Applications:

Perfect for those flexible/multiple tooling applications utilizing one Robot. This product was designed with exceptional repeatability, high rigidity & load capacity to make it ideal for any robotic application.

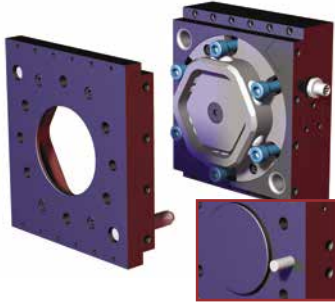
Automation Applications:

End effector tooling and interchangeable fixturing can be changed quickly and easily to accommodate many different styles of parts on the same assembly machine or machining center.

Highly Configurable, Modular Design (RQC/RTP):

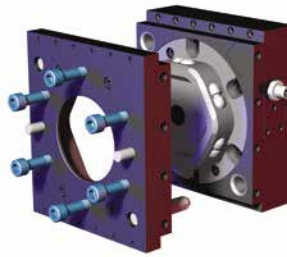
The Modular RQC series easily accommodates up to (4) optional modular interfaces, offering a high level of flexibility.

Mounting Information



RQC Robot Plate Adaptor
Counterbored holes for mounting with a dowel pin hole, a raised boss for location and a ISO9409-1 mounting pattern.

Back Side of RQC



RTP Tool Plate Adaptor
Tapped holes, two dowel pin holes for accurate location of payload and a ISO9409-1 mounting pattern.



QC Robot Plate Adaptor
has counterbored holes for mounting and two dowel pins for hole location (size 30 has pilot boss).



TP Tool Plate Adaptor
has counterbored holes for mounting and two dowel pins for hole location (size 30 has pilot boss).



RHC Robot Plate Adaptor
mounts with screws from behind or through the front and locates with dowel pins for accuracy.



RHC Tool Plate Adaptor
mounts payload with screws from behind or through the front and locates with dowel pins for accuracy. Protect cone surfaces from debris to insure proper positioning.



Compliance Device | Features and Benefits

Flexibility of the Tool:

Cylindrical Horizontal compliance devices are used for inserting components that may be misaligned with the tool. They allow a horizontal displacement that compensates for part placing inaccuracies.

For Precision Applications:

High quality components allows for centering repeatability from 0.02mm and angular repeatability from $\pm 10^\circ$.

Harsh Environments:

Enclosed design allows them to be used in harsh environments.

Spring Assist:

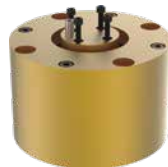
Optional spring assist allows for use in single acting mode.



Mounting Information



CH Horizontal Compliance
The compliance is located using a pilot boss and a dowel pin and assembled using 4 or 6 through body screws.



Tool Mounting

Tooling is located using a centering and a dowel pin and assembled using 4 screws.



See pages 2-5 for product availability in your region.



CLICK OR SCAN

To view full catalog pages on this product

RQC/RTP SERIES

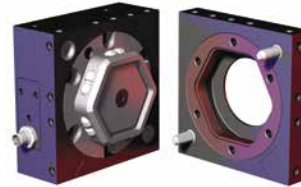
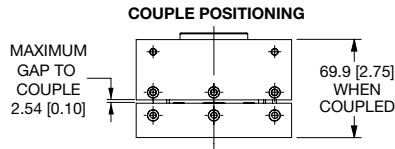
Automatic Tool Changers | Technical Information



See pages 2-5 for product availability in your region.

RQC-200/RTP-200

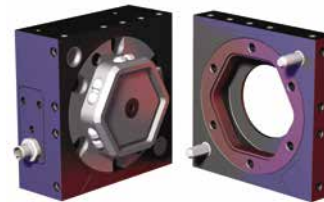
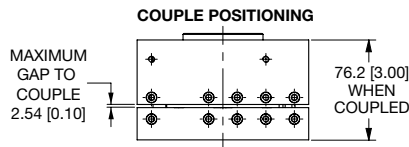
Combined Weight: 3 Kg [6.7 lb]
Max. Payload: 90 Kg [200 lb]
Max. Moment: 810 Nm [7200 in-lb]



RQC-200 Robot Plate
RTP-200 Tool Plate

RQC-400/RTP-400

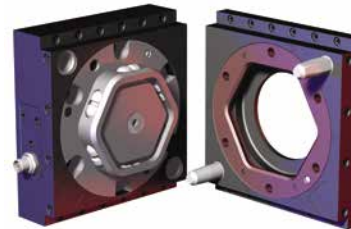
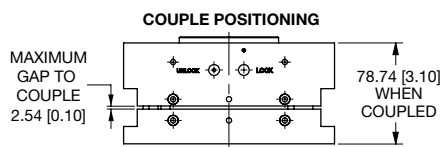
Combined Weight: 4.7 Kg [10.4 lb]
Max. Payload: 180 Kg [400 lb]
Max. Moment: 1580 Nm [14000 in-lb]



RQC-400 Robot Plate
RTP-400 Tool Plate

RQC-800/RTP-800

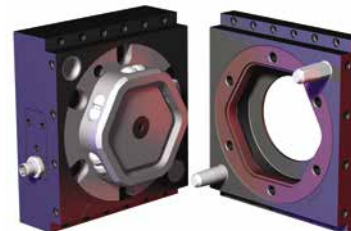
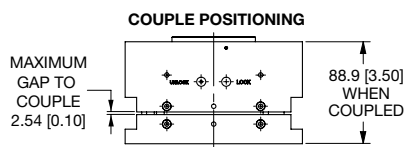
Combined Weight: 7.1 Kg [15.8 lb]
Max. Payload: 360 Kg [800 lb]
Max. Moment: 2490 Nm [22000 in-lb]



RQC-800 Robot Plate
RTP-800 Tool Plate

RQC-1200/RTP-1200

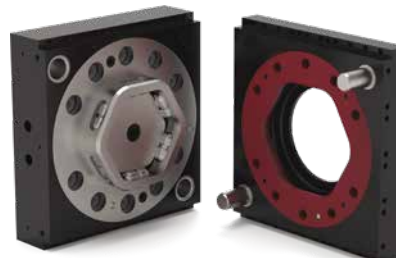
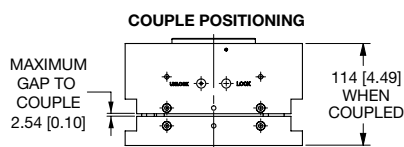
Combined Weight: 8.3 Kg [18.4 lb]
Max. Payload: 550 Kg [1200 lb]
Max. Moment: 3390 Nm [30000 in-lb]



RQC-1200 Robot Plate
RTP-1200 Tool Plate

RQC-2400/RTP-2400

Combined Weight: 30 Kg [66.1 lb]
Max. Payload: 1089 Kg [2400 lb]
Max. Moment: 7000 Nm [61955 in-lb]



RQC-2400 Robot Plate
RTP-2400 Tool Plate

QC/TP, RHC SERIES

CLICK OR SCAN
To view full catalog pages
on these product

Automatic Tool Changers | Features and Benefits

QC Series Tool Changers



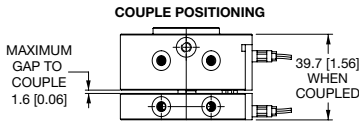
See page 2-5 for
product availability
in your region.

QC-30
Robot
Plate



TP-30
Tool
Plate

Combined Weight: 0.34 Kg [0.75 lbs]
Max. Payload: 13.6 Kg [30 lbs]
Max. Moment: 22.6 Nm [200 in-lbs]

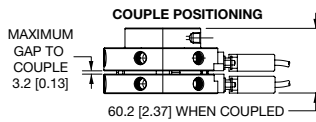


QC-60
Robot
Plate



TP-60
Tool
Plate

Combined Weight: 1.27 Kg [2.8 lbs]
Max. Payload: 27 Kg [60 lbs]
Max. Moment: 88.1 Nm [780 in-lbs]

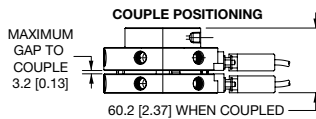


QC-60-10P
Robot
Plate



TP-60-10P
Tool
Plate

Combined Weight: 1.27 Kg [2.8 lbs]
Max. Payload: 27 Kg [60 lbs]
Max. Moment: 88.1 Nm [780 in-lbs]

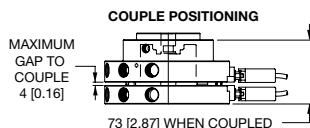


QC-150
Robot
Plate



TP-150
Tool
Plate

Combined Weight: 3.2 Kg [7.1 lbs]
Max. Payload: 68 Kg [150 lbs]
Max. Moment: 215 Nm [1900 in-lbs]



RHC Series Tool Changers

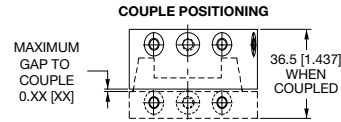


RHC-1-R
Robot
Plate



RHC-1-T
Tool
Plate

Combined Weight: 0.29 Kg [0.63 lbs]
Max. Payload: 9 Kg [20 lbs]
Max. Moment: 28 Nm [250 in-lbs]

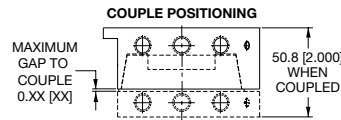


RHC-2-R
Robot
Plate



RHC-2-T
Tool
Plate

Combined Weight: 0.82 Kg [1.81 lbs]
Max. Payload: 59 Kg [130 lbs]
Max. Moment: 136 Nm [1200 in-lbs]

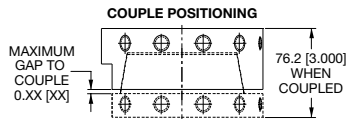


RHC-4-R
Robot
Plate



RHC-3-T
Tool
Plate

Combined Weight: 3.1 Kg [6.8 lbs]
Max. Payload: 136 Kg [300 lbs]
Max. Moment: 1017 Nm [9000 in-lbs]

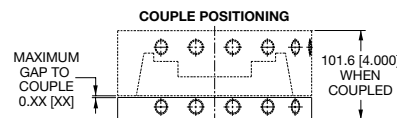


RHC-4-R
Robot
Plate



RHC-4-T
Tool
Plate

Combined Weight: 11 Kg [24.3 lbs]
Max. Payload: 454 Kg [1000 lbs]
Max. Moment: 2825 Nm [25000 in-lbs]



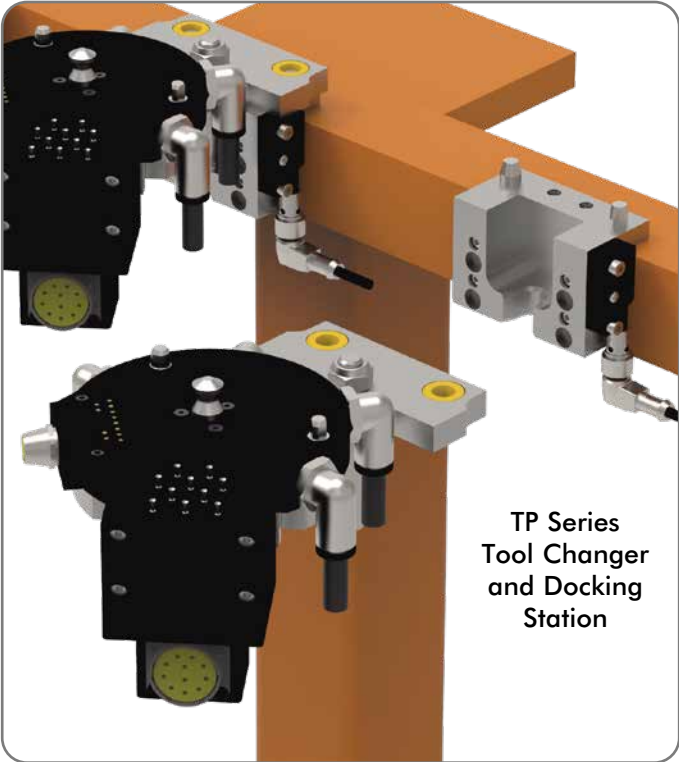
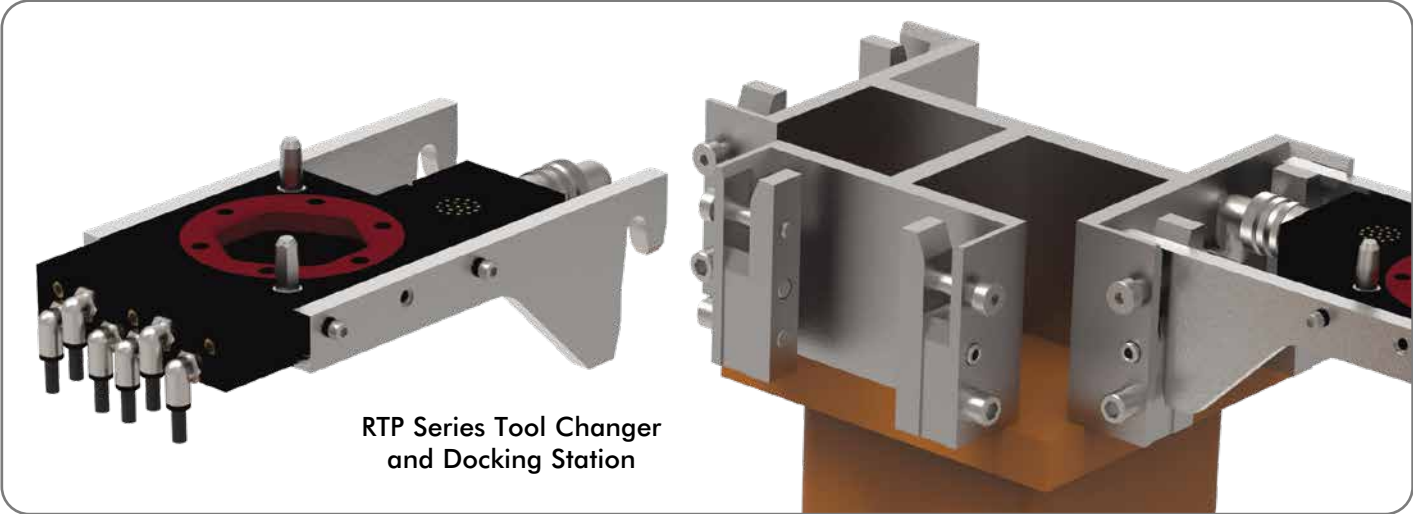
ROBOTIC TOOLING SOLUTIONS

Tool Changer Docking Station

DESTACO offers custom and standard Docking Stations to fit customers needs. Please contact DESTACO Sales for more information.

Key Features:

- Allows for quick changing of tooling
- Reducing machine down-time
- Safely stores tooling when not in use
- Standard or custom stations

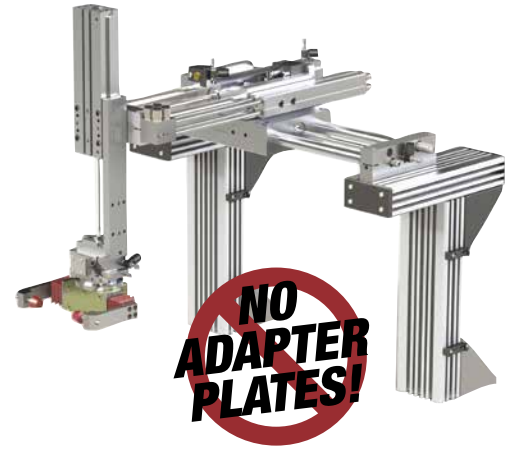


MODULAR MOUNTING SOLUTIONS

Grippers/Slides/Rotaries | Product Overview

DESTACO's modular automation systems feature DIRECTCONNECT™ technology, allowing all components of the system—base slides, block thrusters, thruster slides, grippers, and mounting stanchions—to be mounted together quickly and easily without any adapter plates.

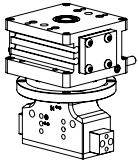
- Reduces engineering design
- Saves \$\$\$ with modular solutions
- Change device orientations quickly
- Eliminates Adapter Plates



Modular DIRECTCONNECT Mounting Style Examples:

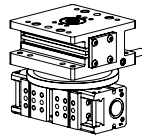
Look for more examples of each main section of the catalog. This is a sample of configurations we offer. Custom solutions also available.

Grip & Rotate



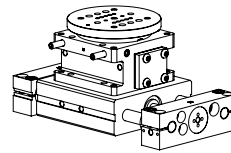
DRF Rotary Actuator to DPDL Parallel Gripper

Pick & Rotate



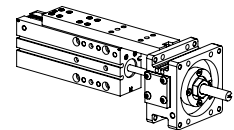
DRF Rotary Actuator to DPP Parallel Gripper

Place & Rotate



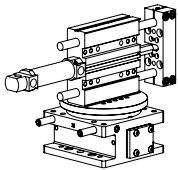
DLB Base Slide to DRF Rotary Actuator

Place & Rotate



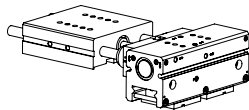
DLM Linear Slide to DRG Rotary Actuator

Rotate & Place



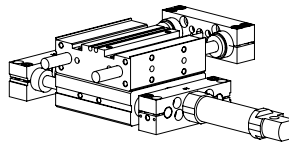
DRF Rotary Actuator to DLT Linear Slide

Pick & Place



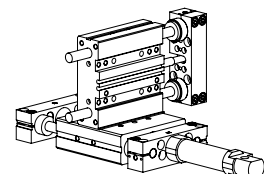
DLT Base Slide to DPP Parallel Gripper

Place & Place



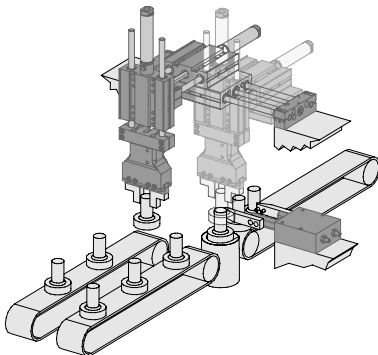
DLB Base Slide to DLT Linear Slide

Place & Place

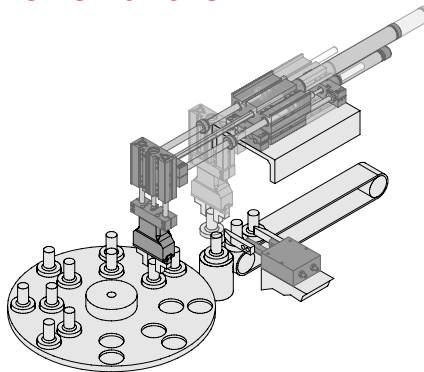


DLB Base Slide to DLT Linear Slide

Connect Different Sizes & Styles



Configure in Multiple Orientations



Look for the DIRECTCONNECT Logo

Product Series beginning with the letter D have a DIRECTCONNECT option, with a few exceptions.

DIRECTCONNECT™

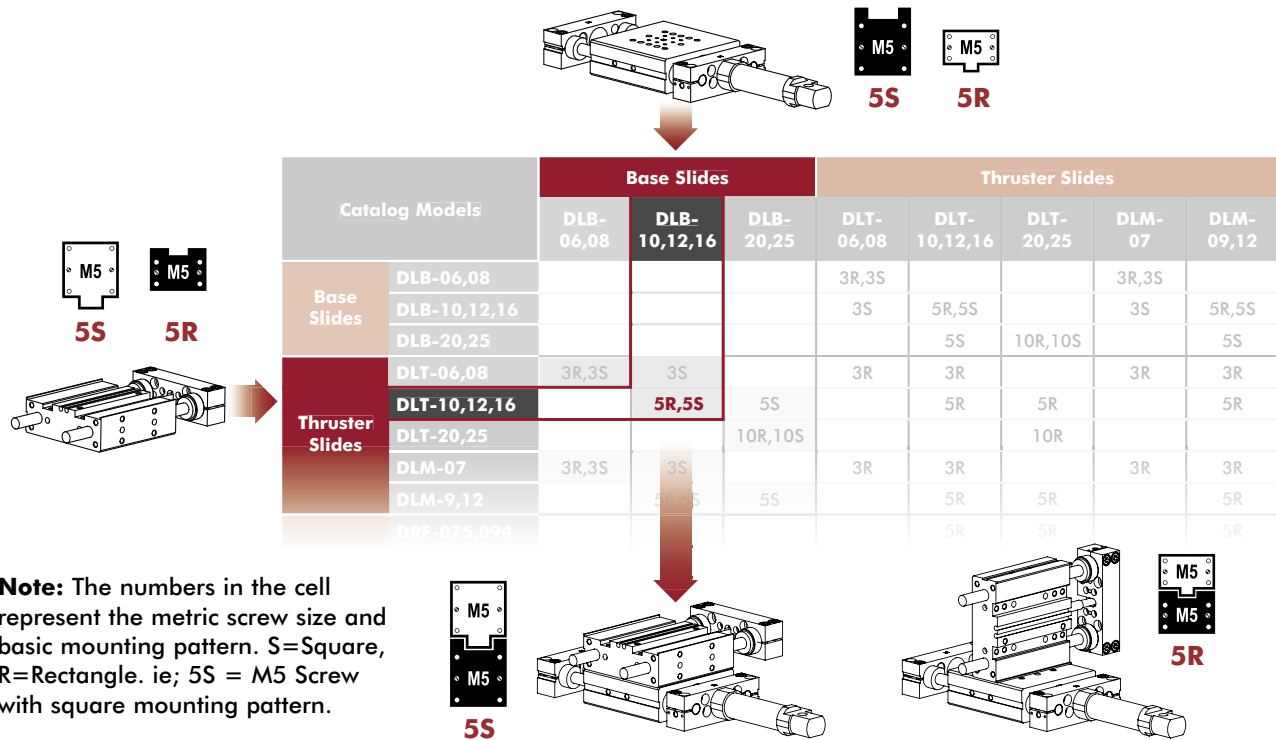
HOW TO MAKE A DIRECTCONNECT™ MOUNT

Grippers/Slides/Rotaries | Product Overview

The DIRECTCONNECT Modular Compatibility Chart (on the next page) shows all the products that can easily connect together without adapter plates. Simply locate your first product along the horizontal axis of the top of chart, then locate the second product along the vertical axis on the left side of the chart. If a connection can be made, a mounting pattern will be shown.

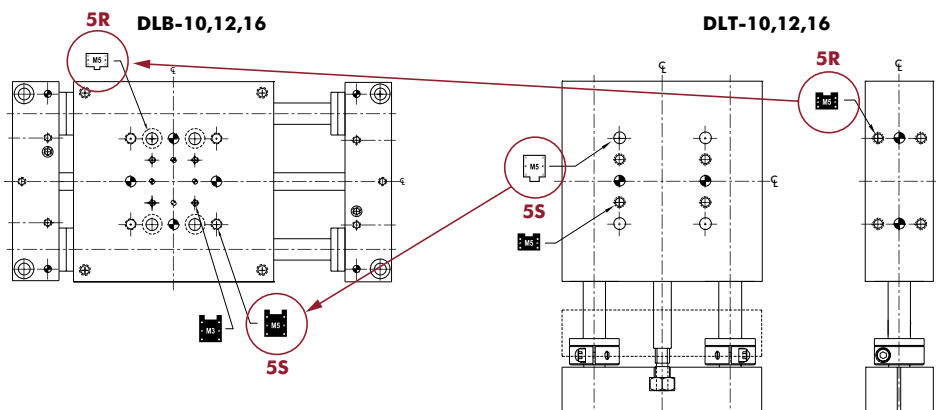
DIRECTCONNECT Modular Compatibility Example:

Shown below, a DLB-10,12,16 Base Slide connecting to a DLT-10,12,16 Linear Thruster. Units may connect on different faces of the unit. Please refer to individual datasheets for DIRECTCONNECT mounting surfaces.



DirectConnect Mounting Surface Example:

Locate matching DIRECTCONNECT mounting pattern icons on the products dimensional drawings to determine what surface faces can be connected to. Corresponding mates equal a DIRECTCONNECT connection.



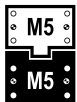
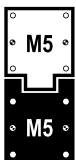
DIRECTCONNECT™ MODULAR COMPATIBILITY CHART

Grippers/Slides/Rotaries | Product Overview

DESTACO's modular automation systems feature DirectConnect™ technology, allowing all components of the system—base slides, block thrusters, thruster slides, grippers, and rotaries—to be mounted together quickly & easily without any adapter plates. Look for matching icons on product datasheets for mounting compatibility.

Simply locate your first product along the horizontal axis of the top of chart, then locate the second product along the vertical axis on the left side of the chart. If a connection can be made, a mounting pattern will be shown.

Note: The numbers in the cell represent the metric screw size and basic mounting pattern. S=Square, R=Rectangle. ie; 5S = M5 Screw with square mounting pattern.



M5 (S)quare M5 (R)ectangle

Catalog Models		Base Slides		
		DLB-06&08	DLB-10,12&16	DLB-20&25
Base Slides	DLB-06 & 08			
	DLB-10, 12 & 16			
	DLB-20 & 25			
Thruster Slides	DLT-06 & 08	3R,3S	3S	
	DLT-10, 12 & 16		5R,5S	5S
	DLT-20 & 25			10R,10S
	DLM-07	3R,3S	3S	
	DLM-9 & 12		5R,5S	5S
Rotary Actuators	DRF-075 & 094		5R	
	DRF-106		5R	10R
	DRF-131		5R	10R
	DRG-074 & 094		5R	
	DRG-106		5R	10R
	DRG-131		5R	10R
Grippers	DGC		5R	
	DPG		5R	
	DCT-12, 16 & 25	3R		
	DCT-25		5R	
	DPDL-047 & 056	3R		
	DPDL-088 & 125		5R	
	DPDL-175 & 250			10R
	DPDS-047 & 056	3R		
	DPDS-088 & 125		5R	
	DPDS-175 & 250			10R
	DPL-25xx		5R	
	DPL-32xx & 40xx			10R
	DPP-10 & 14	3R		
	DPP-20		5R	
	DPP-28		5R	10R
	DPW-250	3R		
	DPW-375 & 500		5R	
	G110-08 & 011	3R		
	G110-18 & 25		5R	
	DPE-200		5R	
DPE-400			10R	

DIRECTCONNECT™ MODULAR COMPATIBILITY CHART

Grippers/Slides/Rotaries | Product Overview

Thruster Slides					Rotary Actuators		
DLT-06&08	DLT-10,12&16	DLT-20&25	DLM-07	DLM-09&12	DRF-075&094	DRF-106	DRF-131
3R,3S			3R,3S				
3S	5R,5S		3S	5R,5S	5R	5R	5R
	5S	10R,10S		5S		10R	10R
3R	3R		3R	3R	3R,3S	3R,3S	
	5R	5R		5R	5R,5S	5R,5S	5R,5S
		10R					10R,10S
3R	3R		3R	3R	3R,3S	3R,3S	
	5R	5R		5R	5R,5S	5R,5S	5R,5S
	5R	5R		5R	5R	5R	5R
	5R	10R		5R	5R	5R	10R
	5R	10R		5R	5R	5R	10R
	5R	5R		5R	5R	5R	5R
	5R	10R		5R	5R	5R	10R
	5R	10R		5R	5R	5R	10R
	5R	5R		5R	5R	5R	5R
	5R	5R		5R	5R	5R	5R
3R	3R		3R	3R	3R	3R	
	5R	5R		5R	5R	5R	5R
3R	3R		3R	3R	3R	3R	
	5R	5R		5R	5R	5R	5R
		10R					10R
3R	3R		3R	3R	3R	3R	
	5R	5R		5R	5R	5R	5R
		10R					10R
	5R	5R		5R	5R	5R	5R
		10R					10R
3R	3R		3R	3R	3R	3R	
	5R	5R		5R	5R	5R	5R
	5R	10R		5R	5R	5R	10R
3R	3R		3R	3R	3R	3R	
	5R	5R		5R	5R	5R	5R
3R	3R		3R	3R	3R	3R	
	5R	5R		5R	5R	5R	5R
	5R	5R		5R	5R	5R	5R
		10R					10R

PRECISION INDEXING SOLUTIONS

Features and Benefits

The **CAMCO RDM Series** is a line of cam-operated rotary index drives, designed to move a wide array of products and components smoothly and with precision. Preloaded for no backlash, they have the capacity for handling high loads and speeds with controlled acceleration and deceleration for repeatable, accurate positioning.

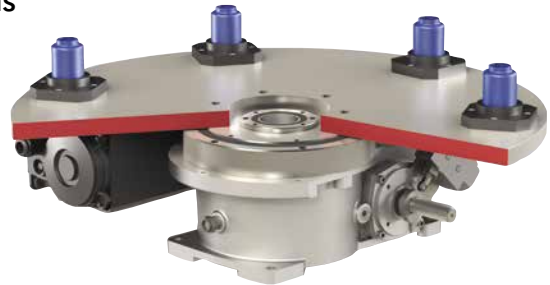
- High precision, hardened cams available in standard and special motions
- Superior accuracy at the working radius when compared to a traditional indexer
- Sealed 4-point contact output bearing and large cam followers for superior accuracy and load capacity
- 60 Station capacity, ideal for multi-part automatic assembly machines
- Center through hole accommodates machine utilities
- Servo-driven solutions available for complex or variable indexing profiles
- Optional Output Overload Clutch available



Application Examples

Cycle on Demand Indexer with Fixed Number of Stations

- RDM indexer with user controlled variable dwell time
- Single index cycle with user controlled variable dwell time
- Index time is controlled by varying frequency setting of inverter drive
- 60 or 30 indexing cycles per minute using an AC or DC motor and drive respectively
- Increased productivity cycle rates with an Output Clutch-Brake option



Cambot Flexible Pick and Place Solutions

- Servo driven indexer supporting high moment capacity payloads
- Large output flange for mounting a custom end-effector solution
- Integrate Destaco's versatile grippers, slides and vacuum products for pick and place actuation



RDM SERIES

Rotary Index Drive | How To Order

Base Model*		Option Tables Page #	Index Mounting (See Figure 1)	Reducer/Motor (Table 1)	Reducer Mounting (See Figure 2)	Cycling Sensor (See Figure 3)	Description
Imperial	Metric						
N/A	80RDM	5	1	Reducer/Motor (Table 1) Note: Set Reducer Mounting option to 0 when Reducer/Motor option is 0000.	0 = No Reducer	0 = No Sensors	
601RDM	M601RDM	11	2		A J	A	Single Cam w/PNP Prox
902RDM	M902RDM	17	3		B K	B	Single Cam w/NPN Prox
N/A	1100RDM	23	4		C L	C	Dual Cam w/PNP Prox
1305RDM	M1305RDM	29	5		D M	D	Dual Cam w/NPN Prox
1800RDM	M1800RDM	35	6		E N	E	Single Cam/Prox Bracket
				F P	F	Dual Cam/Prox Bracket	
				G R	G	Single Cam, w/Mech LS	
				H S	H	Dual Cam, w/Mech LS	

*Right Hand Cam only

601RDM - **C** - **T** - **P** - **RM2E** - **000** - **C** - **L** - **A** - **40EA** - **A02**

Motion	Description
A	2-Stop-330
B	3-Stop-330
C	4-Stop-270
D	4-Stop-330
E	6-Stop-270
F	6-Stop-330
G	8-Stop-270
H	8-Stop-330
I	12-Stop-270
J	12-Stop-330
K	16-Stop-270
L	16-Stop-330
M	8:1 Constant-Lead
N	12:1 Constant-Lead
P	16:1 Constant-Lead
R*	24:1 Constant-Lead

Center Post	Code	Description
All Sizes	0	No Reducer
	P	Center Post
902 1100 1305	T	Tool Plate Mounting Holes
	B	Center Post + Tool Plate Mounting Holes



Motor Brake Settings
(Table 2)

Reducer Gear Ratio
(Table 3)

Output Clutch
(Table 4)

Motor Control
(Table 5)



*Models 601, 902, 1100 only.

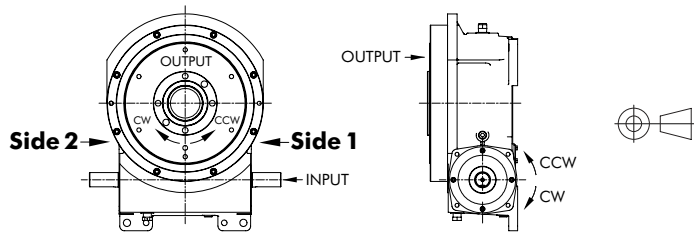
Input Shaft Configuration/Rotation

Relative Rotation for Right Hand Cam:

Side 1: CW Input, CCW Output

Side 2: CCW input, CW Output

NOTE: Input can be driven in either direction. Reducer, Motor and adapter plates can be mounted on either side 1 or side 2 to drive input.



Index Mounting (Figure 1)

OVOI (output vertical, over input)	OVUI (output vertical, under input)	OHOI (output horizontal, over input)	OHUI (output horizontal, under input)	H-S1-UP (output horizontal, side 1 up)	H-S2-UP (output horizontal, side 2 up)
1	2	3	4	5	6

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

Gear Reducer Mounting Positions (Figure 2)

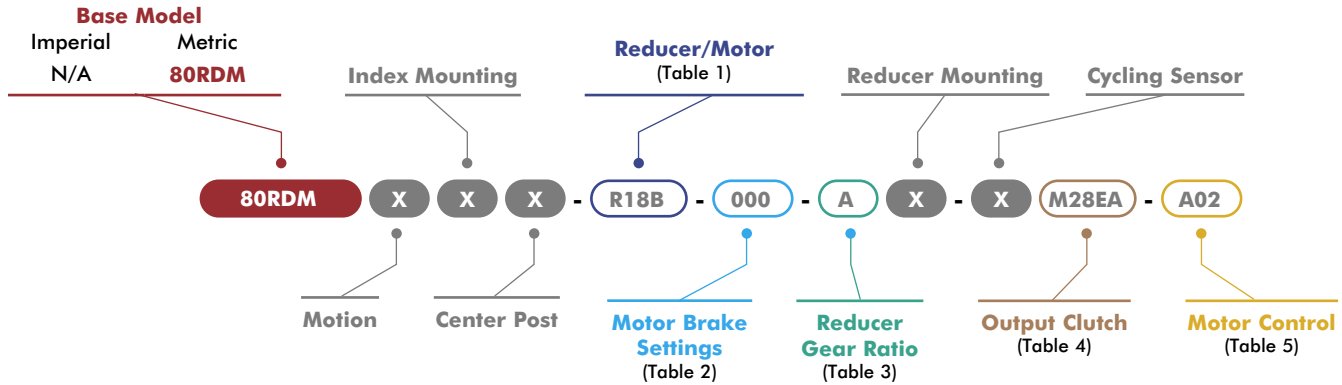
		Mounting "A"		Mounting "B"	
		Right Hand	Left Hand	Right Hand	Left Hand
SIDE 1					
SIDE 2					

Cycling Sensor Options (Figure 3)

Single Cam with (A) PNP or (B) NPN Proximity Sensor	Dual Cam with (A) PNP or (B) NPN Proximity Sensor	Single Cam with Proximity Sensor Bracket	Dual Cam with Proximity Sensor Bracket	Single Cam with Mechanical Limit Switch	Dual Cam with Mechanical Limit Switch

80RDM SERIES

Rotary Index Drive | How To Order



X = See Page 3 for option information.

1 Reducer/Motor Options

Code	Description
0000	No Reducer or Motor*
R180 Motors	
R18X	R180 Adapter only*
R18A	R180 Reducer
R18B	R180 Reducer with 0.33HP 230/460V AC Motor
R18C	R180 Reducer with 0.33HP 90V DC Motor
R18D	R180 Reducer with 0.33HP 180V DC Motor
STM RMI-28/40 Motors	
RM1A	RMI-28 Adapter only*
RM1B	STM RMI-28/LFB/IEC56-B14 Reducer
RM1C	STM RMI-28/LFB with 0.09kW Motor
RM2A	RMI-40 Adapter only*
RM2B	STM RMI-40/LFB/IEC63-B14 Reducer
RM2C	STM RMI-40/LFB/IEC71-B14 Reducer
RM2D	STM RMI-40/LFB with 0.18kW Motor
RM2E	STM RMI-40/LFB with 0.25kW Motor

*All Reducer/Motor adapters require Gear Ratio option to be 0.

2 Motor Brake

Code	Description
000	No Brake

3 Reducer Gear Ratios*

Code	Description	
	R180	STM RMI-28/40
0	N/A	N/A
A	10:1	10:1
B	15:1	15:1
C	20:1	20:1
D	25:1	28:1
E	30:1	40:1
F	40:1	49:1
G	50:1	56:1
H	60:1	70:1

*All Reducer/Motor adapters require Gear Ratio option to be 0.
Select Gear ratio column based on the reducer type selected.

4 Output Clutch & Settings

80RDM Metric Clutch Models	
Code	Description
0000	No Output Overload Clutch
M28DA	M2.8D W/54 Nm, Standard*
M28DB	M2.8D W/96 Nm, Standard*
M28DC	M2.8D W/147 Nm, Standard*
M28DD	M2.8D W/249 Nm, Standard*
M28DE	M2.8D W/350 Nm, Standard*
M28DF	M2.8D W/45 Nm, Standard*
M28DG	M2.8D W/79 Nm, Standard*
M28DH	M2.8D W/124 Nm, Standard*
M28DJ	M2.8D W/203 Nm, Standard*
M28DK	M2.8D W/54 Nm, Thru-Hole
M28DL	M2.8D W/96 Nm, Thru-Hole
M28DM	M2.8D W/147 Nm, Thru-Hole
M28DN	M2.8D W/249 Nm, Thru-Hole
M28DP	M2.8D W/350 Nm, Thru-Hole
M28DQ	M2.8D W/45 Nm, Thru-Hole
M28DR	M2.8D W/79 Nm, Thru-Hole
M28DS	M2.8D W/124 Nm, Thru-Hole
M28DT	M2.8D W/203 Nm, Thru-Hole
M28EA	M2.8D W/54 Nm, Standard, EZ*
M28EB	M2.8D W/96 Nm, Standard, EZ*
M28EC	M2.8D W/147 Nm, Standard, EZ*
M28ED	M2.8D W/249 Nm, Standard, EZ*
M28EE	M2.8D W/350 Nm, Standard, EZ*
M28EF	M2.8D W/45 Nm, Standard, EZ*
M28EG	M2.8D W/79 Nm, Standard, EZ*
M28EH	M2.8D W/124 Nm, Standard, EZ*
M28EJ	M2.8D W/203 Nm, Standard, EZ*
M28EK	M2.8D W/54 Nm, Thru-Hole, EZ
M28EL	M2.8D W/96 Nm, Thru-Hole, EZ
M28EM	M2.8D W/147 Nm, Thru-Hole, EZ
M28EN	M2.8D W/249 Nm, Thru-Hole, EZ
M28EP	M2.8D W/350 Nm, Thru-Hole, EZ
M28EQ	M2.8D W/45 Nm, Thru-Hole, EZ
M28ER	M2.8D W/79 Nm, Thru-Hole, EZ
M28ES	M2.8D W/124 Nm, Thru-Hole, EZ
M28ET	M2.8D W/203 Nm, Thru-Hole, EZ

*Cannot be used with center post option P

5 Motor Control

Code	Description
000	NO MOTOR CONTROL
A01	(AC) PowerFlex 523 1HP 120V 1Ph
A02	(AC) PowerFlex 523 1HP 240V 1Ph
A03	(AC) PowerFlex 523 1HP 480V 3Ph
A04	(AC) PowerFlex 525 1HP 120V 1Ph
A05	(AC) PowerFlex 525 1HP 240V 1Ph
A06	(AC) PowerFlex 525 1HP 480V 3Ph
D01	(DC) Varipak 1HP 90VDC Uni-Directional
D02	(DC) Varipak 1HP 90VDC Bi-Directional
D03	(DC) Varipak 2HP 180VDC Uni-Directional
D04	(DC) Varipak 2HP 180VDC Bi-Directional

Maximum Inertia x 1000 kg-cm ² [lb-in ²] for standard package							
Stops	Motion Time [seconds]						
	0.458	0.611	0.764	0.917	1.222	1.528	1.833
2	0 [0]	3 [1]	6 [2]	15 [5]	29 [10]	47 [16]	67 [23]
3	3 [1]	9 [3]	20 [7]	32 [11]	61 [21]	94 [32]	138 [47]
4	6 [2]	18 [6]	38 [13]	67 [23]	135[46]	217 [74]	304 [104]
6	15 [5]	38 [13]	82 [28]	126 [43]	246 [84]	401 [137]	559 [191]
8	20 [7]	44 [15]	73 [25]	114 [39]	222 [76]	372 [127]	559 [191]
12	50 [17]	99 [34]	167 [57]	258 [88]	497 [170]	559 [191]	559 [191]
16	47 [16]	91 [31]	152 [52]	231 [79]	448 [153]	559 [191]	559 [191]
Reducer Ratio							
	15	20	25	30	40	50	60

Contact your DESTACO sales representative for more information.

Features

- R180 Reducer (Ratios from 15:1 to 60:1)
 - Double Extended Worm Shaft (Input)
 - Worm Shaft Handwheel
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (Ø70 mm [Ø2.76 in.])
- 1/3 HP AC Drive Package with Inverter Duty Motor and IM-pAC AC Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam
- Universal Mounting Capability

Output Load Capacity (loads carried during index):

Radial	3358 N [755 lbs]
Thrust/Axial	8385 N [1885 lbs]
Moment	213 N-m [1885 in-lb]

Typical Application Dial Diameter:

203 mm [8 in] to 711 mm [28 in]

Accuracy

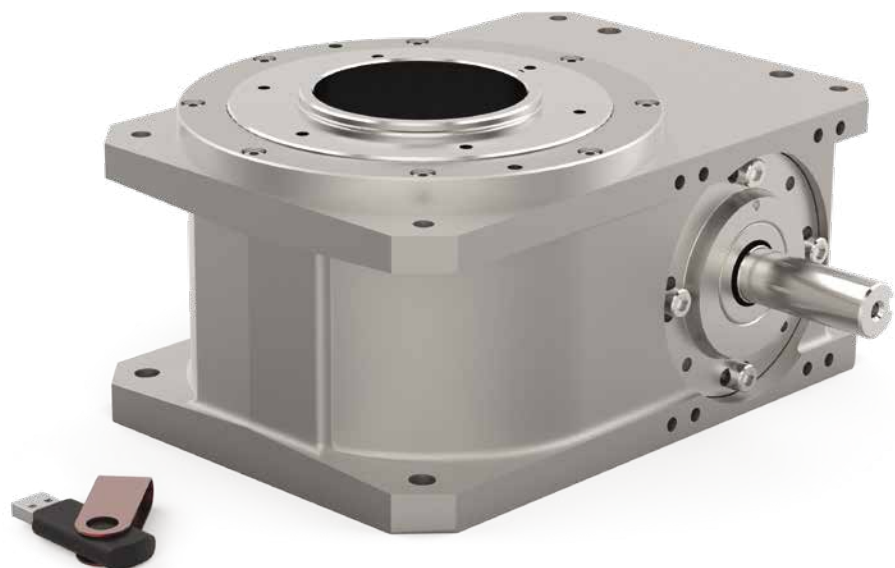
±44 arcsec / ±0,08 mm [±.003in] at 355,6 mm [14in] Radius

Repeatability

±11 arcsec / ±0,018 mm [±.0007in] at 355,6 mm [14in] Radius

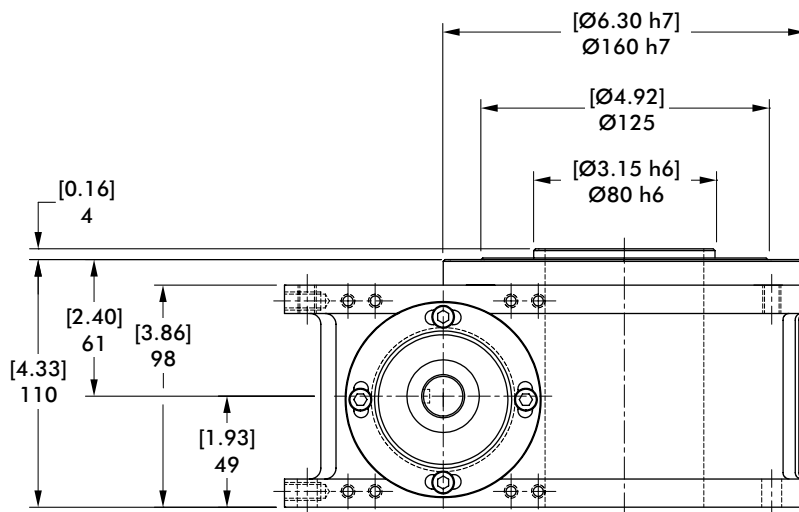
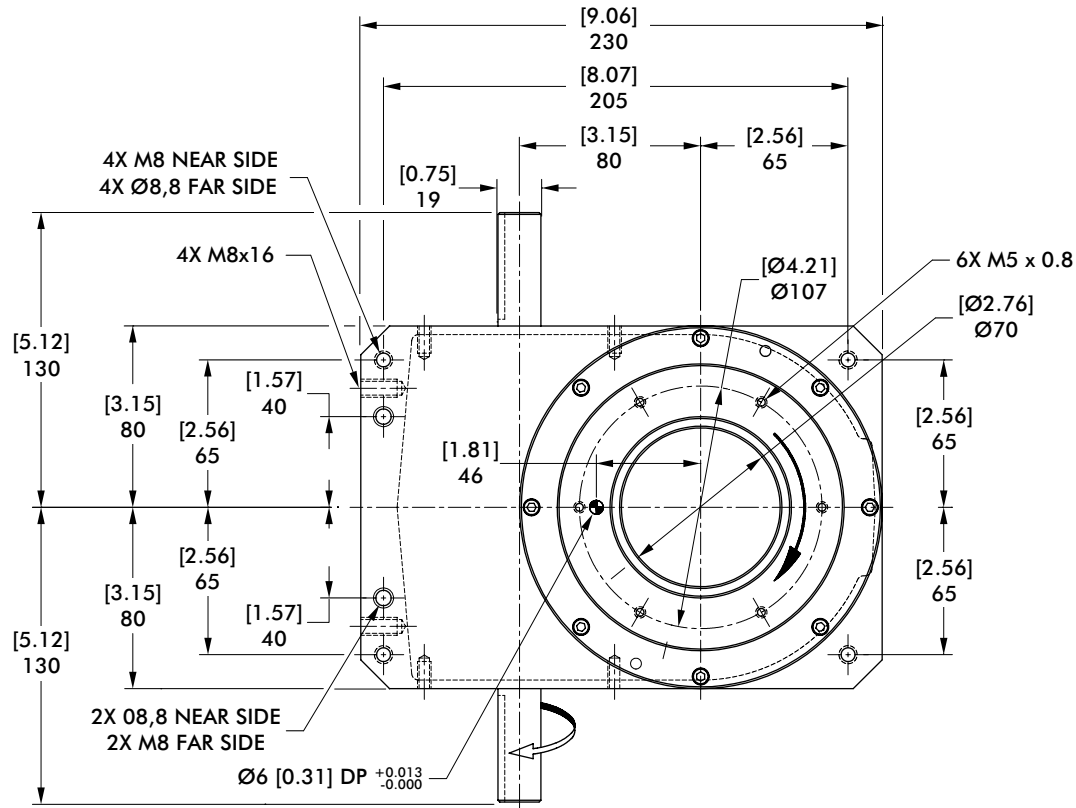
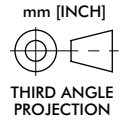
Optional Accessories

- 1/3 HP DC Motor
- Varipak DC Motor Control (up to 30 cpm)
- Output Mechanical Overload Clutch
 - See Page 9
- EZ Mount Dial Adapter
- Stationary Center Post
- Dual Cam and Limit Switch
- Electric Clutch-Brake
- Left Hand Cam



8ORDM SERIES

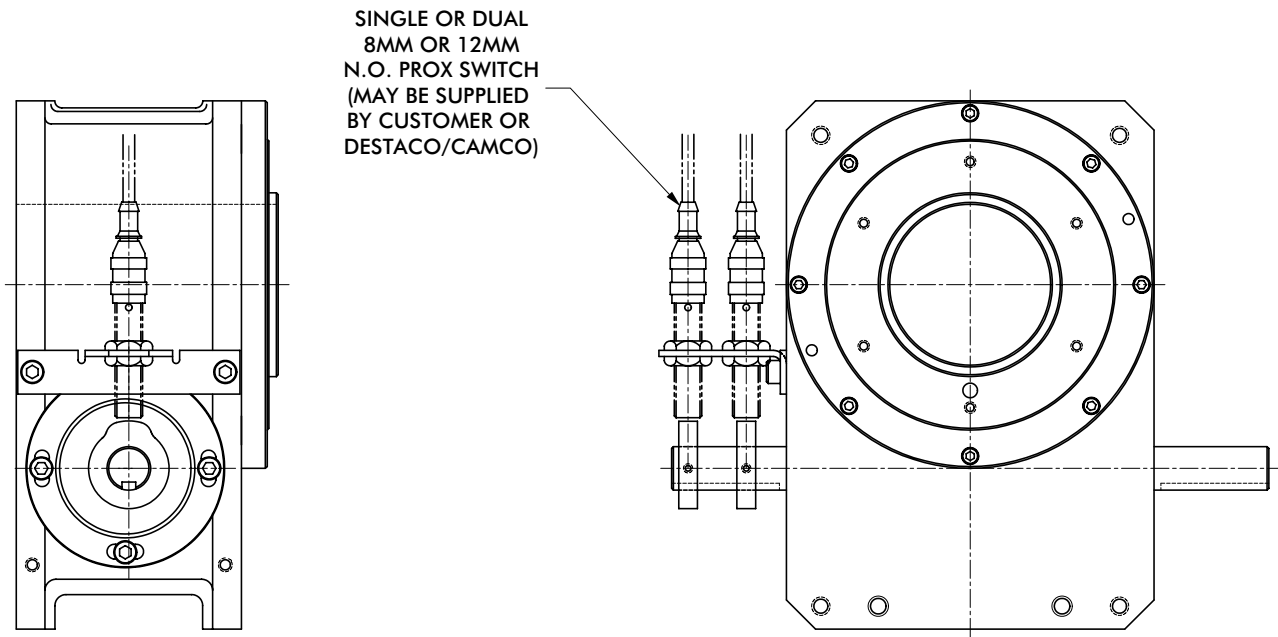
Rotary Index Drive | Dimensions

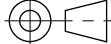


8ORDM SERIES

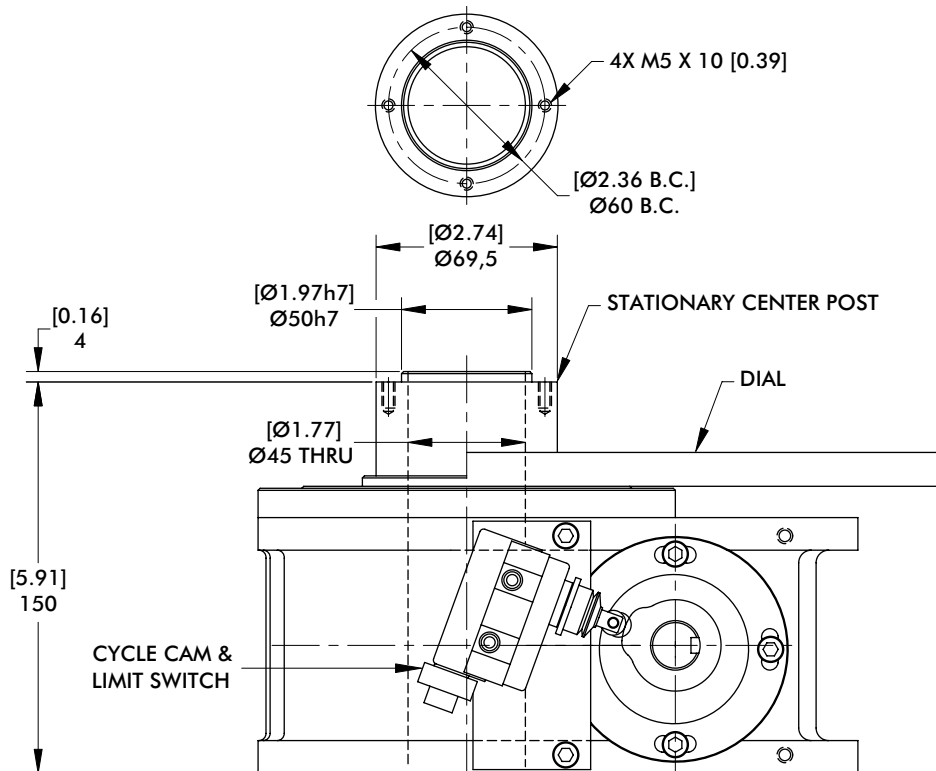
Rotary Index Drive | Product Overview | Technical Specifications

Proximity Switch



mm [INCH]

 THIRD ANGLE
 PROJECTION

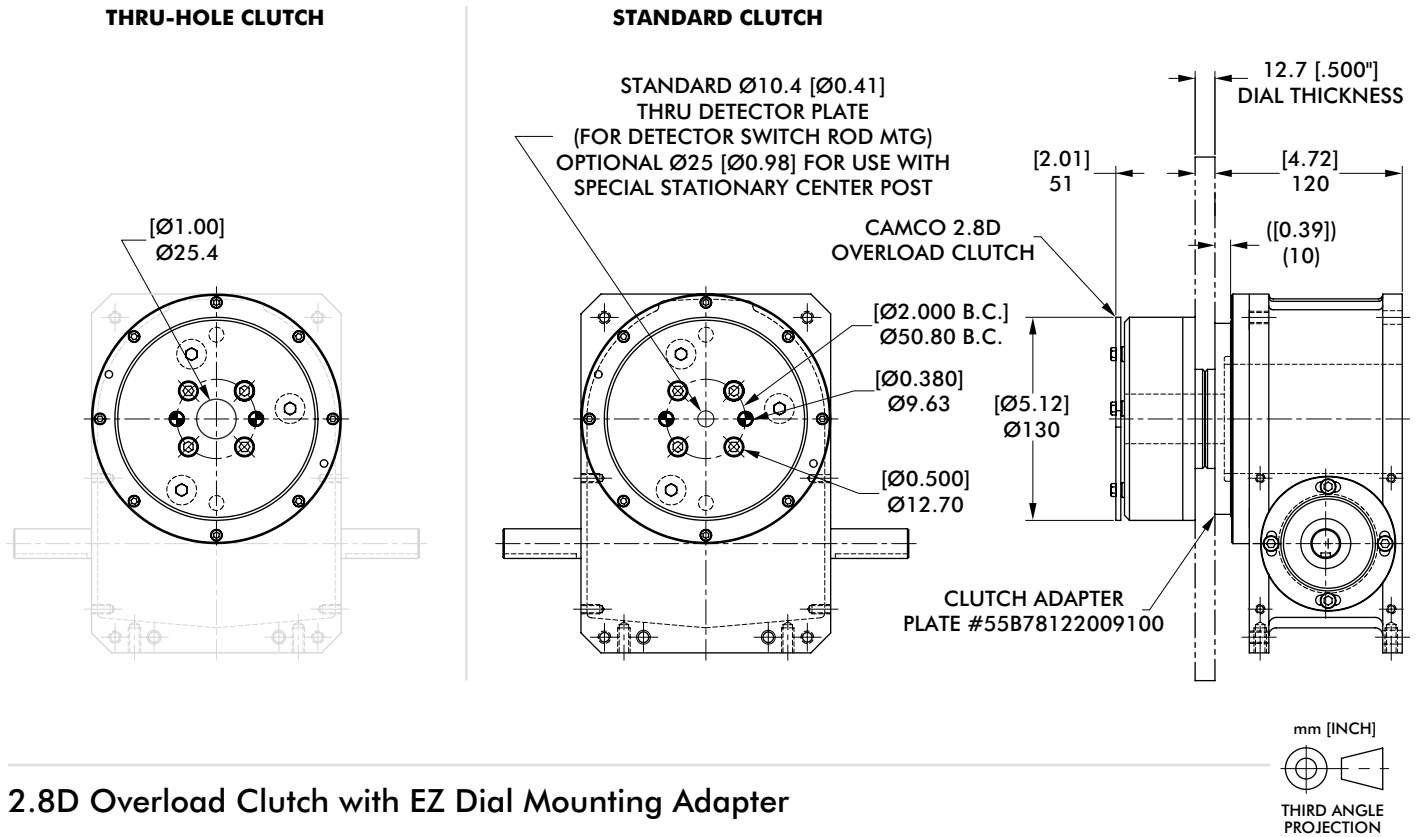
Center Post



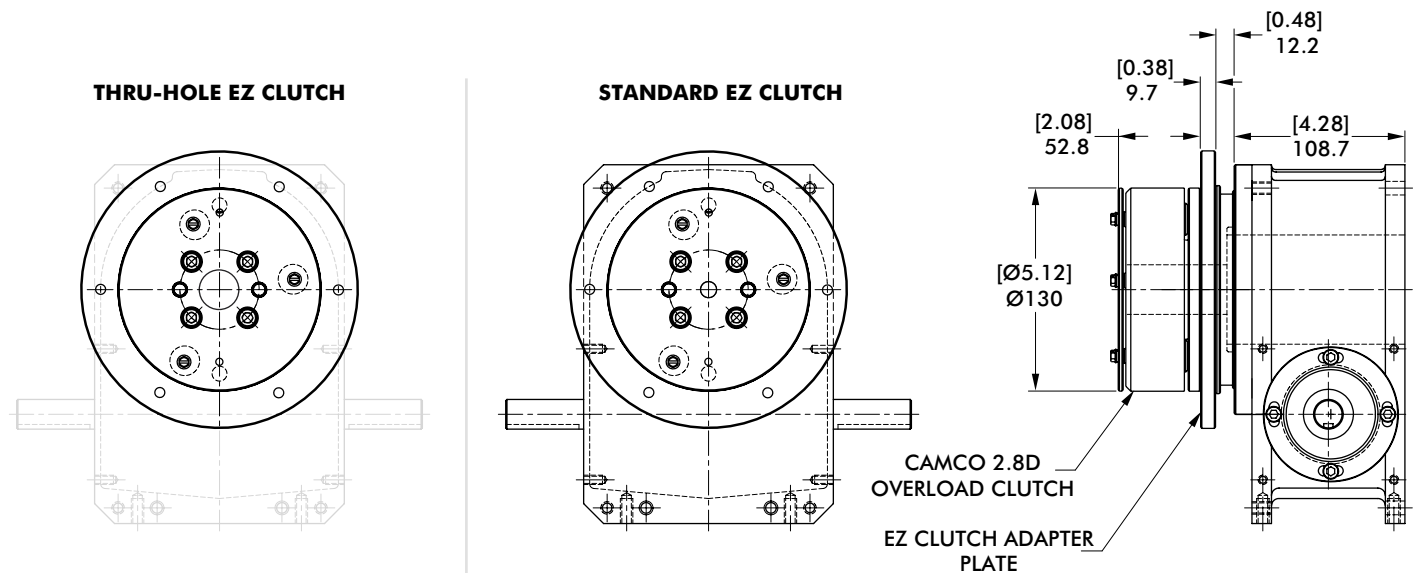
8ORDM SERIES

Rotary Index Drive | Dimensions

2.8D Overload Clutch



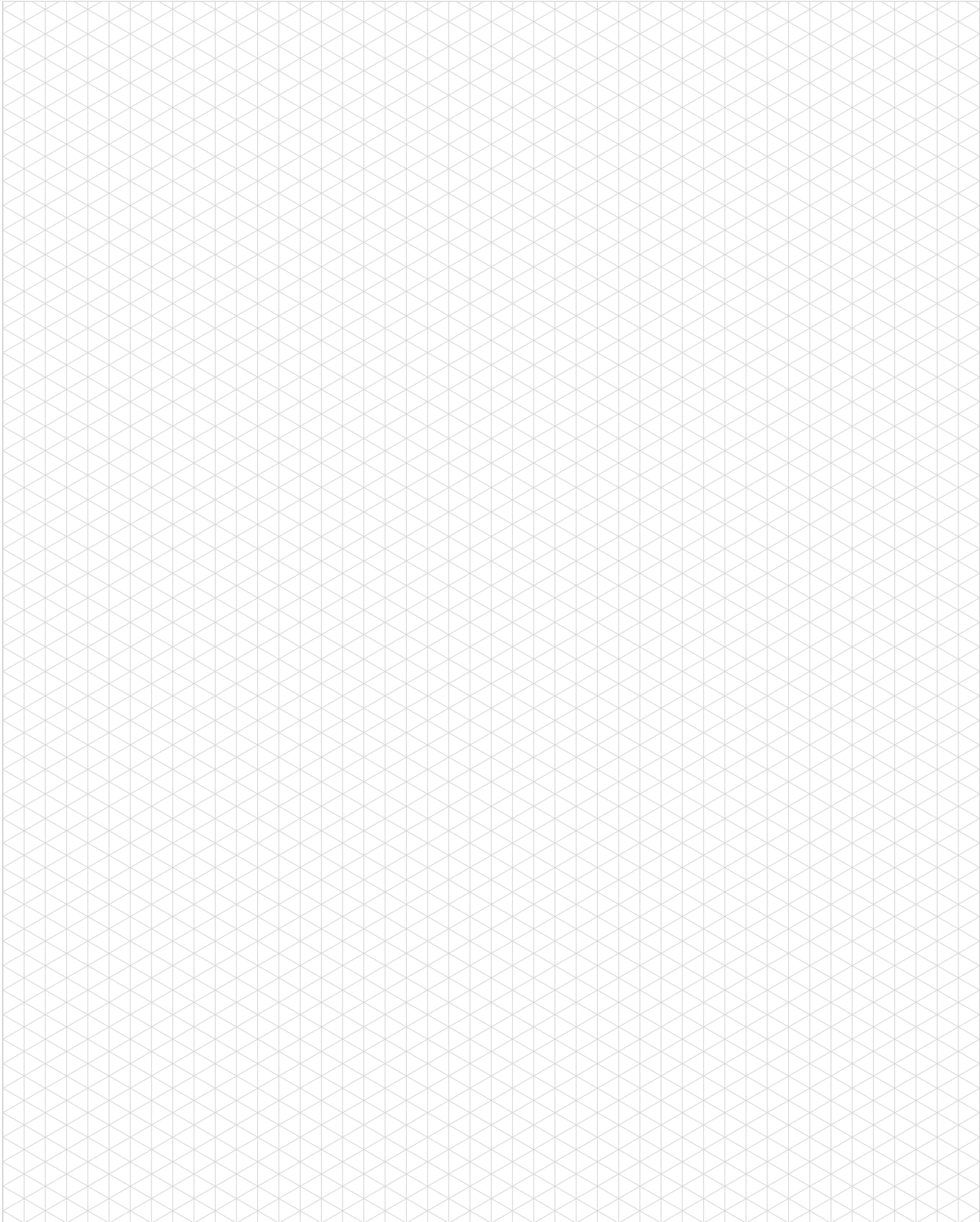
2.8D Overload Clutch with EZ Dial Mounting Adapter



Model	Internal Inertia kg-m ² [lb-in ²]	Torque Setting N-m [in-lb]
2.8D	0,0085 [29]	45, 54, 79, 96, 124, 147, 203, 249, 350 [400, 480, 700, 850, 1100, 1300, 1800, 2200, 3100]

80RDM SERIES

Notes



Maximum Inertia x 1000 kg-cm ² [lb-in ²] for standard package							
Stops	Motion Time [seconds]						
	0.458	0.611	0.764	0.917	1.222	1.528	1.833
2	0 [0]	3 [1]	6 [2]	15 [5]	32 [11]	50 [17]	70 [24]
3	3 [1]	9 [3]	20 [7]	35 [12]	82 [28]	123 [42]	170 [58]
4	6 [2]	18 [6]	38 [13]	67 [23]	152 [52]	228 [78]	310 [106]
6	15 [5]	41 [14]	82 [28]	149 [51]	328 [112]	492 [168]	667 [228]
8	29 [10]	73 [25]	149 [51]	263 [90]	582 [199]	875 [299]	1188 [406]
12	64 [22]	167 [57]	337 [115]	597 [204]	1314 [449]	1399 [478]	1399 [478]
16	117 [40]	296 [101]	600 [205]	1056 [361]	1399 [478]	1399 [478]	1399 [478]
Reducer Ratio							
	15	20	25	30	40	50	60

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

Features

- R180 Reducer (Ratios from 15:1 to 60:1)
 - Double Extended Worm Shaft (Input)
 - Worm Shaft Handwheel
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (Ø44,45 [Ø1.75 in.])
- 1/3 HP AC Drive Package with Inverter Duty Motor and IM-pAC AC Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Output Load Capacity (loads carried during index):

Radial	4204 N [945 lbs]
Thrust/Axial	10498 N [2360 lbs]
Moment	373 N-m [3305 in-lb]

Typical Application Dial Diameter:

305 mm [12 in] to 914 mm [36 in]

Accuracy

±39 arcsec / ±0,08 mm [±.003in]
at 457,2 mm [18in] Radius

Repeatability

±10 arcsec / ±0,023 mm [±.0009in]
at 457,2 mm [18in] Radius

Optional Accessories

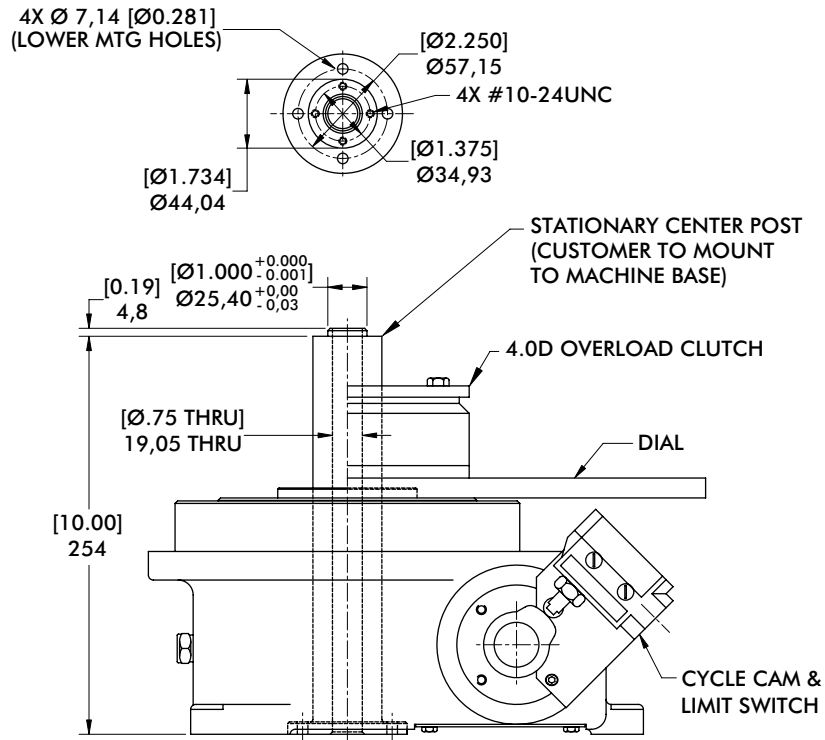
- 1/3 hp DC Motor
- Varipak DC Motor Control (up to 30 cpm)
- Output Mechanical Overload Clutch
 - See Page 15
- EZ Mount Dial Adapter
- Stationary Center Post
- Dual Cam and Limit Switch
- Relief in Dwell for shot-pin applications
- Left Hand Cam



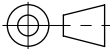
601RDM SERIES

Rotary Index Drive | Dimensions

Proximity Switch

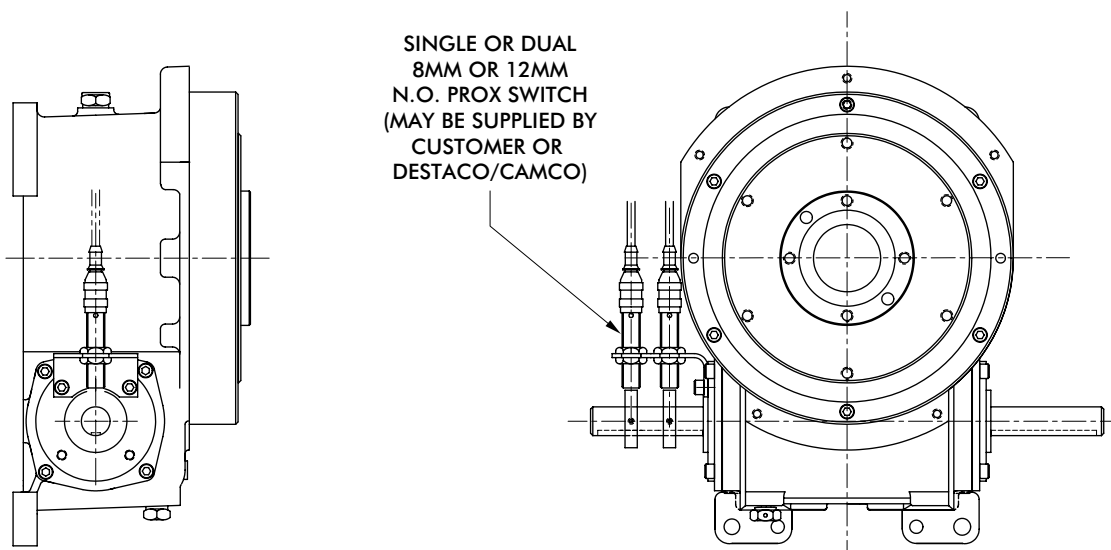


mm [INCH]



THIRD ANGLE
PROJECTION

Center Post

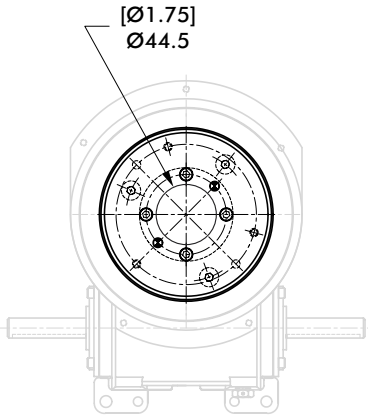


601RDM SERIES

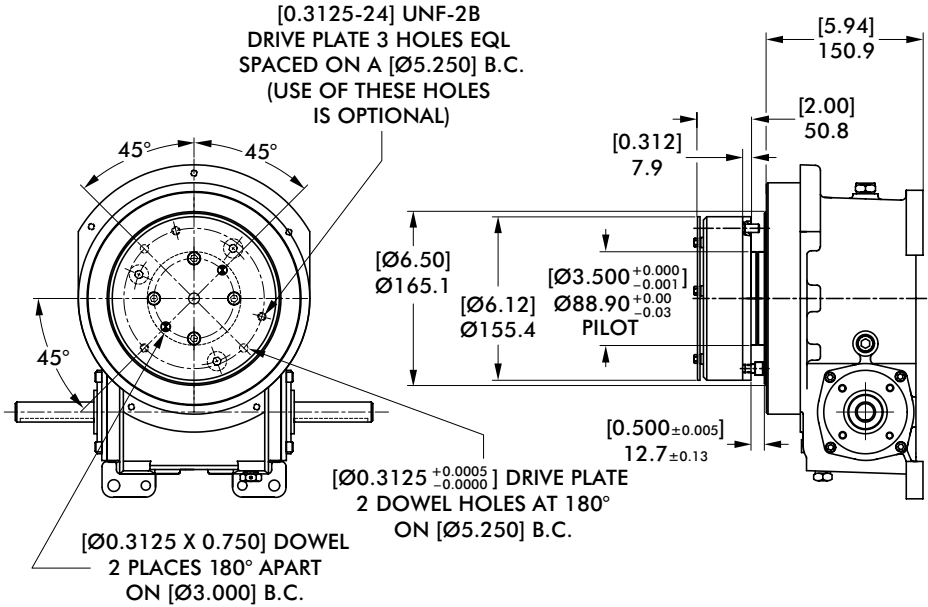
Rotary Index Drive | Dimensions

4.0D Overload Clutch

THRU-HOLE CLUTCH



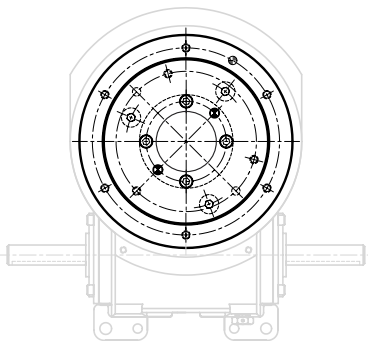
STANDARD CLUTCH



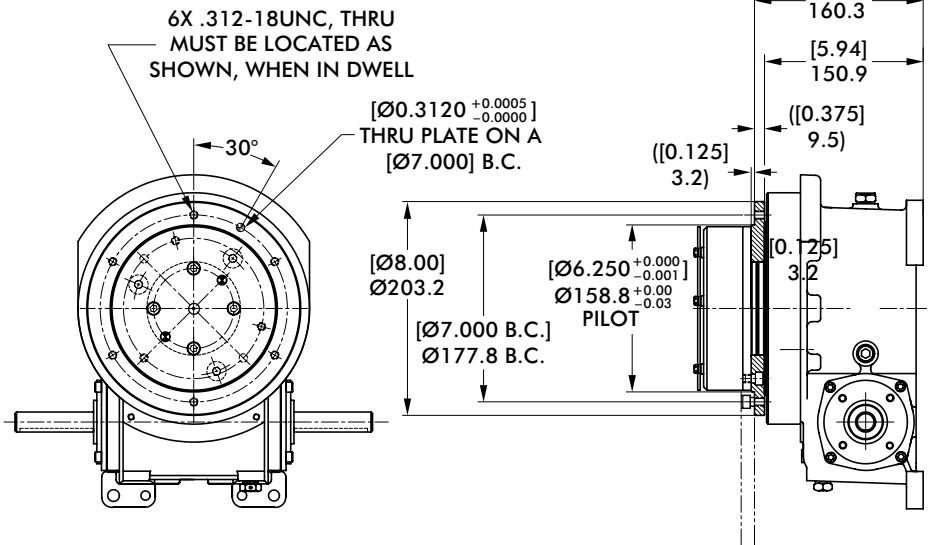
mm [INCH]
THIRD ANGLE
PROJECTION

4.0D Overload Clutch with EZ Dial Mounting Adapter

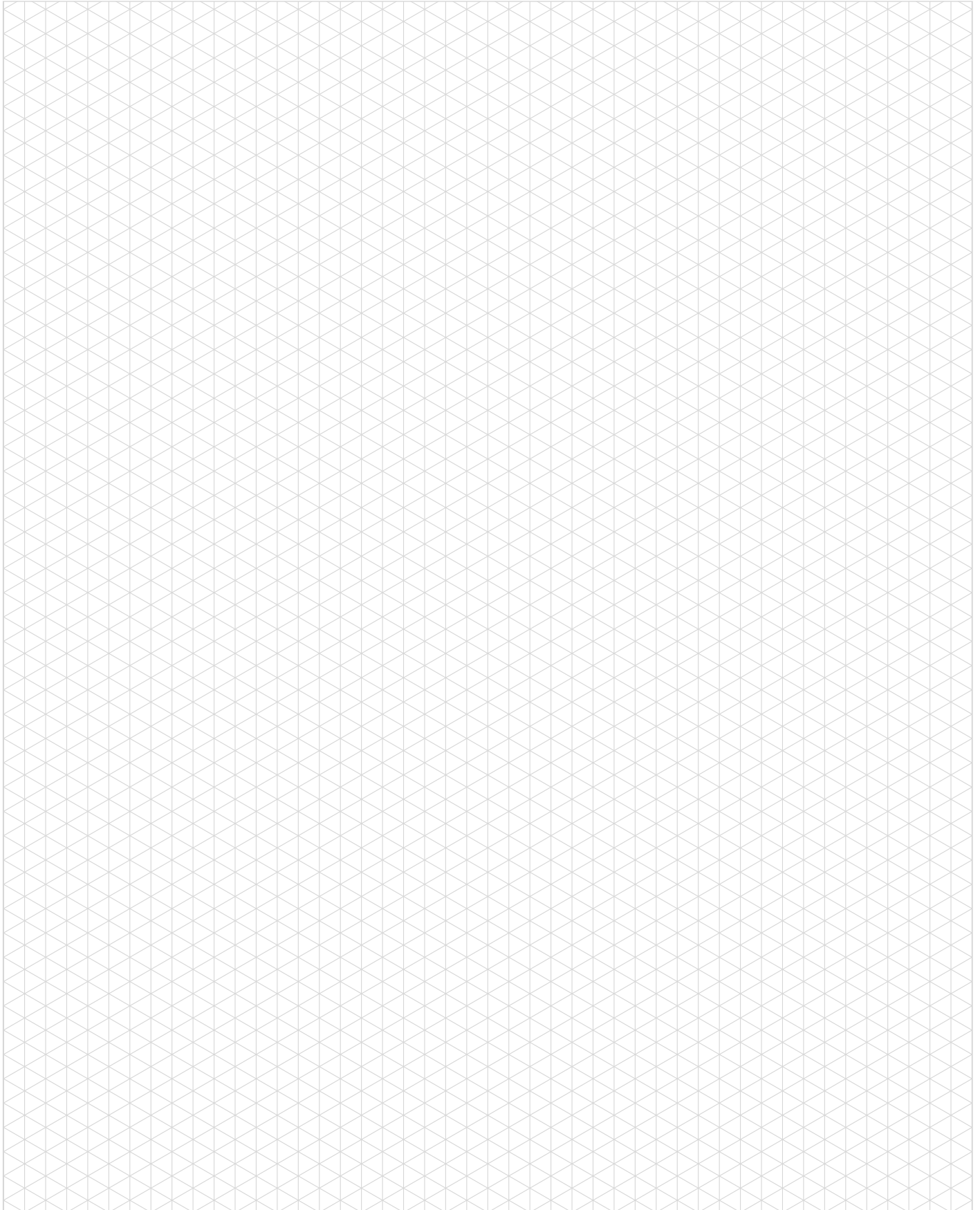
THRU-HOLE EZ CLUTCH



STANDARD EZ CLUTCH

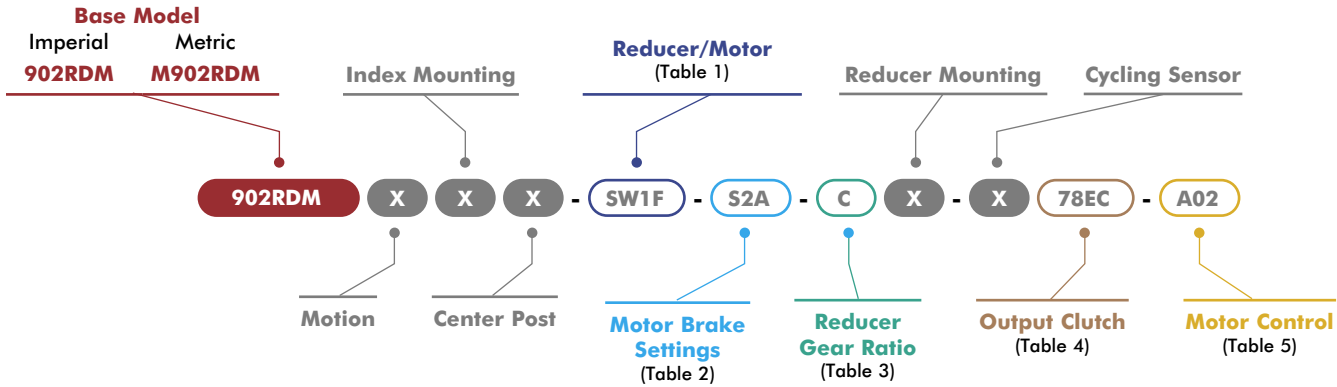


Model	Internal Inertia kg-m ² [lb-in ²]	Torque Setting N-m [in-lb]
4.0D	0,0202 [69]	47, 70, 85, 130, 198, 333, 452 [420, 620, 750, 1150, 1750, 2950, 4000]



902RDM SERIES

Rotary Index Drive | How To Order



X = See Page 3 for option information.

1 Reducer/Motor Options

Code	Description
0000	No Reducer or Motor*
R225 Motors	
R2XX	R225 Adapter only*
R2SA	R225 Reducer 56 ADAPTER & CPLG, Single Extended Worm
R2SB	R225 Reducer 145TC ADAPTER & CPLG, Single Extended Worm (No Motor)
R2SC	R225 Reducer with 0.5HP 56C 230/460V AC Motor, Single Extended Worm
R2SD	R225 Reducer with 1.0HP 56C 230/460V AC Motor, Single Extended Worm
R2SE	R225 Reducer with 1.0HP 56C 90V DC Motor, Single Extended Worm
R2SF	R225 Reducer with 1.0HP 56C 180V DC Motor, Single Extended Worm
R2DA	R225 Reducer 56 ADAPTER & CPLG, Double Extended Worm
R2DB	R225 Reducer 145TC ADAPTER & CPLG, Double Extended Worm (No Motor)
R2DC	R225 Reducer with 0.5HP 56C 230/460V AC Motor, Double Extended Worm
R2DD	R225 Reducer with 1.0HP 56C 230/460V AC Motor, Double Extended Worm
R2DE	R225 Reducer with 1.0HP 56C 90V DC Motor, Double Extended Worm
R2DF	R225 Reducer with 1.0HP 56C 180V DC Motor, Double Extended Worm
SEW KH37 Motors	
SW1E	KH37 Adapter only*
SW1F	SEW KH37DRN80M4/.75Kw Motor/Brake Motor (60Hz, 230/460V)
SW1G	SEW KH37DRN80M4/.75Kw Motor/Brake Motor (50Hz, 400V)
SW1H	SEW KH37DRN80M4/.75Kw Motor/Brake Motor (60Hz, 575V)
SW1J	SEW KH37DRN90L4/1.5Kw Motor/Brake Motor (60Hz, 230/460V)
SW1K	SEW KH37DRN90L4/1.5Kw Motor/Brake Motor (50Hz, 400V)
SW1L	SEW KH37DRN90L4/1.5Kw Motor/Brake Motor (60Hz, 575V)
STM RMI-63/70 Motors	
RM4A	STM RMI-63 Adapter only*
RM4B	STM RMI-63 IEC80-B14 Reducer
RM4C	STM RMI-63 IEC90-B14 Reducer
RM4D	STM RMI-63 Reducer with .75kW Motor
RM4E	STM RMI-63 Reducer with 1.5kW Motor
RM5A	STM RMI-70 Adapter only*
RM5B	STM RMI-70 IEC80-B14 Reducer
RM5C	STM RMI-70 IEC90-B14 Reducer
RM5D	STM RMI-70 Reducer with .75kW Motor
RM5E	STM RMI-70 Reducer with 1.5kW Motor

*All Reducer/Motor adapters require Gear Ratio option to be 0.

2 Motor Brake*

Code	Description
000	No Brake
S1A	1.69 Nm (BE05)
S1B	2.49 Nm (BE05)
S1C	3.50 Nm (BE05)
S2A	4.97 Nm (BE1)
S2B	7.01 Nm (BE1)
S2C	9.94 Nm (BE1)
S3A	9.94 Nm (BE2)
S3B	14.01 Nm (BE2)
S3C	20.00 Nm (BE2)

*SEW Motor brake setting options only. All other motors use option code 000.

3 Reducer Gear Ratios*

Code	Description	R225	SEW KH37	STM RMI-63/70
0	N/A	N/A	N/A	N/A
A	10:1	10.49:1	10:1	
B	15:1	15.31:1	15:1	
C	20:1	20.19:1	20:1	
D	25:1	29.96:1	28:1	
E	30:1	37.97:1	40:1	
F	40:1	49.79:1	49:1	
G	50:1	58.60:1	56:1	
H	60:1	67.80:1	70:1	

*All Reducer/Motor adapters require Gear Ratio option to be 0. Select Gear ratio column based on the reducer type selected.

4 Output Clutch & Settings

902RDM Imperial Clutch Models		M902RDM Metric Clutch Models	
Code	Description	Code	Description
0000	No Output Overload Clutch	0000	No Output Overload Clutch
78DA	7.8D/3200 In-Lb, Standard*	M78DA	M7.8D/360 Nm, Standard*
78DB	7.8D/7200 In-Lb, Standard*	M78DB	M7.8D/815 Nm, Standard*
78DC	7.8D/10000 In-Lb, Standard*	M78DC	M7.8D/1130 Nm, Standard*
78DD	7.8D/1400 In-Lb, Standard*	M78DD	M7.8D/160 Nm, Standard*
78DE	7.8D/1700 In-Lb, Standard*	M78DE	M7.8D/192 Nm, Standard*
78DF	7.8D/2600 In-Lb, Standard*	M78DF	M7.8D/295 Nm, Standard*
78DG	7.8D/4200 In-Lb, Standard*	M78DG	M7.8D/475 Nm, Standard*
78DH	7.8D/5000 In-Lb, Standard*	M78DH	M7.8D/566 Nm, Standard*
78DJ	7.8D/3200 In-Lb, Thru-Hole	M78DJ	M7.8D/360 Nm, Thru-Hole
78DK	7.8D/7200 In-Lb, Thru-Hole	M78DK	M7.8D/815 Nm, Thru-Hole
78DL	7.8D/10000 In-Lb, Thru-Hole	M78DL	M7.8D/1130 Nm, Thru-Hole
78DM	7.8D/1400 In-Lb, Thru-Hole	M78DM	M7.8D/160 Nm, Thru-Hole
78DN	7.8D/1700 In-Lb, Thru-Hole	M78DN	M7.8D/192 Nm, Thru-Hole
78DP	7.8D/2600 In-Lb, Thru-Hole	M78DP	M7.8D/295 Nm, Thru-Hole
78DQ	7.8D/4200 In-Lb, Thru-Hole	M78DQ	M7.8D/475 Nm, Thru-Hole
78DR	7.8D/5000 In-Lb, Thru-Hole	M78DR	M7.8D/566 Nm, Thru-Hole
78EA	7.8D/3200 In-Lb, Standard, EZ*	M78EA	M7.8D/360 Nm, Standard, EZ*
78EB	7.8D/7200 In-Lb, Standard, EZ*	M78EB	M7.8D/815 Nm, Standard, EZ*
78EC	7.8D/10000 In-Lb, Standard, EZ*	M78EC	M7.8D/1130 Nm, Standard, EZ*
78ED	7.8D/1400 In-Lb, Standard, EZ*	M78ED	M7.8D/160 Nm, Standard, EZ*
78EE	7.8D/1700 In-Lb, Standard, EZ*	M78EE	M7.8D/192 Nm, Standard, EZ*
78EF	7.8D/2600 In-Lb, Standard, EZ*	M78EF	M7.8D/295 Nm, Standard, EZ*
78EG	7.8D/4200 In-Lb, Standard, EZ*	M78EG	M7.8D/475 Nm, Standard, EZ*
78EH	7.8D/5000 In-Lb, Standard, EZ*	M78EH	M7.8D/566 Nm, Standard, EZ*
78EJ	7.8D/3200 In-Lb, Thru-Hole, EZ	M78EJ	M7.8D/360 Nm, Thru-Hole, EZ
78EK	7.8D/7200 In-Lb, Thru-Hole, EZ	M78EK	M7.8D/815 Nm, Thru-Hole, EZ
78EL	7.8D/10000 In-Lb, Thru-Hole, EZ	M78EL	M7.8D/1130 Nm, Thru-Hole, EZ
78EM	7.8D/1400 In-Lb, Thru-Hole, EZ	M78EM	M7.8D/160 Nm, Thru-Hole, EZ
78EN	7.8D/1700 In-Lb, Thru-Hole, EZ	M78EN	M7.8D/192 Nm, Thru-Hole, EZ
78EP	7.8D/2600 In-Lb, Thru-Hole, EZ	M78EP	M7.8D/295 Nm, Thru-Hole, EZ
78EQ	7.8D/4200 In-Lb, Thru-Hole, EZ	M78EQ	M7.8D/475 Nm, Thru-Hole, EZ
78ER	7.8D/5000 In-Lb, Thru-Hole, EZ	M78ER	M7.8D/566 Nm, Thru-Hole, EZ

*Cannot be used with center post options P and B.

5 Motor Control

Code	Description
000	NO MOTOR CONTROL
A01	120V 1Ph
A02	(AC) PowerFlex 523 1HP
A03	240V 1Ph
A04	480V 3Ph
A05	120V 1Ph
A06	(AC) PowerFlex 525 1HP
A07	240V 1Ph
A08	480V 3Ph
A09	(AC) PowerFlex 523 2HP
A10	240V 3Ph
A11	(AC) PowerFlex 525 2HP
A12	480V 3Ph
D01	Uni-Directional
D02	(DC) Varipak 1HP 90VDC
D03	Bi-Directional
D04	(DC) Varipak 2HP 180VDC
D05	Uni-Directional
D06	Bi-Directional

Maximum Inertia x 1000 kg-cm ² [lb-in ²] for standard package							
Stops	Motion Time [seconds]						
	0.458	0.611	0.764	0.917	1.222	1.528	1.833
2	3 [1]	9 [3]	20 [7]	35 [12]	76 [26]	117 [40]	161 [55]
3	12 [4]	32 [11]	67 [23]	120 [41]	246 [84]	369 [126]	509 [174]
4	23 [8]	59 [20]	120 [41]	214 [73]	439 [150]	661 [226]	907 [310]
6	53 [18]	129 [44]	263 [90]	462 [158]	945 [323]	1419 [485]	1952 [667]
8	94 [32]	234 [80]	468 [160]	825 [282]	1683 [575]	2528 [864]	3474 [1187]
12	214 [73]	530 [181]	989 [338]	1425 [487]	2531 [865]	3956 [1352]	5701 [1948]
16	380 [130]	916 [313]	1481 [506]	2130 [728]	3790 [1295]	5923 [2024]	8528 [2914]
Reducer Ratio							
	15	20	25	30	40	50	60

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

Features

- R225 Reducer (Ratios from 15:1 to 60:1)
- Single Extended wormshaft (Standard)
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (Ø57,15 mm [Ø2.25 in.])
- 1 HP AC Drive Package with Inverter Duty Motor and IM-pAC AC Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Output Load Capacity (loads carried during index):

Radial	15747 N [3540 lbs]
Thrust/Axial	31138 N [7000 lbs]
Moment	2443 N-m [21620 in-lb]

Typical Application Dial Diameter:

508 mm [20 in] to 1219 mm [48 in]

Accuracy

±27 arcsec / ±0,08 mm [±.003in]
at 609,6 mm [24in] Radius

Repeatability

±7 arcsec / ±0,020 mm [±.0008in]
at 609,6 mm [24in] Radius

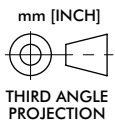
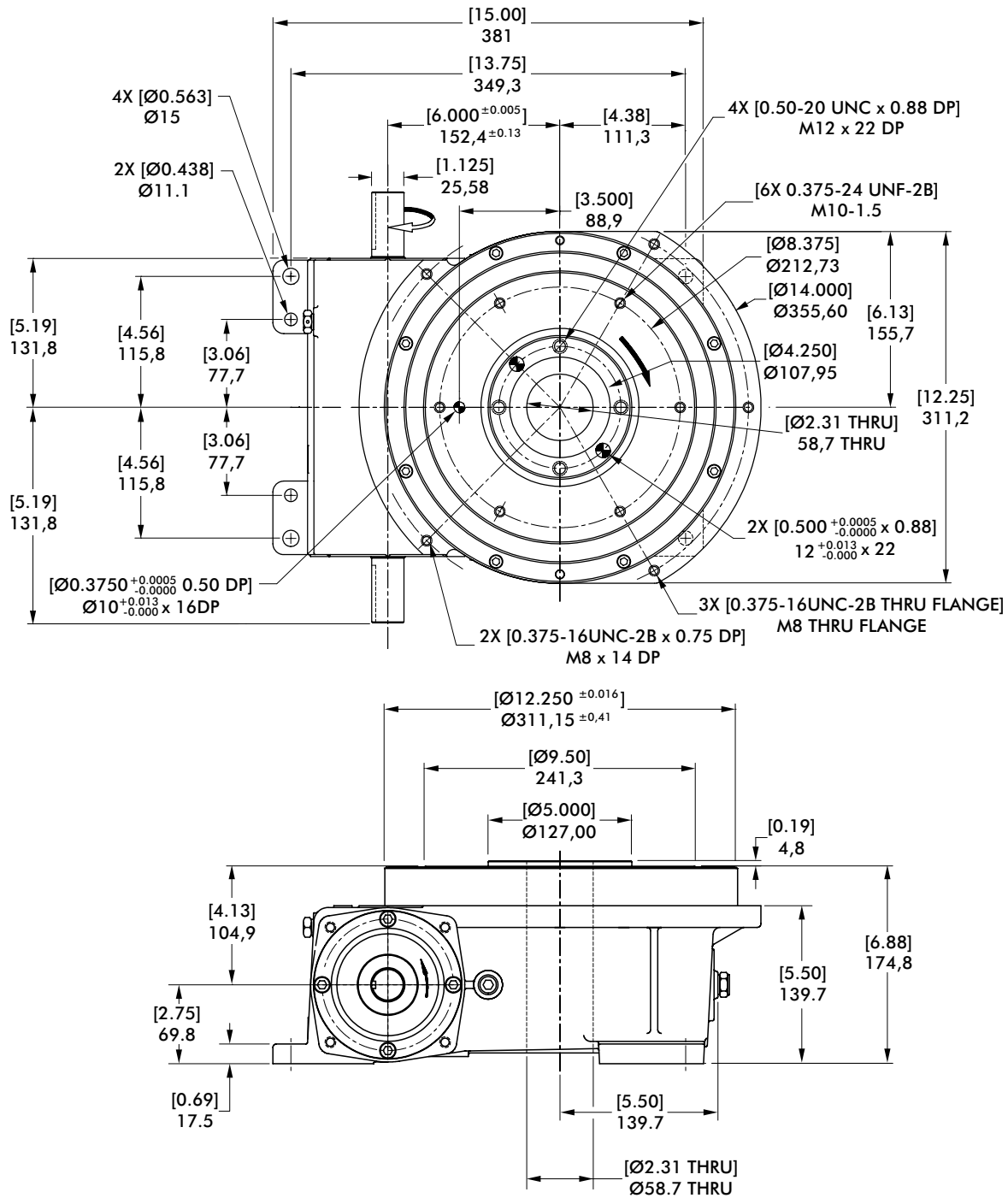
Optional Accessories

- 1 hp DC Motor
- Varipak DC Motor Control (up to 30 cpm)
- Output Mechanical Overload Clutch
– See Page 21
- EZ Mount Dial Adapter
- Stationary Center Post
- Dual Cam and Limit Switch
- Base Riser Blocks
- Electric Clutch-Brake
- Left Hand Cam
- Relief in Dwell for shot-pin applications



902RDM SERIES

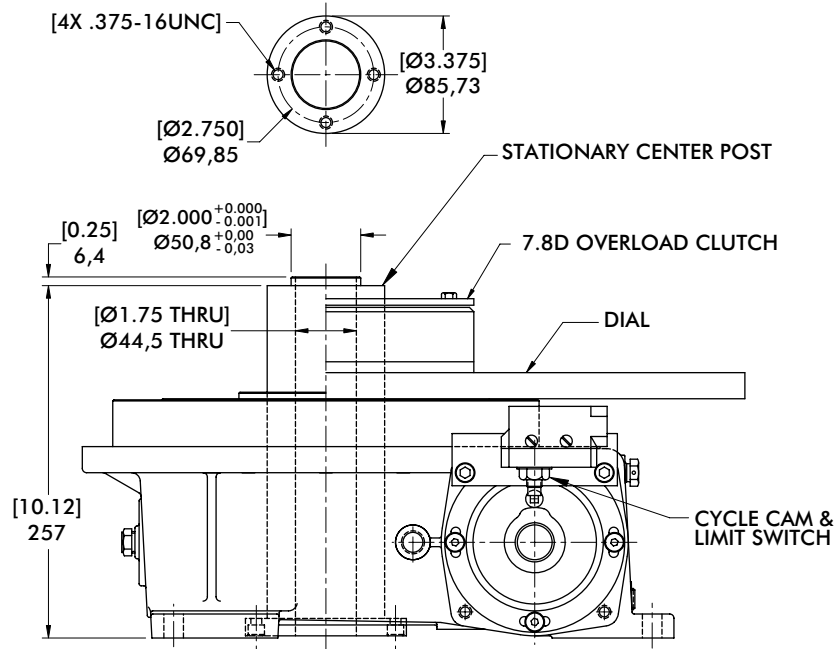
Rotary Index Drive | Dimensions

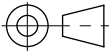


902RDM SERIES

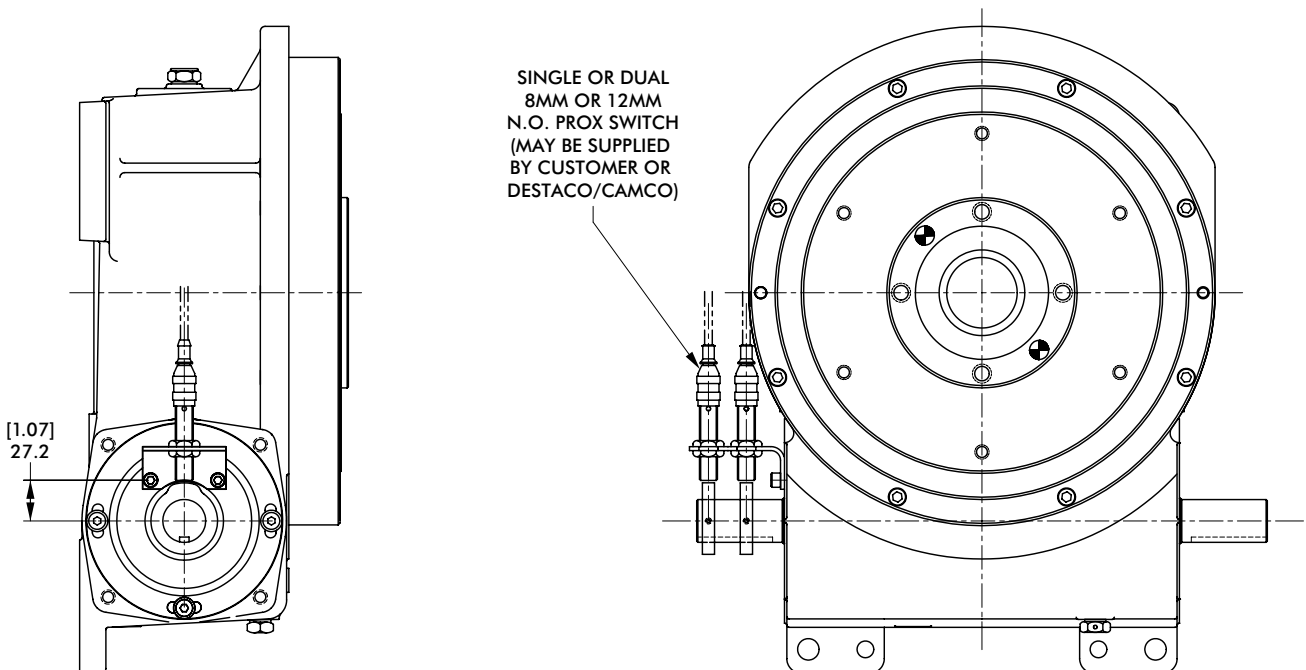
Rotary Index Drive | Product Overview | Technical Specifications

Center Post



mm [INCH]

 THIRD ANGLE
 PROJECTION

Proximity Switch

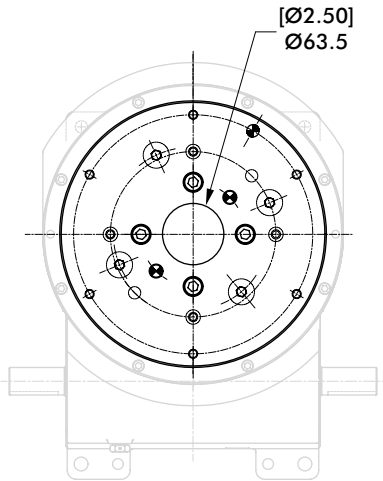


902RDM SERIES

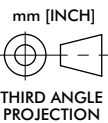
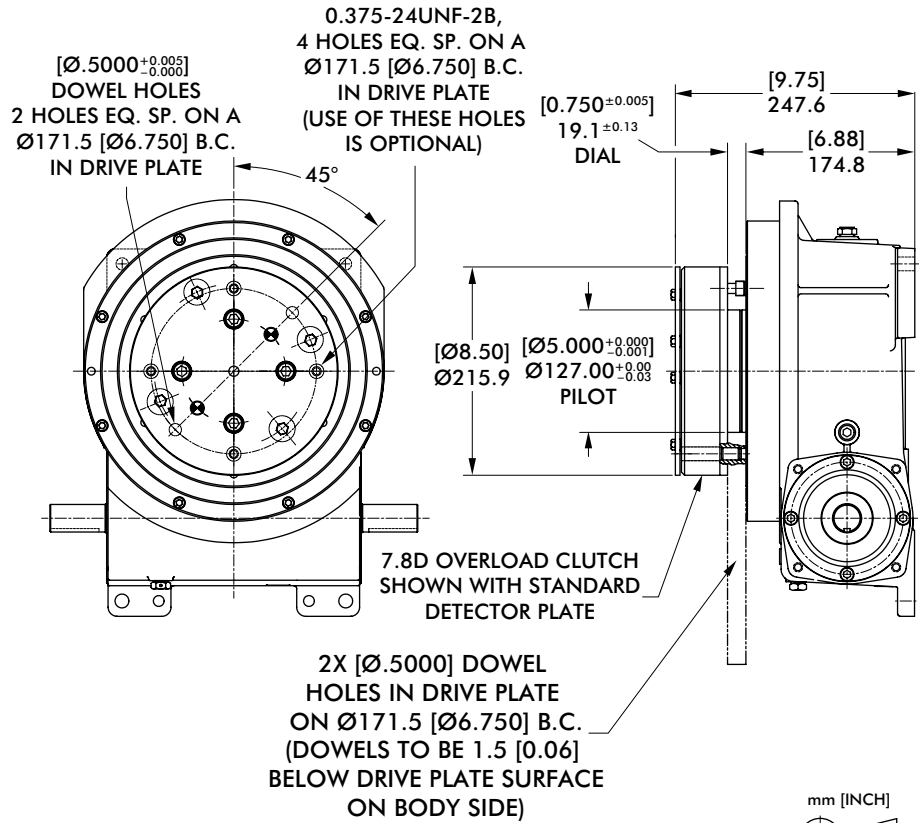
Rotary Index Drive | Dimensions

7.8D Overload Clutch

THRU-HOLE CLUTCH

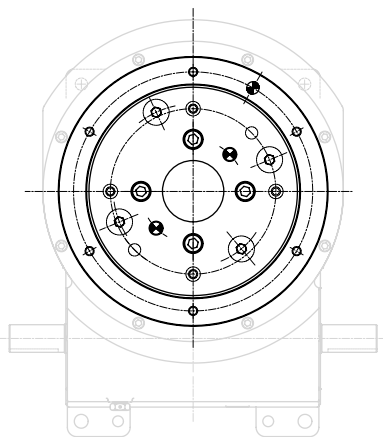


STANDARD CLUTCH

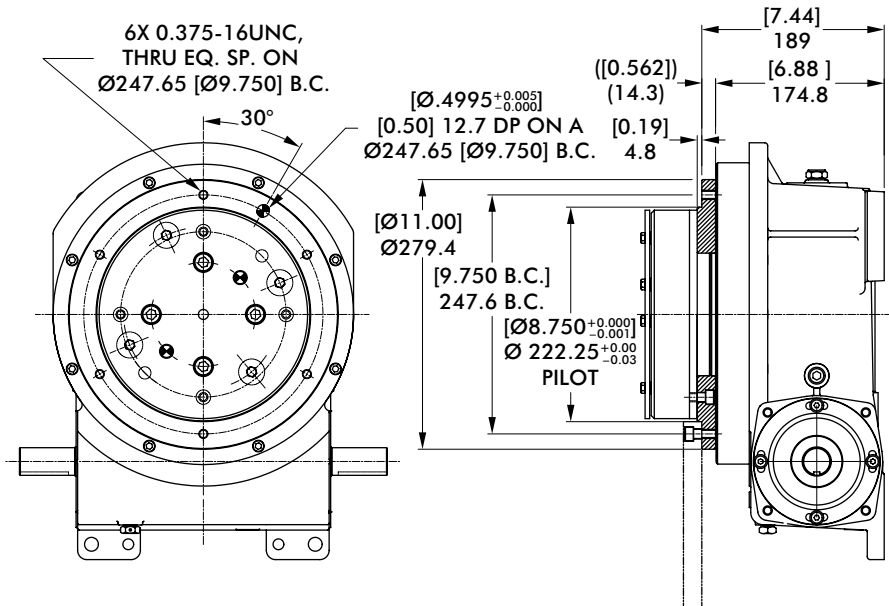


7.8D Overload Clutch with EZ Dial Mounting Adapter

THRU-HOLE EZ CLUTCH



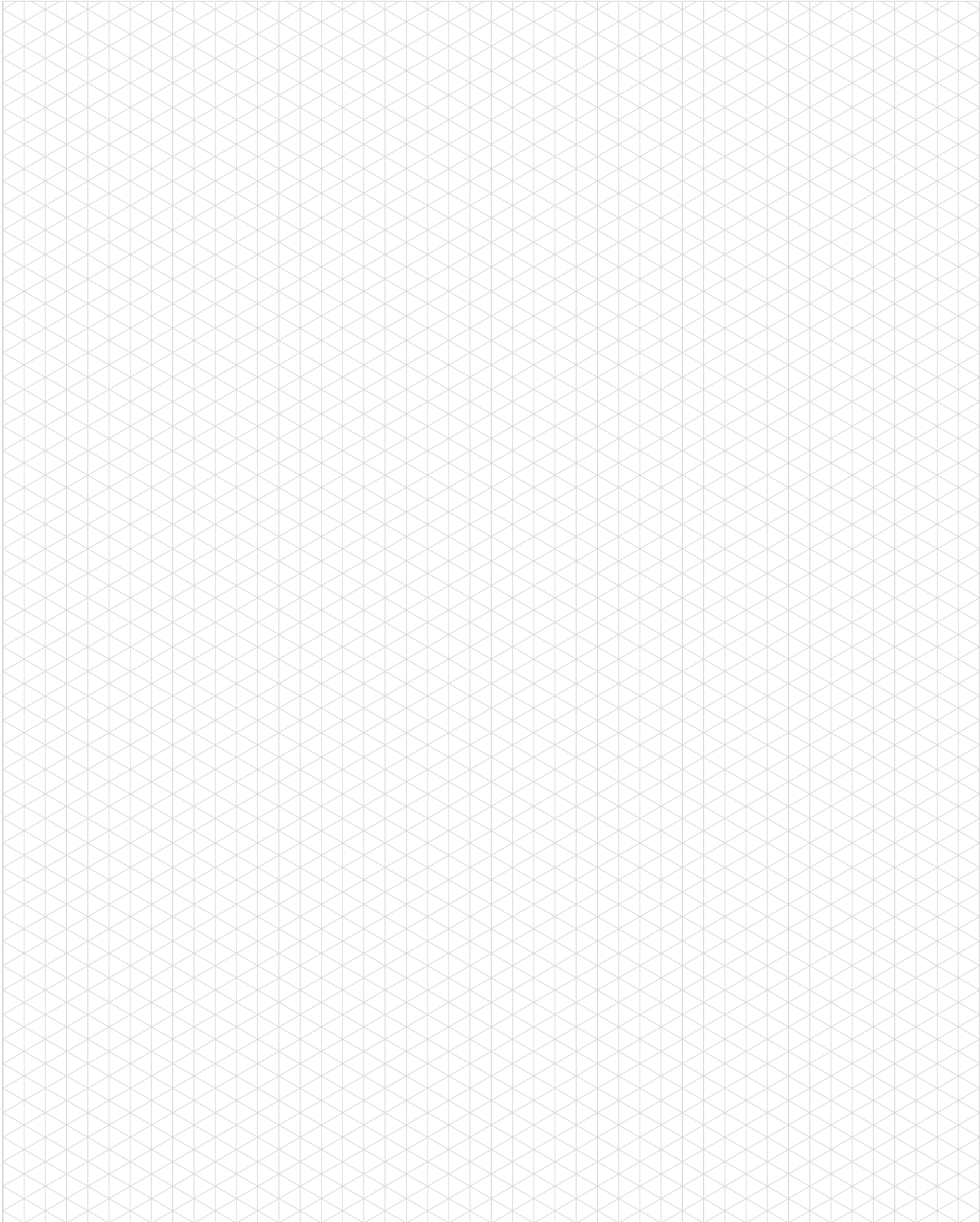
STANDARD EZ CLUTCH



Model	Internal Inertia kg-m ² [lb-in ²]	Torque Setting N-m [in-lb]
7.8D	0,0778 [266]	158, 192, 294, 362, 475, 565, 813, 1130 [1400, 1700, 2600, 3200, 4200, 5000, 7200, 10000]

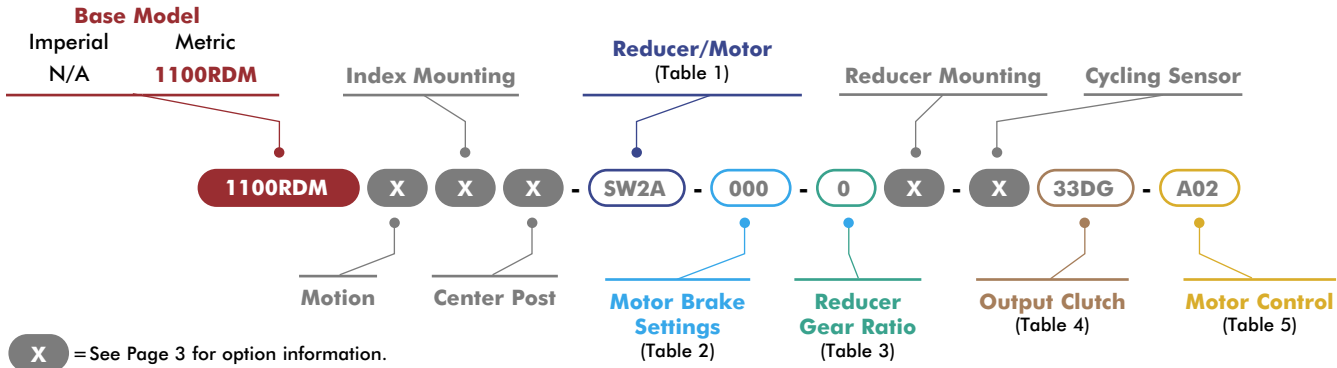
902RDM SERIES

Notes



1100RDM SERIES

Rotary Index Drive | How To Order



1 Reducer/Motor Options

Code	Description
0000	No Reducer or Motor*
7300C Motors	
CD1A	Indexer with 7300C Adapter*
CS1B	CONE DRIVE 7300C W/56C Reducer, SE Worm
CS1C	CONE DRIVE 7300C W/145TC Reducer, SE Worm
CS1D	CONE DRIVE 7300C Reducer w/ 1.0HP AC 56C Motor, SE Worm
CS1E	CONE DRIVE 7300C Reducer w/ 2.0HP AC 145TC Motor, SE Worm
CS1F	CONE DRIVE 7300C Reducer w/ 1.0HP 90V DC 56C Motor, SE Worm
CS1G	CONE DRIVE 7300C Reducer w/1.0HP 180V DC 56C Motor, SE Worm
CS1H	CONE DRIVE 7300C Reducer w/ 2.0HP 180V DC 143TC Motor, SE Worm
CD1B	CONE DRIVE 7300C w/ 56C Reducer, DE Worm
CD1C	CONE DRIVE 7300C W/145TC Reducer, DE Worm
CD1D	CONE DRIVE 7300C Reducer w/ 1.0HP AC 56C Motor, DE Worm
CD1E	CONE DRIVE 7300C Reducer w/ 2.0HP AC 145TC Motor, DE Worm
CD1F	CONE DRIVE 7300C Reducer w/ 1.0HP 90V DC 56C Motor, DE Worm
CD1G	CONE DRIVE 7300C Reducer w/ 1.0HP 180V DC 56C Motor, DE Worm
CD1H	CONE DRIVE 7300C Reducer w/ 2.0HP 180V DC 143TC Motor, DE Worm
SEW KH47 Motors	
SW2A	Indexer with KH47 Adapter*
SW2B	SEW KH47DRN80M4/.75Kw Motor/Brake Motor (60Hz, 230/460V)
SW2C	SEW KH47DRN80M4/.75Kw Motor/Brake Motor (50Hz, 200/400V)
SW2D	SEW KH47DRN80M4/.75Kw Motor/Brake Motor (60Hz, 575V)
SW2E	SEW KH47DRN90L4/1.5Kw Motor/Brake Motor (60Hz, 230/460V)
SW2F	SEW KH47DRN90L4/1.5Kw Motor/Brake Motor (50Hz, 200/400V)
SEW KH57 Motors	
SW3A	Indexer with KH57 Adapter*
SW3B	SEW KH57DRN80M4/.75Kw Motor/Brake Motor (60Hz, 230/460V)
SW3C	SEW KH57DRN80M4/.75Kw Motor/Brake Motor (50Hz, 200/400V)
SW3D	SEW KH57DRN80M4/.75Kw Motor/Brake Motor (60Hz, 575V)
SW3E	SEW KH57DRN90L4/1.5Kw Motor/Brake Motor (60Hz, 230/460V)
SW3F	SEW KH57DRN90L4/1.5Kw Motor/Brake Motor (50Hz, 200/400V)
SW3G	SEW KH57DRN90L4/1.5Kw Motor/Brake Motor (60Hz, 575V)
STM RMI-85 Motors	
RM6A	Indexer with RMI-85 Adapter*
RM6B	STM RMI-85/LFB/IEC90-B14 Reducer only
RM6C	STM RMI-85/LFB/IEC100-B14 Reducer only
RM6D	STM RMI-85/LFB/1.1kW Reducer and Motor
RM6E	STM RMI-85/LFB/2.2kW Reducer and Motor

*All Reducer/Motor adapters require Gear Ratio option to be 0.

2 Motor Brake * 3 Reducer Gear Ratios *

Code	Description
000	No Brake
S1A	1.69 Nm (BE05)
S1B	2.49 Nm (BE05)
S1C	3.50 Nm (BE05)
S2A	4.97 Nm (BE1)
S2B	7.01 Nm (BE1)
S2C	9.94 Nm (BE1)
S3A	9.94 Nm (BE2)
S3B	14.01 Nm (BE2)
S3C	20.00 Nm (BE2)
S4A	20.00 Nm (BE5)
S4B	28.02 Nm (BE5)
S4C	40.00 Nm (BE5)
S4D	55.03 Nm (BE5)

Code	Description
7300C	
0	N/A
A	10:1
B	15:1
C	20:1
D	25:1
E	30:1
F	40:1
G	50:1
H	60:1

Code	SEW KH47	SEW KH57	STM RMI-85
N/A	N/A	N/A	N/A
10:1	10.56:1	9.59:1	10:1
15:1	15.86:1	15.22:1	15:1
20:1	19.58:1	19.34:1	20:1
25:1	29.32:1	30.28:1	28:1
30:1	39.61:1	38.49:1	40:1
40:1	48.95:1	48.89:1	49:1
50:1	63.30:1	60.81:1	56:1
60:1	69.84:1	69.12:1	70:1

*All Reducer/Motor adapters require Gear Ratio option to be 0.
Select Gear ratio column based on the reducer type selected.

*SEW Motor brake setting options only. All other motors use option code 000.

4 Output Clutch & Settings

Code	Description
0000	No Output Overload Clutch
33DA	33D/960 Nm, Standard Clutch*
33DB	33D/1470 Nm, Standard Clutch*
33DC	33D/1865 Nm, Standard Clutch*
33DD	33D/2260 Nm, Standard Clutch*
33DE	33D/2655 Nm, Standard Clutch*
33DF	33D/2880 Nm, Standard Clutch*
33DG	33D/3500 Nm, Standard Clutch*
33DH	33D/960 Nm, Thru-Hole Clutch
33DJ	33D/1470 Nm, Thru-Hole Clutch
33DK	33D/1865 Nm, Thru-Hole Clutch
33DL	33D/2260 Nm, Thru-Hole Clutch
33DM	33D/2655 Nm, Thru-Hole Clutch
33DN	33D/2880 Nm, Thru-Hole Clutch
33DP	33D/3500 Nm, Thru-Hole Clutch
33EA	33D/960 Nm, Standard Clutch, EZ*
33EB	33D/1470 Nm, Standard Clutch, EZ*
33EC	33D/1865 Nm, Standard Clutch, EZ*
33ED	33D/2260 Nm, Standard Clutch, EZ*
33EE	33D/2655 Nm, Standard Clutch, EZ*
33EF	33D/2880 Nm, Standard Clutch, EZ*
33EG	33D/3500 Nm, Standard Clutch, EZ*
33EH	33D/960 Nm, Thru-Hole Clutch, EZ
33EJ	33D/1470 Nm, Thru-Hole Clutch, EZ
33EK	33D/1865 Nm, Thru-Hole Clutch, EZ
33EL	33D/2260 Nm, Thru-Hole Clutch, EZ
33EM	33D/2655 Nm, Thru-Hole Clutch, EZ
33EN	33D/2880 Nm, Thru-Hole Clutch, EZ
33EP	33D/3500 Nm, Thru-Hole Clutch, EZ

* Cannot be used with center post options P and B.

5 Motor Control

Code	Description
000	NO MOTOR CONTROL
A01	120V 1Ph
A02	(AC) PowerFlex 523 1HP
A03	480V 3Ph
A04	120V 1Ph
A05	(AC) PowerFlex 525 1HP
A06	240V 1Ph
A07	480V 3Ph
A08	(AC) PowerFlex 523 2HP
A09	240V 3Ph
A10	(AC) PowerFlex 525 2HP
A11	480V 3Ph
A12	(AC) PowerFlex 523 3HP
A13	240V 1Ph
A14	(AC) PowerFlex 525 3HP
A15	480V 3Ph
A16	(AC) PowerFlex 523 5HP
A17	600V 3Ph
A18	(AC) PowerFlex 525 5HP
D01	600V 3Ph
D02	(DC) Varipak 1HP 90VDC
D03	Uni-Directional
D04	(DC) Varipak 2HP 180VDC
D05	Bi-Directional
D05	(DC) Cycletrol 3HP 180VDC
D05	Bi-Directional

Maximum Inertia x 1000 kg-cm ² [lb-in ²] for standard package							
Stops	Motion Time [seconds]						
	0.458	0.611	0.764	0.917	1.222	1.528	1.833
2	3 [1]	15 [5]	32 [11]	64 [22]	176 [60]	342 [117]	518 [177]
3	18 [6]	38 [13]	79 [27]	152 [52]	401 [137]	775 [265]	1171 [400]
4	38 [13]	79 [27]	161 [55]	304 [104]	790 [270]	1525 [521]	2297 [785]
6	88 [30]	179 [61]	351 [120]	664 [227]	1703 [582]	3283 [1122]	4940 [1688]
8	161 [55]	325 [111]	632 [216]	1185 [405]	3035 [1037]	5838 [1995]	7916 [2705]
12	369 [126]	735 [251]	1428 [488]	2672 [913]	6833 [2335]	12563 [4293]	16932 [5786]
16	658 [225]	1314 [449]	2543 [869]	4138 [1414]	7781 [2659]	11884 [4061]	16019 [5474]
Reducer Ratio							
	15.86	19.58	24.06	29.32	39.61	48.95	56.83

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

Features

- KH47 Reducer and AC Motor with Optional Brake
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (Ø130 mm [Ø5.1 in.])
- AC drive package with Inverter Duty Motor and Inverter Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Output Load Capacity (loads carried during index):

Radial	13789 N [3100 lbs]
Thrust/Axial	35586 N [8000 lbs]
Moment	3240 N-m [28674 in-lb]

Typical Application Dial Diameter:

508 mm [20 in] to 1524 mm [60 in]

Accuracy

±22 arcsec / ±0,08 mm [±.003in]
at 76 mm [30in] Radius

Repeatability

±5 arcsec / ±0,020 mm [±.0008in]
at 762 mm [30in] Radius

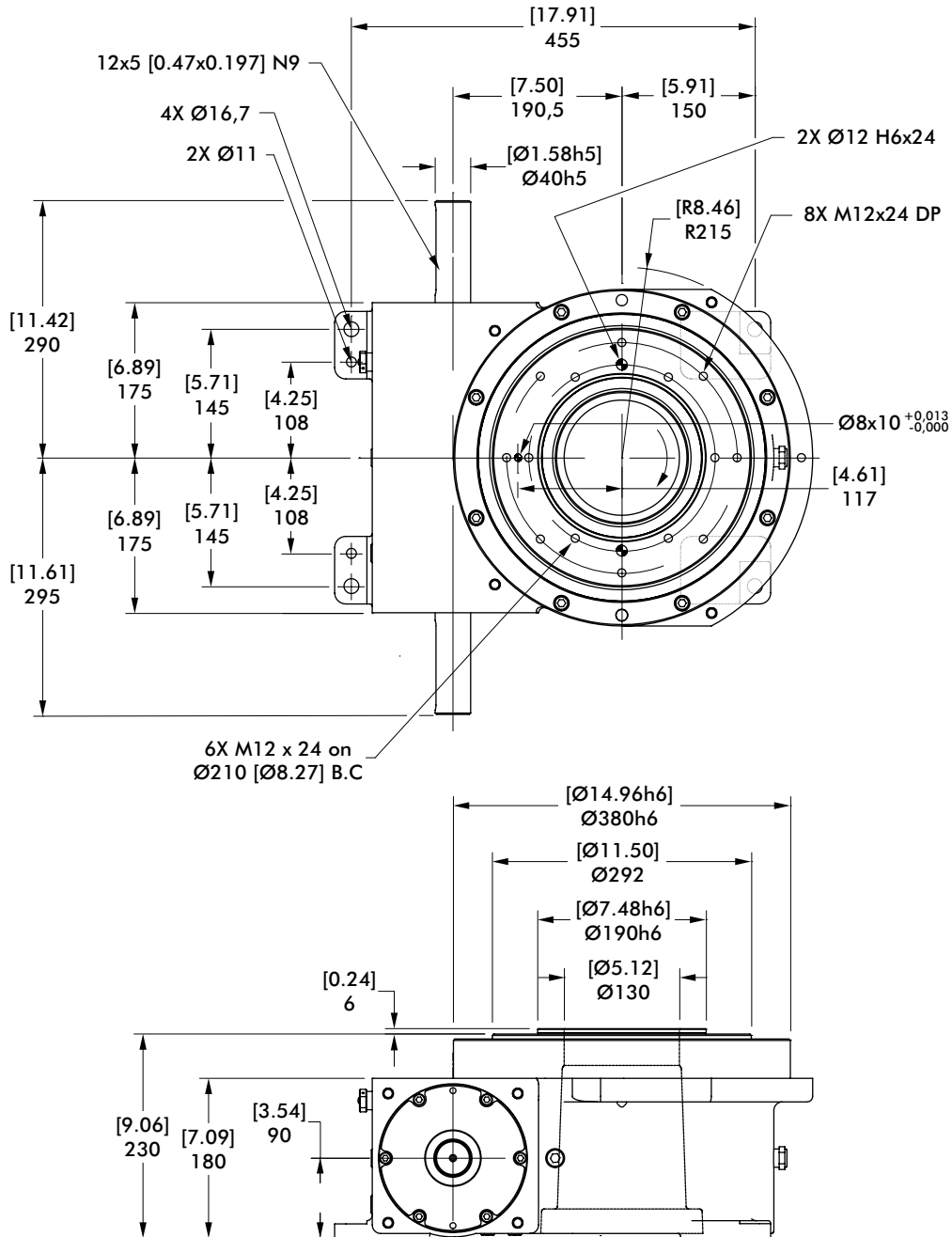
Optional Accessories

- 7300C Reducer (Ratios from 15:1 to 60:1)
- 1.5 HP DC motor
- Varipak DC Motor Control (up to 30 cpm)
- Output Mechanical Overload Clutch
– See Page 27
- EZ Mount Dial Adapter
- 7350C Heavy Duty Reducer (Ratios from 10:1 to 60:1)
- Stationary Center Post
- Dual Cam and Limit Switch
- Left Hand Cam
- Relief in Dwell for shot-pin applications

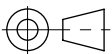


1100RDM SERIES

Rotary Index Drive | Dimensions



mm [INCH]

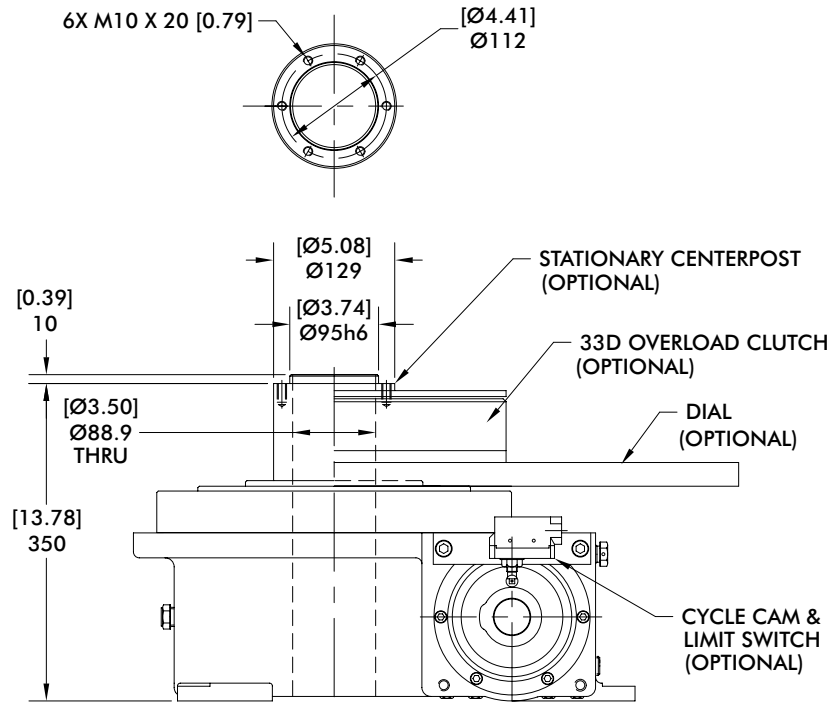


THIRD ANGLE PROJECTION

1100RDM SERIES

Rotary Index Drive | Product Overview | Technical Specifications

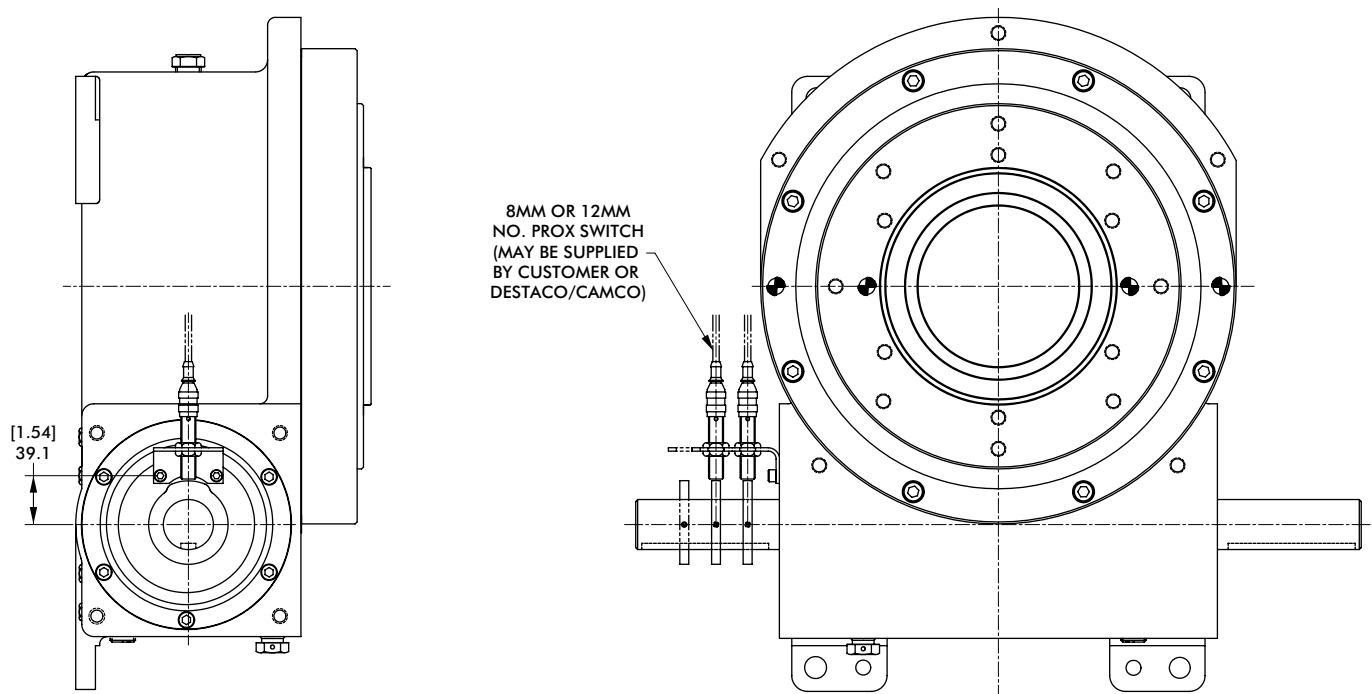
Center Post



mm [INCH]

THIRD ANGLE PROJECTION

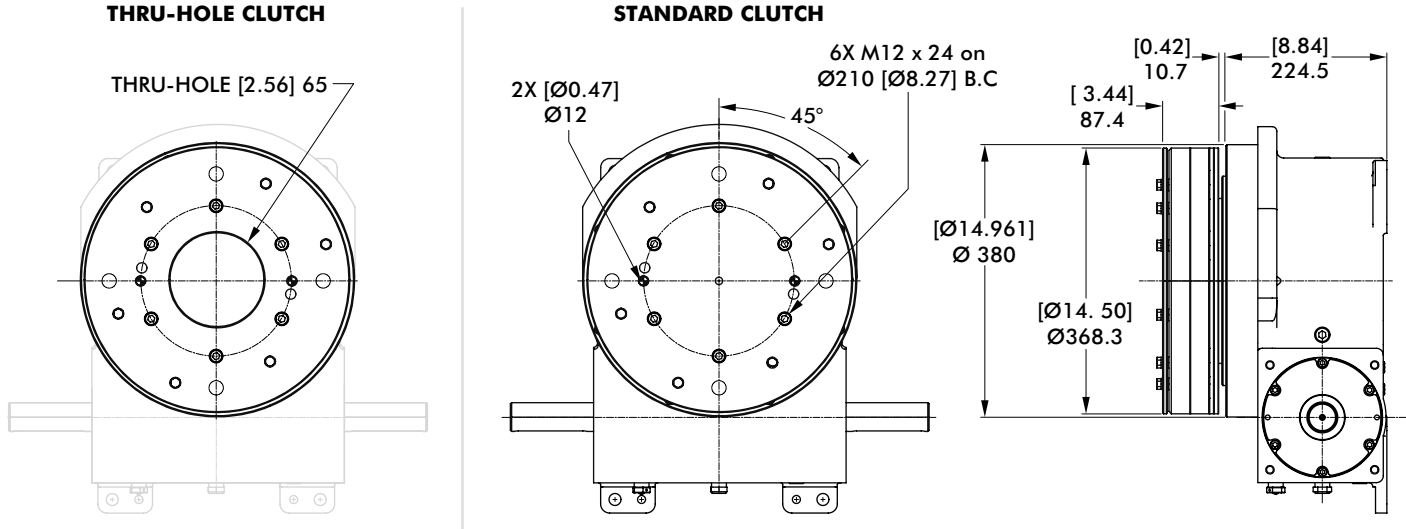
Proximity Switch



110ORDM SERIES

Rotary Index Drive | Dimensions

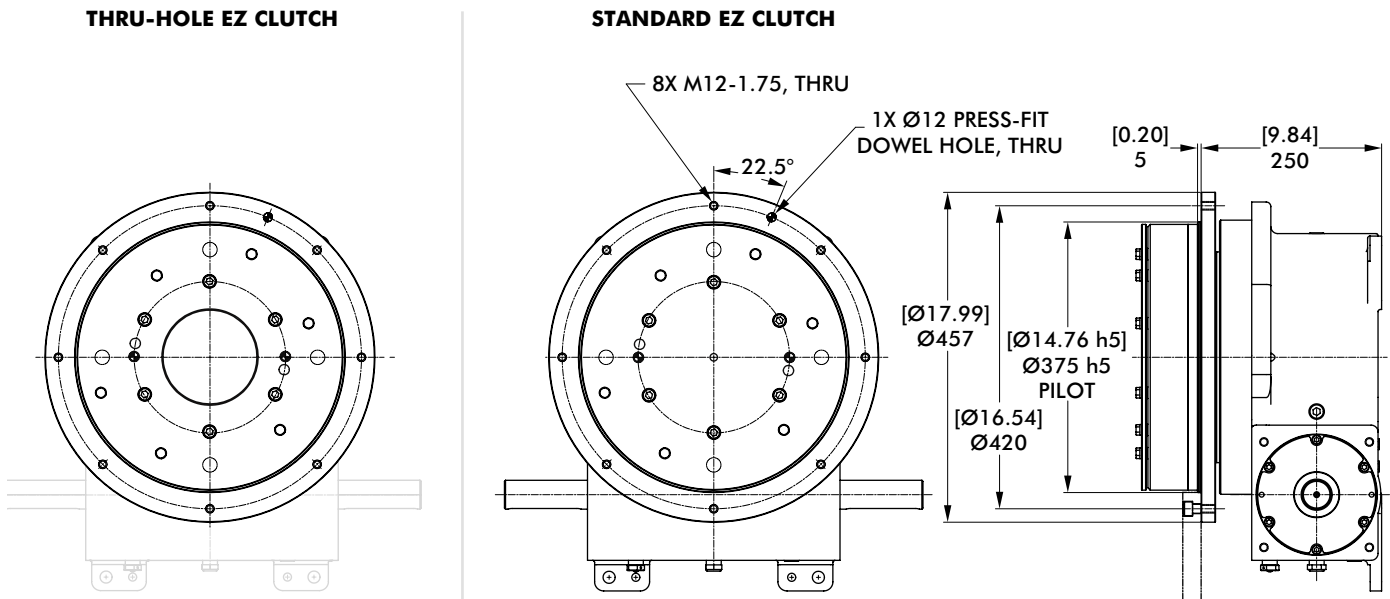
33D Overload Clutch



mm [INCH]



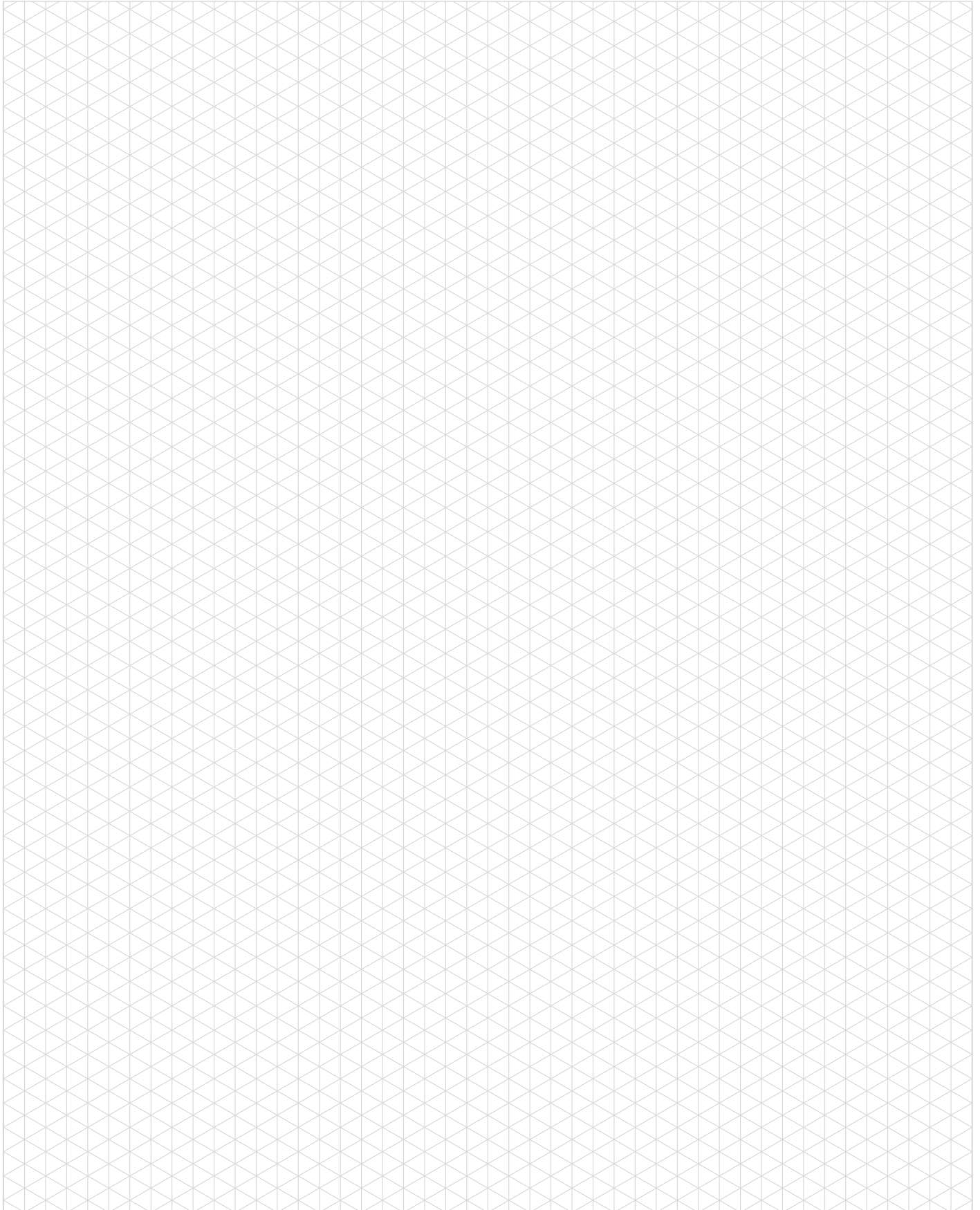
33D Overload Clutch with EZ Dial Mounting Adapter



Model	Internal Inertia kg-m ² [lb-in ²]	Torque Setting N-m [in-lb]
33D	0,852 [2910]	960, 1469, 2260, 2881 [8500, 13000, 20000, 25500]

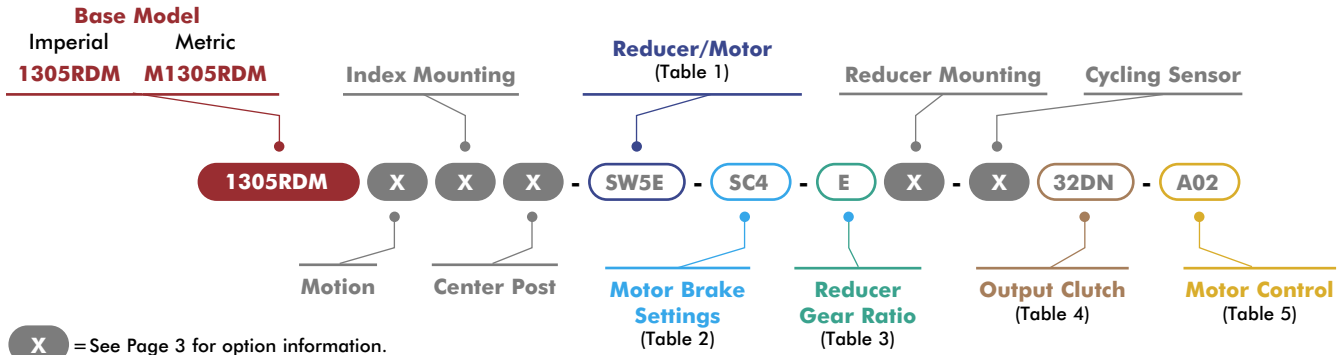
1100RDM SERIES

Notes



1305RDM SERIES

Rotary Index Drive | How To Order



1 Reducer/Motor Options*

Code	Description
0000	No Reducer or Motor*
7350C Motors	
CD2A	Indexer with 7350C Adapter*
CS2B	CONE DRIVE 7350C W/56C Reducer, SE Worm
CS2C	CONE DRIVE 7350C W/145TC Reducer, SE Worm
CS2D	CONE DRIVE 7350C Reducer w/ 1.0HP AC 56C Motor, SE Worm
CS2E	CONE DRIVE 7350C Reducer w/ 2.0HP AC 145TC Motor, SE Worm
CS2F	CONE DRIVE 7350C Reducer w/ 1.0HP 90V DC 56C Motor, SE Worm
CS2G	CONE DRIVE 7350C Reducer w/1.0HP 180V DC 56C Motor, SE Worm
CS2H	CONE DRIVE 7350C Reducer w/2.0HP 180V DC 143TC Motor, SE Worm
CD2B	CONE DRIVE 7350C w/ 56C Reducer, DE Worm
CD2C	CONE DRIVE 7350C W/145TC Reducer, DE Worm
CD2D	CONE DRIVE 7350C Reducer w/ 1.0HP AC 56C Motor, DE Worm
CD2E	CONE DRIVE 7350C Reducer w/ 2.0HP AC 145TC Motor, DE Worm
CD2F	CONE DRIVE 7350C Reducer w/ 1.0HP 90V DC 56C Motor, DE Worm
CD2G	CONE DRIVE 7350C Reducer w/ 1.0HP 180V DC 56C Motor, DE Worm
CD2H	CONE DRIVE 7350C Reducer w/ 2.0HP 180V DC 143TC Motor, DE Worm
SEW KH67 Motors	
SW4A	Indexer with KH67 Adapter*
SW4B	SEW KH67DRN80M4 Reducer with 0.75Kw Motor (60Hz, 230/460V)
SW4C	SEW KH67DRN80M4 Reducer with 0.75Kw Motor (50Hz, 400V)
SW4D	SEW KH67DRN80M4 Reducer with 0.75Kw Motor (60Hz, 575V)
SW4E	SEW KH67DRN90L4 Reducer with 1.5Kw Motor (60Hz, 230/460V)
SW4F	SEW KH67DRN90L4 Reducer with 1.5Kw Motor (50Hz, 400V)
SW4G	SEW KH67DRN90L4 Reducer with 1.5Kw Motor (60Hz, 575V)
SEW KH77 Motors	
SW5A	Indexer with KH77 Adapter*
SW5B	SEW KH77DRN80M4 Reducer with 0.75Kw Motor (60Hz, 230/460V)
SW5C	SEW KH77DRN80M4 Reducer with 0.75Kw Motor (50Hz, 400V)
SW5D	SEW KH77DRN80M4 Reducer with 0.75Kw Motor (60Hz, 575V)
SW5E	SEW KH77DRN90L4 Reducer with 1.5Kw Motor (60Hz, 230/460V)
SW5F	SEW KH77DRN90L4 Reducer with 1.5Kw Motor (50Hz, 400V)
SW5G	SEW KH77DRN90L4 Reducer with 1.5Kw Motor (60Hz, 575V)
STM RMI-110 Motors	
RM7A	Indexer with RMI-110 Adapter*
RM7B	STM RMI-110/LFB/IEC90-B14 Reducer only
RM7C	STM RMI-110/LFB/IEC100-B14 Reducer only
RM7D	STM RMI-110/LFB/1.1kW Reducer and Motor
RM7E	STM RMI-110/LFB/2.2kW Reducer and Motor

*All Reducer/Motor adapters require Gear Ratio option to be 0.

2 Motor Brake* 3 Reducer Gear Ratios*

Code	Description	Code	Description			
000	(NO BRAKE/NO SEW)					
S1A	1.69 Nm (BE05)					
S1B	2.49 Nm (BE05)					
S1C	3.50 Nm (BE05)					
S2A	4.97 Nm (BE1)					
S2B	7.01 Nm (BE1)					
S2C	9.94 Nm (BE1)					
S3A	9.94 Nm (BE2)					
S3B	14.01 Nm (BE2)					
S3C	20.00 Nm (BE2)					
S4A	20.00 Nm (BE5)					
S4B	28.02 Nm (BE5)					
S4C	40.00 Nm (BE5)					
S4D	55.03 Nm (BE5)					

Code	7350C	SEW KH67	SEW KH77	STM RMI-110
0	N/A	N/A	N/A	N/A
A	10:1	9.66:1	9.56:1	10:1
B	15:1	15.19:1	15.84:1	15:1
C	20:1	19.30:1	20.25:1	20:1
D	28:1	30.22:1	29.27:1	25:1
E	40:1	38.39:1	40.04:1	30:1
F	49:1	48.77:1	51.18:1	40:1
G	56:1	60.66:1	58.34:1	50:1
H	70:1	68.95:1	73.99:1	60:1

*All Reducer/Motor adapters require Gear Ratio option to be 0.
Select Gear ratio column based on the reducer type selected.

*SEW Motor brake setting options only. All other motors use option code 000.

4 Output Clutch & Settings

1305RDM Imperial Clutch Models		M1305RDM Metric Clutch Models	
Code	Description	Code	Description
0000	No Output Overload Clutch	0000	No Output Overload Clutch
32DA	32D/8500 In-Lb, Standard*	M32DA	M32D/960 Nm, Standard*
32DB	32D/13000 In-Lb, Standard*	M32DB	M32D/1470 Nm, Standard*
32DC	32D/20000 In-Lb, Standard*	M32DC	M32D/2260 Nm, Standard*
32DD	32D/31000 In-Lb, Standard*	M32DD	M32D/3500 Nm, Standard*
32DE	32D/16500 In-Lb, Standard*	M32DE	M32D/1865 Nm, Standard*
32DF	32D/25500 In-Lb, Standard*	M32DF	M32D/2880 Nm, Standard*
32DG	32D/23500 In-Lb, Standard*	M32DG	M32D/2655 Nm, Standard*
32DH	32D/8500 In-Lb, Thru-Hole	M32DH	M32D/960 Nm, Thru-Hole
32DJ	32D/13000 In-Lb, Thru-Hole	M32DJ	M32D/1470 Nm, Thru-Hole
32DK	32D/20000 In-Lb, Thru-Hole	M32DK	M32D/2260 Nm, Thru-Hole
32DL	32D/31000 In-Lb, Thru-Hole	M32DL	M32D/3500 Nm, Thru-Hole
32DM	32D/16500 In-Lb, Thru-Hole	M32DM	M32D/1865 Nm, Thru-Hole
32DN	32D/25500 In-Lb, Thru-Hole	M32DN	M32D/2880 Nm, Thru-Hole
32DP	32D/23500 In-Lb, Thru-Hole	M32DP	M32D/2655 Nm, Thru-Hole
32EA	32D/8500 In-Lb, Standard, EZ*	M32EA	M32D/960 Nm, Standard, EZ*
32EB	32D/13000 In-Lb, Standard, EZ*	M32EB	M32D/1470 Nm, Standard, EZ*
32EC	32D/20000 In-Lb, Standard, EZ*	M32EC	M32D/2260 Nm, Standard, EZ*
32ED	32D/31000 In-Lb, Standard, EZ*	M32ED	M32D/3500 Nm, Standard, EZ*
32EE	32D/16500 In-Lb, Standard, EZ*	M32EE	M32D/1865 Nm, Standard, EZ*
32EF	32D/25500 In-Lb, Standard, EZ*	M32EF	M32D/2880 Nm, Standard, EZ*
32EG	32D/23500 In-Lb, Standard, EZ*	M32EG	M32D/2655 Nm, Standard, EZ*
32EH	32D/8500 In-Lb, Thru-Hole, EZ	M32EH	M32D/960 Nm, Thru-Hole, EZ
32EJ	32D/13000 In-Lb, Thru-Hole, EZ	M32EJ	M32D/1470 Nm, Thru-Hole, EZ
32EK	32D/20000 In-Lb, Thru-Hole, EZ	M32EK	M32D/2260 Nm, Thru-Hole, EZ
32EL	32D/31000 In-Lb, Thru-Hole, EZ	M32EL	M32D/3500 Nm, Thru-Hole, EZ
32EM	32D/16500 In-Lb, Thru-Hole, EZ	M32EM	M32D/1865 Nm, Thru-Hole, EZ
32EN	32D/25500 In-Lb, Thru-Hole, EZ	M32EN	M32D/2880 Nm, Thru-Hole, EZ
32EP	32D/23500 In-Lb, Thru-Hole, EZ	M32EP	M32D/2655 Nm, Thru-Hole, EZ

* Cannot be used with center post options P and B.

5 Motor Control

Code	Description
000	NO MOTOR CONTROL
A01	120V 1Ph
A02	(AC) PowerFlex 523 1HP
A03	480V 3Ph
A04	120V 1Ph
A05	(AC) PowerFlex 525 1HP
A06	480V 3Ph
A07	240V 1Ph
A08	(AC) PowerFlex 523 2HP
A09	480V 3Ph
A10	(AC) PowerFlex 525 2HP
A11	240V 3Ph
A12	(AC) PowerFlex 523 3HP
A13	480V 3Ph
A14	(AC) PowerFlex 525 3HP
A15	480V 3Ph
A16	(AC) PowerFlex 523 5HP
A17	600V 3Ph
A18	(AC) PowerFlex 525 5HP
D01	(DC) Varipak 1HP 90VDC
D02	Uni-Directional
D03	Bi-Directional
D04	(DC) Varipak 2HP 180VDC
D05	Uni-Directional
	Bi-Directional
	(DC) Cycletrol 3HP 180VDC

Maximum Inertia x 1000 kg-cm ² [lb-in ²] for standard package							
Stops	Motion Time [seconds]						
	0.458	0.611	0.764	0.917	1.222	1.528	1.833
2	0 [0]	12 [4]	38 [13]	76 [26]	140 [48]	214 [73]	298 [102]
3	6 [2]	32 [11]	76 [26]	146 [50]	258 [88]	389 [133]	538 [184]
4	29 [10]	94 [32]	208 [71]	380 [130]	664 [227]	995 [340]	1367 [467]
6	73 [25]	211 [72]	451 [154]	822 [281]	1419 [485]	2119 [724]	2909 [994]
8	138 [47]	383 [131]	811 [277]	1469 [502]	2528 [864]	3775 [1290]	5180 [1770]
12	325 [111]	878 [300]	1841 [629]	3319 [1134]	5706 [1950]	8510 [2908]	11670 [3988]
16	585 [200]	1571 [537]	3280 [1121]	5908 [2019]	10155 [3470]	15138 [5173]	20754 [7092]
Reducer Ratio							
	15	20	25	30	40	50	60

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

Features

- 7300C Reducer (Ratios from 15:1 to 60:1)
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (Ø127 mm [Ø5.00 in.])
- 2 HP AC Drive Package with Inverter Duty Motor and Inverter Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Optional Accessories

- 2 hp DC Motor
- Varipak DC Motor Control (up to 30 cpm)
- 7350C Heavy Duty Reducer (Ratios from 10:1 to 60:1)
- Output Mechanical Overload Clutch
– See Page 33
- EZ Mount Dial Adapter
- Stationary Center Post
- Dual Cam and Limit Switch
- Base Riser Blocks
- Electric Clutch-Brake
- Left Hand Cam
- Relief in Dwell for shot-pin applications

Output Load Capacity (loads carried during index):

Radial	20684 N [4650 lbs]
Thrust/Axial	51822 N [11650 lbs]
Moment	4579 N-m [40528 in-lb]

Typical Application Dial Diameter:

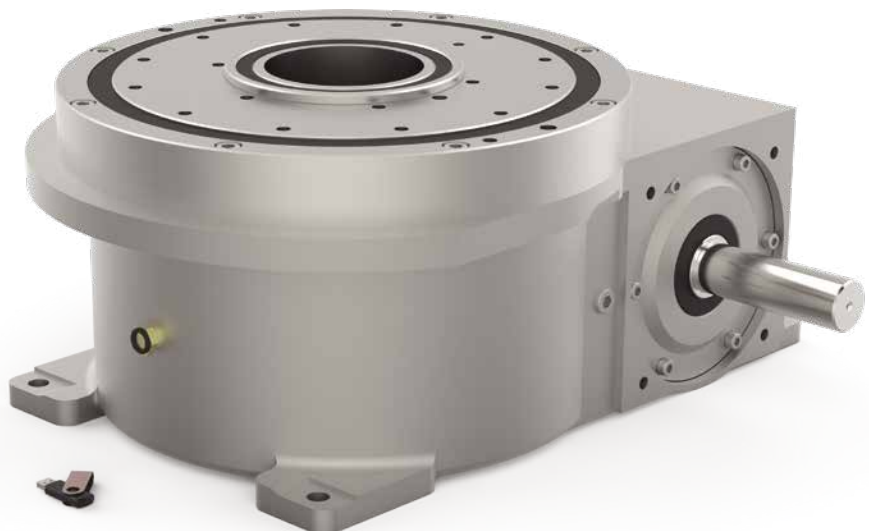
508 mm [20 in] to 1829 mm [72 in]

Accuracy

±38 arcsec / ±0,18 mm [±.007in]
at 914,4 mm [36in] Radius

Repeatability

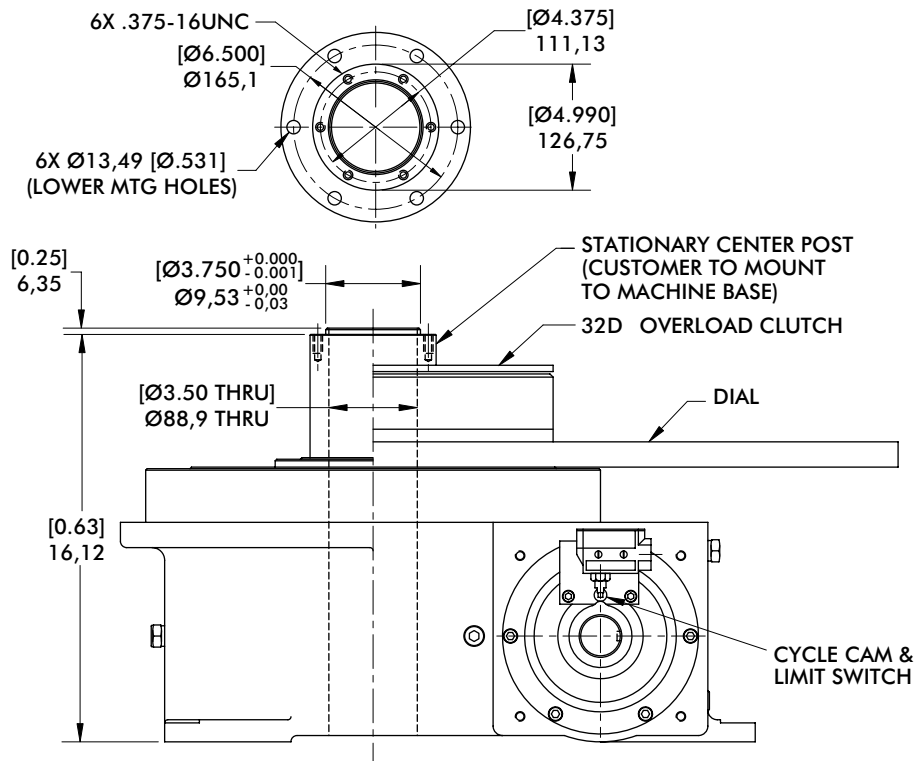
±10 arcsec / ±0,05 mm [±.002in]
at 914,4 mm [36in] Radius

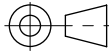


1305RDM SERIES

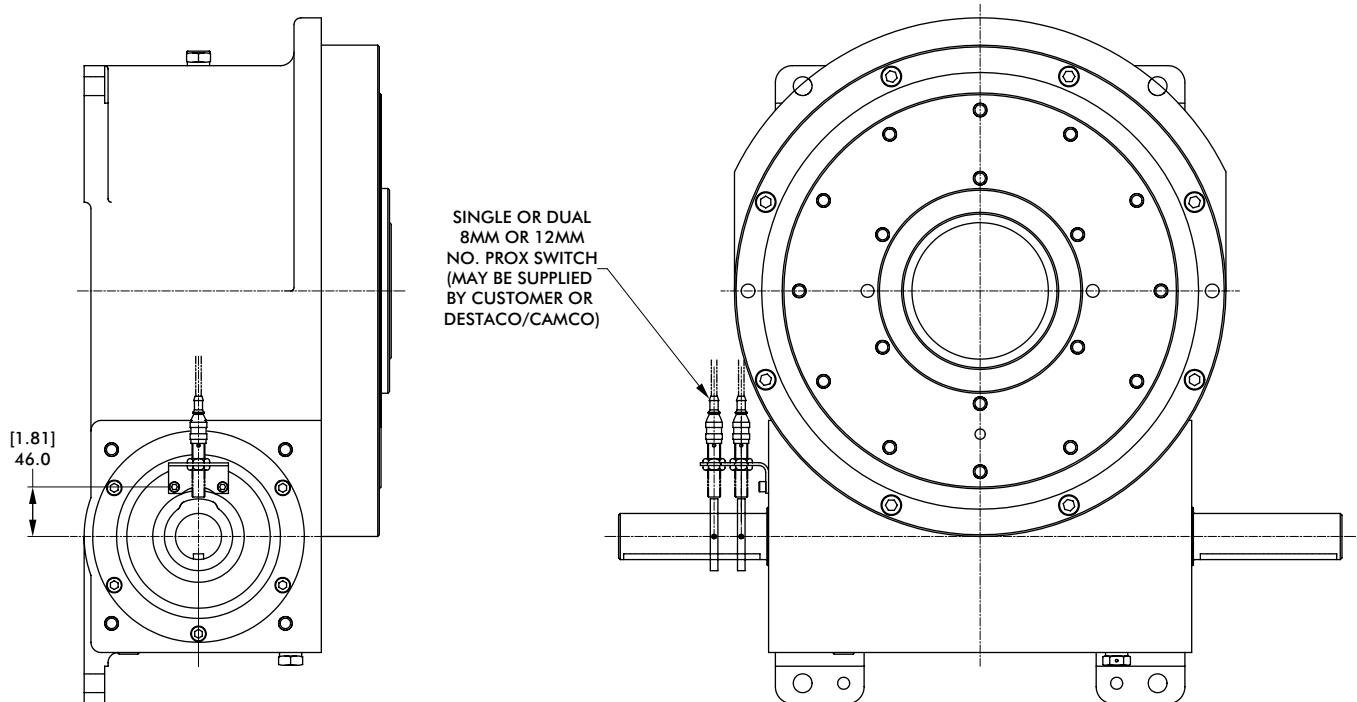
Rotary Index Drive | Product Overview | Technical Specifications

Center Post



mm [INCH]

 THIRD ANGLE
 PROJECTION

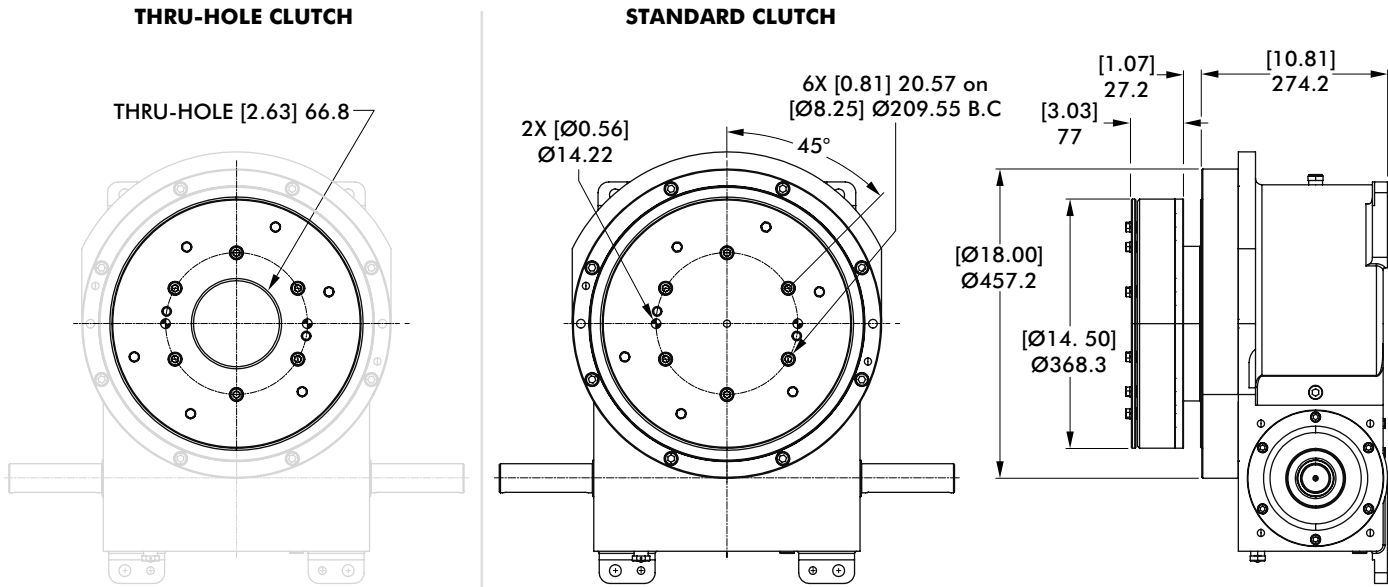
Proximity Switch



1305RDM SERIES

Rotary Index Drive | Dimensions

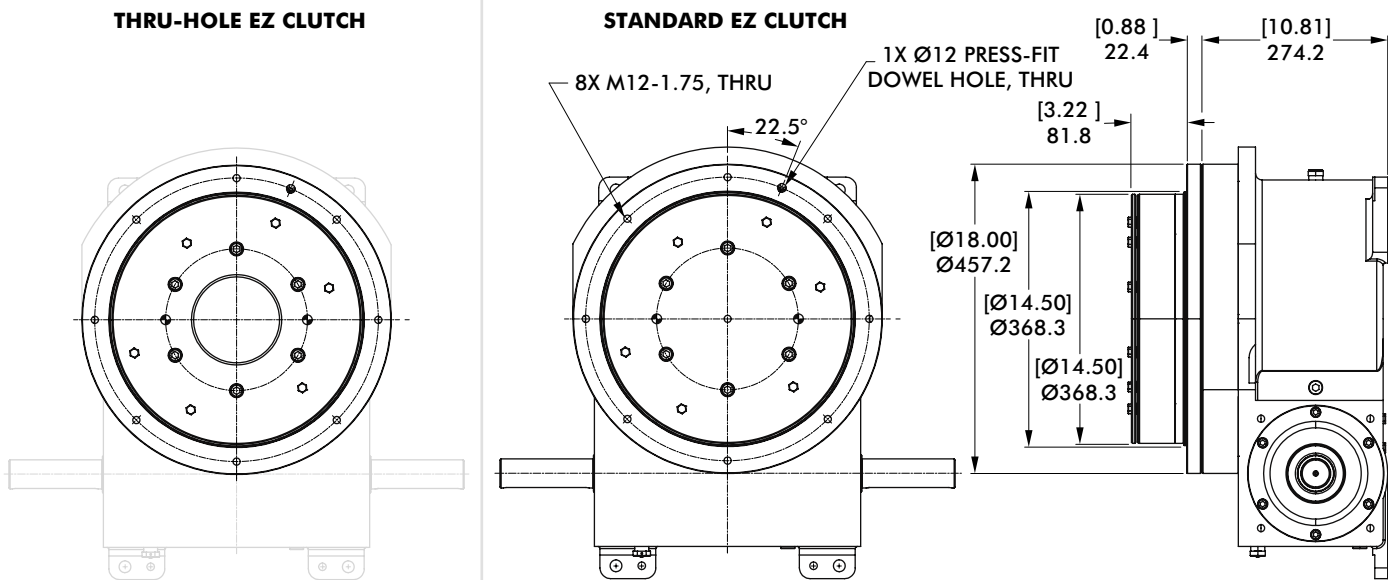
32D Overload Clutch



32D Overload Clutch with EZ Dial Mounting Adapter

mm [INCH]

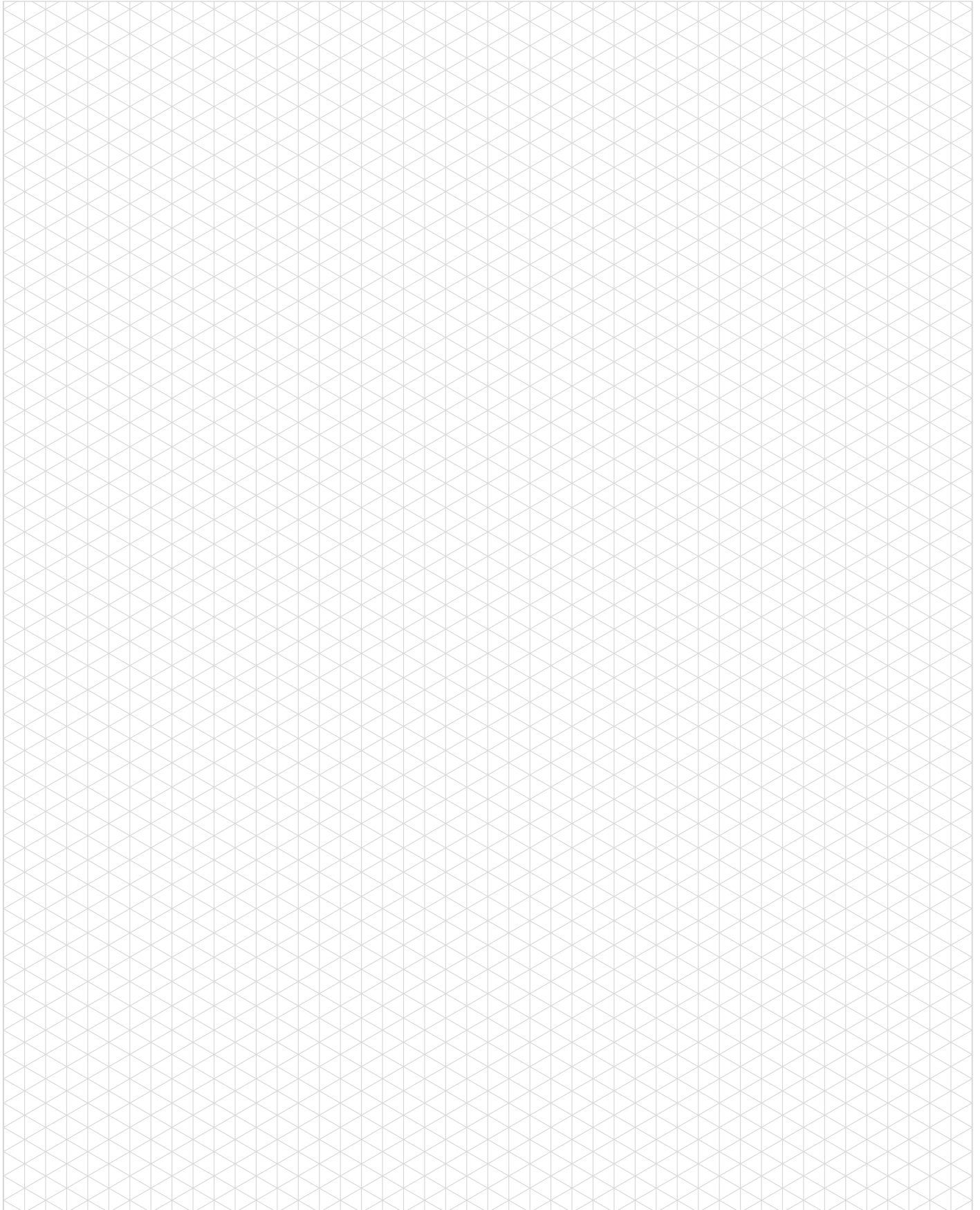
THIRD ANGLE PROJECTION



Model	Internal Inertia kg-m ² [lb-in ²]	Torque Setting N-m [in-lb]
32D	0,852 [2910]	960, 1469, 2260, 3503 [8500, 13000, 20000, 31000]

1305RDM SERIES

Notes



Maximum Inertia x 1000 kg-cm ² [lb-in ²] for standard package							
Stops	Motion Time [seconds]						
	0.458	0.611	0.764	0.917	1.222	1.528	1.833
2	0 [0]	0 [0]	23 [8]	79 [27]	266 [91]	533 [182]	749 [256]
3	0 [0]	32 [11]	120 [41]	255 [87]	720 [246]	1381 [472]	1917 [655]
4	3 [1]	91 [31]	249 [85]	495 [169]	1332 [455]	2523 [862]	3488 [1192]
6	56 [19]	243 [83]	577 [197]	1097 [375]	2871 [981]	5390 [1842]	7439 [2542]
8	132 [45]	462 [158]	1056 [361]	1984 [678]	5133 [1754]	9616 [3286]	13257 [4530]
12	351 [120]	1100 [376]	2435 [832]	4518 [1544]	11606 [3966]	21690 [7412]	29881 [10211]
16	656 [224]	1987 [679]	4360 [1490]	8065 [2756]	20666 [7062]	38593 [13188]	53152 [18163]
Reducer Ratio							
	15	20	25	30	40	50	60

Other Motions (stops and index periods) available. Contact your DESTACO sales representative for more information.

Features

- 7400C Reducer (Ratios from 15:1 to 60:1)
- Double Extended Camshaft (Input Shaft)
- Center Thru Hole (Ø165,1 mm [Ø6.50 in.])
- 2 or 3 HP AC Drive Package with Inverter Duty Motor and Inverter Drive (up to 60 cpm)
- Cycle Cam and Limit Switch Mounted to Camshaft
- Right Hand Cam

Output Load Capacity (loads carried during index):

Radial	26022 N [5850 lbs]
Thrust/Axial	61166 N [14650 lbs]
Moment	7696 N-m [68119 in-lb]

Typical Application Dial Diameter:

660 mm [26 in] to 1829 mm [96 in]

Accuracy

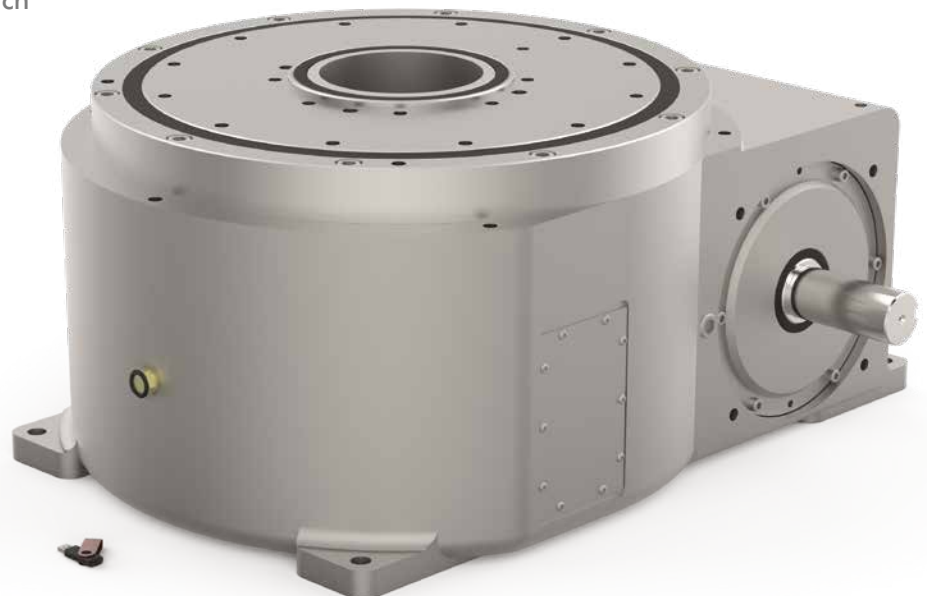
±27 arcsec / ±0,15 mm [±.006in]
at 1219,2 mm [48in] Radius

Repeatability

±7 arcsec / ±0,041 mm [±.0016in]
at 1219,2 mm [48in] Radius

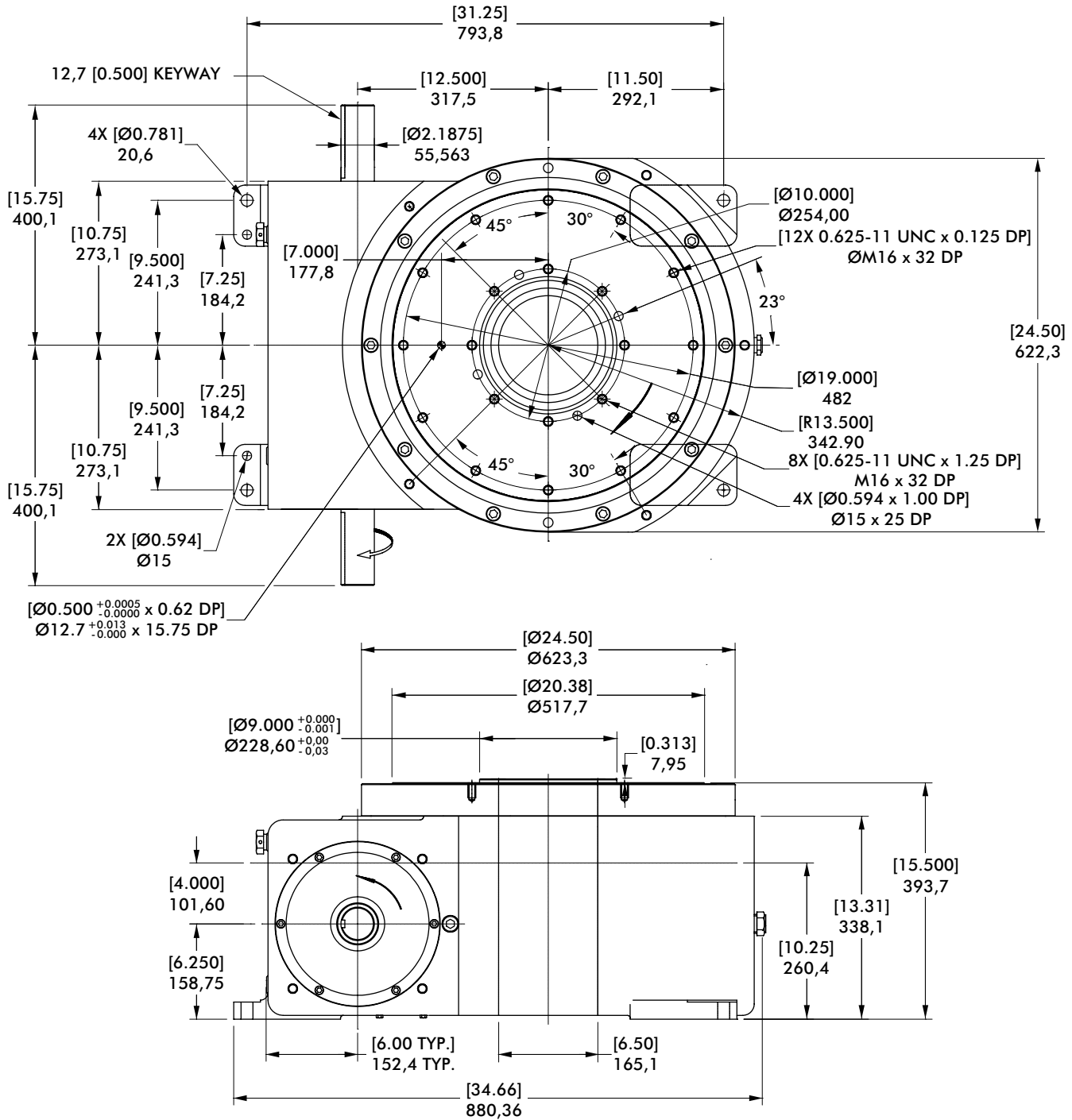
Optional Accessories

- 2 hp DC Motor with Varipak DC Motor Control (up to 30 cpm)
- 3 hp DC Motor
- 7500C Heavy Duty Reducer (Ratios from 10:1 to 60:1)
- Output Mechanical Overload Clutch – See Page 39
- EZ Mount Dial Adapter
- Stationary Center Post
- Dual Cam and Limit Switch
- Base Riser Blocks
- Electric Clutch-Brake
- Left Hand Cam
- Relief in Dwell for shot-pin applications

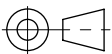


180ORDM SERIES

Rotary Index Drive | Dimensions



mm [INCH]

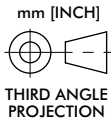
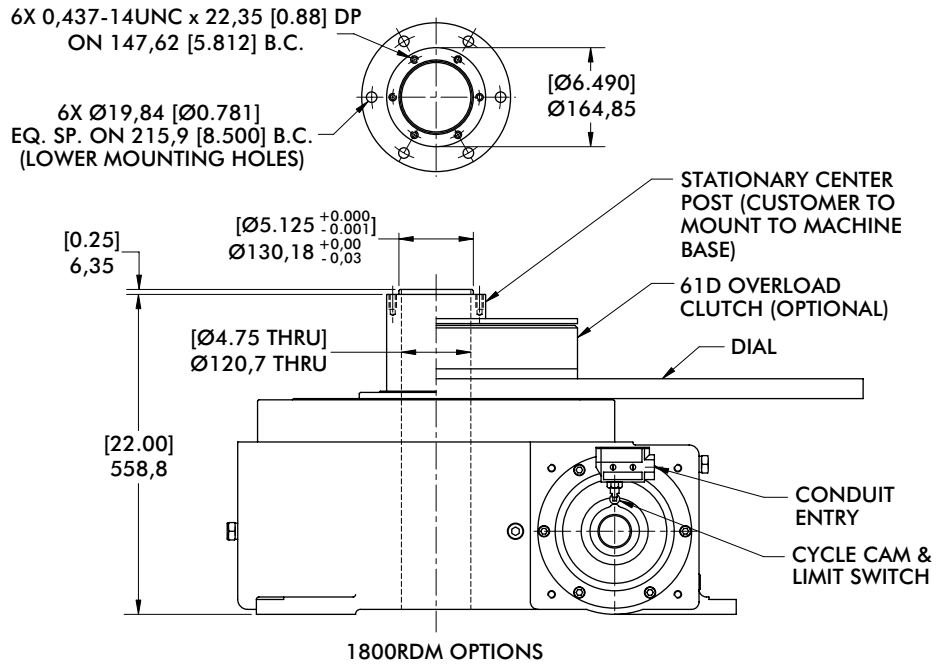


THIRD ANGLE PROJECTION

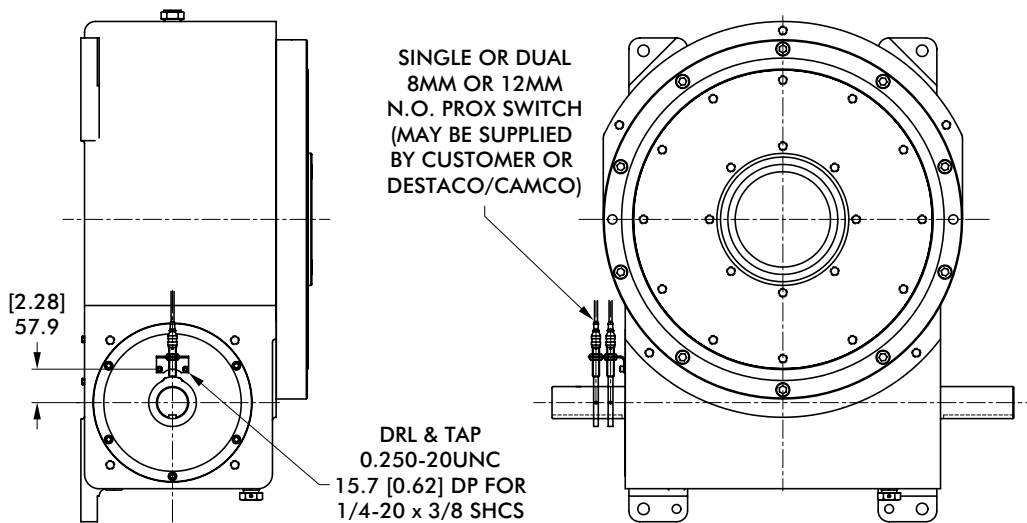
1800RDM SERIES

Rotary Index Drive | Product Overview | Technical Specifications

Center Post



Proximity Switch

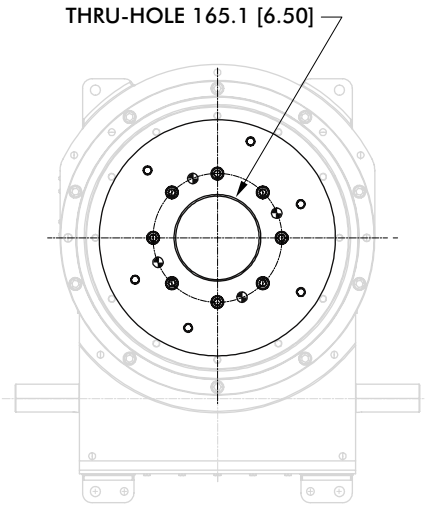


180ORDM SERIES

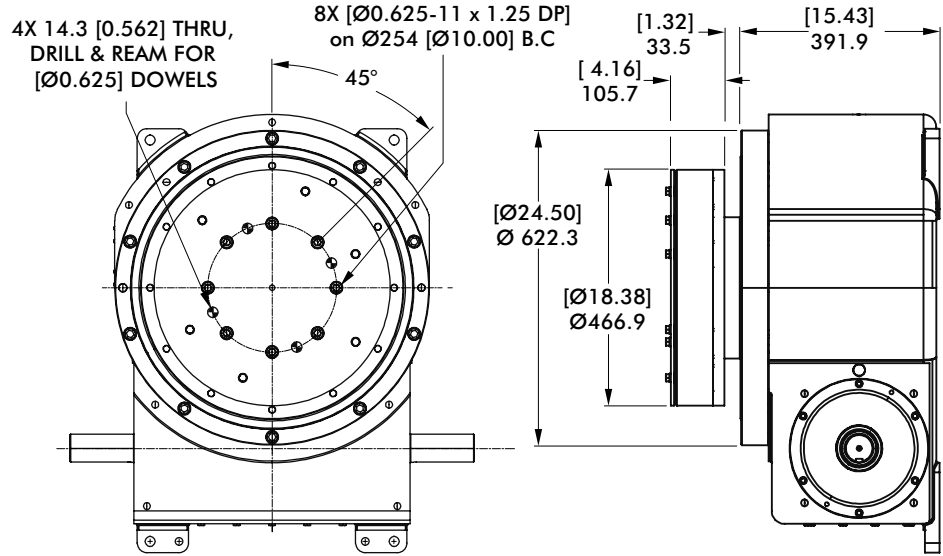
Rotary Index Drive | Dimensions

61D Overload Clutch

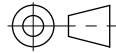
THRU-HOLE CLUTCH



STANDARD CLUTCH



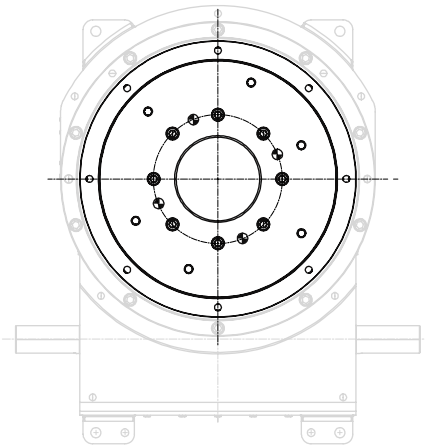
mm [INCH]



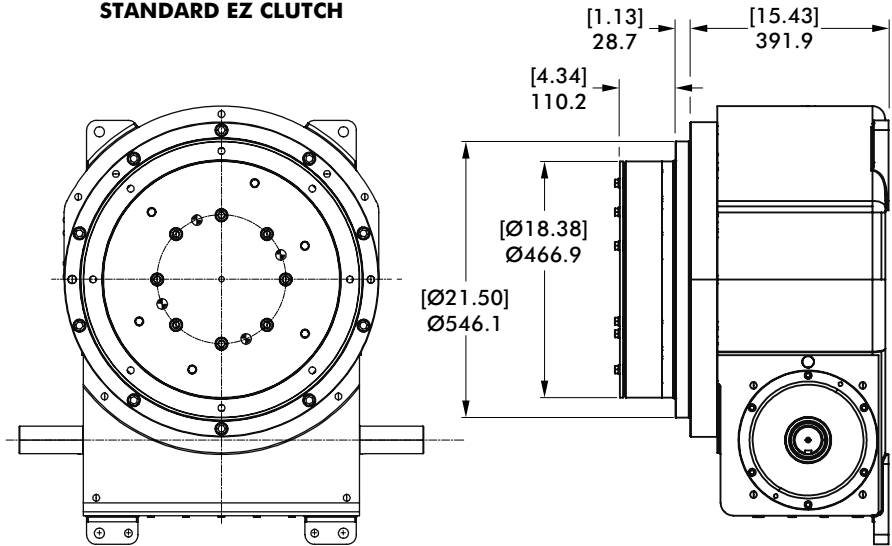
THIRD ANGLE PROJECTION

61D Overload Clutch with EZ Dial Mounting Adapter

THRU-HOLE EZ CLUTCH



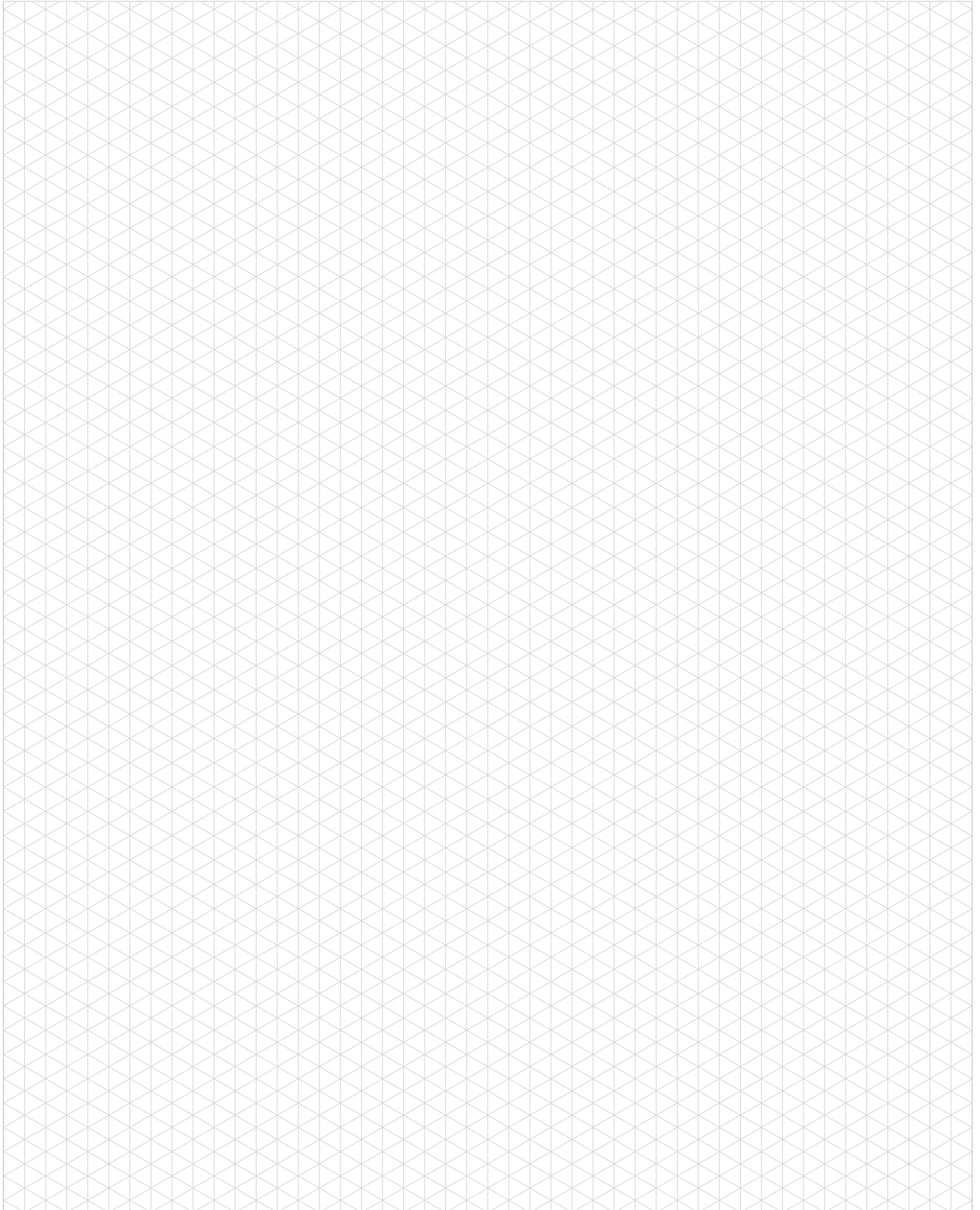
STANDARD EZ CLUTCH



Model	Internal Inertia kg-m ² [lb-in ²]	Torque Setting N-m [in-lb]
61D	1,434 [4900]	2599, 4067, 4971, 5649, 6779 [23000, 36000, 44000, 50000, 60000]

1800RDM SERIES

Notes



CUSTOM CAMS

Product Overview








CAMCO Custom Cams serve as an economical alternative to “in house” cam design, engineering and manufacturing. Backed by over 100 years of experience, we offer cams in a comprehensive range of configurations, tolerances and materials.

Our designers employ the most advanced computer technology available for detailed kinematic studies and dynamic analysis. In addition to common dimensional inspection, we perform computerized contour measurements with sophisticated, unique inspection equipment in both 2D and 3D.

Our commitment to applied engineering allows us to respond quickly to complicated manufacturing issues with specialized solutions that are precise, economical and engineered to your exacting specifications. Alternative materials, milling, and grinding techniques are explored to provide the best solution for your application at the most economical price.

To assist in your in-house cam design, you can download Clyde H. Moon’s “Cam Design Manual for Engineers, Designers, and Draftsman” from the DESTACO website, www.destaco.com.

Custom Cams are available in a variety of styles:

<p>Plate Cams Popular, economical design used in low speed applications.</p>	
<p>Globoidal Cams Complex, tapered rib globoidal cams, commonly known as roller gear cams, are the heart of IMC's indexers. Controlled follower preloads increase follower life, speeds and accuracy for the ultimate solution in motion control.</p>	
<p>Face-Grooved Cams Medium speed cams using a groove slightly larger than the follower diameter providing minimal running clearance and reduced backlash.</p>	
<p>Conjugate Cams Dual cams controlling preloaded followers which provide higher speed capabilities and better accuracy.</p>	
<p>Barrel Cams Cylindrical cams which can be provided as an end cam, grooved type with minimal follower clearance or as a ribbed type utilizing preloaded followers for increased life and accuracy.</p>	

RITE-LINK SERIES

Features and Benefits

Right Sized Conveying

The **CAMCO Rite-Link Conveyor** is a thin-profile, preassembled, precision link system offering maintenance free accuracy and durability for industrial conveying applications.

Precision positioning requiring higher precision or speed than roller chain can provide

Material conveying (industrial or medical): for example, narrow cleat or bucket conveyor for constant speed applications. The conveyor can be mounted for either over/under or carousel operation

NEW



Features:

Assembly

- Fully designed, assembled and tested for your application
- Can be used in an over/under or carousel configuration

Size

- Slim, compact design with narrow links accommodates oversized tooling
- Easy to integrate
- Servo-friendly for flexible indexing with CAMCO RSD rotary servo drive

Accuracy

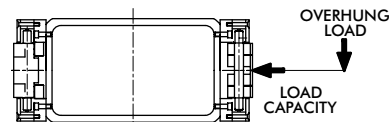
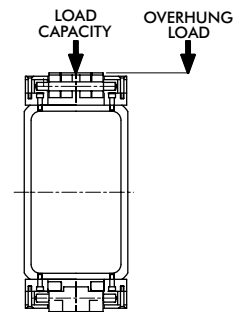
- Precision motion from the trusted industry leader
- More accurate and stable than roller chain

Operation

- High operation speeds
- No lubrication needed
- Energy efficient
- Cost Effective

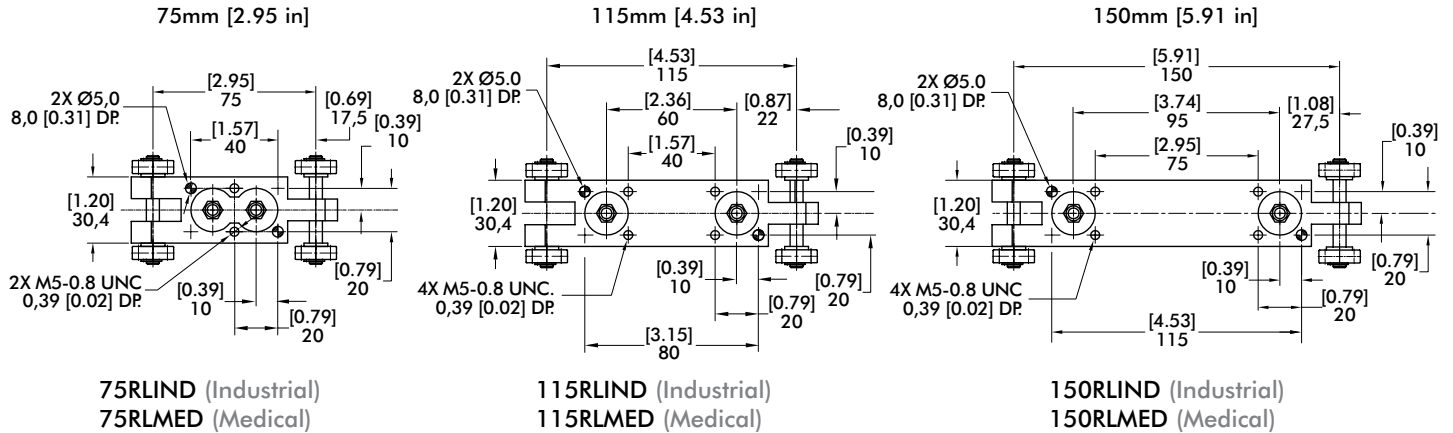
Maximum Load	Units	75RL...	115RL...	150RL...
Max Load per Link	kg [lbm]		4 [8.82]	
Max Overhung Load per Link	N-m [in-lb]		0,57 [5]	

* shipping/clearance dimensions

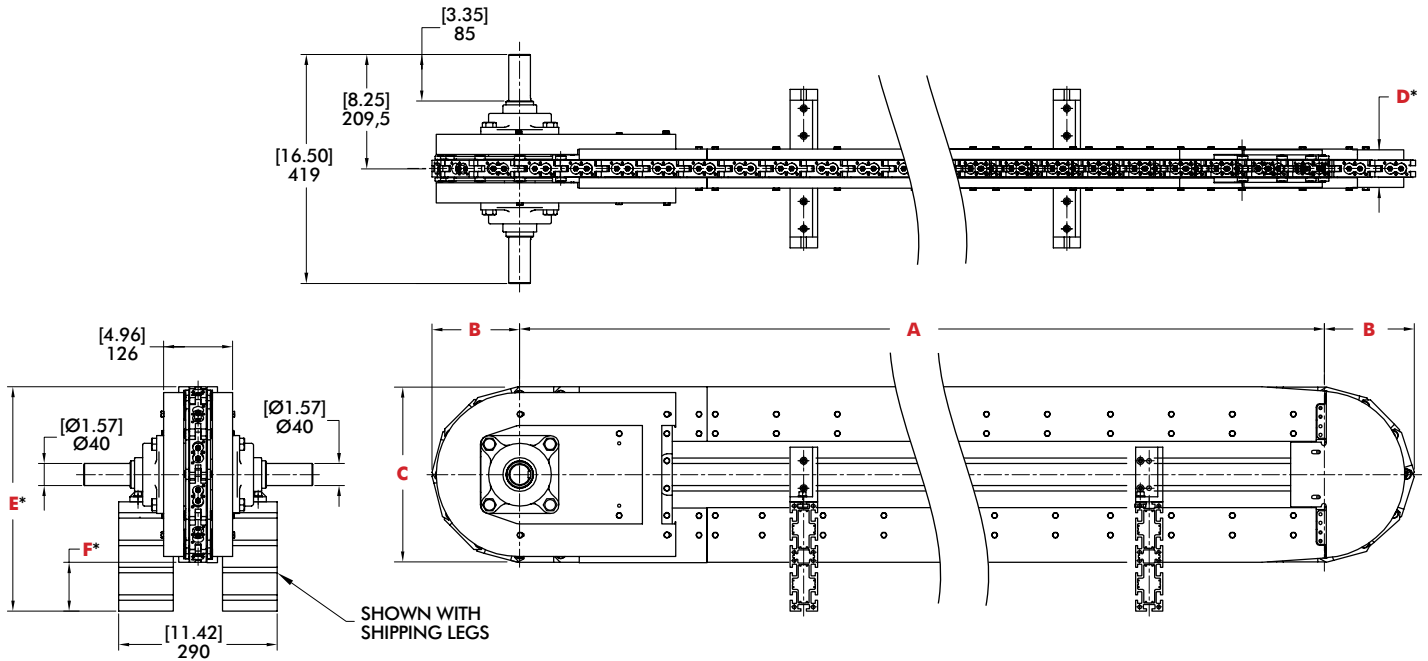


RITE-LINK SERIES

Link Dimensions



Standard Centers Dimensions



Technical Information

Dimensions	Units	75RL...	115RL...	150RL...
A Standard Center Distances				
Option 1	m [ft]	1,2 [3.94]	1,38 [4.53]	1,2 [3.94]
Option 2		2,1 [6.89]	2,30 [7.55]	2,1 [6.89]
Option 3		3 [9.84]	3,22 [10.56]	3 [9.84]
Option 4		3,9 [12.80]	4,14 [13.58]	3,9 [12.80]
Option 5		4,8 [15.75]	5,06 [16.60]	4,8 [15.75]
B	mm [in]	162,5 [6.40]	166 [6.54]	162,5 [6.40]
C	mm [in]	320 [12.60]	332 [13.07]	332 [13.07]
D*	mm [in]	78,1 [3.07]	78,1 [3.07]	78,1 [3.07]
E*	mm [in]	411 [16.18]	466,2 [18.35]	416 [16.38]
F*	mm [in]	89 [3.50]	133,8 [5.27]	84 [3.31]

* shipping/clearance dimensions

SIZING AND APPLICATION CHART

Tool Changers

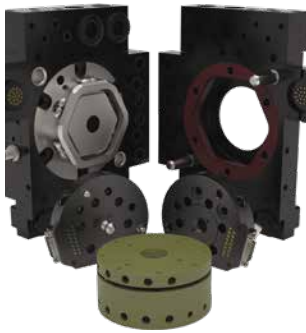
Manual Tool Changer

See Page TC-TC1-1



Specifications:	TC1	
Max. Payload:	Kg [lb]	10 [22]
Coupled Weight:	Kg [lb]	0.33 [0.73]
Max Moment (My, Mz, Mx)	Nm [in-lb]	100 [885]
Max Force (Fy, Fz)	N [lbf]	1000 [225]
Max Force (Fx)	N [lbf]	100 [22.5]

Automatic Tool Changers



Series	Page-TC-#	Max Moment Kg [lb]		Max Payload Kg [lb]		Weight Kg [lb]		Features																		
		0 to 50 [0 to 110]	50 to 100 [110 to 220]	100 to 500 [220 to 1100]	500 to 1000 [1100 to 2200]	1000 to 2000 [2200 to 4400]	2000 to 3000 [4400 to 6600]	3000 to 4000 [6600 to 8800]	4000+ [9120+]	0 to 50 [0 to 110]	50 to 100 [110 to 220]	100 to 500 [220 to 1100]	500 to 1000 [1100 to 2200]	1000+ [2280+]	0 to 2 [0 to 4.4]	2 to 4 [4.4 to 8.8]	4 to 6 [8.8 to 13.2]	6 to 8 [13.2 to 17.6]	8+ [17.6+]	Optional Modules	High Temperature	Round Design	Rectangular Design	Fail-safe Locking		
RQC/RTP-200	RQTP-3			●																	✓		✓	✓		
RQC/RTP-400	RQTP-7				●																✓		✓	✓		
RQC/RTP-800	RQTP-7					●															✓		✓	✓		
RQC/RTP-1200	RQTP-7						●														✓		✓	✓		
RQC/RTP-2400	RQTP-13							●													✓		✓	✓		
QC/TP-30	QCTP-5	●							●													✓		✓		
QC/TP-60	QCTP-7		●						●												✓		✓	✓		
QC/TP-60-10	QCTP-9		●						●													✓	✓	✓		
QC/TP-150	QCTP-11			●					●												✓		✓	✓		
RHC-1	RHC-3	●							●													✓	✓	✓		
RHC-2	RHC-5		●						●													✓	✓	✓		
RHC-3	RHC-7				●				●													✓	✓	✓		
RHC-4	RHC-9					●			●													✓	✓	✓		

Technical Information

Pneumatic Specification

Pressure Range (Locked Cylinder):

3~7 bar [40~100 psi] (QC/TP, RHC Series)

4~7 bar [60~100 psi] (RQC/RTP Series)

Cylinder Type: Double Acting, Spring Assist

Valve Required to Actuate:

3-way, 2-position (QC-30 only)

4-way, 2-Position

Air Quality Requirements

Air Filtration: 40 Microns or Better

Air Lubrication: Not Necessary*

Air Humidity: Low Moisture Content (Dry)

(*Addition of lubrication will greatly increase service life.

Temperature Operating Range

Buna-N-Seals: -35°~80° C [-30°~180° F] (All Models)

Viton® Seals: -30°~150° C [-20°~300° F] (RHC Series)

Maintenance Specification

Expected Life: Normal Application: 5 Million Cycles

With Preventative Maintenance: 10+ Million Cycles

Repeatability: ±0.025mm [±0.001 in]

Field Repairable: Yes


Seal Repair Kits Available: Yes


Application Restrictions

- Dirty or Gritty Environments
- Machining Operations Generating Chips
- Environments with Loose Particulates

SIZING AND APPLICATION CHART

Cylindrical Horizontal Compliance Device



Series	Page-TC-#	Max Centering Force Kg [lb]					Max Payload Kg [lb]			Weight Kg [lb]		Misalignment ±mm [±in]		Features									
		0 to 500 [0 to 1100]	500 to 1000 [1100 to 2200]	1000 to 2000 [2200 to 4400]	2000 to 3000 [4400 to 6600]	3000 to 4000 [6600 to 8800]	4000+ [9120+]	0 to 5 [0 to 110]	5 to 10 [110 to 220]	10 to 20 [220 to 1100]	20 to 40 [1100 to 2200]	0 to 1 [0 to 4.4]	1 to 2 [4.4 to 8.8]	2 to 4 [8.8 to 13.2]	4+ [17.6+]	3 [0.12]	5 [0.20]	6.5 [0.25]	8 [0.31]	12 [0.47]	Custom Misalignment	Optional Spring Assist	Harsh Environments
	CH-50	CH-3	●				●			●				●						✓	✓	✓	✓
	CH-80	CH-4		●				●		●					●					✓	✓	✓	✓
	CH-110	CH-5			●				●			●					●			✓	✓	✓	✓
	CH-140	CH-6				●			●			●		●			●			✓	✓	✓	✓
	CH-165	CH-7					●			●		●		●			●			✓	✓	✓	✓

Technical Information

Pneumatic Specification

Pressure Range (w/o springs): 2-7 bar [30-100 psi]
 Pressure Range (w/springs CH-50): 3-7 bar [43-100 psi]
 Pressure Range (w/springs): 4-7 bar [60-100 psi]
 Cylinder Type: Double Acting, Double Acting Spring Assist, or Single Acting Spring Return
 Dynamic Seals: Internally Lubricated Buna-N
 Valve Required to Actuate: Double Acting: 4-way, 2-Position; Single Acting (-RL or -RA Option): 3-way, 2-Position

Air Quality Requirements

Air Filtration: 40 Microns or Better
 Air Lubrication: Not Necessary*
 Air Humidity: Low Moisture Content (Dry)
 (*)Addition of lubrication will greatly increase service life.

Temperature Operating Range

Buna-N-Seals (Standard): -25°~80° C [-10°~180° F]

Maintenance Specification

Expected Life: Normal Application: 5 Million Cycles
 With Preventative Maintenance: 6+ Million Cycles
 Field Repairable: Yes
 Seal Repair Kits Available: Yes

ROBOTIC TOOLING SOLUTIONS

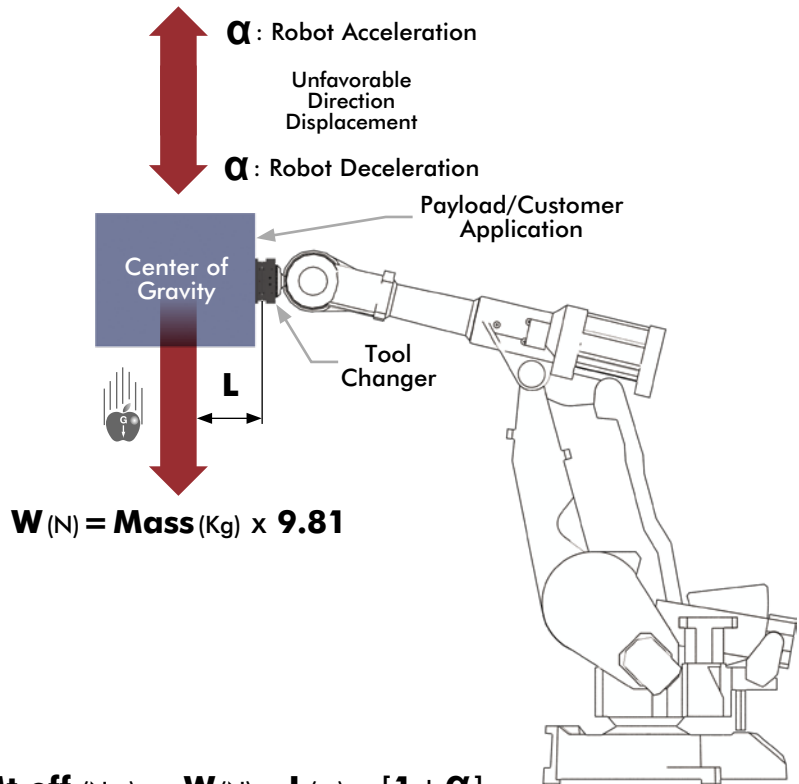
Automatic Tool Changer Sizing Guide

For tool changer sizing, the maximum effective moment during displacement will be considered. The effective moment will be calculate in the worst case of the application, and must consider:

- The weight of the tool
- The position of the center of gravity
- The dynamic effect due to the maximum acceleration or deceleration. (Emergency stop for example)

See below the simplified calculation formula to estimate the effective moment of your application.

Required Information		
M	Mass of the tool attached on the tool changer	Kg
L	Distance from the payload center of gravity to the tool changer	m
α	Maximum acceleration or deceleration of the robot	g



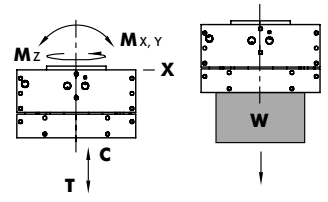
Effective Moment → $M_{t \text{ eff}} \text{ (Nm)} = W \text{ (N)} \times L \text{ (m)} \times [1 + \alpha]$

CAUTION: Applications with high and wide loads: in case of heavy application, we strongly recommend to strengthen the cylindrical and diamond indexing pins, between tool changer and tool plate, by adding larger diameter pins, the farthest to the center of changer tool, incorporated into the design of the tooling.

Application Example

Application Data	
Mass of tool	90 kg
Center of gravity / Tool Changer	0.5 m
Acceleration (or deceleration) of displacement	2 g

Loading Capacity:
 Max. Tensile **T**: 2670 N [600 lb]
 Max. Compressive **C**: 3560 N [800 lb]
 Max. Moment (**M_x/M_y/M_z**) **1580 Nm [14000 in-lb]**



$M_{t \text{ eff}} = (90 \times 9.81) \times 0.5 \times (1 + 2)$
 $M_{t \text{ eff}} = 883 \times 0.5 \times 3$
 $M_{t \text{ eff}} = 1324.5 \text{ Nm}$

The obtained value 1324.5 Nm should be compared to the technical data of our products in this catalog in the "loading capacity information" section. For this application, the choice will be a RQC-400M tool changer that has a qualifying capacity, in terms of torque, of 1580Nm, over than the 1325Nm of the application.

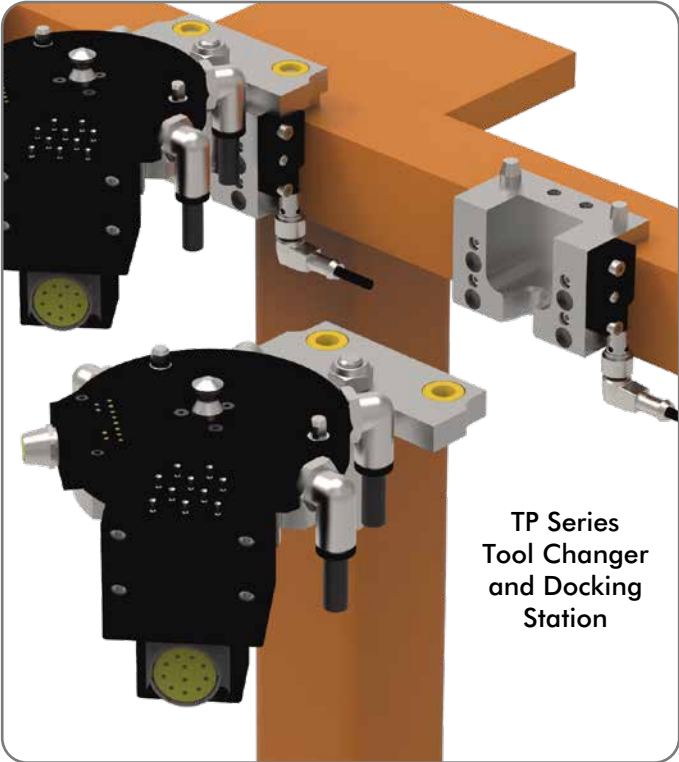
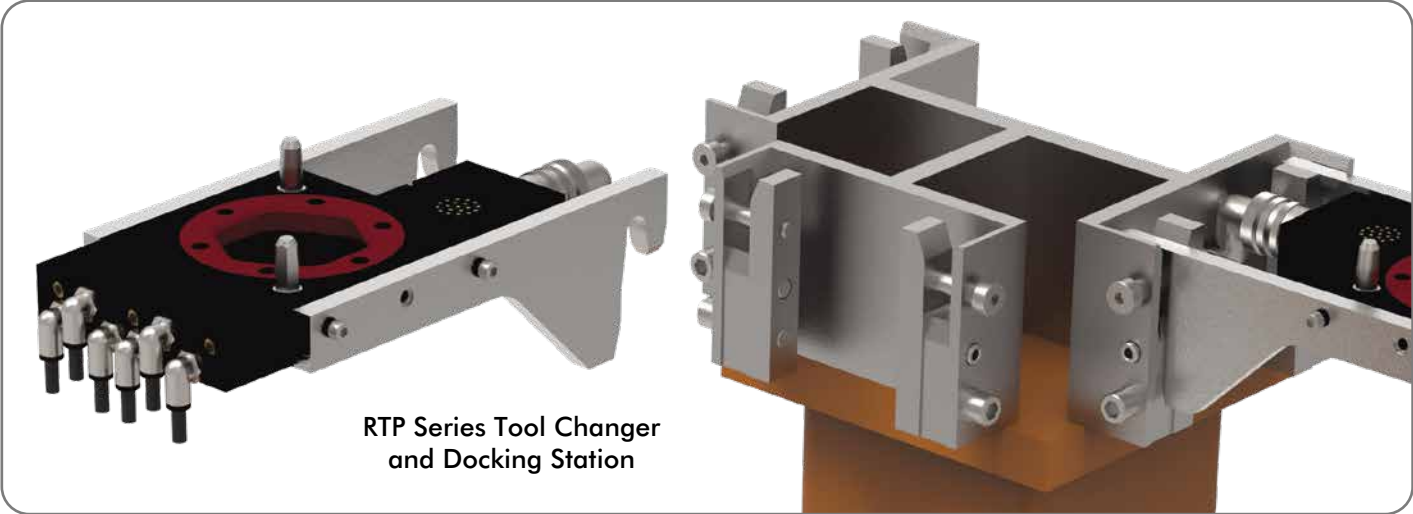
ROBOTIC TOOLING SOLUTIONS

Tool Changer Docking Station

Destaco offers custom and standard Docking Stations to fit customers needs. Please contact Destaco Sales for more information.

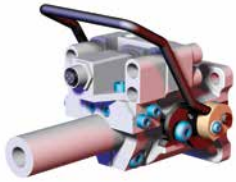
Key Features:

- Allows for quick changing of tooling
- Reducing machine down-time
- Safely stores tooling when not in use
- Standard or custom stations



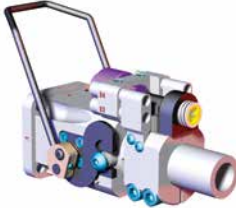
MANUAL TOOL CHANGERS

Features & Benefits



Quick Disconnect for 25mm/1.00 in. Tubes

Housing	4
Air/Electric Connections.....	6
Bayonet	8
Air/Electric Connections.....	9



Quick Disconnect for 40mm/1.50 in. Tubes

Housing	10
Air/Electric Connections.....	13
Bayonet	19
Air/Electric Connections.....	20



Quick Disconnect for 60mm/2.50 in. Tubes

Housing	26
Air/Electric Connections.....	27
Bayonet	31
Air/Electric Connections.....	32



Idle Station	37
---------------------------	-----------

RDN/RDC SERIES

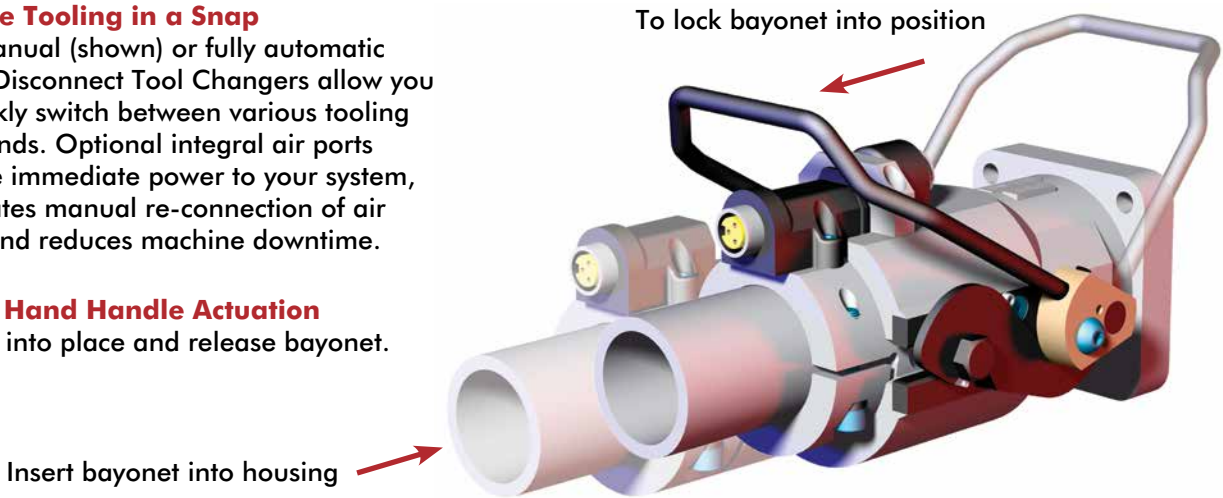
Table of Contents

Change Tooling in a Snap

Our manual (shown) or fully automatic Quick Disconnect Tool Changers allow you to quickly switch between various tooling in seconds. Optional integral air ports provide immediate power to your system, eliminates manual re-connection of air lines, and reduces machine downtime.

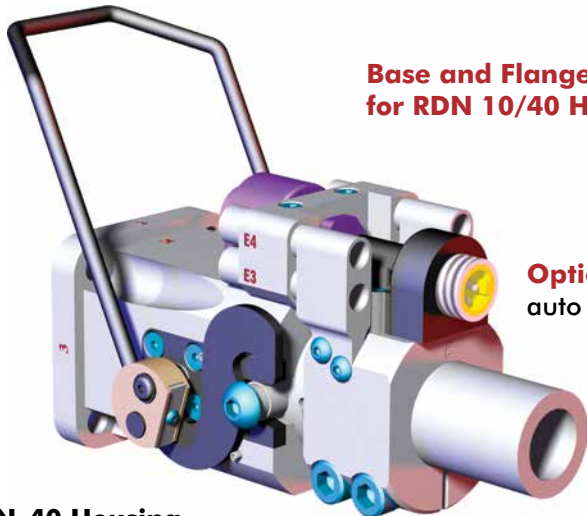
Single Hand Handle Actuation

To lock into place and release bayonet.



RDN/RDC Features

(Handle in release position)



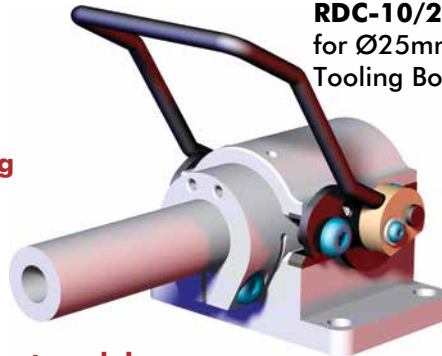
RDN-40 Housing
RDC-40/15 Bayonet
for Ø40mm/1.50"(in)
Tooling Boom/Tubes

Internal urethane bumpers
ensures a tight interface between
the robot and tool sides

Air & electrical connections
stay properly sequenced when tool is removed.

Additional electrical connectors available
RDN-40 and RDH electrical connectors must be
ordered separately from Housing/Bayonet.

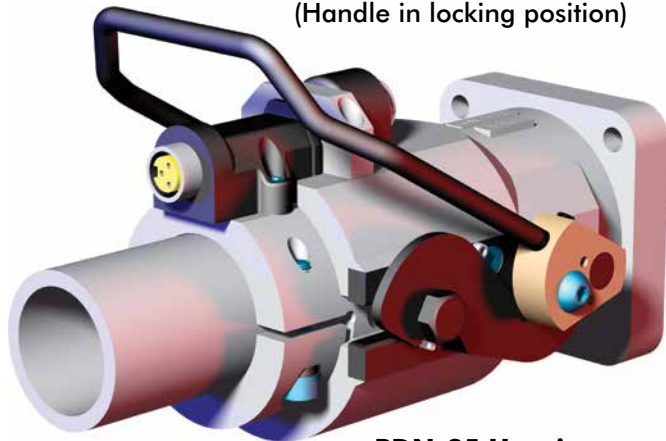
(Handle in locking position)



RDN-10 Housing
RDC-10/25M Bayonet
for Ø25mm/1.00"(in)
Tooling Boom/Tubes

Optional air port modules
auto disconnect when handle is released

(Handle in locking position)



RDN-25 Housing
RDC-60/25 Bayonet
for Ø60mm/2.50"(in)
Tooling Boom/Tubes

BAYONETS FOR MANUAL TOOL CHANGERS

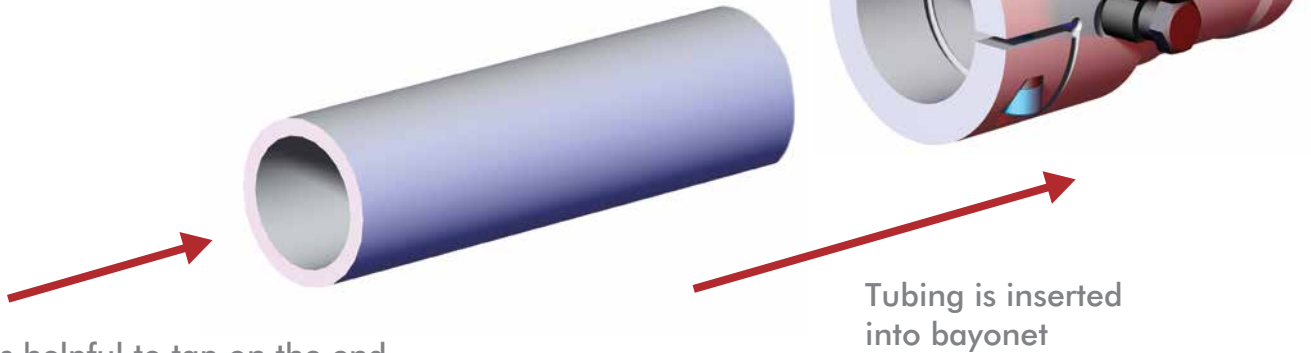
Manual Tool Changers | Bayonet & Boom Assembly Procedure | Product Overview

Overview:

The internal surface of the bayonet is tapered to lock the tubing in the position during hi-torque operations. Tubing must be inserted the proper distance to completely engage the taper.

Procedure:

Part Number	Depth
CPI-RDC-10-1	70mm [2.75 in]
CPI-RDC-25M-1	70mm [2.75 in]
CPI-RDC-15-1	102mm [4.00 in]
CPI-RDC-40-1	102mm [4.00 in]
CPI-RDC-25-2	152mm [6.00 in]
CPI-RDC-60-2	152mm [6.00 in]
CPI-RDC-25-2HT	171mm [6.75 in]



It is helpful to tap on the end of the tubing with a mallet until the tubing is seated firmly against the taper

RDN-10 DISCONNECT HOUSINGS

Manual Tool Changers | Flange Style Housing for RDC-10 Series Bayonets | Product Overview

Features:

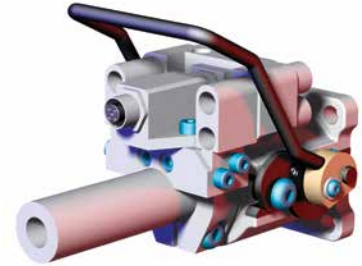
- 50.8mm [2.00 in.] Sq. Flange Mntg.
- Steel handle actuation allows quick and accurate installation, pulling the bayonet into a fixed position within the housing. This action also engages optional air and electric connectors
- Internal urethane rings eliminate vibration and seat the bayonet securely

Specifications:

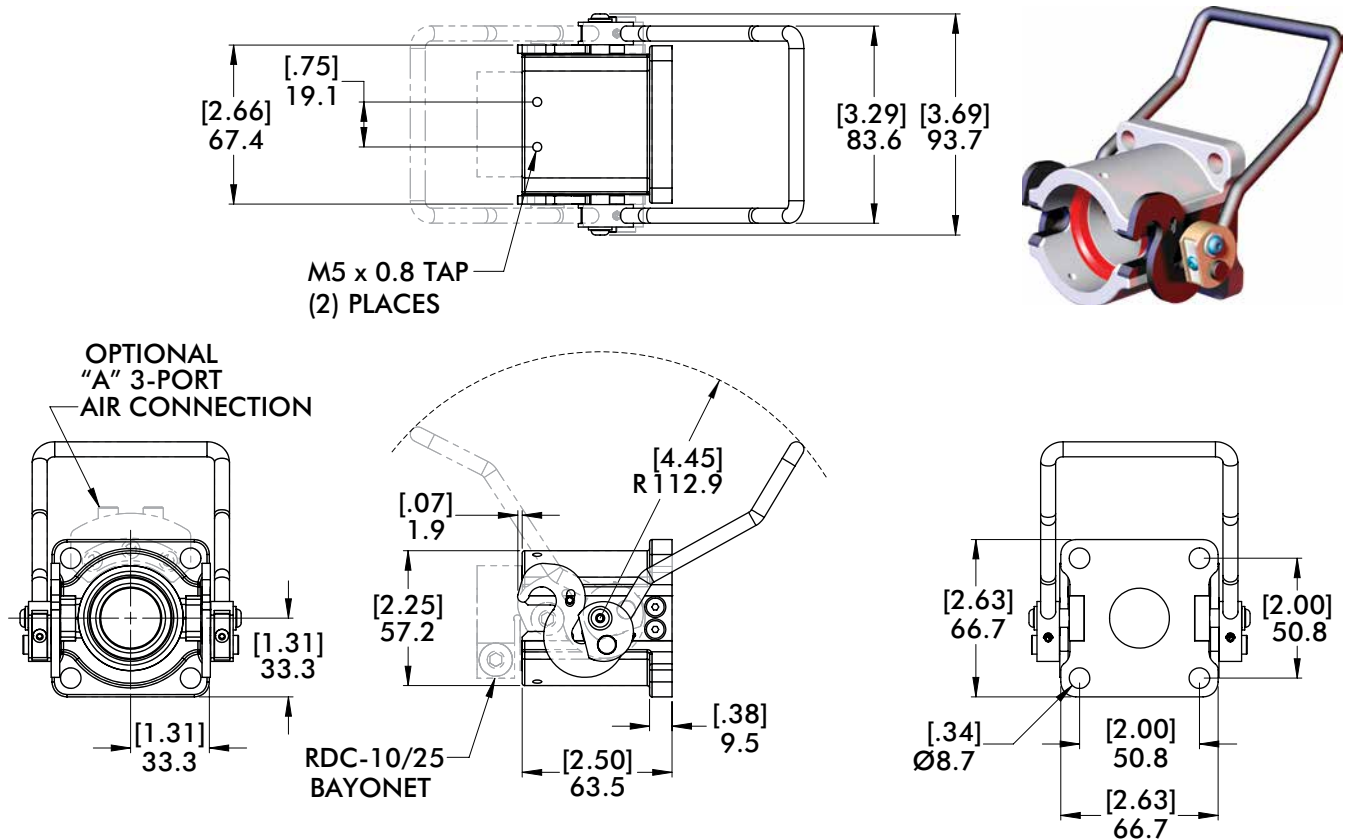
Max. Static Product Load:
47 N*m [35 ft-lb]

Material:
Body: Aluminum
Knuckles: Brass
Handle and Hooks: Steel
Inserts: Urethane

Weight:
0.63 kg [1.4 lb]



Dimensions

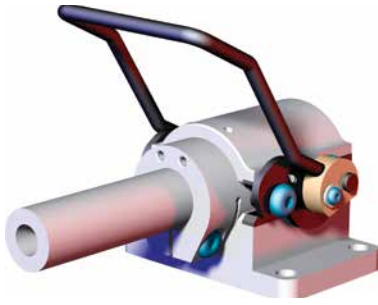


How To Order

	Model	Mounting	Air Port Connection	Electrical Connection
CPI	RDN-10	1F	4AS	5E
	"RDN-10" Ø25mm/1.00" Quick Disconnect Housing	"1F" Flange Type Mounting	"A" (3-Port Connector) "5A" (5-Port Connector) "4AS" (4-Port Connector) (Leave blank for No Options)	"5E" (5-Pin Connector) (Only available for "4AS" Option)

RDN-10 HOUSINGS

Manual Tool Changers | Base Mount Style for RDC-10 Series Bayonets | Product Overview



Specifications:

Max. Static Product Load: 47 N*m [35 ft-lb]

Material:

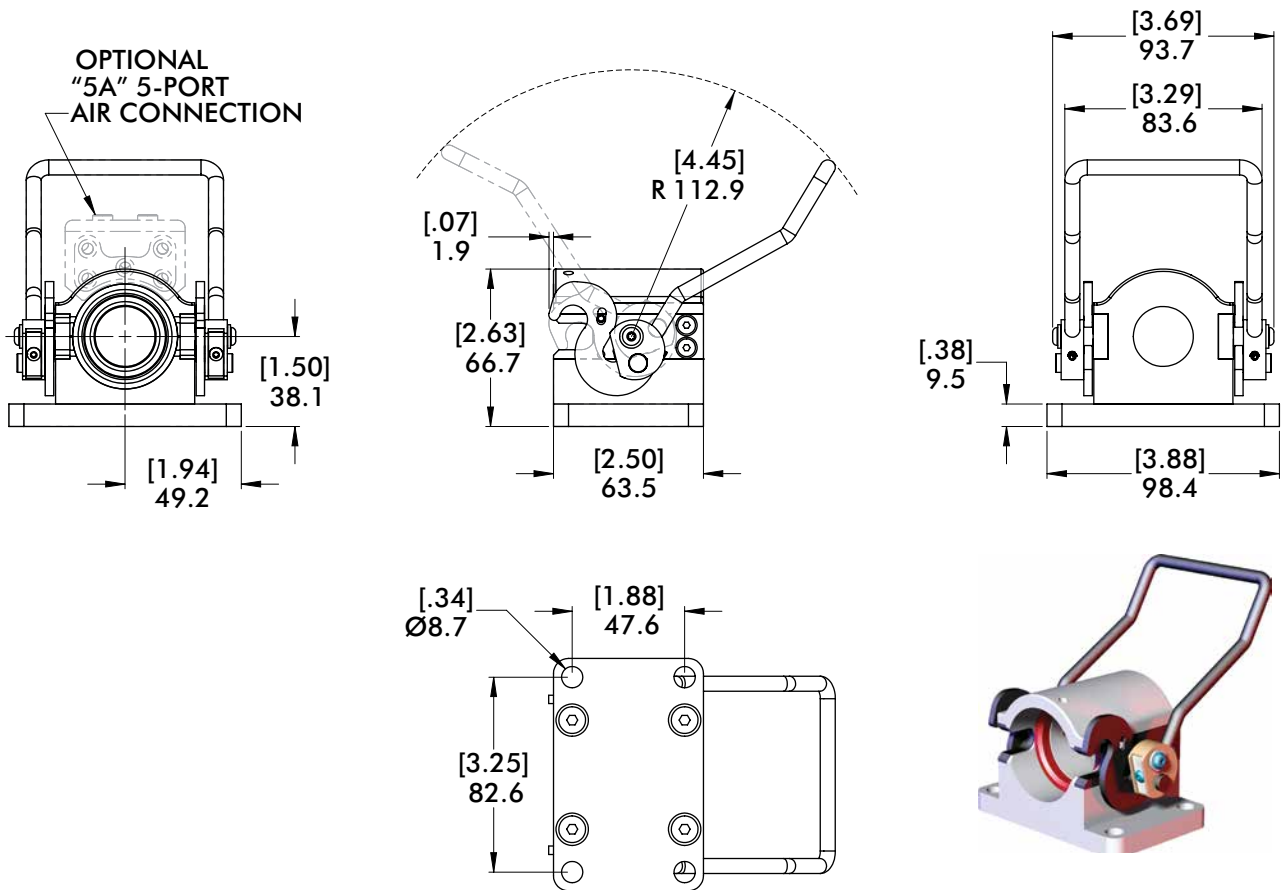
Body: Aluminum
Knuckles: Brass
Handle and Hooks: Steel
Inserts: Urethane

Weight: 0.82 kg [1.8 lb]

Features:

- 47.6mm x 82.6mm [1.88 in. x 3.25 in.] Base Mounting.
- Steel handle actuation allows quick and accurate installation, pulling the bayonet into a fixed position within the housing. This action also engages optional air and electric connectors
- Internal urethane rings eliminate vibration and seat the bayonet securely

Dimensions



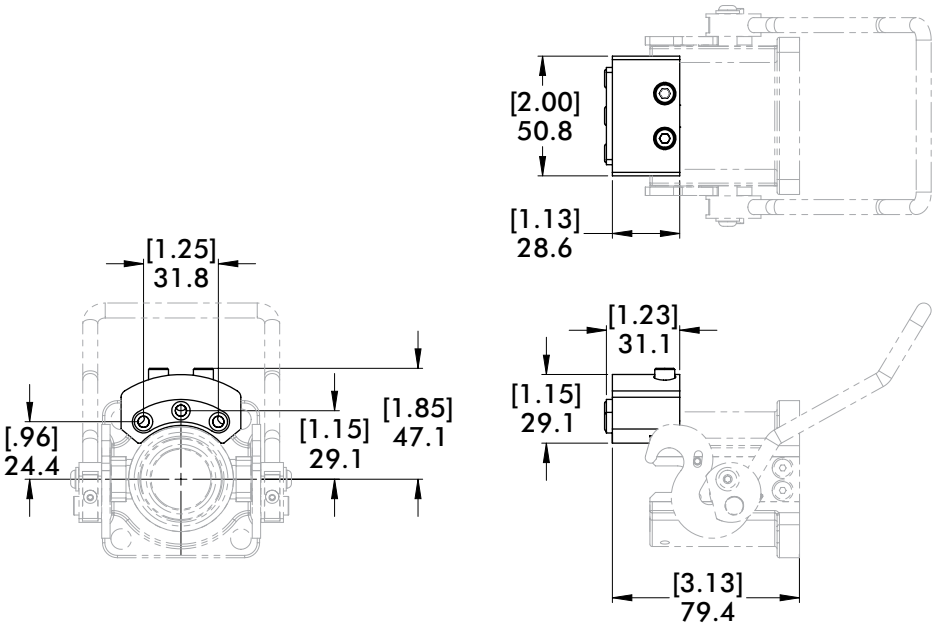
How To Order

	Model	Mounting	Air Port Connection	Electrical Connection
CPI	RDN-10	1B	4AS	5E
	"RDN-10" Ø25mm/1.00" Quick Disconnect Housing	"1B" Base Type Mounting	"A" (3-Port Connector) "5A" (5-Port Connector) "4AS" (4-Port Connector) (Leave blank for No Options)	"5E" (5-Pin Connector) (Only available for "4AS" Option)

AIR MANIFOLDS

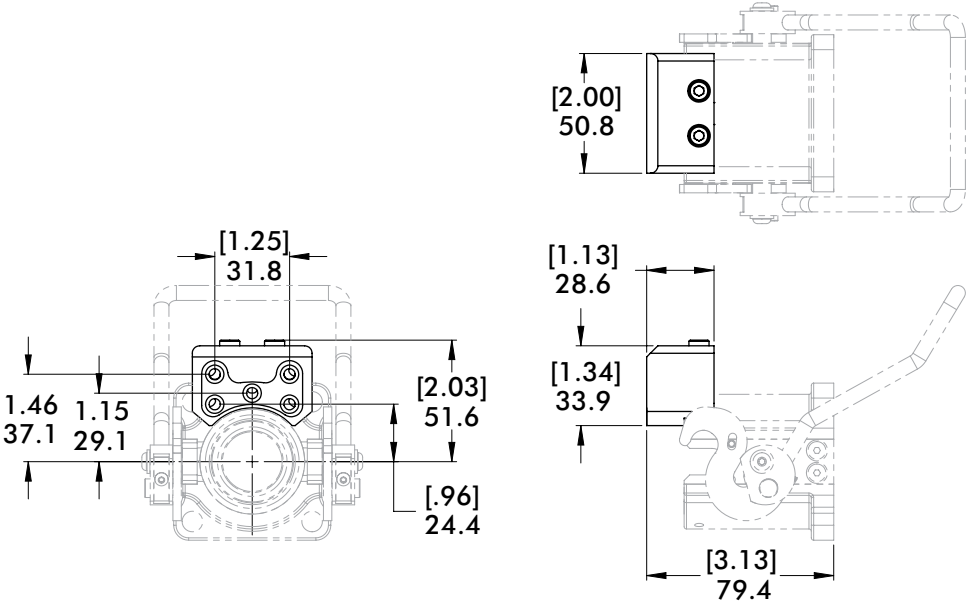
Manual Tool Changers | RDN-10 Disconnect Series | Dimensions

1A 3-Port Air Connection



REPLACEMENT PART
RDN-10-8

5A 5-Port Air Connection

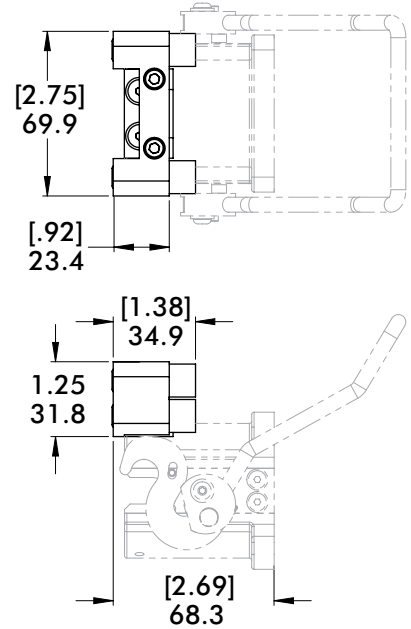
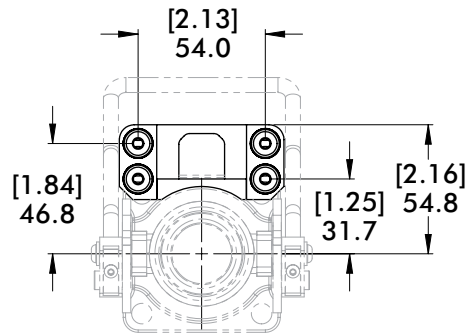
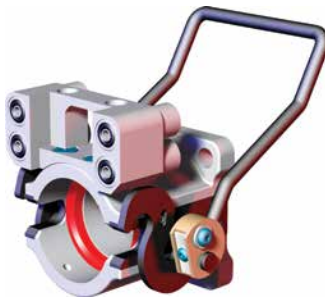


REPLACEMENT PART
RDN-10-9

AIR MANIFOLDS WITH OR WITHOUT ELECTRICAL CONNECTIONS

Manual Tool Changers | RDN-10 Disconnect Series | Dimensions

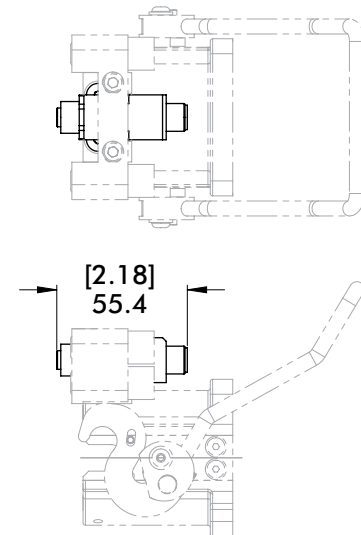
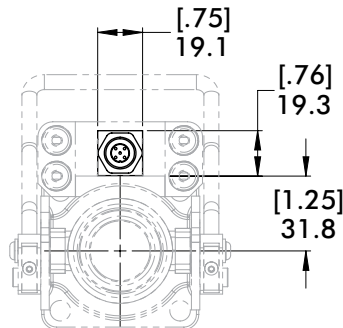
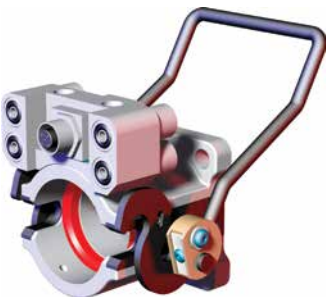
4AS 4-Port Air Connection with Shutoff



REPLACEMENT PART
CPI-RDN-10-4AS

Air fittings
(4) Needed
RDN-AS-U18

5E 5-Pin Micro Electric Connection



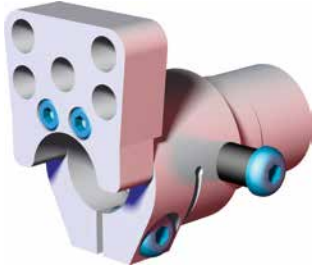
See Page 17 for
Pin Configuration

REPLACEMENT PART
CPI-RDH-F5S-5MCM

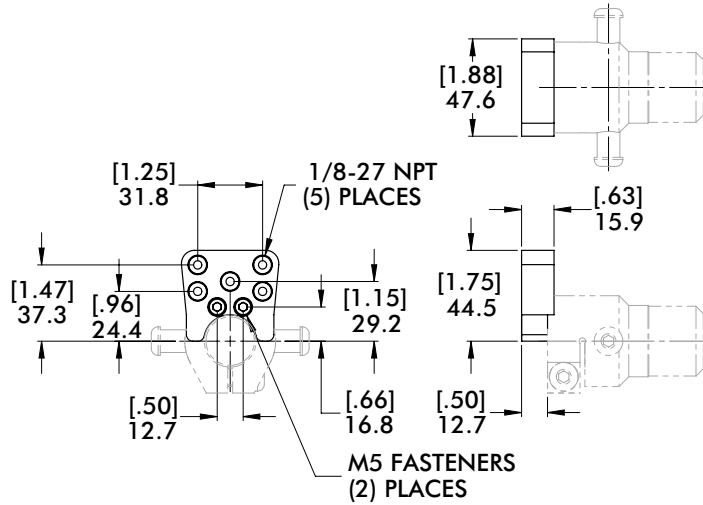
AIR MANIFOLDS WITH OR WITHOUT ELECTRICAL CONNECTIONS

Manual Tool Changers | RDC-10/25 Series Bayonets | Dimensions

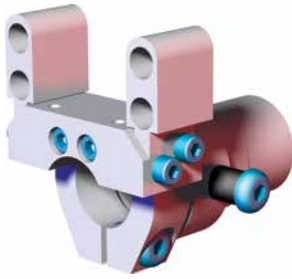
5A 5-Port Air Connection



REPLACEMENT PART
RDC-10-5

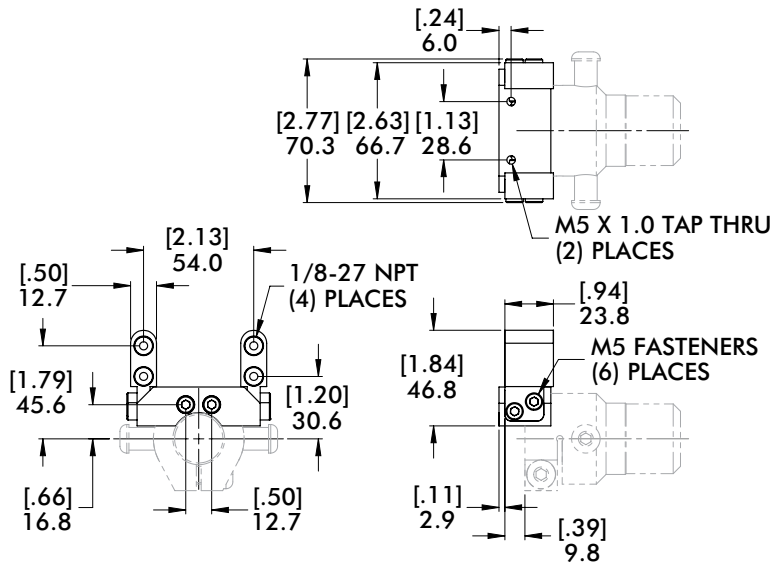


4AS 4-Port Air Connection with Shutoff

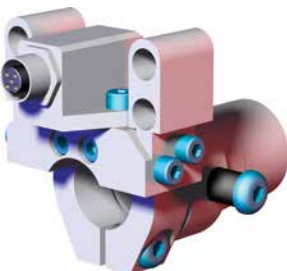


(2) Required

REPLACEMENT PART
RDC-10-4

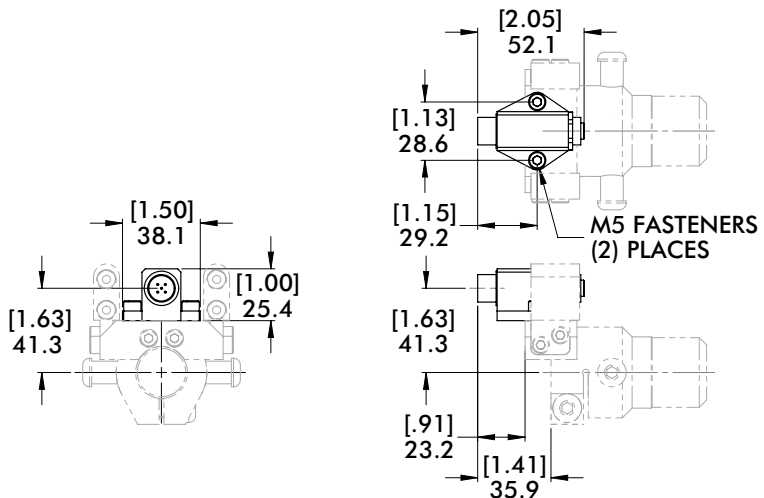


5E 5-Pin Micro Electric Connection



See Page 23 for
Pin Configuration

REPLACEMENT PART
CPI-RDB-M5P-5MCF



RDN-40 DISCONNECT HOUSINGS

Manual Tool Changers | Flange Style Housing for RDC-40/150 Series Bayonets | Product Overview

Features:

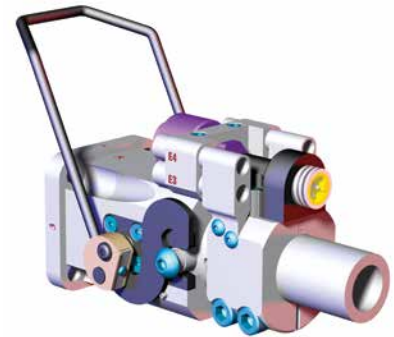
- 60.3mm [2.38 in.] Sq. Flange Mntg.
- Steel handle actuation allows quick and accurate installation, pulling the bayonet into a fixed position within the housing. This action also engages optional air and electric connectors.
- Internal urethane rings eliminate vibration and seat the bayonet securely.

Specifications:

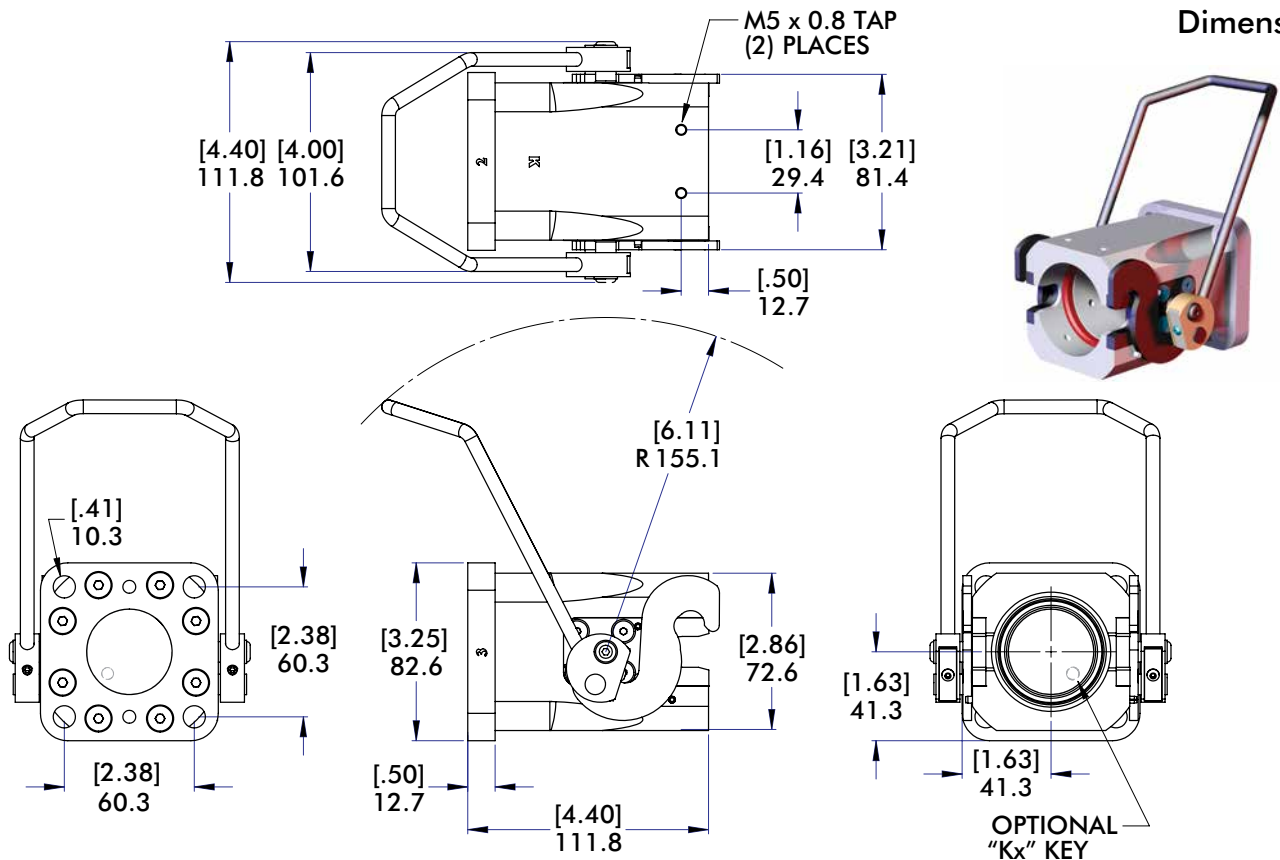
Max. Static Product Load:
305 N*m [225 ft-lb]

Material:
Body: Aluminum
Knuckles: Brass
Handle and Hooks: Steel
Inserts: Urethane

Weight:
1.5 kg [3.3 lb]



Dimensions



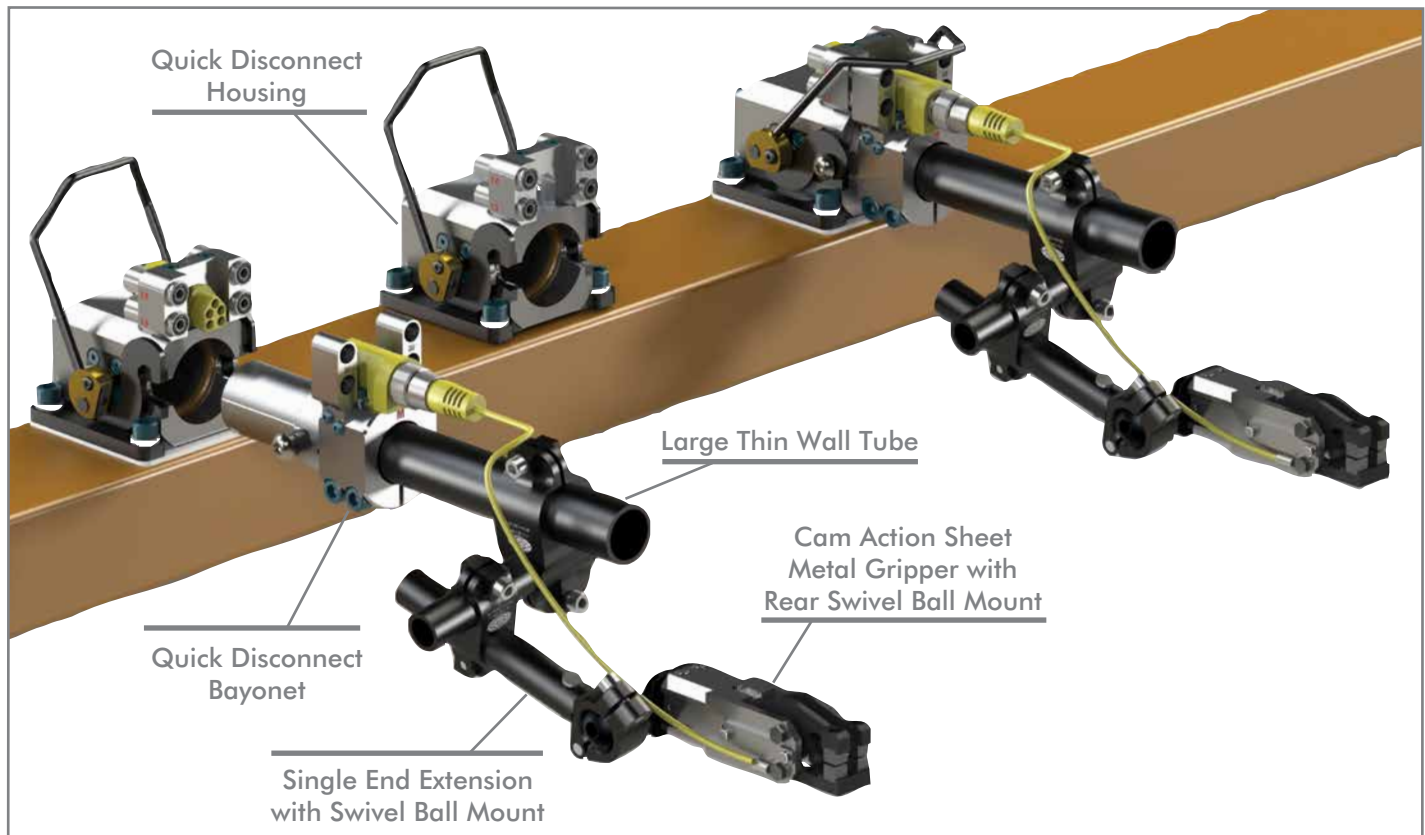
How To Order

Add for
"E4" or "E6"
Air Port
Connection
Only

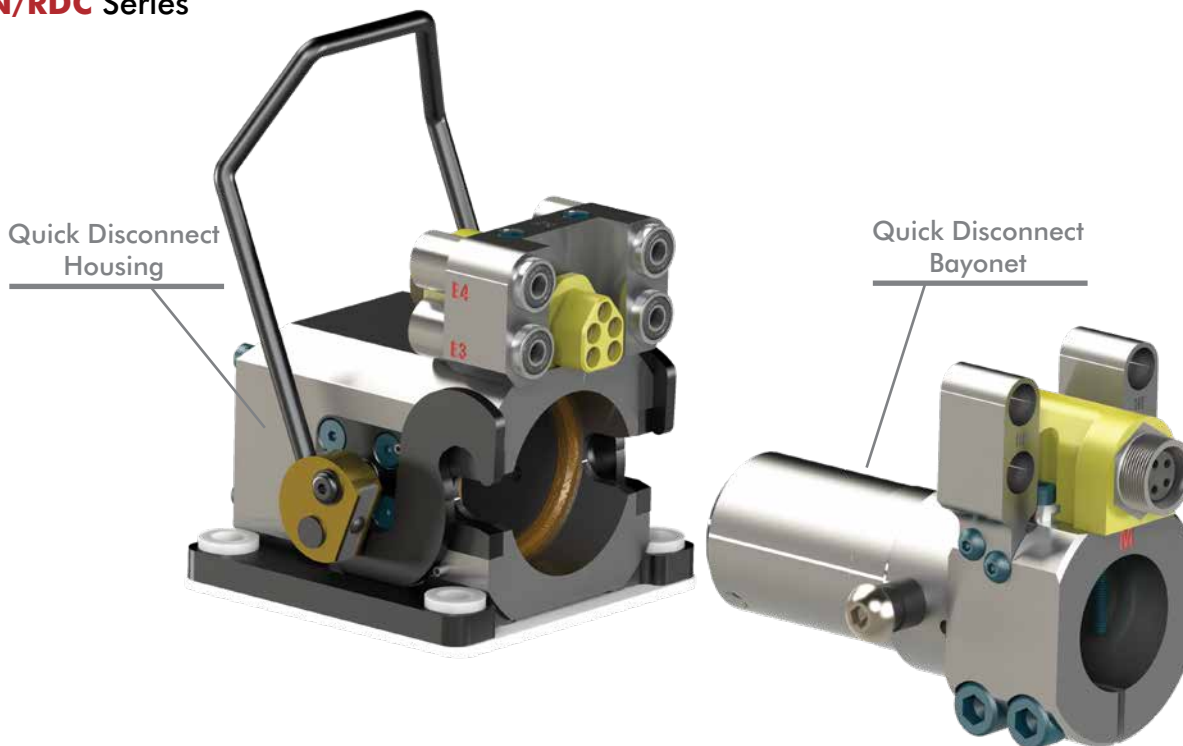
Model	Mounting	Air Port Connection	Key Position	Electrical Connection	Optional Key
CPI — RDN-40	— 1F	— S4	— K2	— MC	— HF
"RDN-40" Ø40mm/1.50" Quick Disconnect Housing	"1F" Flange Type Mounting	"S4" (4-Port Internal) "E4" (4-Port External) "E6" (6-Port External) "SE4" (4-Port Int & Ext) (Leave blank for No Options)	"K1 (1-4)" "VWK (1-16)" (Leave blank for No Options)	"MC" (Micro 5-Pin) "MN" (Mini 3-Pin) (Leave blank for No Options)	

RDN-40 BASE MOUNT DISCONNECT HOUSINGS

Manual Tool Changers | Tri-Axis Rail Tooling Example



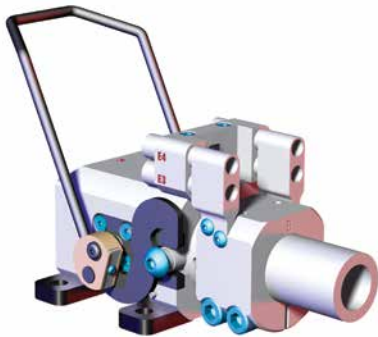
RDN/RDC Series



Model Number	Description
CPI-RDN-40-JB-E4-5MNM-HF-INS	Quick Disconnect Housing with 4-Port High Flow Air, 5-Pin Electric, Insulation
CPI-RDC-15-E4-5MNF-HF	Quick Disconnect Bayonet with 4-Port High Flow Air, 5-Pin Electric

RDN-40 DISCONNECT HOUSINGS

Manual Tool Changers | Base Mount Housing for RDC-40/150 Series Bayonets | Product Overview



Specifications:

Max. Static Product Load:
305 N*m [225 ft-lb]

Material:

Body: Aluminum
Knuckles: Brass
Handle and Hooks: Steel
Inserts: Urethane

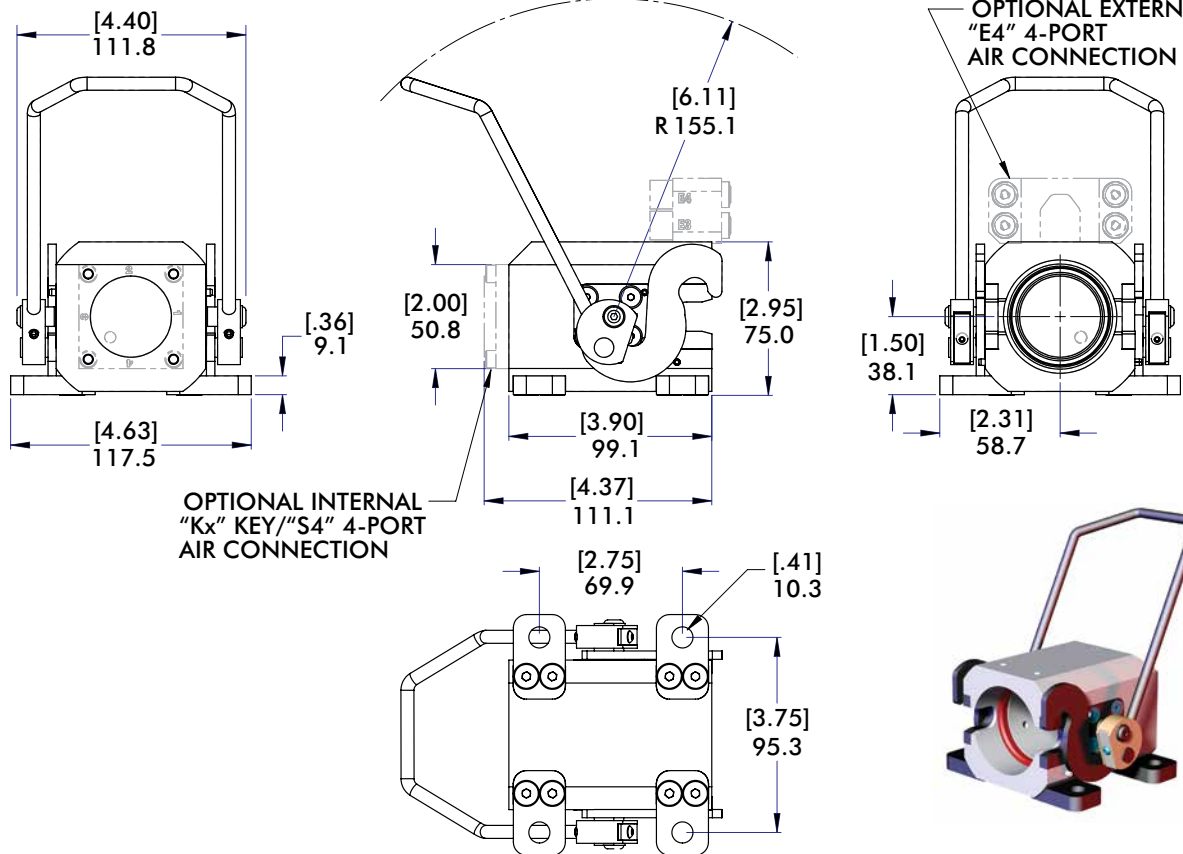
Weight:

1.4 kg [3.1 lb]

Features:

- 70mm x 95.3mm [2.75 in. x 3.75 in.] Base Mounting.
- Steel handle actuation allows quick and accurate installation, pulling the bayonet into a fixed position within the housing. This action also engages optional air and electric connectors.
- Internal urethane rings eliminate vibration and seat the bayonet securely.

Dimensions, How To Order



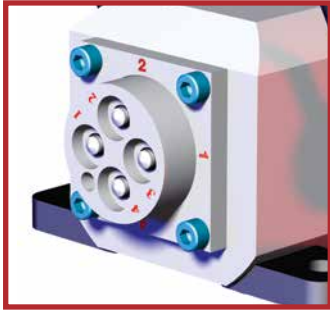
How To Order

Model	Mounting	Air Port Connection	Key Position	Electrical Connection	
CPI — RDN-40	1B	S4	K2	MC	HF
"RDN-40" Ø40mm/1.50" Quick Disconnect Housing	"1B" Base Type Mounting	"S4" "E4" "E6" "SE4"	"K (1-4)" "VWK (1-16)" (Leave blank for No Options)	"MC" (Micro 5-Pin) "MN" (Mini 3-Pin) (Leave blank for No Options)	Add for "E4" or "E6" Air Port Connection Only
		(Leave blank for No Options)			

TOOLING ERROR PROOF KEY AND AIR PORTS

Manual Tool Changers | RDN-40 Flange Mount Disconnect Housings | Dimensions

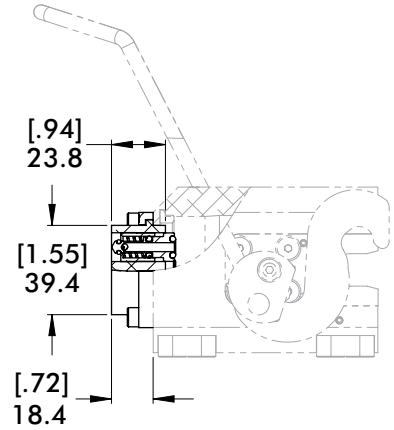
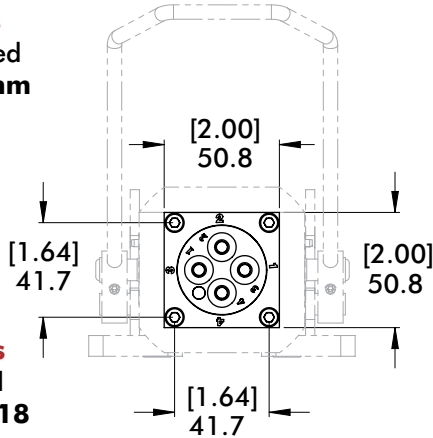
S4 4-Port Internal Air Connection for Base Style Mounting



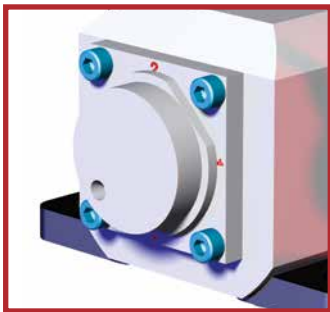
REPLACEMENT PART
RDN-40-10-IAB

Dowels
(1) Needed
M6 x 25mm

Air fittings
(4) Needed
RDN-SAS-U18

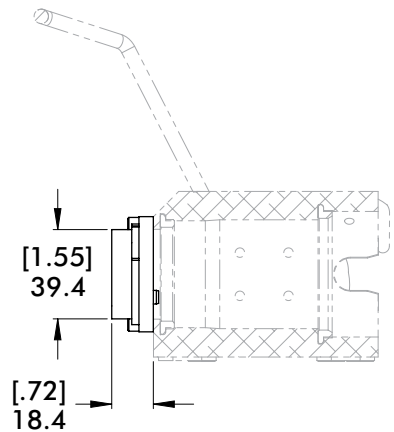
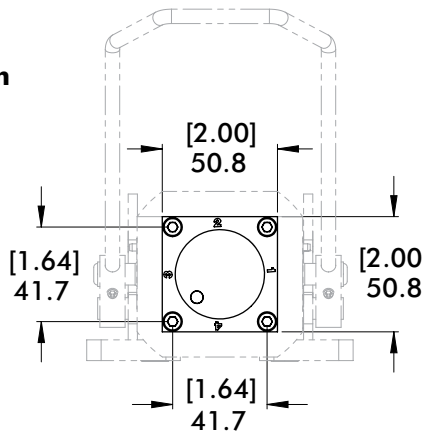


Kx Locating Key for Base Style Mounting

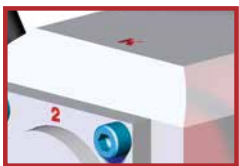


REPLACEMENT PART
RDN-40-10-IKB

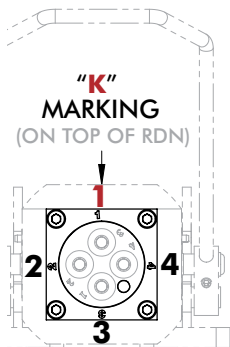
Dowels
(1) Needed
M6 x 25mm



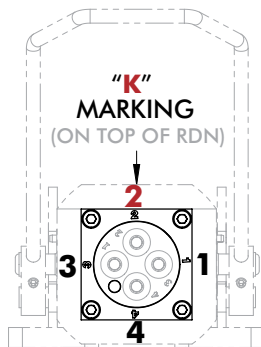
S4 and Kx Internal Key Position for Base Style Mounting



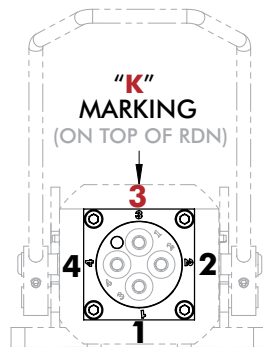
BASE MOUNT RING
(1) Needed
RDN-40-3-MR



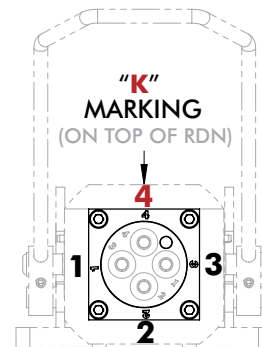
"K1" POSITION



"K2" POSITION



"K3" POSITION

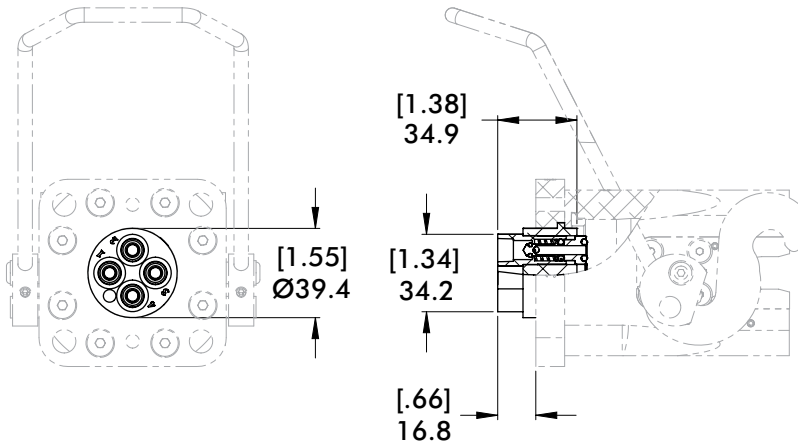


"K4" POSITION

TOOLING ERROR PROOF KEY AND AIR PORTS

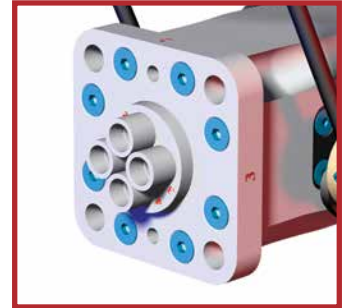
Manual Tool Changers | RDN-40 Flange Mount Disconnect Housings | Mounting

S4 4-Port Internal Air Connection for Flange Style Mounting



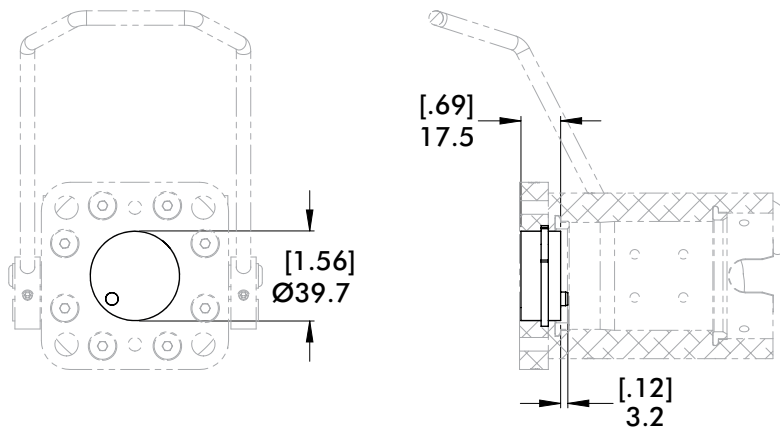
Dowels
(1) Needed
M6 x 25mm

Air fittings
(4) Needed
RDN-AS-U18



REPLACEMENT PART
RDN-40-10-IAB

Kx Locating Key for Flange Style Mounting

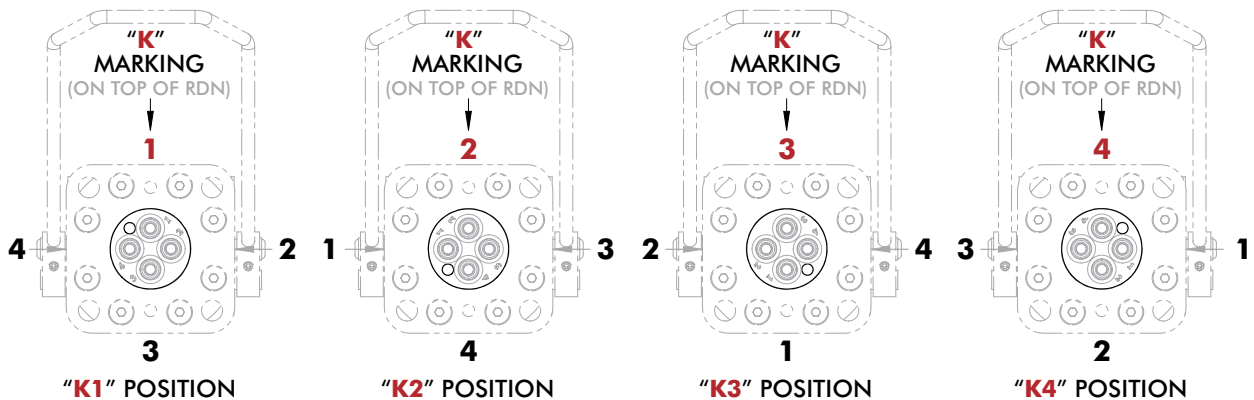
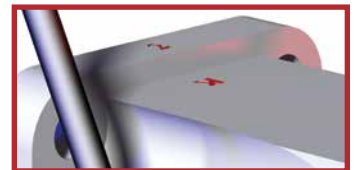


Dowels
(1) Needed
M6 x 25mm



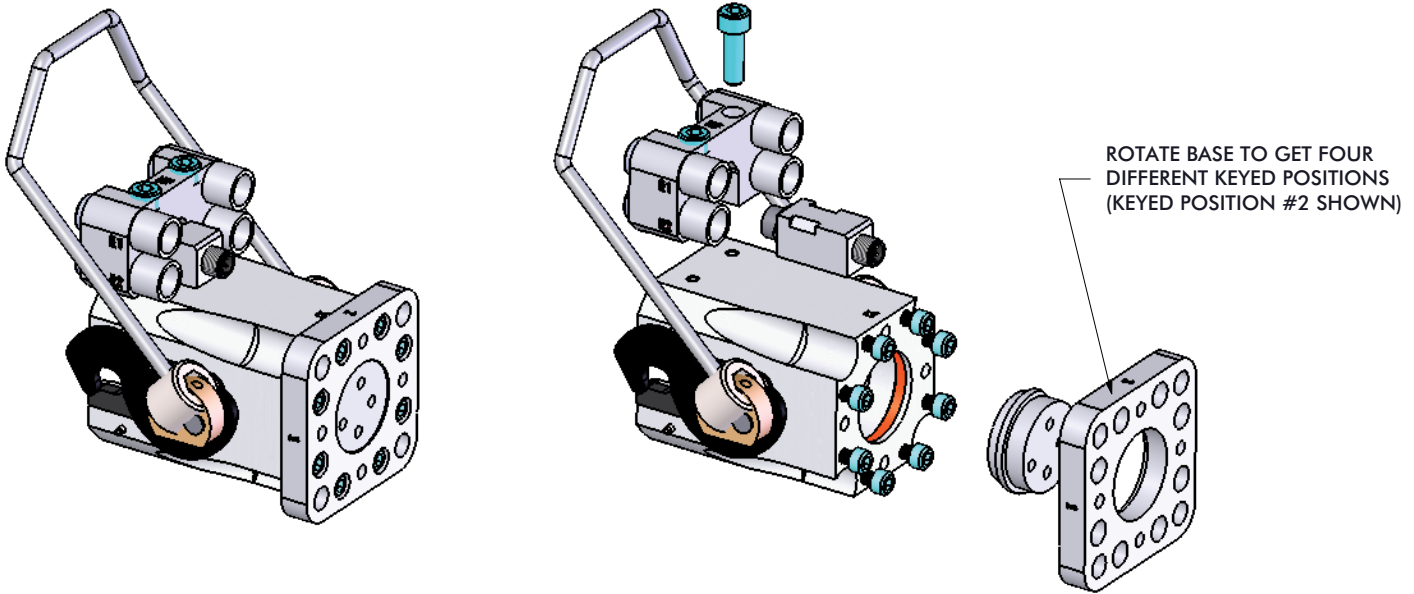
REPLACEMENT PART
RDN-40-10-IKB

S4 and Kx Internal Key Position for Flange Style Mounting

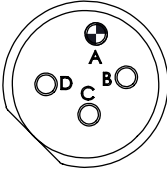
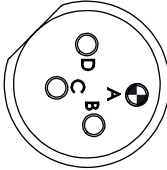
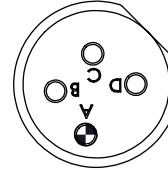
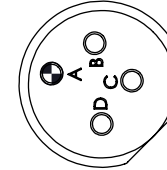
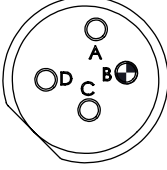
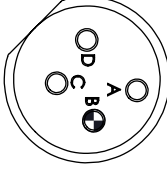
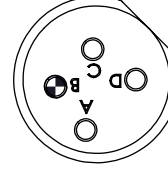
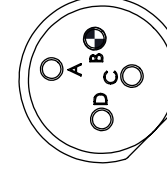
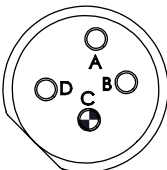
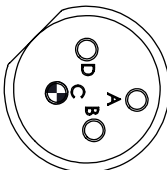
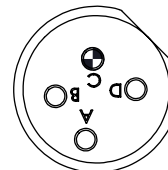
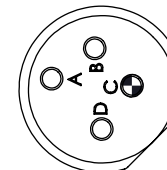
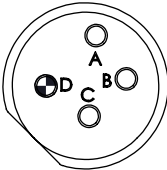
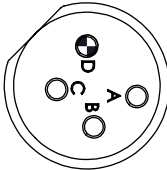
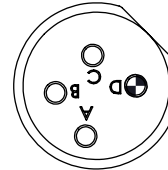
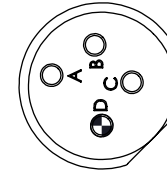


TOOLING ERROR PROOF KEY POSITIONS

Manual Tool Changers | Key Position Callout Chart



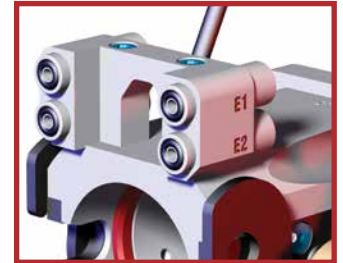
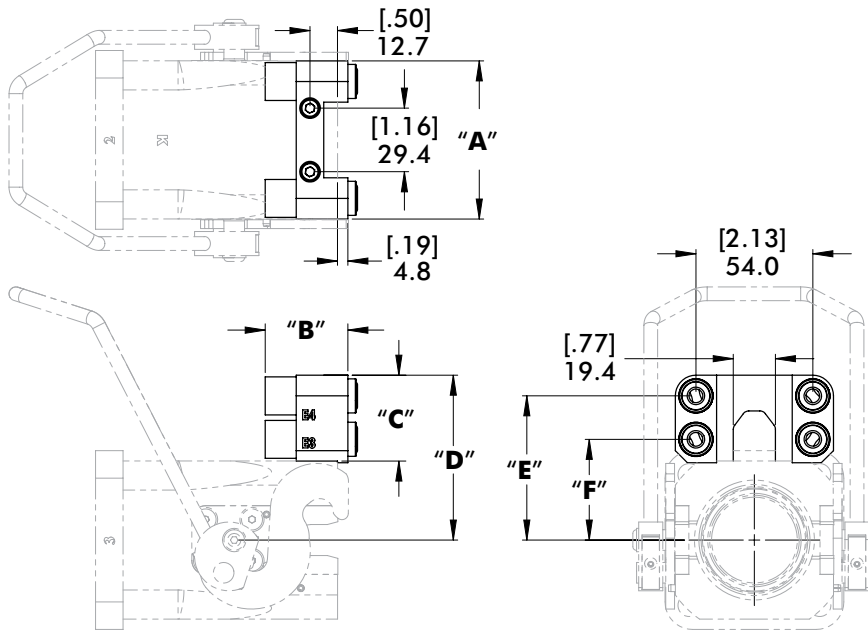
VIEWED FROM FRONT OF HOUSING

	POSITION #1	POSITION #2	POSITION #3	POSITION #4
DOWEL IN HOLE A	 VWK1	 VWK5	 VWK9	 VWK13
DOWEL IN HOLE B	 VWK2	 VWK6	 VWK10	 VWK14
DOWEL IN HOLE C	 VWK3	 VWK7	 VWK11	 VWK15
DOWEL IN HOLE D	 VWK4	 VWK8	 VWK12	 VWK16

AIR PORTS

Manual Tool Changers | RDN-40 Series Disconnect Housing | Dimensions

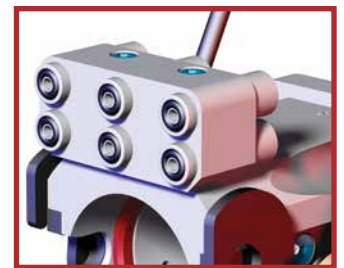
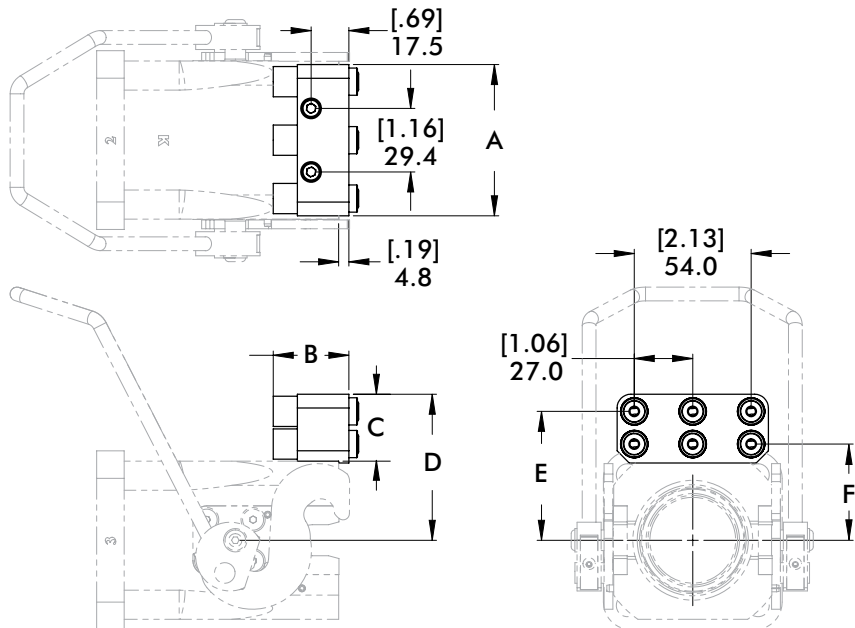
E4 4-Port External Air Connection



Air fittings
(4) Included
RDN-AS-U18-Standard
RDN-AS-U14-High Flow

ORDER OPTION	REPLACEMENT PART	"A"	"B"	"C"	"D"	"E"	"F"	WEIGHT
"E4" (Standard High Flow) (Replacement for "E4" Legacy Applications only)	CPI-RDN-40-4AS-HF	[2.88] 73.0	[1.50] 38.1	[1.56] 39.6	[3.00] 76.1	[2.62] 66.6	[1.83] 46.5	[0.38 lb] 0.23 kg
	CPI-RDN-40-4AS	[2.75] 69.9	[1.38] 34.9	[1.22] 31.0	[2.66] 67.5	[2.34] 59.5	[1.75] 44.4	[0.23 lb] 0.10 kg

E6 6-Port External Air Connection



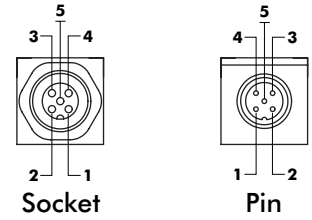
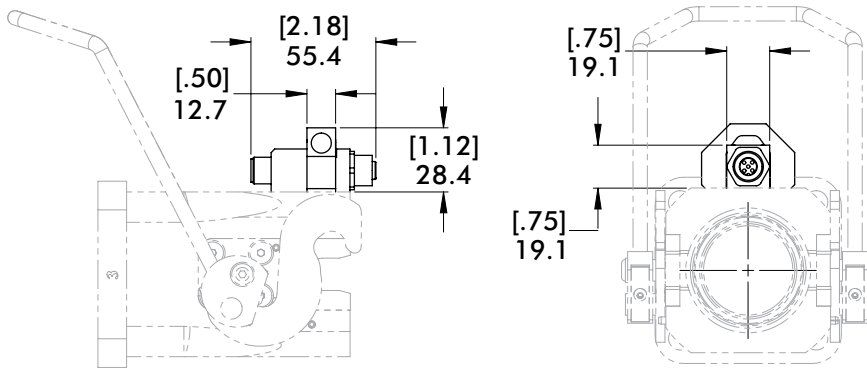
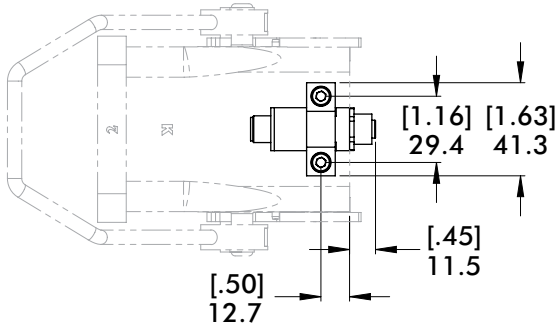
Air fittings
(6) Included
RDN-AS-U18-Standard
RDN-AS-U14-High Flow

ORDER OPTION	REPLACEMENT PART	"A"	"B"	"C"	"D"	"E"	"F"	WEIGHT
"E6" (Standard High Flow) (Replacement for "E6" Legacy Applications only)	CPI-RDN-40-10-6P-HF	[3.00] 76.2	[1.5] 38.1	[1.59] 40.5	[3.03] 76.9	[2.69] 68.3	[1.87] 47.5	[0.54 lb] 0.25 kg
	RDN-40-10-6AS	[2.75] 69.9	[1.38] 34.9	[1.22] 31	[2.66] 67.5	[2.43] 59.5	[1.75] 44.4	[0.37 lb] 0.17 kg

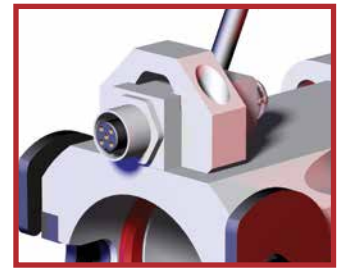
ELECTRICAL CONNECTIONS

Manual Tool Changers | RDN-40 Series Disconnect Housings | Dimensions

MC 5-Pin Micro Electric Connection



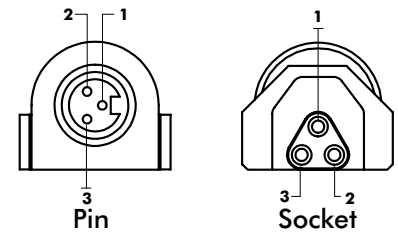
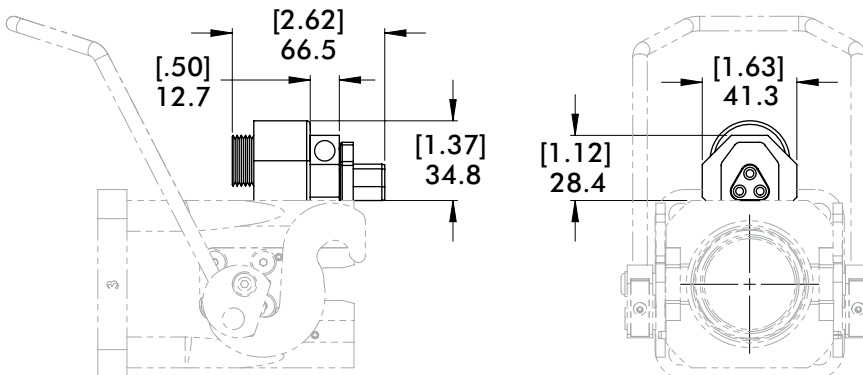
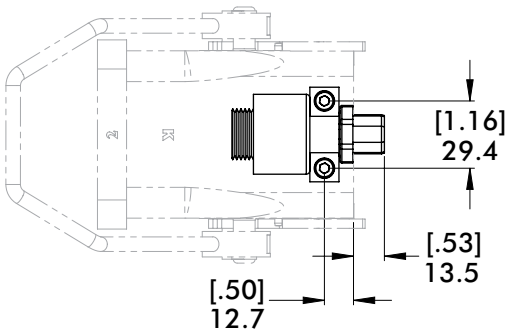
SOCKET #1	PIN #1
SOCKET #2	PIN #2
SOCKET #3	PIN #3
SOCKET #4	PIN #4
SOCKET #5	PIN #5



Part Number

Plug & Strap	CPI-RDH-F5S-5MCM
Plug	RDH-F5S-5MCM
Strap	540-22005

MN 3-Pin Mini Electric Connection



SOCKET #1	PIN #1
SOCKET #2	PIN #2
SOCKET #3	PIN #3

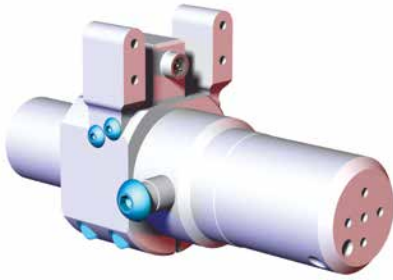


REPLACEMENT PART

CPI-TTH-F3S-3B3

RDC SERIES BAYONET

Manual Tool Changers | 40mm / 1.50" Diameter Booms | Product Overview



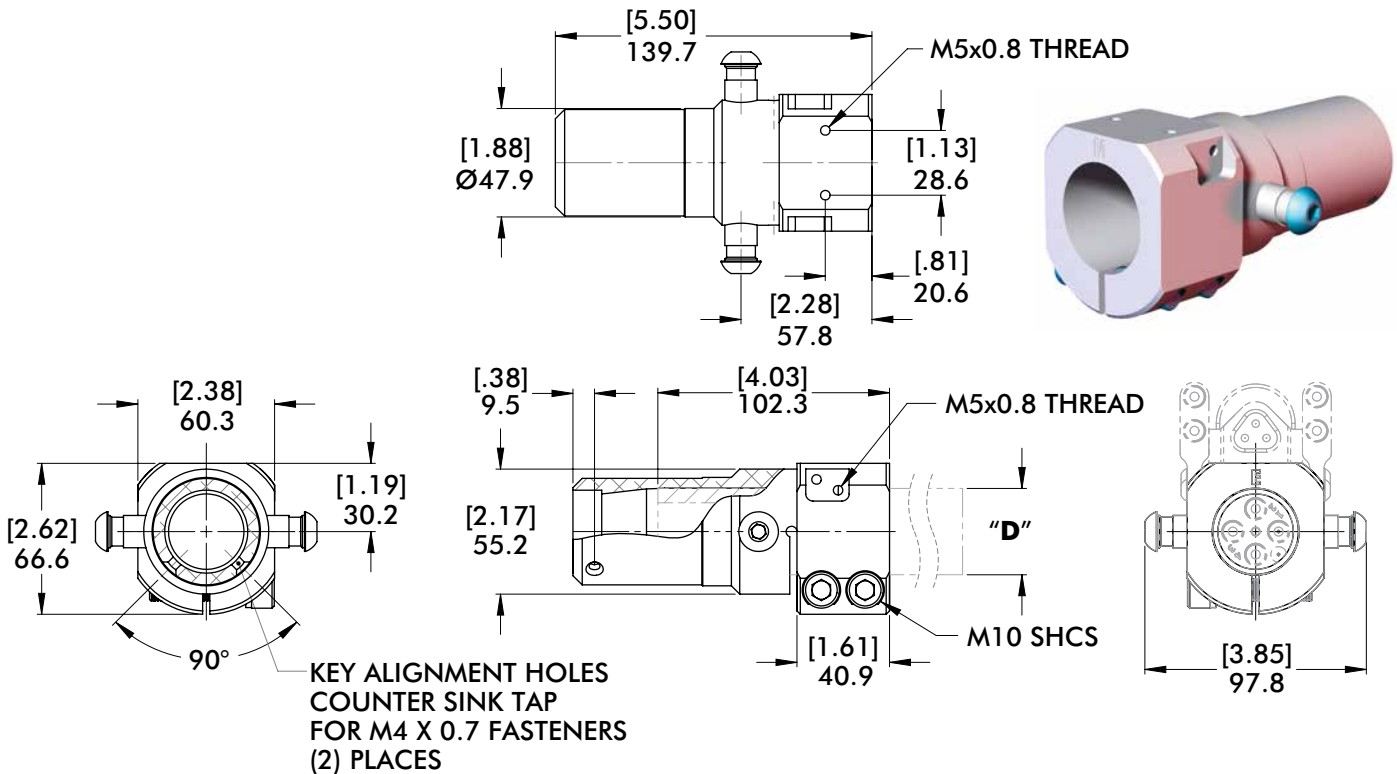
Features:

- Used in conjunction with the Quick Disconnect Housing to provide efficient mode of changing tools manually.
- (2) Hardened alignment pins allows quick and accurate installation into the housing.
- Optional internal key positioning prevents bayonet from being inserted in the wrong orientation.

Specifications:

Max. Static Product Load:
305 N*m [225 ft-lb]
Material:
Body: Aluminum
Pins: Steel
Weight:
0.69 kg [3.5 lb]

Dimensions



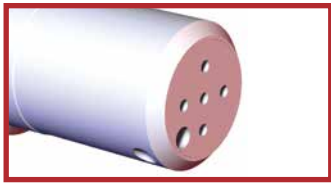
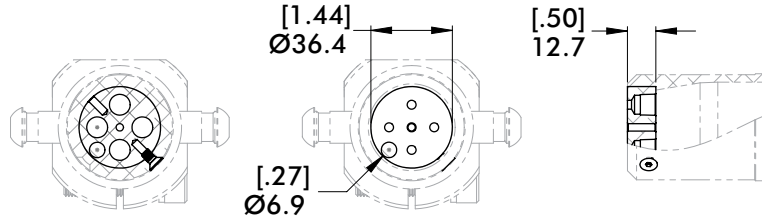
How To Order

Model	Boom/Tube (Ø) "D"	Air Port Connection	Key Position	Electrical Connection	Add for "E4" or "E6" Air Port Connection Only
CPI - RDC	40	S4	K1	MC	HF
"RDC" Quick Disconnect Bayonet	"1510" 1.00" (in) "15" 1.50" (in) "40" 40mm Add "-1" after Boom/Tube (Ø) for No Options	"S4" (4-Port Internal) "E4" (4-Port External) "E6" (6-Port External) "SE4" (4-Port Int & Ext) (Leave blank for No Options)	"K (1-4)" "VWK (1-16)" (Leave blank for No Options)	"MC" (Micro 5-Pin) "MN" (Mini 3-Pin) (Leave blank for No Options)	

TOOLING ERROR PROOF KEYS

Manual Tool Changers | RDC-40/150 Series Bayonets | Dimensions

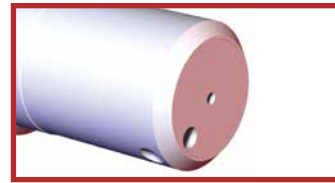
S4 4-Port Internal Air Connection and Kx Locating Key



"S4" 4-Port Internal Air Connection

REPLACEMENT PART

RDC-40-4-IAB

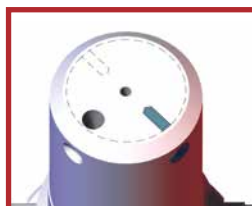
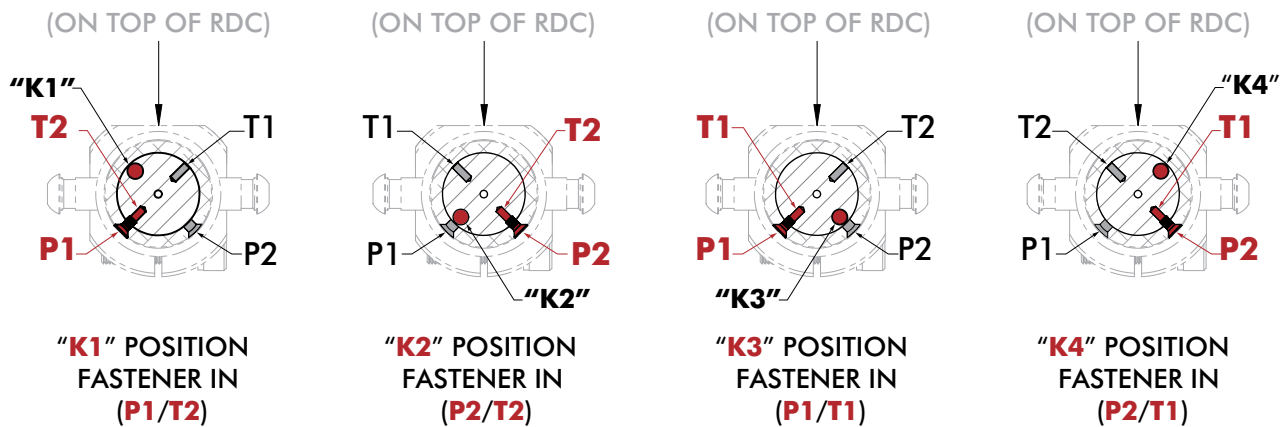


"Kx" Locating Key
(x) Refers to Position

REPLACEMENT PART

RDC-40-4-IKB

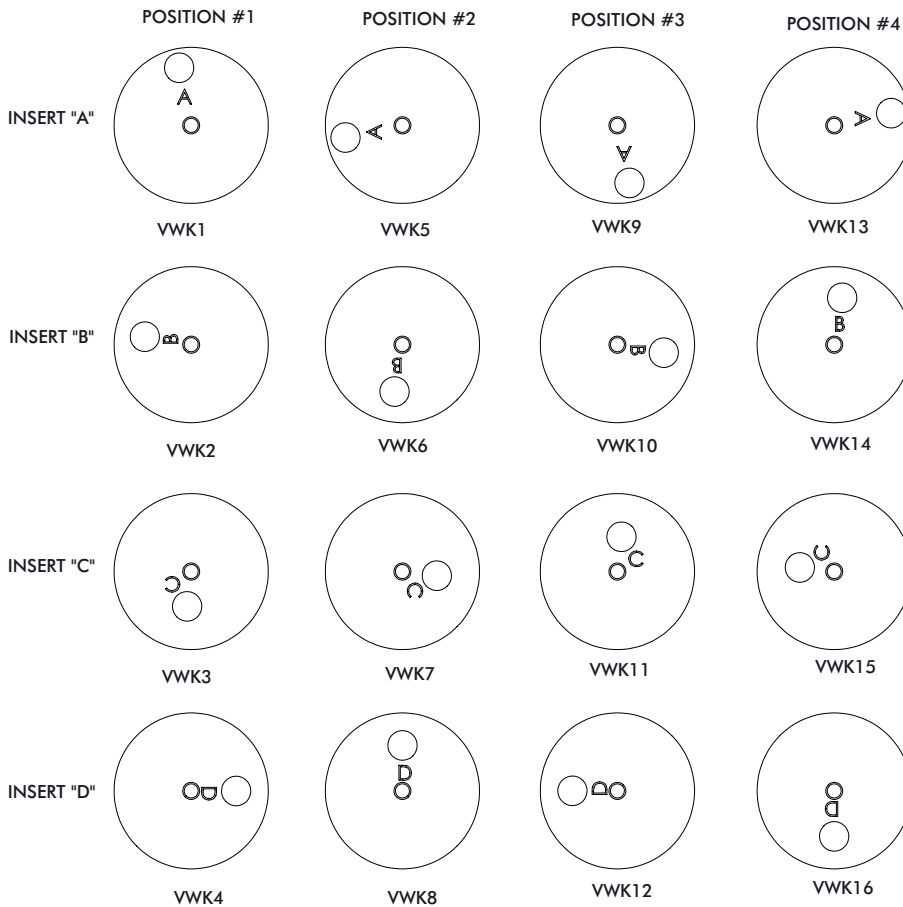
S4 and Kx Internal Key Position



TOOLING ERROR PROOF KEY POSITIONS

Manual Tool Changers | RDC-40/150 Series Bayonets

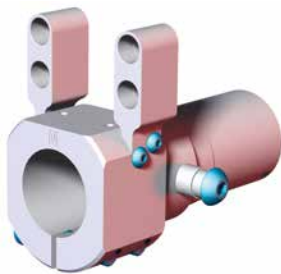
ASSEMBLY #	KEY POSITION #	KEY BLOCK #	INSERT	POSITION
CPI-RDC-40-E4-VWK1-MC-HF	VWK1	RDC-40-4-IKB-16-KA1-4	A	1
CPI-RDC-40-E4-VWK2-MC-HF	VWK2	RDC-40-4-IKB-16-KB1-4	B	1
CPI-RDC-40-E4-VWK3-MC-HF	VWK3	RDC-40-4-IKB-16-KC1-4	C	1
CPI-RDC-40-E4-VWK4-MC-HF	VWK4	RDC-40-4-IKB-16-KD1-4	D	1
CPI-RDC-40-E4-VWK5-MC-HF	VWK5	RDC-40-4-IKB-16-KA1-4	A	2
CPI-RDC-40-E4-VWK6-MC-HF	VWK6	RDC-40-4-IKB-16-KB1-4	B	2
CPI-RDC-40-E4-VWK7-MC-HF	VWK7	RDC-40-4-IKB-16-KC1-4	C	2
CPI-RDC-40-E4-VWK8-MC-HF	VWK8	RDC-40-4-IKB-16-KD1-4	D	2
CPI-RDC-40-E4-VWK9-MC-HF	VWK9	RDC-40-4-IKB-16-KA1-4	A	3
CPI-RDC-40-E4-VWK10-MC-HF	VWK10	RDC-40-4-IKB-16-KB1-4	B	3
CPI-RDC-40-E4-VWK11-MC-HF	VWK11	RDC-40-4-IKB-16-KC1-4	C	3
CPI-RDC-40-E4-VWK12-MC-HF	VWK12	RDC-40-4-IKB-16-KD1-4	D	3
CPI-RDC-40-E4-VWK13-MC-HF	VWK13	RDC-40-4-IKB-16-KA1-4	A	4
CPI-RDC-40-E4-VWK14-MC-HF	VWK14	RDC-40-4-IKB-16-KB1-4	B	4
CPI-RDC-40-E4-VWK15-MC-HF	VWK15	RDC-40-4-IKB-16-KC1-4	C	4
CPI-RDC-40-E4-VWK16-MC-HF	VWK16	RDC-40-4-IKB-16-KD1-4	D	4



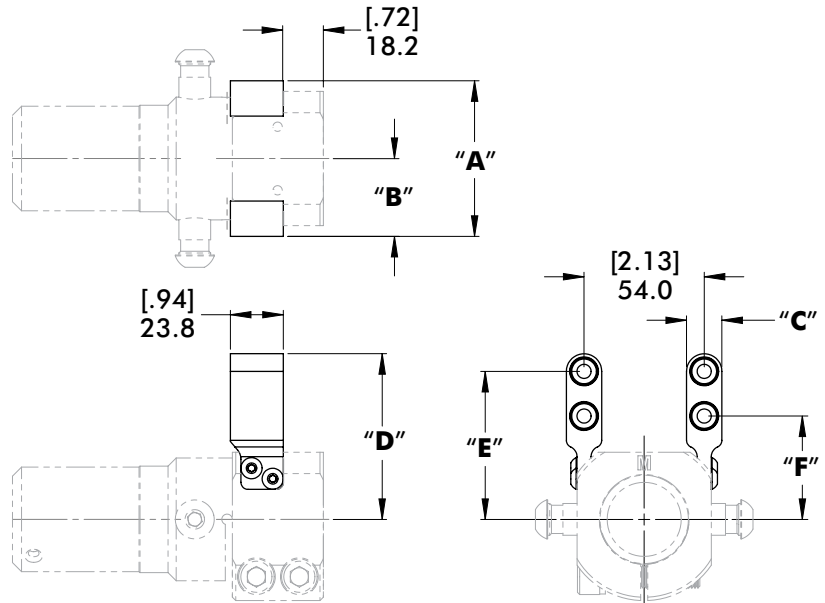
EXTERNAL AIR MANIFOLDS

Manual Tool Changers | RDC-40/150 Series Bayonets | Dimensions

4-Port External Air Connection

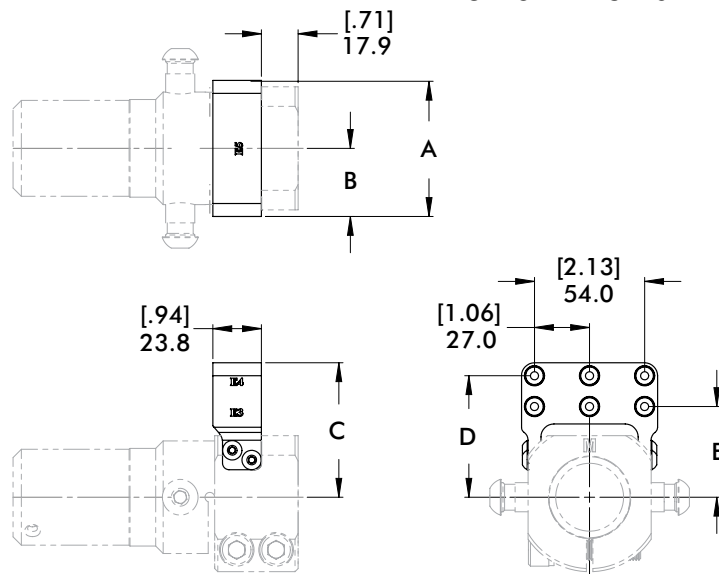
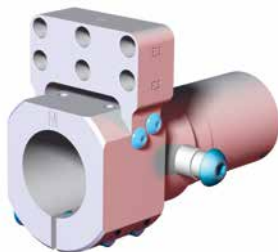


(2) Required



ORDER OPTION	REPLACEMENT PART	"A"	"B"	"C"	"D"	"E"	"F"	WEIGHT
"E4" (Standard High Flow)	CPI-RDC-40-4-HF	[2.75] 69.9	[1.38] 34.9	[1.56] 39.6	[3.00] 76.1	[2.62] 66.6	[1.83] 46.5	[2.90 lb] 1.32 kg
(Replacement for "E4" Legacy Applications only)	CPI-RDC-40-4	[2.63] 66.7	[1.30] 32.9	[1.22] 31.0	[2.66] 67.5	[2.34] 59.5	[1.75] 44.4	[2.89 lb] 1.31 kg

6-Port External Air Connection

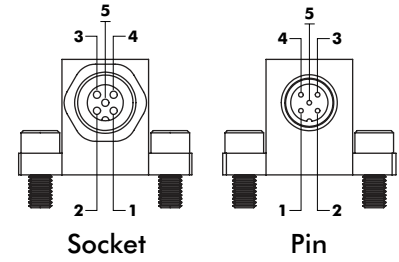
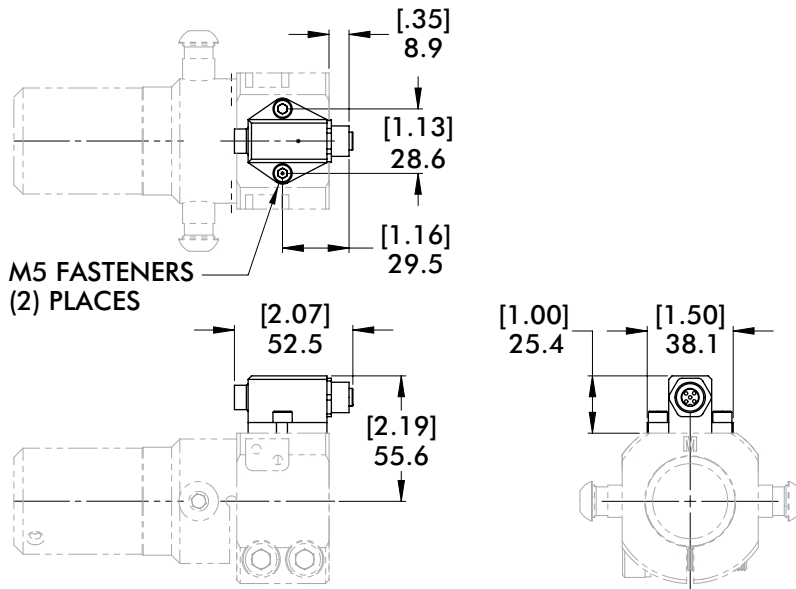


ORDER OPTION	REPLACEMENT PART	"A"	"B"	"C"	"D"	"E"
(Replacement for "E6" Legacy Applications only)	RDC-40-4-6PA	[2.61] 66.3	[1.31] 33.4	[2.59] 65.9	[2.34] 59.6	[1.75] 44.5
"E6" (Standard High Flow)	RDC-40-E6-HF	[2.75] 69.9	[1.38] 34.9	[3.12] 79.2	[2.62] 66.5	[1.83] 46.5

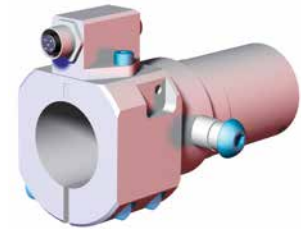
ELECTRICAL CONNECTORS

Manual Tool Changers | RDC-40/150 Series Bayonets | Dimensions

MC 5-Pin Micro Electric Connection



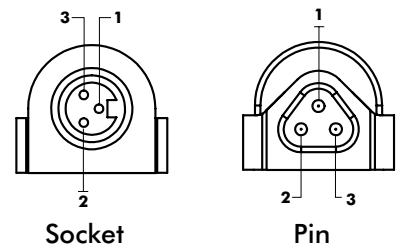
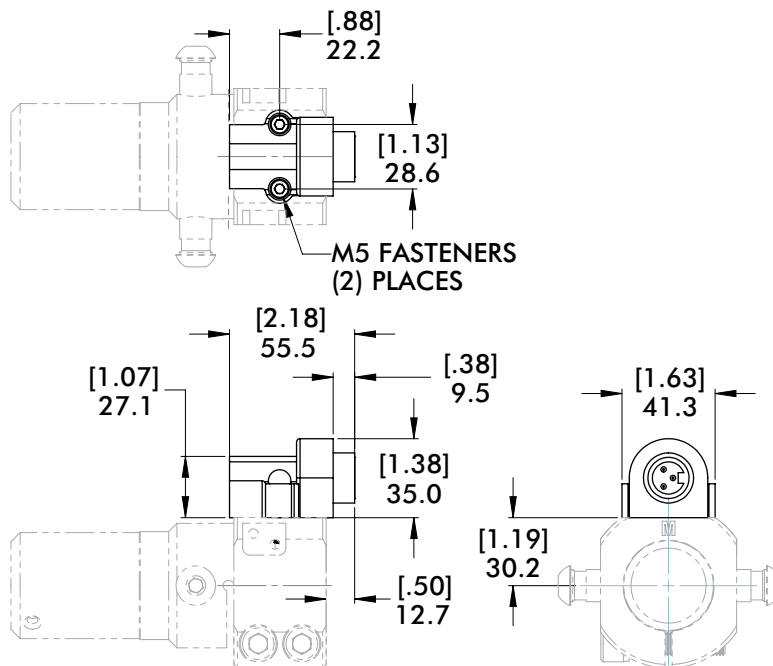
SOCKET #1	PIN #1
SOCKET #2	PIN #2
SOCKET #3	PIN #3
SOCKET #4	PIN #4
SOCKET #5	PIN #5



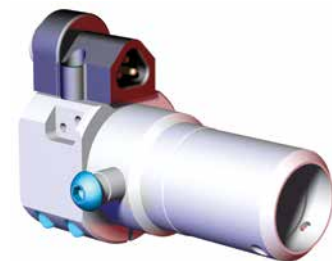
REPLACEMENT PART

CPI-RDB-M5P-5MCF

MN 3-Pin Mini Electric Connection



SOCKET #1	PIN #1
SOCKET #2	PIN #2
SOCKET #3	PIN #3



REPLACEMENT PART

CPI-TTB-M3P-3B3

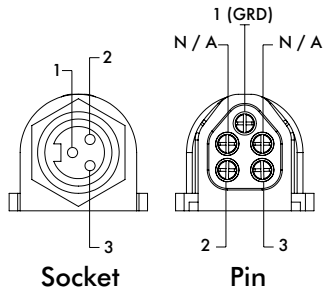
ELECTRICAL CONNECTORS

Manual Tool Changers | RDC-40/150 Series Bayonets | Dimensions

MNF 5-Pin Mini Electric Connection



CPI-RDC-40-M5P-3MNF

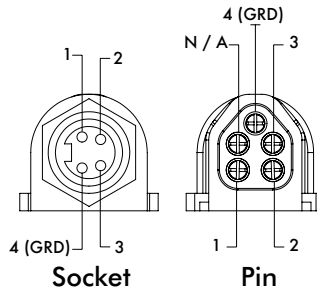


SOCKET #1	GREEN	PIN #1
SOCKET #2	BLACK	PIN #2
SOCKET #3	WHITE	PIN #3
		N / A
		N / A

PLUG COLOR: BLACK

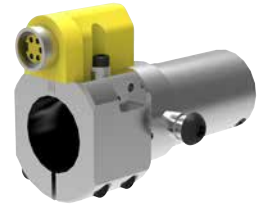


CPI-RDC-40-M5P-4MNF

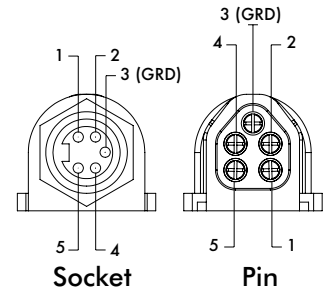


SOCKET #1	BLACK	PIN #1
SOCKET #2	WHITE	PIN #2
SOCKET #3	RED	PIN #3
SOCKET #4	GREEN	PIN #4
		N / A

PLUG COLOR: GREEN

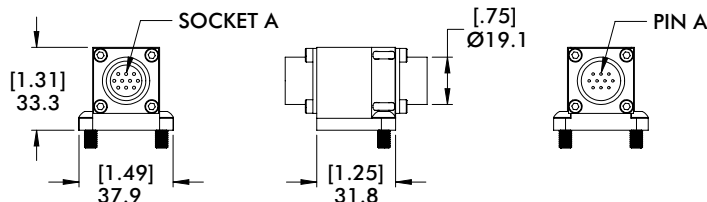
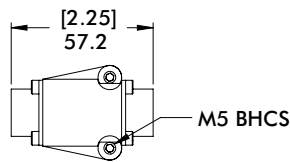
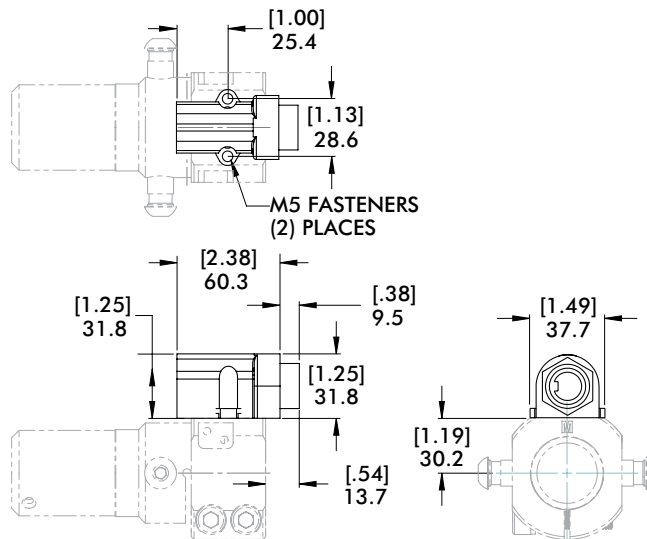


CPI-RDC-40-M5P-5MNF



SOCKET #1	WHITE	PIN #1
SOCKET #2	RED	PIN #2
SOCKET #3	GREEN	PIN #3
SOCKET #4	ORANGE	PIN #4
SOCKET #5	BLACK	PIN #5

PLUG COLOR: YELLOW



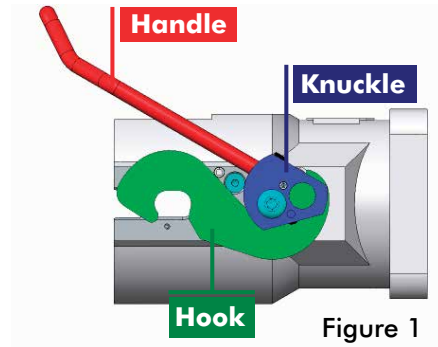
10-Pin Electric Connection



REPLACEMENT PART
CPI-RDC-40-5-10

RDN-25 SERIES DISCONNECT HOUSING

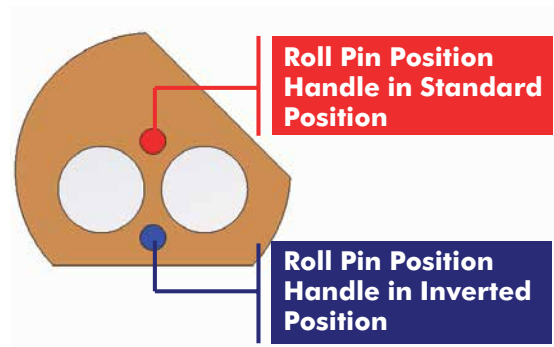
Manual Tool Changers | Instructions for Inverting the Disconnect Locking Handle



If the handle of the Quick Disconnect Housing interferes with other equipment, it can be inverted and accessed from below the housing. In the inverted position, the hooks and housing remain in the upright position.

1. Loosen the set screw at the base of the handle in each knuckle.
2. Unscrew the button head screw from each knuckle, then remove the handle. (See Figure 1)
3. Slide knuckles and hooks off the main body of the housing. (See Figure 1)
4. Slide hook off each knuckle.
5. Remove the roll pin in each knuckle and insert a 3/16 x 5/16 pin into the hole for the inverted handle position, as shown. (See Figure 2)
6. Rotate each knuckle 180° from previous position and reinstall the hooks. Return the knuckle/hook sub-assembly to the housing.
7. Reinstall handle in the inverted position and tighten set screws. (See Figure 3)

Figure 2 - Housing Knuckle



To order RDN-25 housing with handle in Inverted Position, add "-INV" to the end of order number

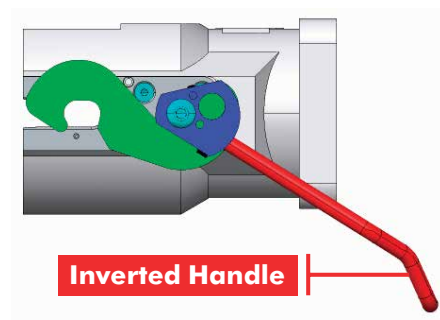
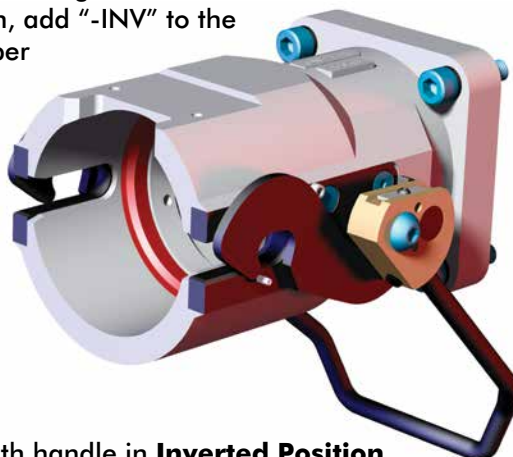


Figure 3

RDN-25 DISCONNECT HOUSING

Manual Tool Changers | RDC-25/60 Series Bayonets | Product Overview

Features:

- 89mm [3.50 in.] Sq. Flange Mtng.
- Steel handle actuation allows quick and accurate installation, pulling the bayonet into a fixed position within the housing. This action also engages optional air and electric connectors.
- Internal urethane rings eliminate vibration and seat the bayonet securely.

Specifications:

Max. Static Product Load:

949 N*m [700 ft-lb]

Material:

Body: Aluminum

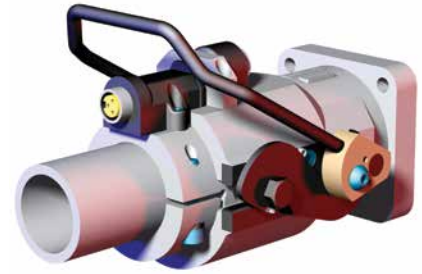
Knuckles: Brass

Handle and Hooks: Steel

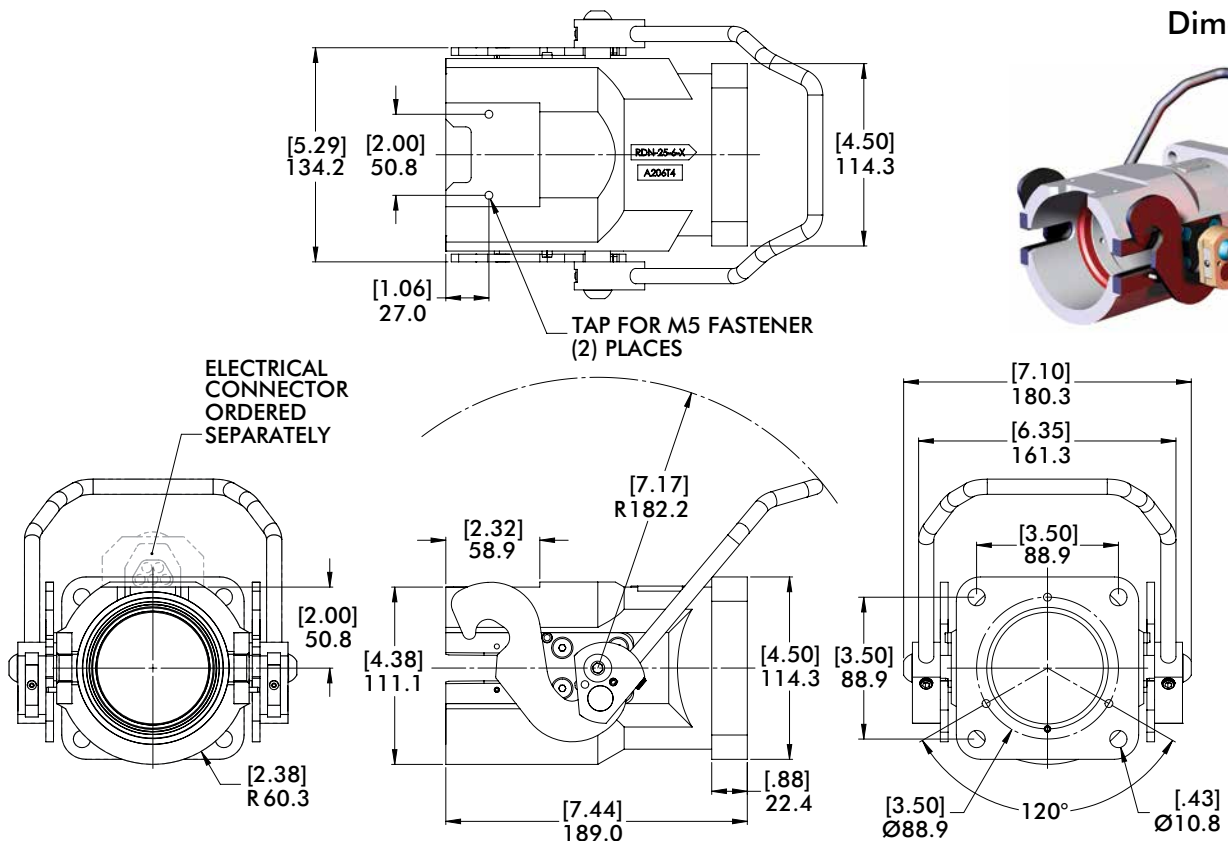
Inserts: Urethane

Weight:

4.00 kg [8.90 lb]



Dimensions



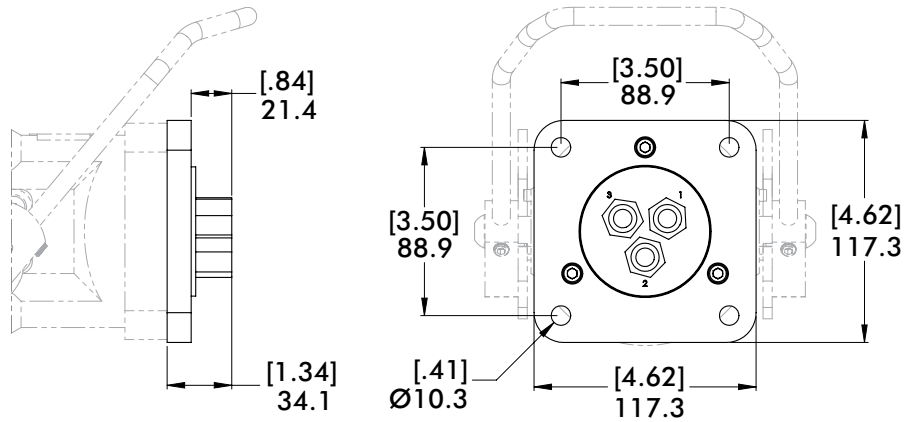
How To Order

Model	Air Port Connection A3 (3 Port) or A6 (6-Port) "O(x)" = (Qty) of Open Ports / "S(x)" = (Qty) of Shutoff Ports	Electrical Mounting
CPI — RDN-25-6	A3-O1-S2	EL10
"RDN-25-6" Ø60mm/2.50" Quick Disconnect Housing	"A3-O0-S3" (0)Open-(3)Shutoff "A3-O1-S2" (1)Open-(2)Shutoff "A3-O2-S1" (2)Open-(1)Shutoff "A3-O3-S0" (3)Open-(0)Shutoff	"A6-O0-S6" (0)Open-(6)Shutoff "A6-O1-S5" (1)Open-(5)Shutoff "A6-O2-S4" (2)Open-(4)Shutoff "A6-O3-S3" (3)Open-(3)Shutoff "A6-O4-S2" (4)Open-(2)Shutoff "A6-O5-S1" (5)Open-(1)Shutoff "A6-O6-S0" (6)Open-(0)Shutoff
		Mounting for Large Connectors (Leave blank for Standard Mounting)

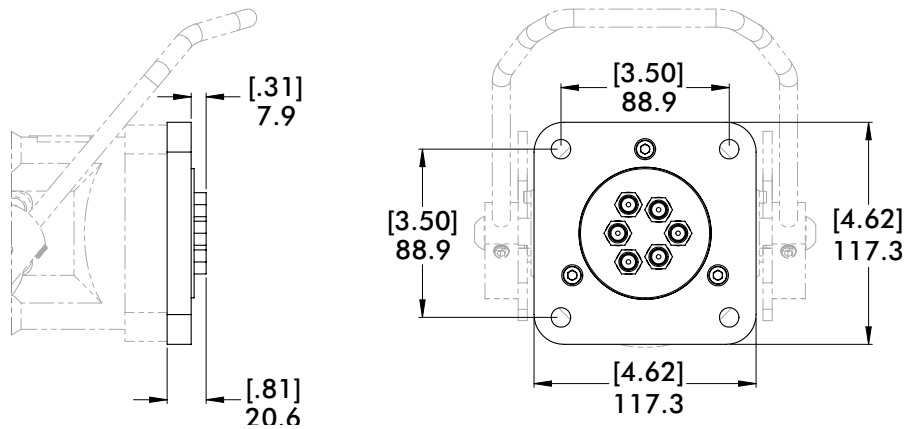
AIR PORTS AND ELECTRICAL CONNECTIONS

Manual Tool Changers | RDN-25 Flange Mount Disconnect Housings | Dimensions

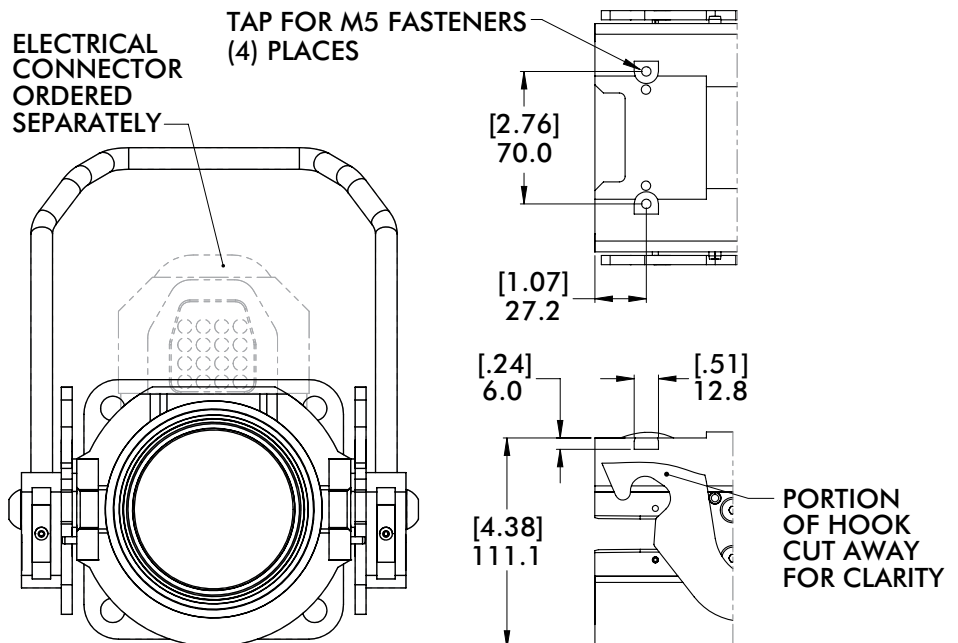
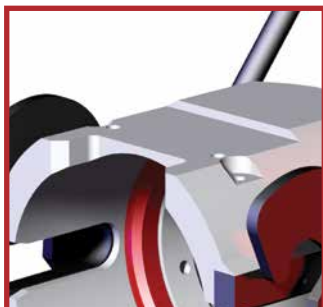
A3 3-Port Internal Air Connection with Shutoff Option



A6 6-Port Internal Air Connection with Shutoff Option

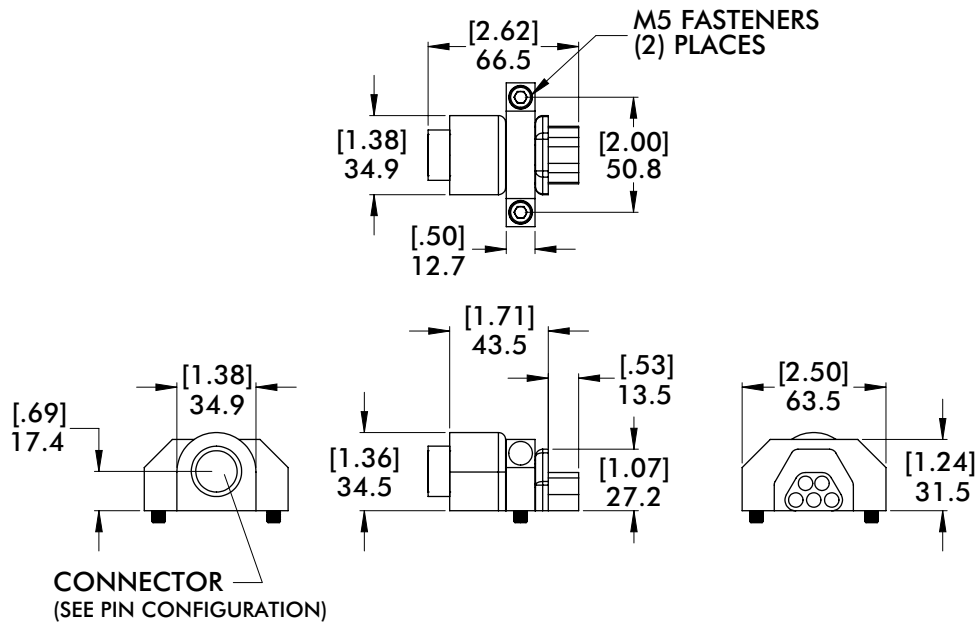


EL10 Mounting for Large Electric Connection

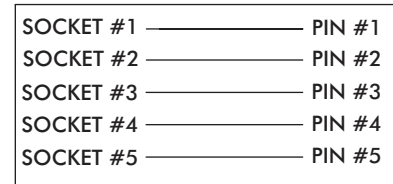
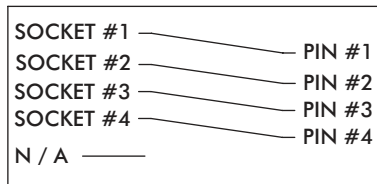
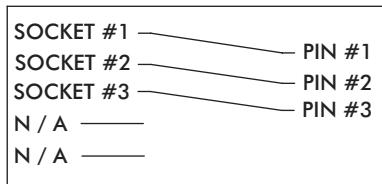
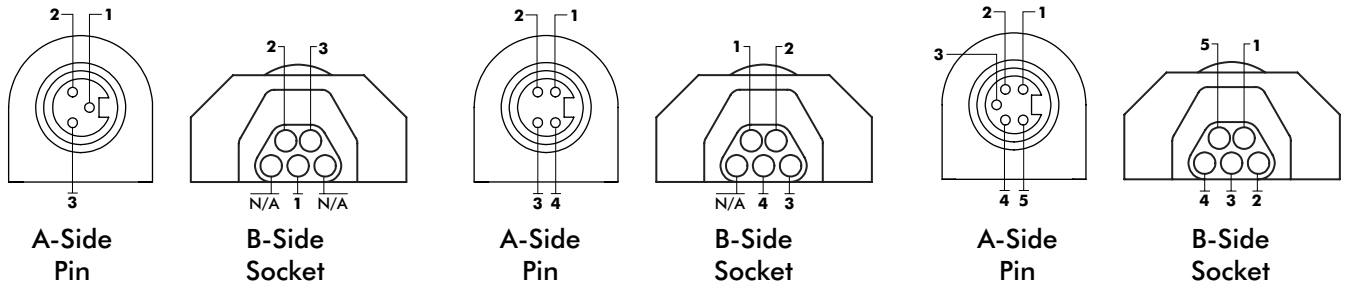


ELECTRICAL CONNECTIONS

Manual Tool Changers | RDN-25 Series Disconnect Housings | Dimensions



5 Pin Connectors for Housing - Standard Pin Configurations



3-Pin to 5-Pin Connector

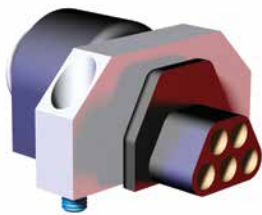
A-Side	3-Pin, Single Key
B-Side	5-Pin, Male Plug, Female Socket

4-Pin to 5-Pin Connector

A-Side	4-Pin, Single Key
B-Side	5-Pin, Male Plug, Female Socket

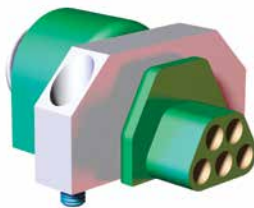
5-Pin to 5-Pin Connector

A-Side	5-Pin, Single Key
B-Side	5-Pin, Male Plug, Female Socket



MODEL NUMBER

CPI-RDH-F5S-3B3



MODEL NUMBER

CPI-RDH-F5S-4B4

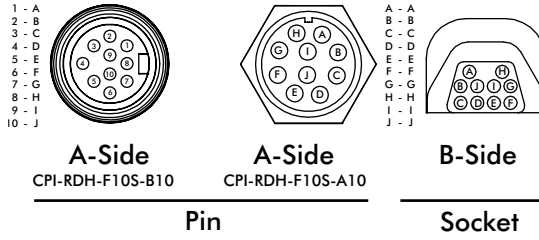
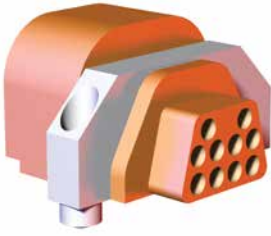


MODEL NUMBER

CPI-RDH-F5S-5B5

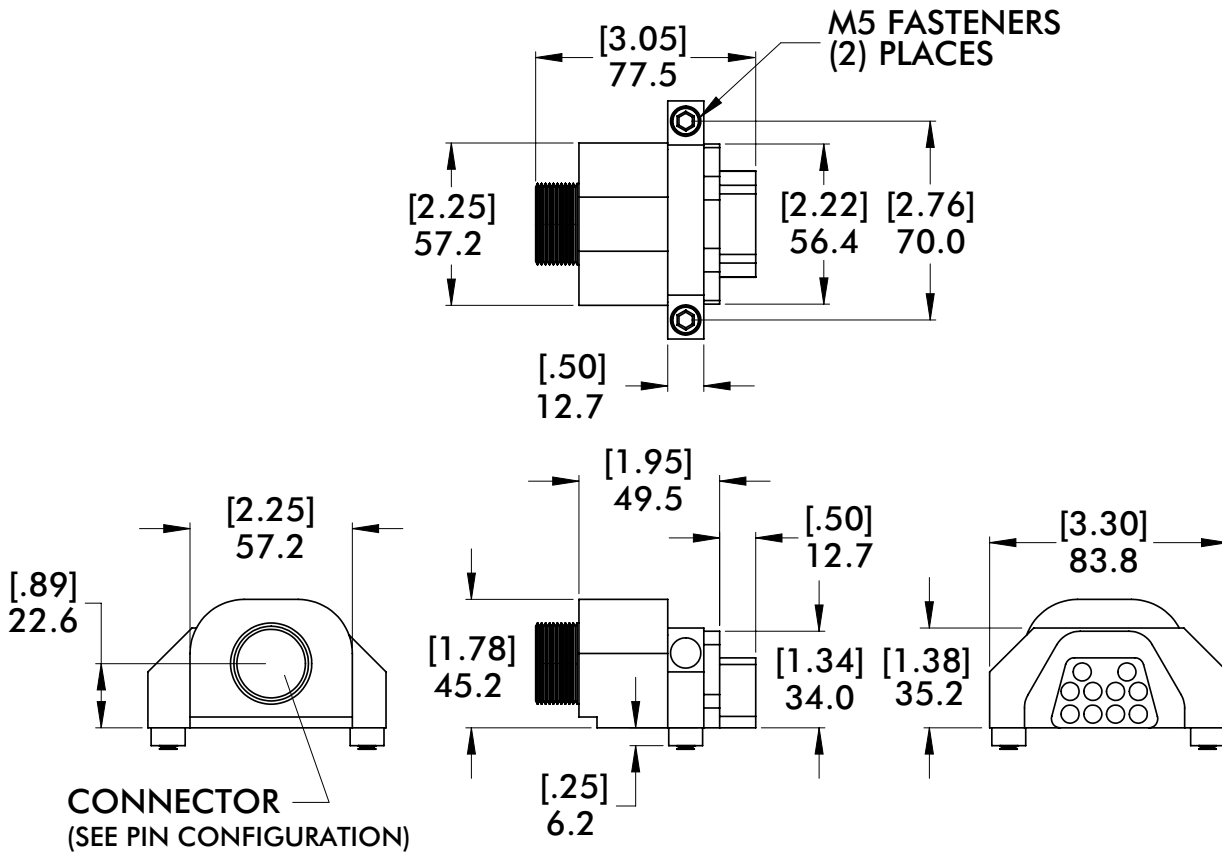
ELECTRICAL CONNECTIONS

Manual Tool Changers | RDN-25 Series Disconnect Housings | Dimensions



10 Pin Configuration

Model Number	A-Side	B-Side
CPI-RDH-F10S-A10	10-Pin	10-Pin, Male Plug, Female Socket
CPI-RDH-F10S-B10	10-Pin	



RDC SERIES BAYONETS

Manual Tool Changers | 2.5"/60mm Diameter Booms | Product Overview

Features:

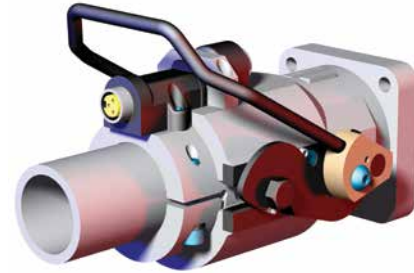
- Used in conjunction with the Quick Disconnect Housing to provide an efficient mode of changing tools manually.
- (2) Hardened alignment pins allows quick and accurate installation into the housing.
- Optional "EL10" machined surface for large electrical connectors.

Specifications:

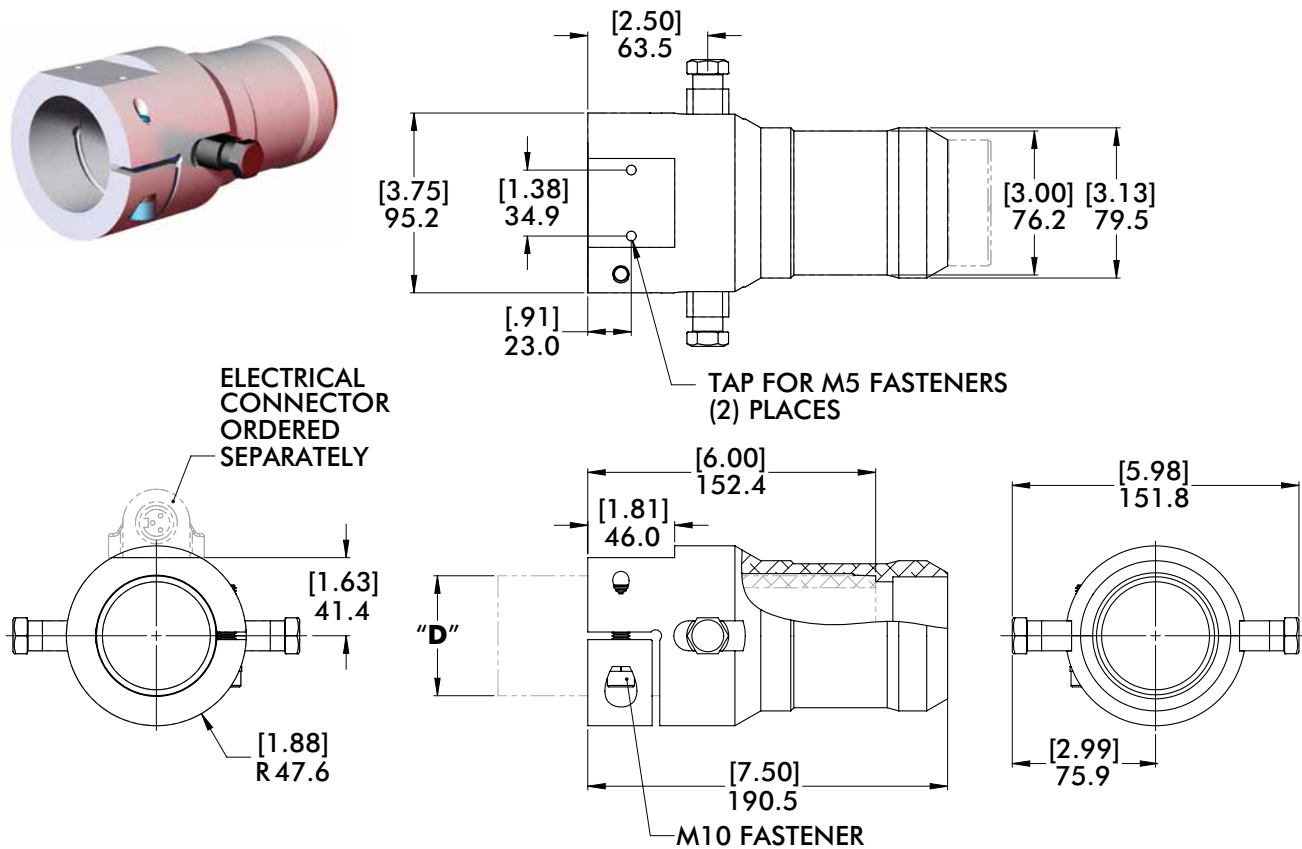
Max. Static Product Load:
678 N*m [500 ft-lb]

Material:
Body: Aluminum
Pins: Steel

Weight:
1.6 kg [3.5 lb]



Dimensions



How To Order

	Model	Boom/Tube (Ø) "D"	Version	Air Port Connection	Electrical Mounting
CPI	RDC	25	2	A3	EL10
	"RDC" Quick Disconnect Bayonet	"25" 2.50" (in) "60" 60mm	"2" Version 2	"A3" 3-Port "A6" 6-Port	Mounting for Large Connectors (Leave blank for Standard Mounting)

RDC SERIES BAYONETS

Manual Tool Changers | 2.50"/60mm Diameter High Torque Booms | Product Overview

Features:

- Extended clamp area increases the holding surface and torque capacity for high speed applications.
- (2) Hardened alignment pins allows quick and accurate installation into the bayonet.
- Optional "EL10" machined surface for large electrical connectors.

Specifications:

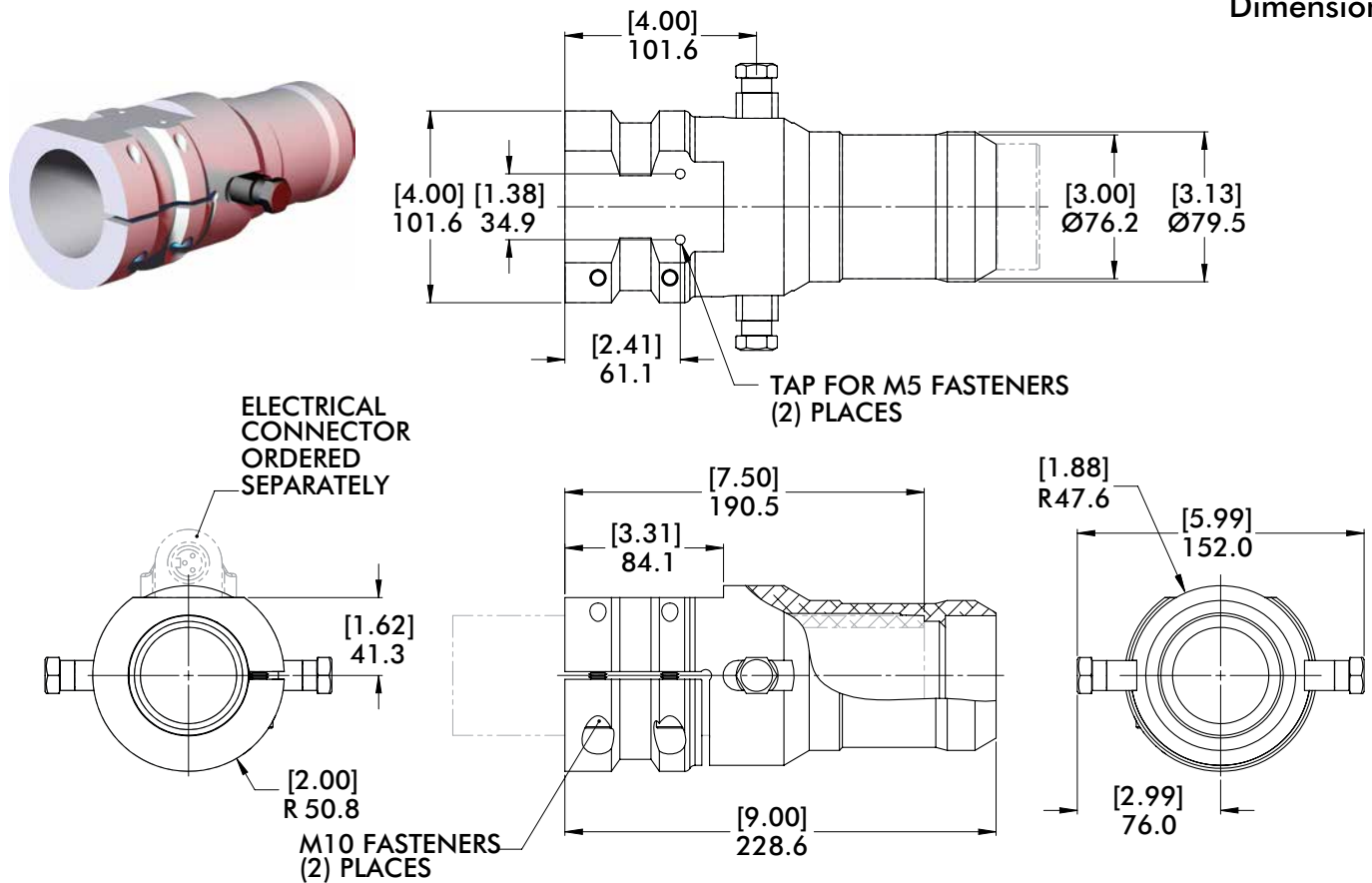
Max. Static Product Load:
949 N*m [700 ft-lb]

Material:
Body: Aluminum
Pins: Steel

Weight:
2.1 kg [4.7 lb]



Dimensions



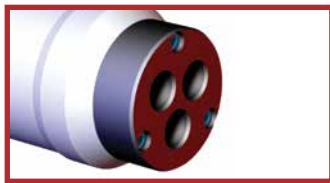
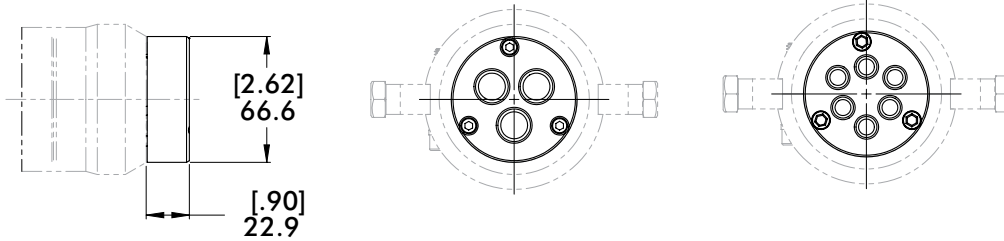
How To Order

CPI	Model	Boom/Tube (Ø) "D"	Version	Air Port Connection	Electrical Mounting
	RDC	25	2HT	A3	EL10
	"RDC" Quick Disconnect Bayonet	"25" 2.50"(in) "60" 60mm	"2HT" Version 2 Hi-Torque	"A3" 3-Port "A6" 6-Port	Mounting for Large Connectors (Leave blank for Standard Mounting)

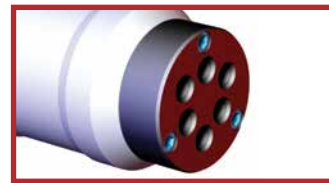
AIR PORTS AND ELECTRICAL CONNECTIONS

Manual Tool Changers | RDC-25/60 Series Bayonets | Dimensions

A3 3-Port/A6 6-Port Internal Air Connection



"A3" 3-Port Internal Air Connection



"A6" 6-Port Internal Air Connection

REPLACEMENT PART

CPI-BC-250-3-U38 (3/8 NPT ports)

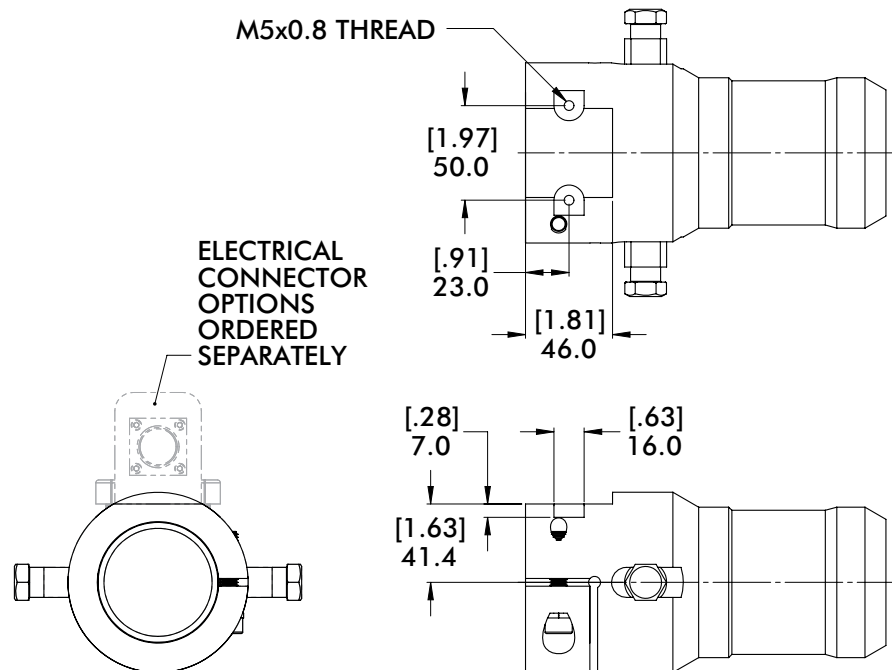
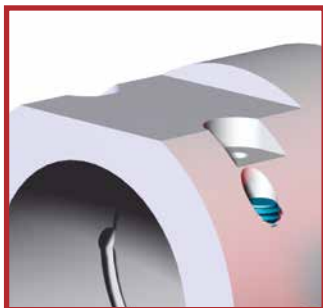
CPI-BC-60-3-G38 (G3/8 ports)

REPLACEMENT PART

CPI-BC-250-6-U18 (1/8 NPT ports)

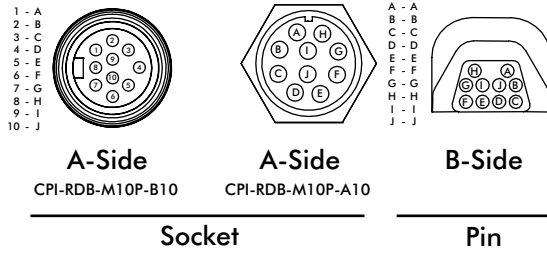
CPI-BC-60-6-G18 (G1/8 ports)

EL10 Mounting for Large Electric Connection



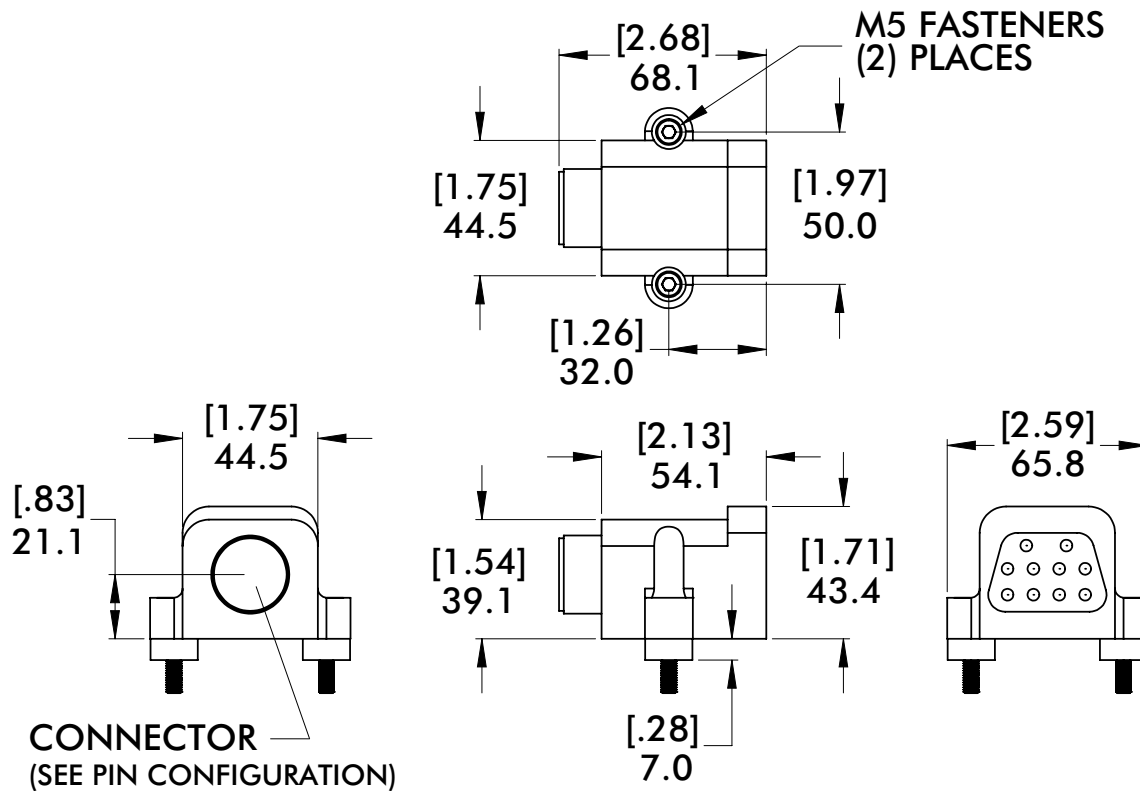
ELECTRICAL CONNECTIONS

Manual Tool Changers | RDC-25/60 Series Bayonets | Dimensions



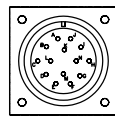
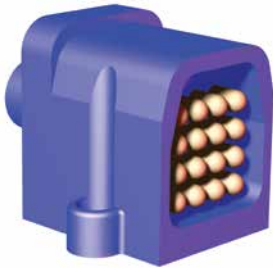
10 Pin Configuration

Model Number	A-Side	B-Side
CPI-RDB-M10P-A10	10-Pin	10-Pin, Male Pin,
CPI-RDB-M10P-B10	10-Pin	Female Plug



ELECTRICAL CONNECTIONS

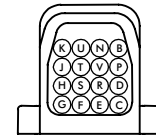
Manual Tool Changers | RDC-25/60 Series Bayonets | Dimensions



A-Side
CPI-RDB-M16P-A14



A-Side
CPI-RDB-M16P-A19



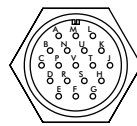
B-Side

Socket

Pin

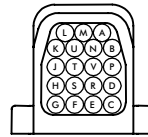
16 Pin Configuration

Model Number	A-Side	B-Side
CPI-RDB-M16P-A19	19-Pin	16-Pin, Male Pin, Female Plug
CPI-RDB-M16P-A14	14-Pin	



A-Side

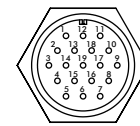
CPI-RDB-M19P-A19



B-Side

Socket

Pin



A-Side

CPI-RDB-M19P-B19

Socket

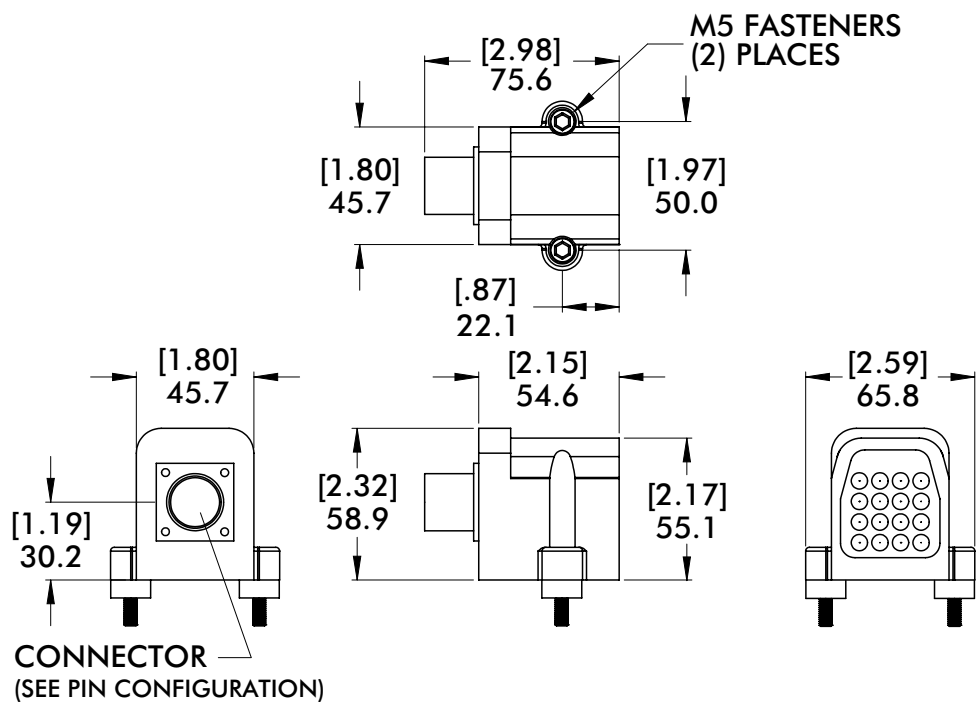


B-Side

Pin

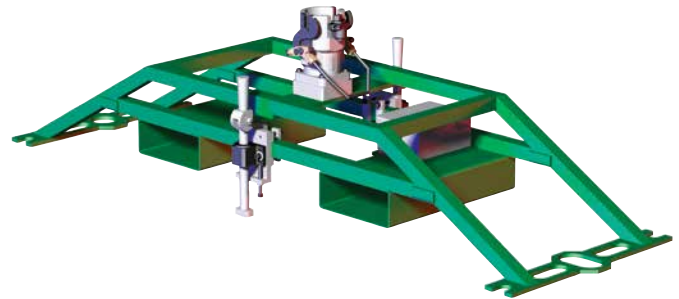
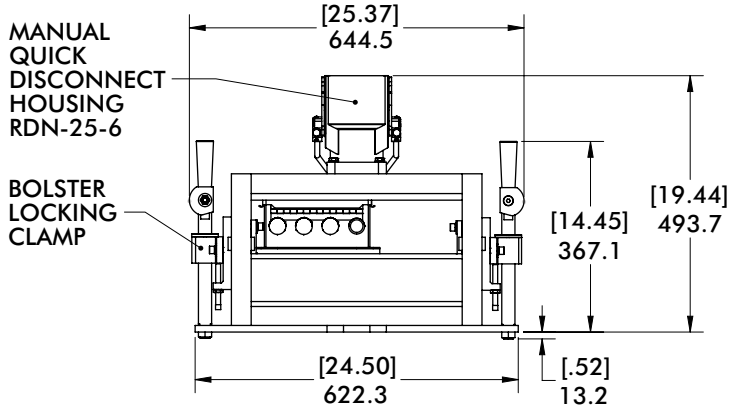
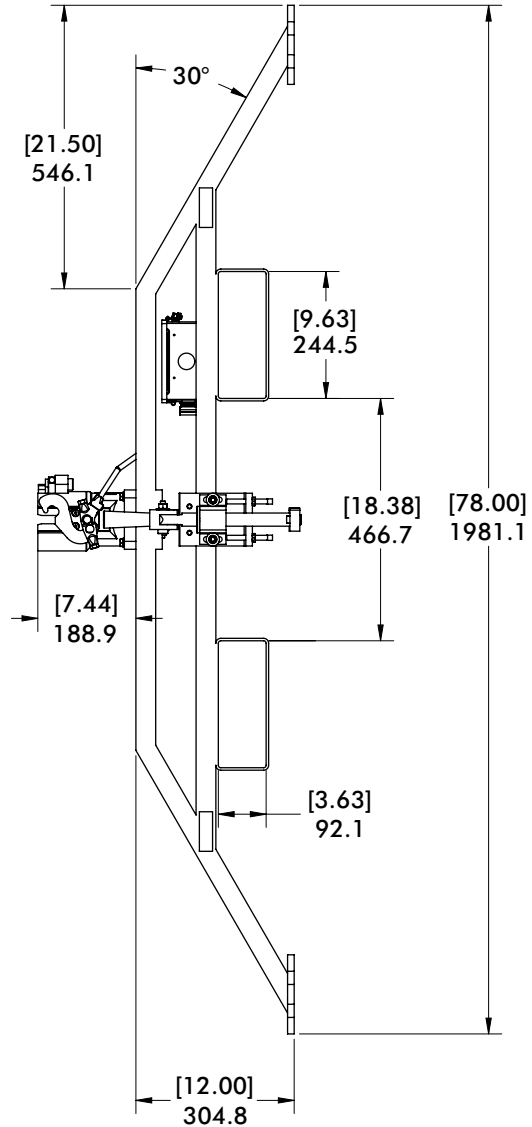
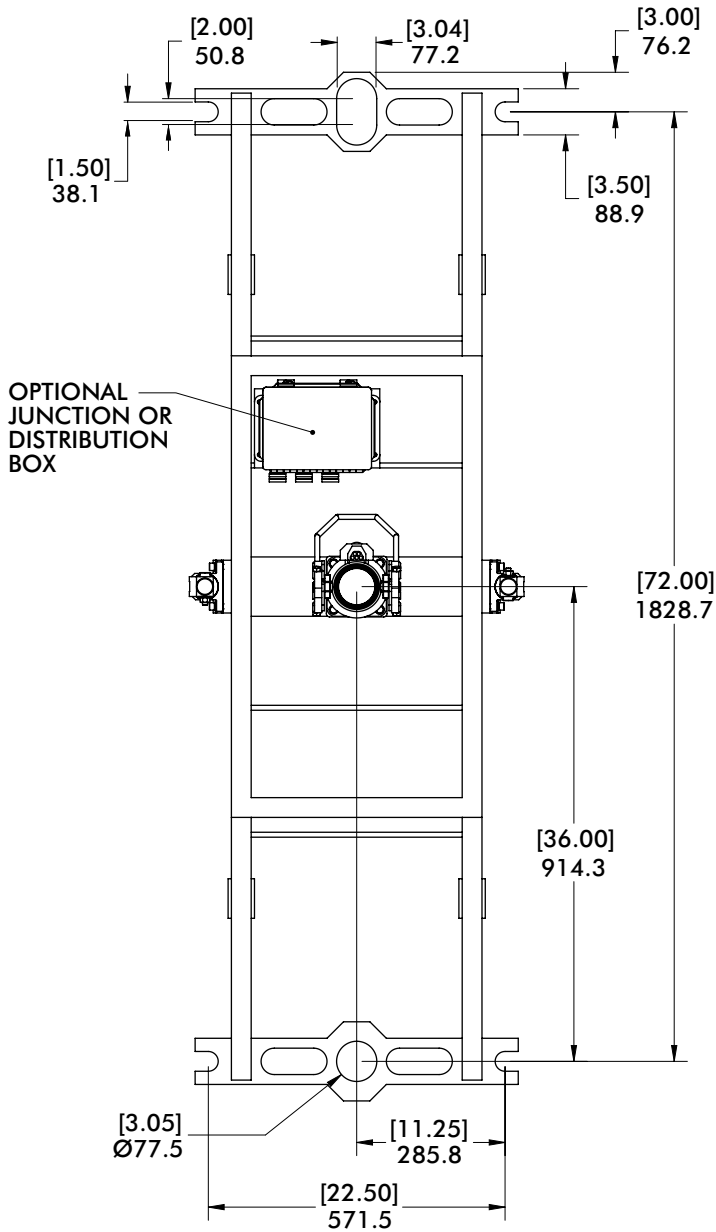
19 Pin Configuration

Model Number	A-Side	B-Side
CPI-RDB-M19P-A19	19-Pin	19-Pin, Male Pin, Female Plug
CPI-RDB-M19P-B19	19-Pin	

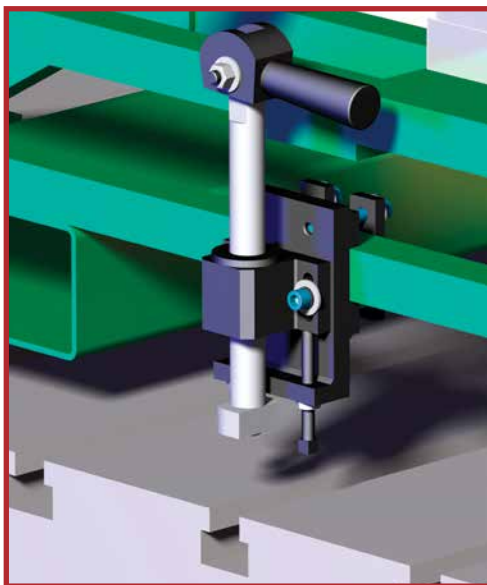
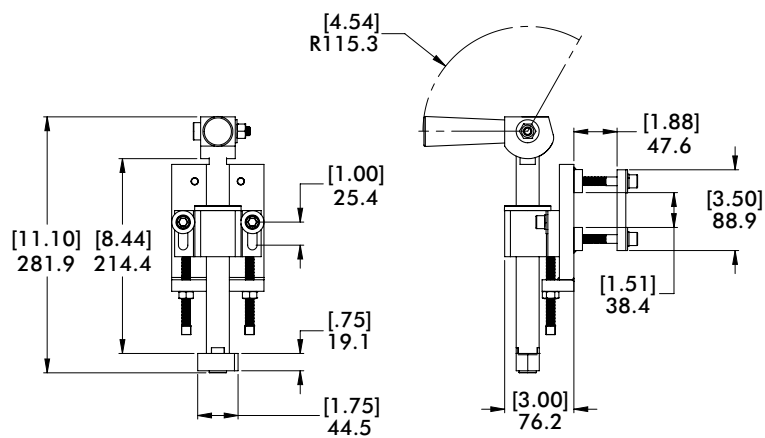
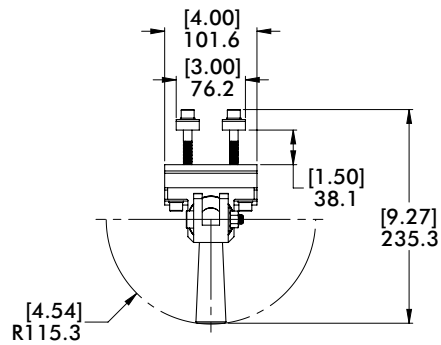


IDLE STATION

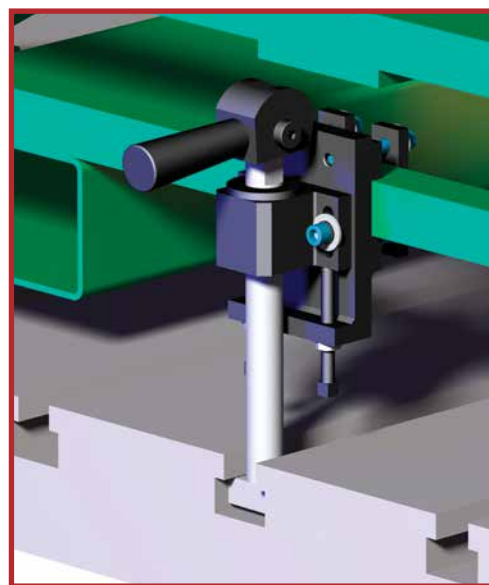
Automation Adaptors | (1) RDN-25-6 Disconnect Housings with Ability to be Fixed to Bolster | Dimensions



MODEL NUMBER	WEIGHT
CPI-PNS-ASSY	85.41 kg [188.30 lb]



Stored Position



In Use, Locked into Bolster

MODEL NUMBER

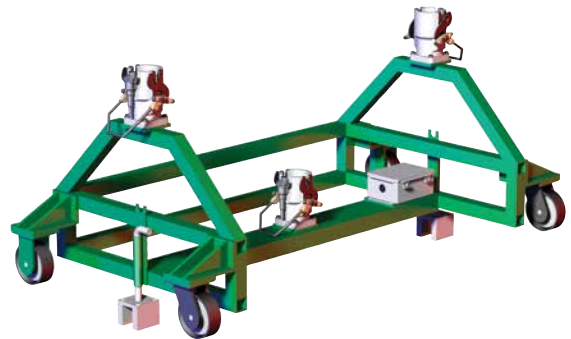
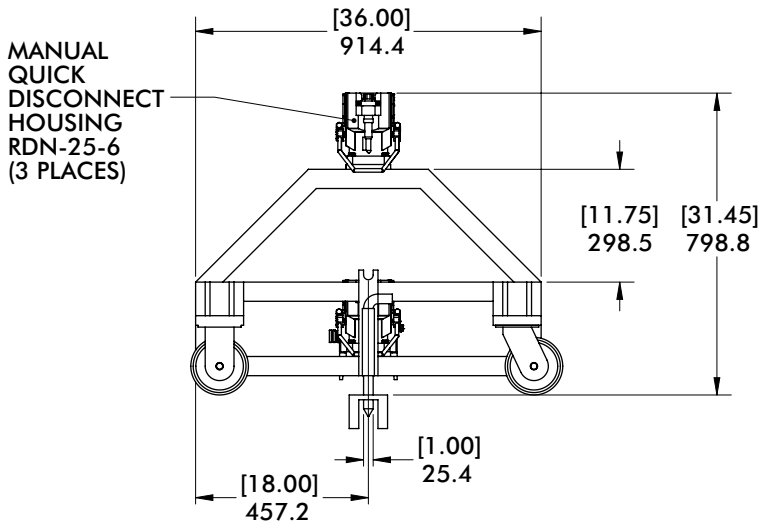
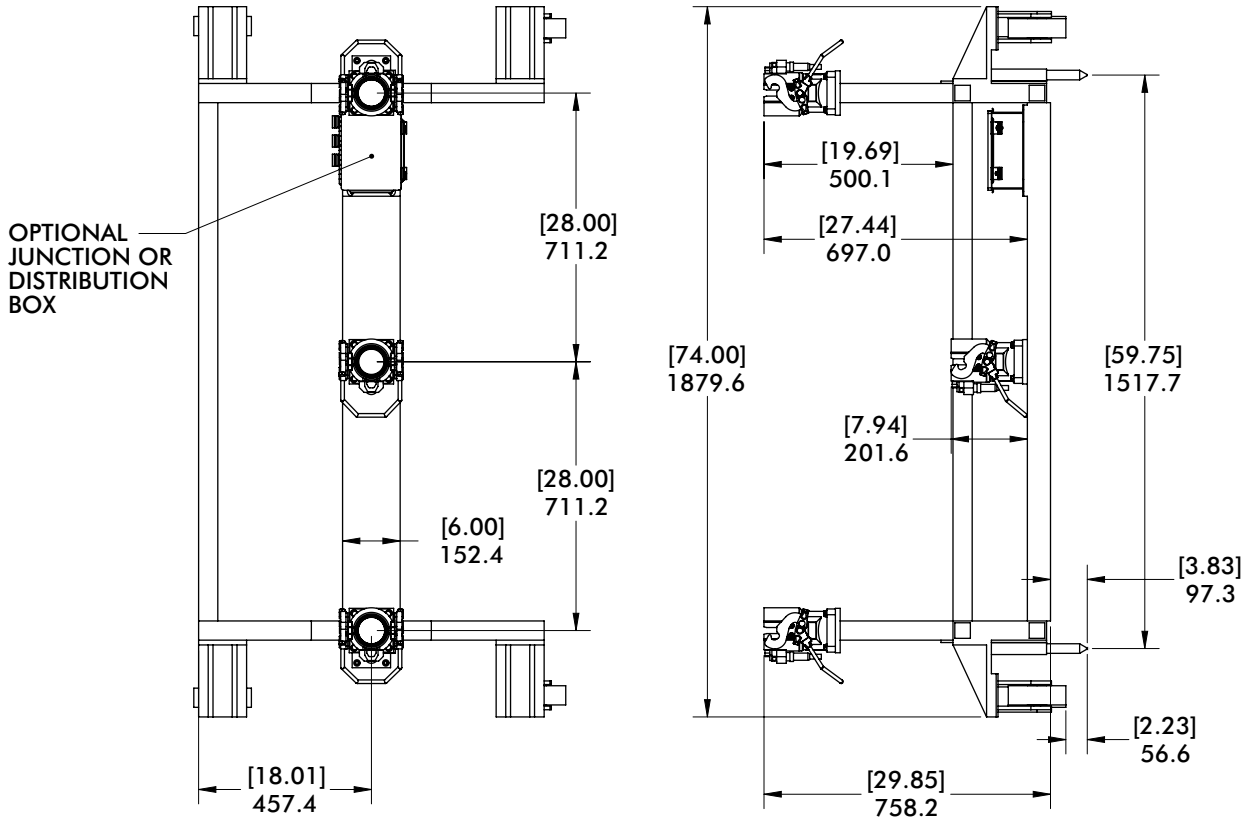
WEIGHT

CPI-BLC-100-15-6

5.50 kg [12.12 lb]

IDLE STATION

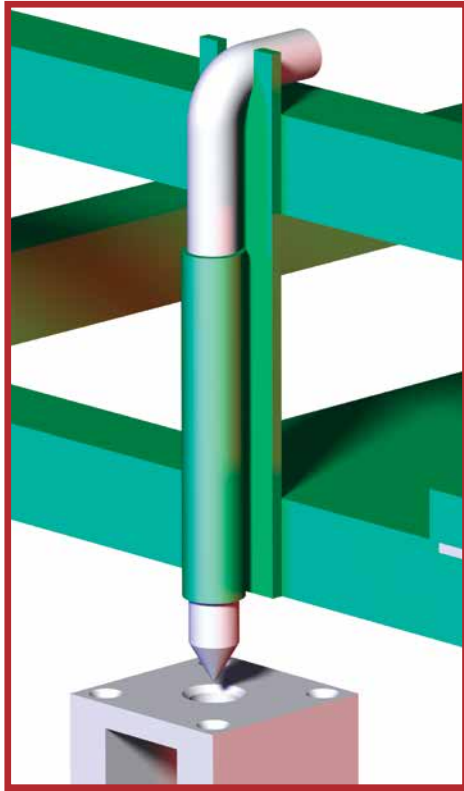
Automation Adaptors | (3) RDN-25-6 Disconnect Housings and Mobile Flexibility | Dimensions



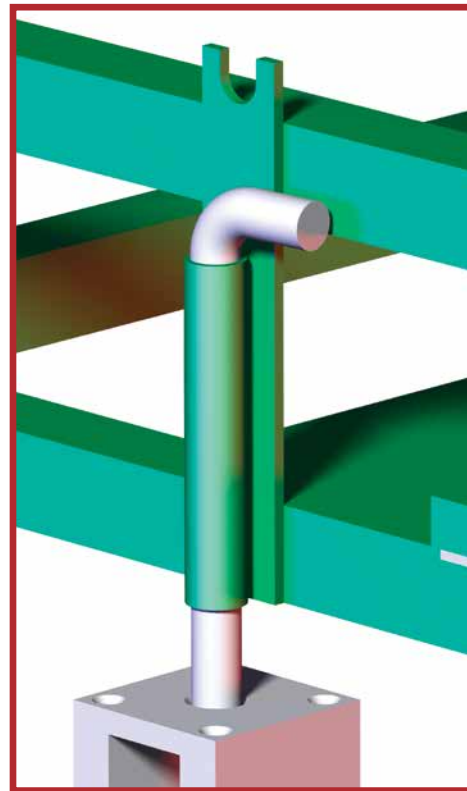
MODEL NUMBER	WEIGHT
CPI-INS-ASSY	182.67 kg [402.73 lb]

LOCKING PINS IDLE STATIONS

Automation Adaptors | Locking Pin | Operating Procedure










Stored Position



Engaged Position

VACUUM SOLUTIONS

Table of Contents

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	EcoCup	29
	Vacuum Generation	31
	Spring Cup Mounts	37
	Double Blank Detector Mounts	46
	Manifolds.....	53

VACUUM PRODUCTS

DESTACO vacuum cups can be ordered in different types, sizes, materials and durometers to be used in a broad array of applications, ranging from sheet metal handling to plastics to glass.



DESTACO also provides vacuum cups for extreme temperatures and hot-forming applications

EcoCup™ is the world's first electric vacuum cup, creating vacuum without air. The EcoCup™ is ideal for pick-and-place applications of flat, rigid, non-porous parts, including plastic, glass, and other consumer goods with smooth, flat surfaces.



ARV® The original, patented Auto-Release Venturi offers users the fastest vacuum and blow-off in the industry with single line operation, integrated blow-off and standard silencer.

Destacker Double Blank Detectors (DBD) allows compliance to blanks within $\pm 15^\circ$ without needing to adjust the robot, automation or tooling.



NITRILE VACUUM CUPS

Vacuum Products | Families and Features

Round Destacker Vacuum Cup

- Designed specifically for pogo-style destacking applications.
- High compressive-strength and shock-resistance extends cup life.
- High vertical lifting capacity prior to part release.
- Provides low-impact part release during pull-off by utilizing the patented stress relief port.



Round Traction Vacuum Cups

- For applications with slick/oily surfaces or for destackers.
- Internal cleats holds part more securely in high speed applications.
- Bellows add flexibility for minor misalignments.

Round Flatfoot Vacuum Cups

- For applications with flat to medium curvature and dry to medium slick/oily surfaces.
- Cleats provide full support to prevent damage to thin outer panels.
- Maximizes lifting capacity and minimizes slip.

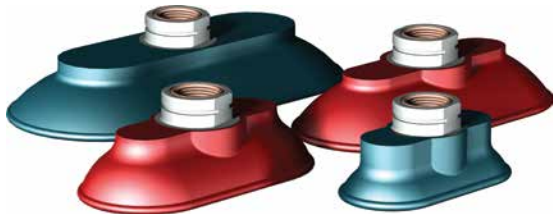


Round Belcup Vacuum Cups

- For applications with flat to mild contoured surfaces.
- Bellows add flexibility for minor misalignments.
- Ideal for general purpose.

Round Deepdish Vacuum Cups

- For applications with contoured surfaces.
- Thin lip wraps and seals curved surfaces tightly.
- Bell structure and internal design works best on materials with convex surfaces.



Oval Flatfoot Vacuum Cups

- For applications with medium slick/oily to dry surfaces.
- Oval shape maximizes contact on narrow panels and maximizes vertical lifting capacity.
- Cleats provide full support to prevent damage to thin outer panels.

Oval Deepdish Vacuum Cups

- For applications with contoured surfaces as well as wet or oily surfaces.
- Oval shape maximizes contact on narrow panels and bell structure works well on materials with convex surfaces.

POLYURETHANE VACUUM CUPS

Vacuum Products | Families and Features



Round Bellows Vacuum Cups

- For applications with slick/oily surfaces or for destackers
- Bellows add flexibility for minor misalignments
- Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green)
- Optional TCT (Triple durometer) style cup offers extra soft internal cleat to eliminate possible dimples on thin sheet metal



Round Flat Foot Vacuum Cups

- Works well on flat to slightly contoured parts
- Maximizes lifting capacity and minimizes slip
- Excellent for transverse loads with high acceleration and deceleration applications
- Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green)



Round Deepdish Vacuum Cups

- Interchangeable with existing/competitor vacuum cups
- New bell shape design is excellent for highly contoured surfaces
- Optional lightweight plastic mount available
- Designed to handle higher acceleration/deceleration speeds
- Shape and design offers better transverse loading



Oval Bellows Vacuum Cups

- Works well on flat and contoured parts
- Maximum lifting capacity where limited space is available
- Bellows add flexibility for minor misalignments
- Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green)











Oval Flat Foot Vacuum Cups

- Works well on flat to slightly contoured parts.
- Long oval shape maximizes contact on narrow surfaces
- Cleats provide full support to prevent damage to thin outer panel
- Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green)

CHOOSE THE RIGHT VACUUM CUP FOR YOUR APPLICATION

Vacuum Products | Application, Characteristics and Usage Chart for Vacuum Cups






	DESTACKER APPLICATION	FLAT CONTOURS	MILD CONTOURS	HIGH CONTOURS	SLICK/OILY SURFACES	DRY SURFACES	HOT FORMING	Application Direction
Nitrile Vacuum Cups US Patents #7,309,089 7,712,807  Destacker Vacuum Cups	5	5	N/A	N/A	3	5	N/A	VERTICAL
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	HORIZONTAL
 Round Traction Vacuum Cups	4	5	4	2	5	5	N/A	VERTICAL
	N/A	5	3	1	5	5	N/A	HORIZONTAL
 Round Flatfoot Vacuum Cups	4	4	5	3	4	4	N/A	VERTICAL
	N/A	4	5	3	4	4	N/A	HORIZONTAL
 Round Belcup Vacuum Cups	4	5	4	2	3	4	N/A	VERTICAL
	N/A	3	3	1	2	4	N/A	HORIZONTAL
 Round Deepdish Vacuum Cups	1	1	3	5	3	3	N/A	VERTICAL
	N/A	1	3	5	3	3	N/A	HORIZONTAL
 Oval Deepdish Vacuum Cups	1	3	4	2	4	3	N/A	VERTICAL
	N/A	3	4	2	3	3	N/A	HORIZONTAL
 Oval Flatfoot Vacuum Cups	3	4	3	1	4	4	N/A	VERTICAL
	N/A	4	3	1	3	4	N/A	HORIZONTAL
 Hot Forming Vacuum Cups	3	3	2	1	3	4	5	VERTICAL
	N/A	3	2	1	2	3	5	HORIZONTAL

Worst Cup for the Job **1** **2** **3** **4** **5** Best Cup for the Job **N/A** Not Advised for the application

This chart is a guide to aid in selecting the right family of cup for general surfaces, contours, and applications.

CHOOSE THE RIGHT VACUUM CUP FOR YOUR APPLICATION

Vacuum Products | Application, Characteristics and Usage Chart for Vacuum Cups

Polyurethane Vacuum Cups		DESTACKER APPLICATION	FLAT CONTOURS	MILD CONTOURS	HIGH CONTOURS	SLICK/OILY SURFACES	DRY SURFACES	HOT FORMING	Application Direction
 <p>Round Bellows Vacuum Cups</p>		4	5	4	2	5	5	N/A	VERTICAL
		N/A	5	3	1	5	5	N/A	HORIZONTAL
 <p>Round Flat Foot Vacuum Cups</p>		4	4	5	2	4	5	N/A	VERTICAL
		N/A	4	5	2	4	5	N/A	HORIZONTAL
 <p>Round Deepdish Vacuum Cups</p>		3	4	5	5	4	5	N/A	VERTICAL
		3	4	5	5	4	5	N/A	HORIZONTAL
 <p>Oval Bellows Vacuum Cups</p>		3	4	4	2	4	5	N/A	VERTICAL
		N/A	4	3	2	3	5	N/A	HORIZONTAL
 <p>Oval Flat Foot Vacuum Cups</p>		3	4	3	2	3	5	N/A	VERTICAL
		N/A	3	3	2	2	5	N/A	HORIZONTAL

Worst Cup for the Job 1 2 3 4 5 Best Cup for the Job
N/A **Not Advised for the application**

This chart is a guide to aid in selecting the right family of cup for general surfaces, contours, and applications.

CHOOSE THE RIGHT VACUUM CUP FOR YOUR APPLICATION

Vacuum Products | ACU Index, How Vacuum Cups Work, Cup Usage, and Safety Factor

Application, Characteristics, and Usage (ACU) Index

Determining the type and durometer of vacuum cup appropriate for a particular application is typically based on three criteria.

- How oily or slick the part surface is.
- How much contour or curvature the part has.
- How long you can expect the cup to last (Longevity)?

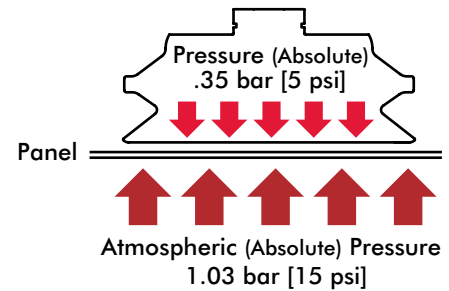


A set of vacuum cups of the same size and type, each having different durometers may handle oily/slick or contoured parts differently. However, cup longevity of each may be affected as a result of durometer, application and usage. The ACU Index is a reference shown with each type of vacuum cup and is used to illustrate the differences between vacuum cup types and durometers, when considering the above criteria.

How Vacuum Cups work

A panel adheres to a vacuum cup because the surrounding pressure (atmospheric pressure) is greater than the pressure inside the vacuum cup. The greater pressure pushes the panel onto the cup.

To create the low pressure in the vacuum cup, it is connected to a vacuum generator. The lower the pressure (higher vacuum) inside the cup; the greater the lifting force of the suction cup.



Vacuum Cup Usage

It is important to use the proper size and quantity of vacuum cups needed for your application. There are five steps which will help you make sure your application has the appropriate vacuum cup usage.

- Step 1:** Determine application and find appropriate cup family type.
- Step 2:** Determine panel weight.
- Step 3:** Find maximum cup size based on panel contour and shape.
- Step 4:** Find the appropriate cup size lifting capacity in the chart, found on the catalog page featuring the cup family type chosen.
- Step 5:** Determine safety factor determined on application (See Below).

Use the formula on the right to determine the proper amount of cups needed to move your panel.

Formula

$$n = \frac{w \times s}{f}$$

- w = Weight of Panel
- f = Lifting force of cup
- s = Safety factor
- n = Number of cups

Weight and lifting force must be in the same units, either English or Metric.

Safety Factor

Ideal plant conditions*: (2)

- Fast moving robot: (+1)
- Slick or Oily Panel: (+1)
- Flexing Panel: (+2)
- Small cups: (+1)
- High Horizontal Loads: (+1)

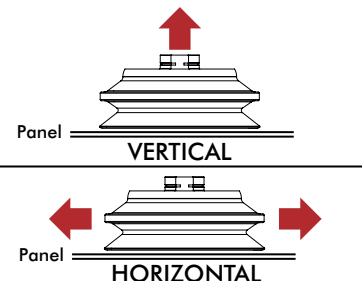
Starting with Ideal conditions (2), add each additional conditions to determine total safety factor.

For example:

Ideal conditions:	2
Fast moving robots:	+1
Flexing Panel:	+2
Total Safety Factor	5

(*Ideal conditions are defined as having no surface, operational, or environmental conditions which could adversely effect the performance to the vacuum cup.

Relative Cup Motion



VACUUM CUP OPTIONS

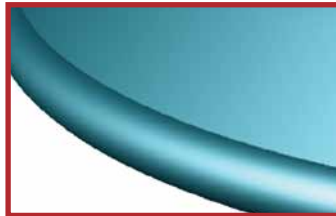
Vacuum Products | Durometer and Mounting Options

DESTACO Vacuum Cups are offered in different families, and may be offered in different durometers. Vacuum cups are also offered in Imperial and Metric mounting options which may vary according to the size and type of the vacuum cup.

Vacuum cups can be ordered as follows:
CPI-"MODEL"-"Mounting"-"DuRometer"



Vacuum Cup Durometers ("**DR**") (Color equals Durometer (Shore A Scale))



30

This soft durometer is useful for dryer, contoured panels. However, this durometer has less life.



45

This medium hard durometer will seal and adapt to contours well and is good for all around usage. This durometer has a longer life than the 30 durometer.



60

This hard durometer is helpful for extremely oily panels and flat surfaces such as a destacker operation. This durometer has a longer life than the 45 durometer.



PU55/PU60

This durable long-lasting polyurethane material is resistant to oils, UV light and oxygen. No dry rotting or cracking with better elastic memory.

= Durometer not available in cup style.

Imperial Vacuum Cup Mounting Options ("**M**")



1/4" NPT



3/8" NPT



1.25" SQUARE



1/2" NPT



1/8" NPT MALE



QUICK DISCONNECT

Metric Vacuum Cup Mounting Options ("**M**")



1/4" G



3/8" G



1.25" SQUARE



M10 MALE



M8 FEMALE



SMOOTH BORE

= Mount only available in this cup size.

= Mount not available in this cup size.

Specialty Vacuum Cup Mounting Options ("**M**")



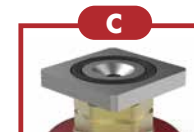
3/8 NPT



Nylon G3/8



G3/8



1.25 in. Square

Micro Industrial Mounting Options ("**M**")



10-32 MALE



1/8" G FEMALE



1/8" G MALE

ACCELERATE® COLLECTION VACUUM CUPS

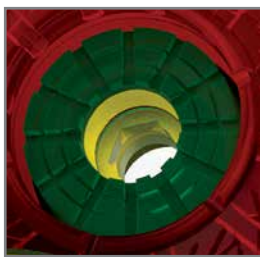
Vacuum Products | Dimensions | Ordering Information

TC Polyurethane Round Bellows

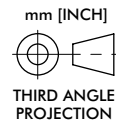
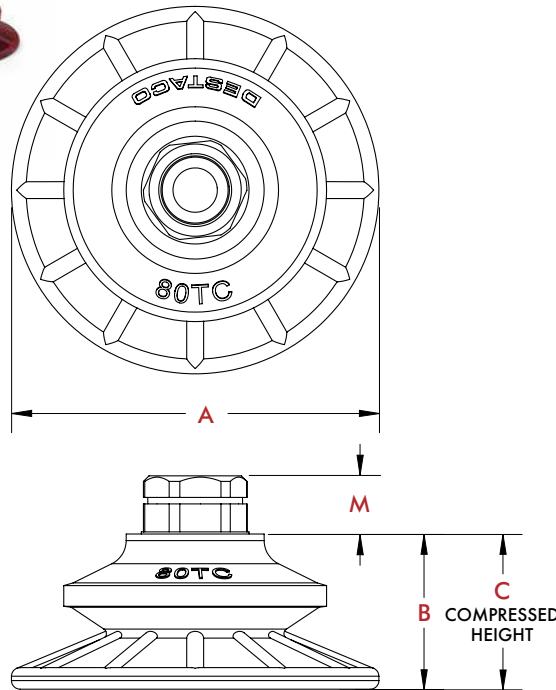
Specifications:

Temperature:
10°-49° C [50°-120° F]

Materials: Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green).



TCT (triple durometer) style cup offers extra soft, 30 durometer, internal cushion (yellow) to eliminate possible dimples on thin sheet metal.



Mount	M
U38/G38	[0.57]
	14.5
P38	[0.85]
	21.5
C	[0.73]
	18.5

Dimensions shown "[inch] mm"

TC Dimensions

Model	A	B	C	Weight
30TC	[1.18]	[0.57]	[0.37]	[1.00 oz]
	30	14.5	9.5	28 g
40TC	[1.77]	[0.69]	[0.41]	[1.20 oz]
	45	17.5	10.5	34 g
60TC	[2.40]	[0.85]	[0.45]	[2.15 oz]
	61	21.5	11.5	61 g
80TC/ 80TCT	[3.35]	[1.40]	[0.85]	[4.97 oz]
	85	35.5	21.5	141 g
110TC/ 110TCT	[4.53]	[2.03]	[1.20]	[9.70 oz]
	115	51.5	30.5	275 g

Dimensions shown "[inch] mm"

TC Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
30TC	[6]	[3]	[1.75]
	2.72	1.36	0.79
40TC	[18]	[13]	[10]
	8.16	5.90	4.54
60TC	[25]	[27]	[20]
	11.34	12.25	9.07
80TC/ 80TCT	[53]	[54]	[36]
	24.04	24.49	16.33
110TC/ 110TCT	[85]	[78]	[57]
	38.56	35.38	25.86

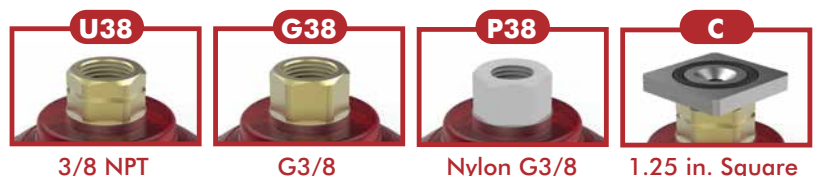
Holding capacities shown "[lbs] kg"

TC Round Bellows Ordering Information

Metric

Ø30mm	VC-30TC-(M)-PU55
Ø45mm	VC-40TC-(M)-PU55
Ø61mm	VC-60TC-(M)-PU55
Ø85mm	VC-80TC-(M)-PU55
Ø85mm	VC-80TCT-(M)-PU55
Ø115mm	VC-110TC-(M)-PU55
Ø115mm	VC-110TCT-(M)-PU55

Mounting Options ("M")



ACCELERATE® COLLECTION VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

Specifications:

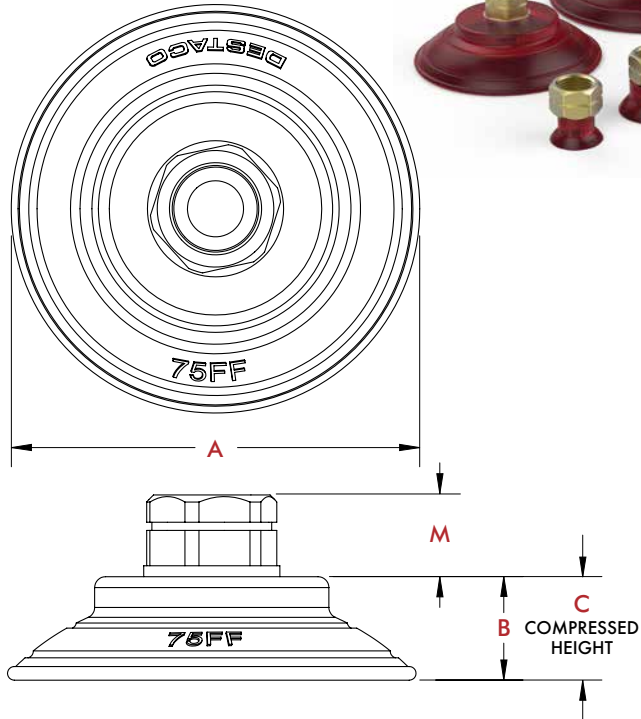
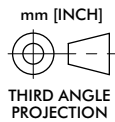
Temperature:

10°-49° C [50°-120° F]

Materials: Dual Durometer

Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green).

FF Polyurethane Round Flat



Mount	M
U38/G38	[0.57]
	14.5
P38	[0.85]
	21.5
C	[0.73]
	18.5

Dimensions shown "[inch] mm"

FF Dimensions

Model	A	B	C	Weight
25FF	[0.98]	[0.57]	[0.49]	[0.36 oz]
	25	14.5	12.5	10 g
35FF	[1.38]	[0.61]	[0.51]	[1.48 oz]
	35	15.5	13	42 g
50FF	[1.97]	[0.26]	[0.51]	[2.36 oz]
	50	6.5	13	67 g
75FF	[2.95]	[0.77]	[0.59]	[3.21 oz]
	75	19.5	15	91 g
100FF	[3.94]	[0.96]	[0.73]	[6.06 oz]
	100	24.5	18.5	172 g
125FF	[4.92]	[1.20]	[0.89]	[9.88 oz]
	125	30.5	22.5	280 g

Dimensions shown "[inch] mm"

FF Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
25FF	[6]	[2]	[1.5]
	2.72	0.91	0.68
35FF	[13]	[9]	[7]
	5.90	4.08	3.18
50FF	[24]	[23]	[16]
	10.89	10.43	7.26
75FF	[53]	[47]	[31]
	24.04	21.32	14.06
100FF	[110]	[109]	[46]
	49.90	49.44	20.87
125FF	[146]	[135]	[53]
	66.23	61.24	24.04

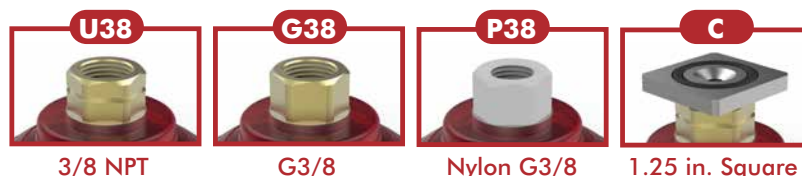
Holding capacities shown "[lbs] kg"

FF Round Flat Ordering Information

Metric

Ø25mm	VC-25FF-(M)-PU55
Ø35mm	VC-35FF-(M)-PU55
Ø50mm	VC-50FF-(M)-PU55
Ø75mm	VC-75FF-(M)-PU55
Ø100mm	VC-100FF-(M)-PU55
Ø125mm	VC-125FF-(M)-PU55

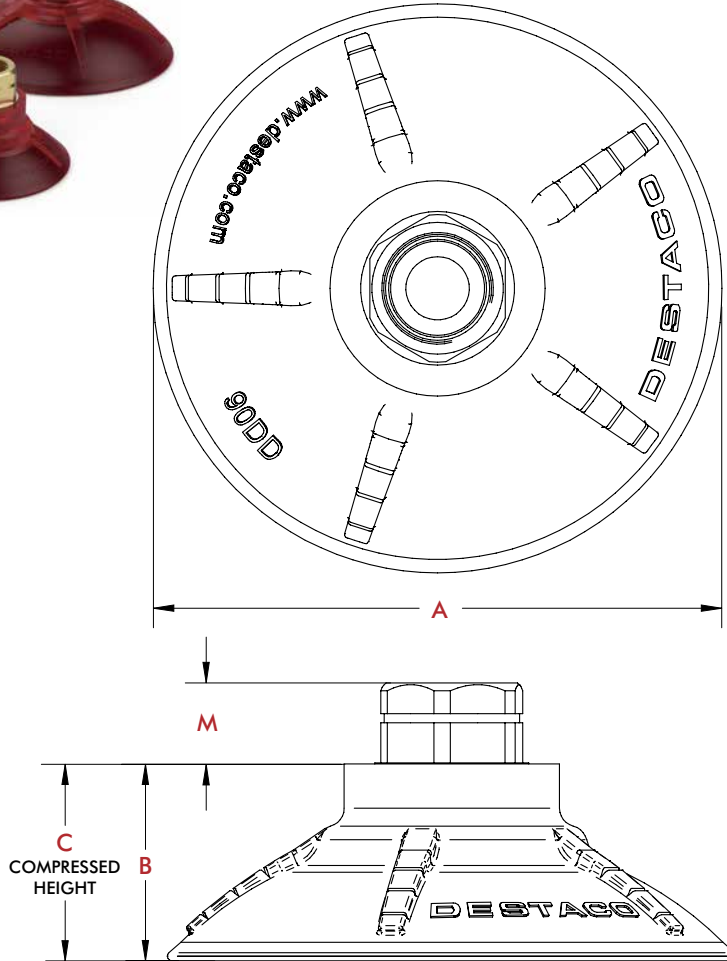
Mounting Options ("M")



ACCELERATE® COLLECTION VACUUM CUPS

Vacuum Products | Dimensions | Technical Specifications

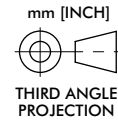
DD Polyurethane Round Deepdish



Specifications:

Temperature:
10°-49° C [50°-120° F]

Materials:
60 durometer (red)



Mount	M
U38	[0.51]
	13
G38	[0.77]
	19.5
P38	[0.68]
	17.3
C	[0.37]
	9.5

Dimensions shown "[inch] mm"

DD Dimensions

Model	A	B	C	Weight with U38/G38/C	Weight with P38
65DD	[2.66]	[1.11]	[0.67]	[2.08 oz]	[0.9 oz]
	67.5	28.2	17.0	59 g	25 g
90DD	[3.64]	[1.27]	[0.75]	[2.72 oz]	[1.5 oz]
	92.5	32.2	19.0	77 g	43 g
110DD	[4.43]	[1.60]	[0.83]	[3.60 oz]	[2.4 oz]
	112.5	40.6	21.0	102 g	68 g

Dimensions shown "[inch] mm"

DD Holding Capacity

@ -0.9 bar [25.6 inhg] vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
65DD	[42.8]	[44.1]	[30.2]
	19.4	20.0	13.7
90DD	[69.7]	[80.5]	[55.8]
	31.6	36.5	25.3
110DD	[97.4]	[129.0]	[80.5]
	44.2	58.5	36.5

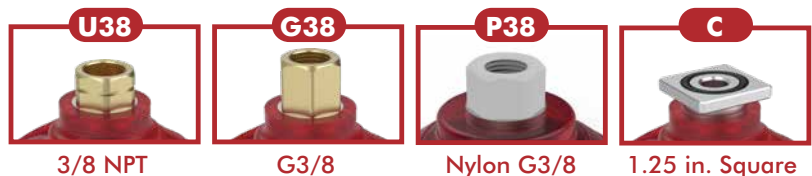
Holding capacities shown "[lbs] kg"

DD Round Deepdish Ordering Information

Metric

Ø67.5mm VC-65DD-(M)-PU60
 Ø92.5mm VC-90DD-(M)-PU60
 Ø112.5mm VC-110DD-(M)-PU60

Mounting Options ("M")



ACCELERATE® COLLECTION VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

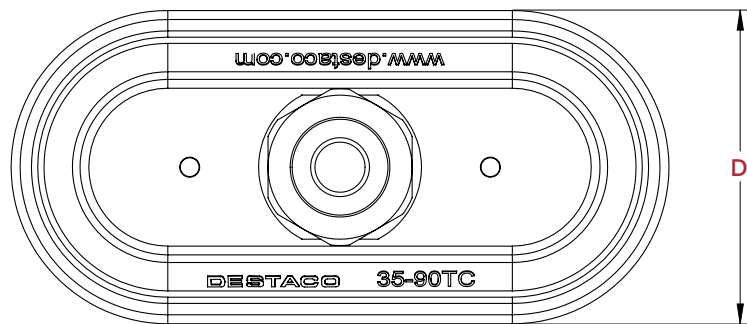
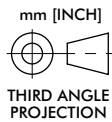


Positioning Kit (for G38 and P38 thread mounts only). Sold separately. Order No. **CPI-LNB-VSA-19** Includes (1) O-ring and (1) locknut.

Specifications:

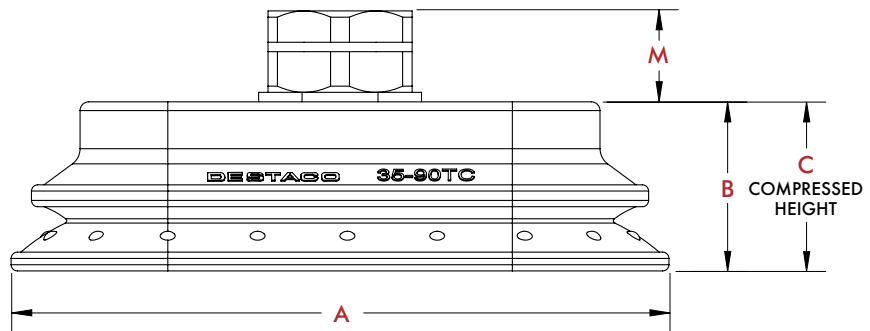
Temperature: 10°-49° C [50°-120° F]
Materials: Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green).

TC Polyurethane Oval Bellows



Mount	M
U38/G38	[0.57]
	14.5
P38	[0.85]
	21.5
C	[0.73]
	18.5

Dimensions shown "[inch] mm"



TC Dimensions

Model	A	B	C	D	Weight
35-90TC	[4.13]	[1.08]	[0.65]	[1.97]	[3.42 oz]
	105	27.5	16.5	50	97 g
50-140TC	[6.18]	[1.40]	[0.85]	[2.64]	[6.70 oz]
	157	35.5	21.5	67	190 g
65-170TC	[7.36]	[1.63]	[1.04]	[3.23]	[10.93 oz]
	187	41.5	26.5	82	310 g

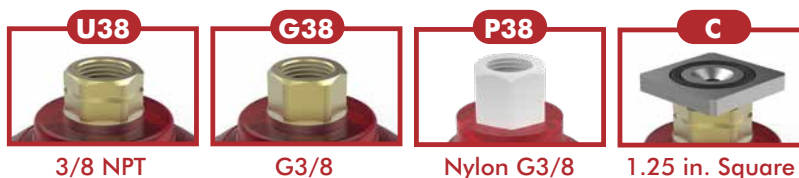
Dimensions shown "[inch] mm"

TC Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
35-90TC	[45]	[40]	[34]
	20.41	18.14	15.42
50-140TC	[99]	[93]	[78]
	44.91	42.18	35.38
65-170TC	[128]	[139]	[149]
	58.06	63.05	67.59

Holding capacities shown "[lbs] kg"

Mounting Options ("M")



TC Oval Bellows Ordering Information

Metric

Ø50x105mm VC-35-90TC-(M)-PU55
 Ø67x157mm VC-50-140TC-(M)-PU55
 Ø82x187mm VC-65-170TC-(M)-PU55

ACCELERATE® COLLECTION VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

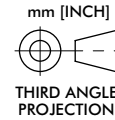
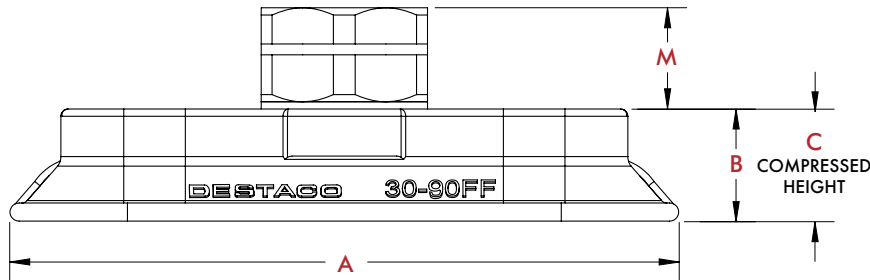
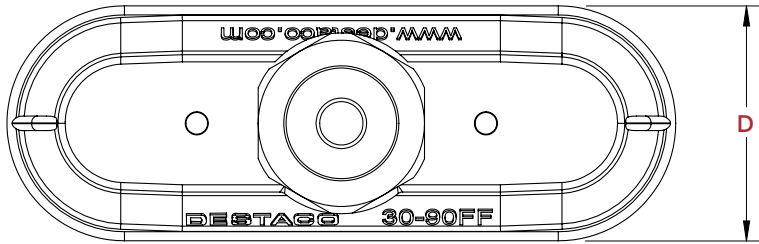
FF Polyurethane Oval Flat



Specifications:

Temperature:
10°-49° C [50°-120° F]
Materials: Dual Durometer Polyurethane - Outside 55 durometer (red), internal treads 60 durometer (dark green).

Positioning Kit (for G38 and P38 thread mounts only).
Sold separately.
Order No. **CPI-LNB-VSA-19**
Includes (1) O-ring and (1) locknut.



Mount	M
U38/G38	[0.57] 14.5
	[0.85] 21.5
P38	[0.73] 18.5

Dimensions shown "[inch] mm"

FF Dimensions

Model	A	B	C	D	Weight
20-80FF	[3.31] 84	[0.61] 15.5	[0.49] 12.5	[0.94] 24	[0.85 oz] 24 g
	30-90FF	[3.66] 93	[0.61] 15.5	[0.45] 11.5	[1.30] 33
40-110FF		[4.45] 113	[0.85] 21.5	[0.65] 16.5	[1.69] 43

Dimensions shown "[inch] mm"

FF Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
20-80FF	[25] 11.34	[25] 11.34	[11] 4.99
	30-90FF	[35] 15.88	[36] 16.33
40-110FF		[55] 24.95	[52] 23.59

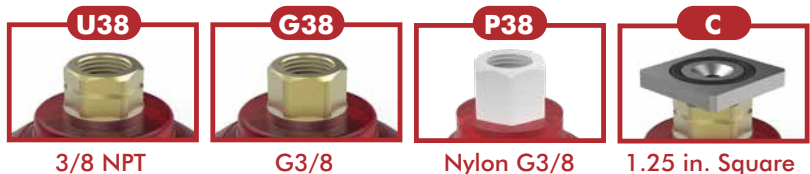
Holding capacities shown "[lbs] kg"

FF Oval Flat Ordering Information

Metric

Ø24x84mm VC-20-80FF-(M)-PU55
Ø33x93mm VC-30-90FF-(M)-PU55
Ø43x113mm VC-40-110FF-(M)-PU55

Mounting Options ("M")



VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

Specifications:

Temperature:

15-59 Sec: -20° to 250° F [-29° to 121° C]

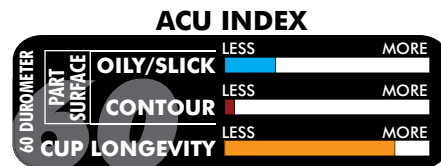
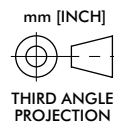
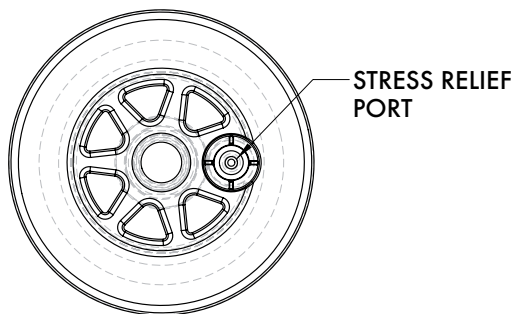
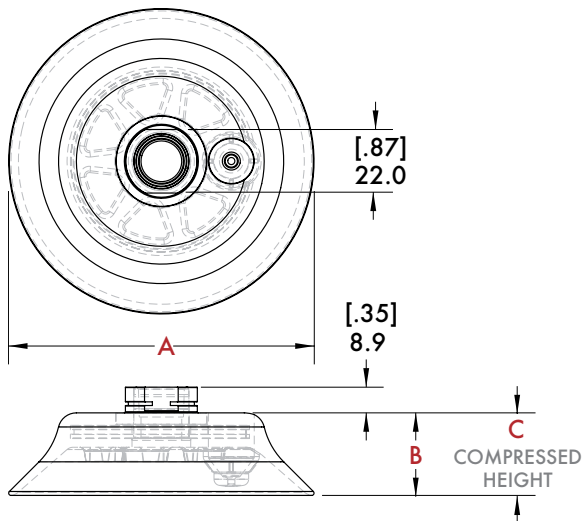
1-5 min: 15° to 180° F [-9° to 82° C]

Material: Nitrile

Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol

DC Destacker Stress Relieving



US Patents #7,309,089
7,712,807

DC Dimensions

Model	A	B	C	Weight
75DC	84.8	25.4	16.7	84 g
[30DC]	[3.34]	[1.00]	[.68]	[3.0 oz]
100DC	105.9	28.6	16.7	120 g
[40DC]	[4.16]	[1.11]	[.68]	[4.2 oz]

Dimensions shown "mm [inch]"

DC Capacity

Appl.	Ver. Lift
75DC	15.9 kg
[30DC]	[35 lb]
100DC	63.1 kg
[40DC]	[139 lb]

Holding capacities shown "N [lbf]"

DC Destacker Stress Relieving Ordering Information

Imperial

Ø3.00" CPI-30DC-(M)-60

Ø4.00" CPI-40DC-(M)-60

Metric

Ø75 mm CPI-75DC-(M)-60

Ø100 mm CPI-100DC-(M)-60

(DR) = Durometer



(M) = Mounts Available



(DR) = Durometer



(M) = Mounts Available



VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

TC/HT Round Traction



Specifications:

Temperature:

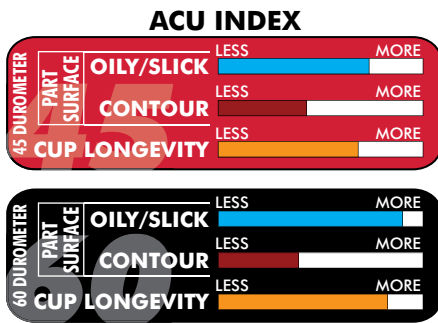
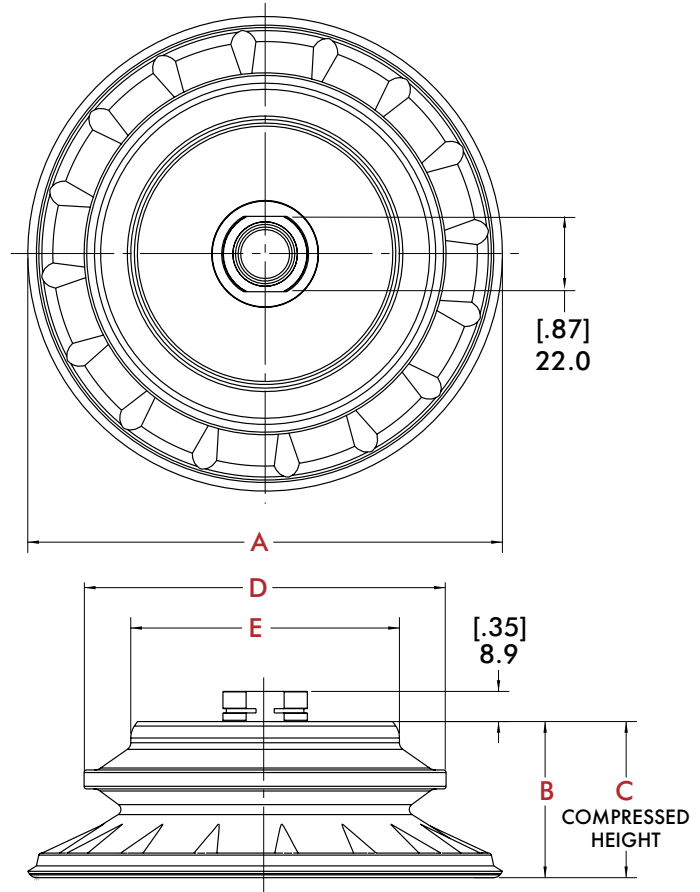
15-59 Sec: -29° to 121° C [-20° to 250° F]

1-5 min: -9° to 82° C [15° to 180° F]

Material: Nitrile

Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



TC/HT Dimensions

Model	A	B	C	D	E	Weight
[20TC]	[2.06]	[1.02]	[.68]	[1.64]	[1.25]	[1.3 oz]
50HT	52.3	25.7	17.3	41.7	31.8	37 g
[35TC]	[3.50]	[1.71]	[.82]	[2.50]	[1.65]	[2.6 oz]
90HT	88.9	43.44	20.8	63.5	41.9	73 g
[45TC]	[4.50]	[1.81]	[.87]	[3.25]	[2.25]	[4.4 oz]
115HT	114.3	46.1	22.1	82.4	57.2	125 g
[55TC]	[5.50]	[1.81]	[.87]	[4.00]	[3.04]	[7.2 oz]
140HT	139.7	46.1	22.1	101.4	77.1	204 g

Dimensions shown "mm [inch]"

TC/HT Holding Capacity

Appl.	Hor. Dry	Hor. Wet	Ver. Lift
[20TC]	[8.5 lb]	[7 lb]	[22.7 lb]
50HT	3.9 kg	3.2 kg	10.3 kg
[35TC]	[30 lb]	[20 lb]	[66 lb]
90HT	13.6 kg	9.1 kg	29.9 kg
[45TC]	[45 lb]	[30 lb]	[103 lb]
115HT	20.4 kg	13.6 kg	46.7 kg
[55TC]	[100 lb]	[45 lb]	[164 lb]
140HT	45.5 kg	20.4 kg	74.4 kg

Holding capacities shown "N [lbf]"

TC/HT Round Traction Ordering Information

Imperial

- Ø2.00" CPI-20TC-(M)-(DR)
- Ø3.50" CPI-35TC-(M)-(DR)
- Ø4.50" CPI-45TC-(M)-(DR)
- Ø5.50" CPI-55TC-(M)-(DR)

..(M) = Mounts Available..

K B C D ~~20TC~~ ~~E1~~ ~~20TC~~

..(DR) = Durometer..

~~45~~ **60**

Metric

- Ø50mm CPI-50HT-(M)-(DR)
- Ø90mm CPI-90HT-(M)-(DR)
- Ø115mm CPI-115HT-(M)-(DR)
- Ø140mm CPI-140HT-(M)-(DR)

..(M) = Mounts Available..

A B C

..(DR) = Durometer..

~~45~~ **60**

VACUUM CUPS

Vacuum Products | Dimensions | Technical Specifications

Specifications:

Temperature:

15-59 Sec: -20° to 250° F [-29° to 121° C]

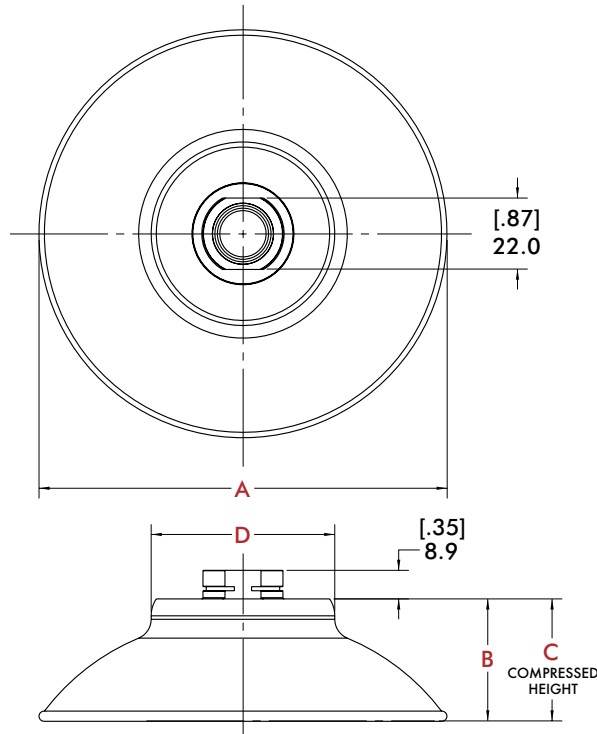
1-5 min: 15° to 180° F [-9° to 82° C]

Material: Nitrile

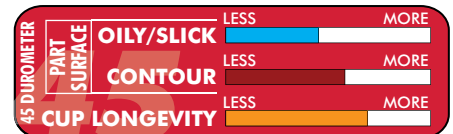
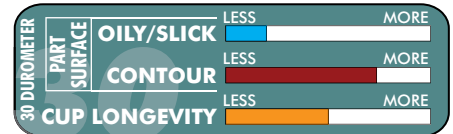
Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol

FF/PF Round Flatfoot



ACU INDEX



FF/PF Round Flatfoot

Model	A	B	C	D	Weight
50PF	50.8	22.5	13.0	19.1	40 g
[20FF]	[2.00]	[.89]	[.51]	[.75]	[1.4 oz]
75PF	76.2	25.4	18.2	39.6	57 g
[30FF]	[3.00]	[1.00]	[.72]	[1.56]	[2.0 oz]
100PF	101.6	33.3	22.2	39.6	96 g
[40FF]	[4.00]	[1.31]	[.88]	[1.56]	[3.4 oz]
125PF	127.0	38.2	25.4	57.2	159 g
[50FF]	[5.00]	[1.50]	[1.00]	[2.25]	[5.6 oz]

Dimensions shown "mm [inch]"

FF/PF Vacuum Cup Capacities:

Appl.	Hor. Dry	Hor. Wet	Ver. Lift
50PF	6.4 kg	2.7 kg	9.1 kg
[20FF]	[14 lb]	[6 lb]	[20 lb]
75PF	13.6 kg	5.9 kg	27.2 kg
[30FF]	[30 lb]	[13 lb]	[60 lb]
100PF	15.9 kg	9.1 kg	46.3 kg
[40FF]	[35 lb]	[20 lb]	[102 lb]
125PF	31.8 kg	25.8 kg	74.8 kg
[50FF]	[70 lb]	[55 lb]	[165 lb]

Holding capacities shown "N [lbf]"

FF/PF Round Flatfoot Vacuum Cups Ordering Information

Imperial

Ø2.00" CPI-20FF-(M)-(DR)
 Ø3.00" CPI-30FF-(M)-(DR)
 Ø4.00" CPI-40FF-(M)-(DR)
 Ø5.00" CPI-50FF-(M)-(DR)

(DR) = Durometer

30 45 60

(M) = Mounts Available

K B C D 40FF 50FF E1

Metric

Ø50mm CPI-50PF-(M)-(DR)
 Ø75mm CPI-75PF-(M)-(DR)
 Ø100mm CPI-100PF-(M)-(DR)
 Ø125mm CPI-125PF-(M)-(DR)

(DR) = Durometer

30 45 60

(M) = Mounts Available

A B C

VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

AC/BT Round Belcup



Specifications:

Temperature:

15-59 Sec: -20° to 250° F [-29° to 121° C]

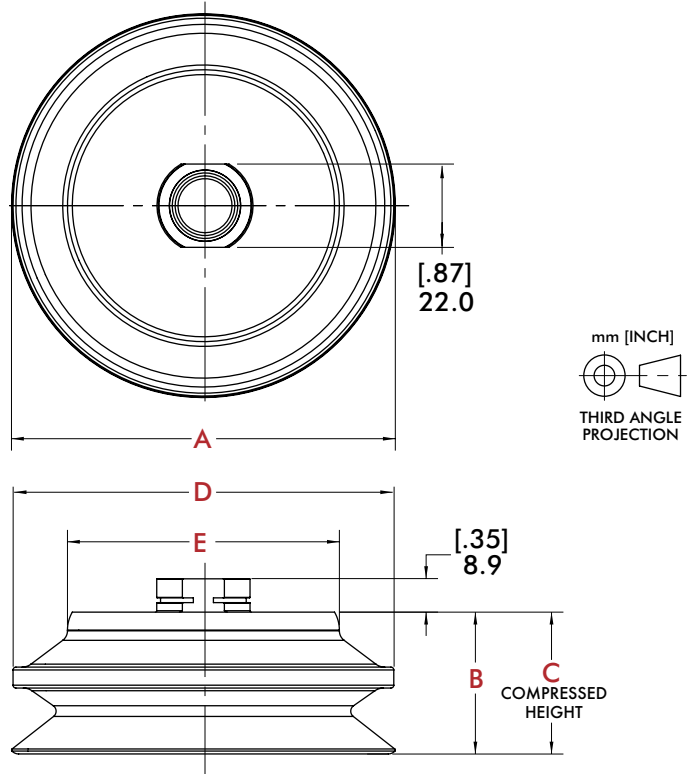
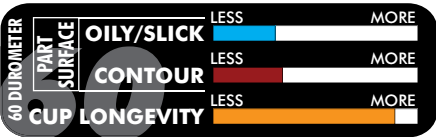
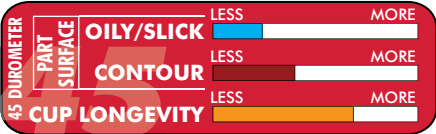
1-5 min: 15° to 180° F [-9° to 82° C]

Material: Nitrile

Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol

ACU INDEX



AC/BT Round Belcup

Model	A	B	C	D	E	Weight
40BT	41.1	25.9	11.9	41.1	31.8	35 g
[15AC]	[1.62]	[1.02]	[.47]	[1.63]	[1.25]	[1.2 oz]
50BT	57.4	37.4	18.3	57.9	38.1	57 g
[20AC]	[2.26]	[1.47]	[.72]	[2.28]	[1.50]	[2.0 oz]
75BT	78.9	38.8	19.8	80.0	56.6	91 g
[30AC]	[3.11]	[1.53]	[.78]	[3.15]	[2.23]	[3.2 oz]
100BT	102.4	37.8	18.6	101.6	72.6	159 g
[40AC]	[4.03]	[1.49]	[.73]	[4.00]	[2.85]	[5.6 oz]
125BT	127.0	38.1	19.0	127.0	97.8	232 g
[50AC]	[5.00]	[1.50]	[.75]	[5.00]	[3.85]	[8.2 oz]

Dimensions shown "mm [inch]"

AC/BT Vacuum Cup Capacities:

Appl.	Hor. Dry	Hor. Wet	Ver. Lift
40BT	2.7 kg	1.4 kg	3.6 kg
[15AC]	[6 lb]	[3 lb]	[8 lb]
50BT	3.9 kg	2.0 kg	11.8 kg
[20AC]	[8.5 lb]	[4.5 lb]	[26 lb]
75BT	5.4 kg	2.7 kg	25.4 kg
[30AC]	[12 lb]	[6 lb]	[56 lb]
100BT	15.0 kg	3.6 kg	40.4 kg
[40AC]	[33 lb]	[8 lb]	[89 lb]
125BT	24.0 kg	6.8 kg	62.6 kg
[50AC]	[53 lb]	[15 lb]	[138 lb]

Holding capacities shown "N [lbf]"

AC/BT Round Belcup Vacuum Cups Ordering Information

Imperial

Ø1.50" CPI-15AC-(M)-(DR)
Ø2.00" CPI-20AC-(M)-(DR)
Ø3.00" CPI-30AC-(M)-(DR)
Ø4.00" CPI-40AC-(M)-(DR)
Ø5.00" CPI-50AC-(M)-(DR)

(DR) = Durometer

~~45~~ **60**

(M) = Mounts Available

~~K~~ ~~B~~ ~~C~~ ~~D~~ ~~15AC~~ ~~20AC~~ **M8F** **20AC** ~~E1~~ ~~15AC~~

Metric

Ø40mm CPI-40BT-(M)-(DR)
Ø50mm CPI-50BT-(M)-(DR)
Ø75mm CPI-75BT-(M)-(DR)
Ø100mm CPI-100BT-(M)-(DR)
Ø125mm CPI-125BT-(M)-(DR)

(DR) = Durometer

~~45~~ **60**

(M) = Mounts Available

A **B** **C** **M10**

VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

DD/DM Round Deepdish

Specifications:

Temperature:

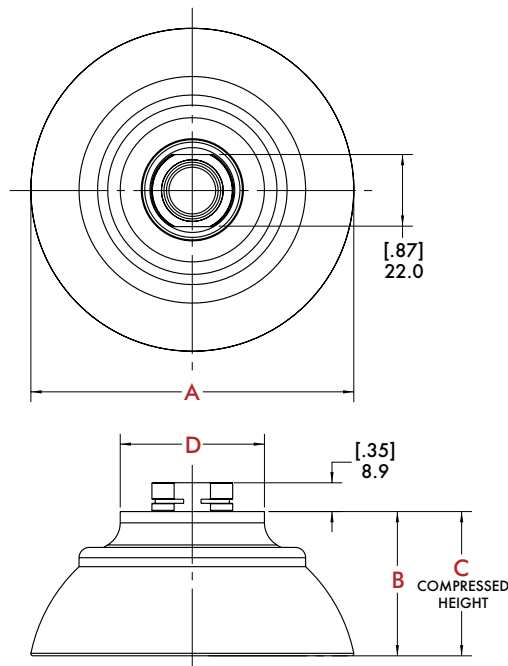
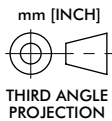
15-59 Sec: -20° to 250° F [-29° to 121° C]

1-5 min: 15° to 180° F [-9° to 82° C]

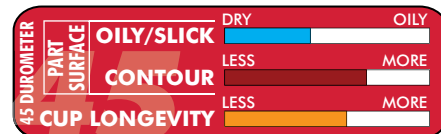
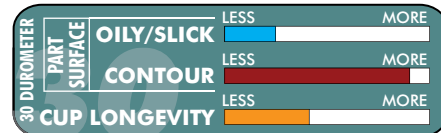
Material: Nitrile

Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



ACU INDEX



DD/DM Round Deepdish

Model	A	B	C	D	Weight
50DM	50.8	29.1	18.3	38.1	40 g
[20DD]	[2.00]	[1.14]	[.72]	[1.50]	[1.4 oz]
75DM	76.2	40.4	24.3	44.0	57 g
[30DD]	[3.00]	[1.59]	[.96]	[1.73]	[2.0 oz]
100DM	101.6	44.5	20.8	44.5	96 g
[40DD]	[4.00]	[1.75]	[.82]	[1.75]	[3.4 oz]

Dimensions shown "mm [inch]"

DD/DM Vacuum Cup Capacities:

Appl.	Hor. Dry	Hor. Wet	Ver. Lift
50DM	4.1 kg	3.2 kg	5.4 kg
[20DD]	[9 lb]	[7 lb]	[12 lb]
75DM	6.4 kg	2.7 kg	9.1 kg
[30DD]	[14 lb]	[6 lb]	[20 lb]
100DM	11.3 kg	3.2 kg	15.8 kg
[40DD]	[25 lb]	[7lb]	[35 lb]

Holding capacities shown "N [lbf]"

DD/DM Round Deepdish Vacuum Cups Ordering Information

Imperial

Ø2.00" CPI-20DD-(M)-(DR)

Ø3.00" CPI-30DD-(M)-(DR)

Ø4.00" CPI-40DD-(M)-(DR)

(DR) = Durometer

30 45 ~~X~~

(M) = Mounts Available

K B C

Metric

Ø50mm CPI-50DM-(M)-(DR)

Ø75mm CPI-75DM-(M)-(DR)

Ø100mm CPI-100DM-(M)-(DR)

(DR) = Durometer

30 45 ~~X~~

(M) = Mounts Available

A B C

VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

FF/PF Oval FlatFoot



Specifications:

Temperature:

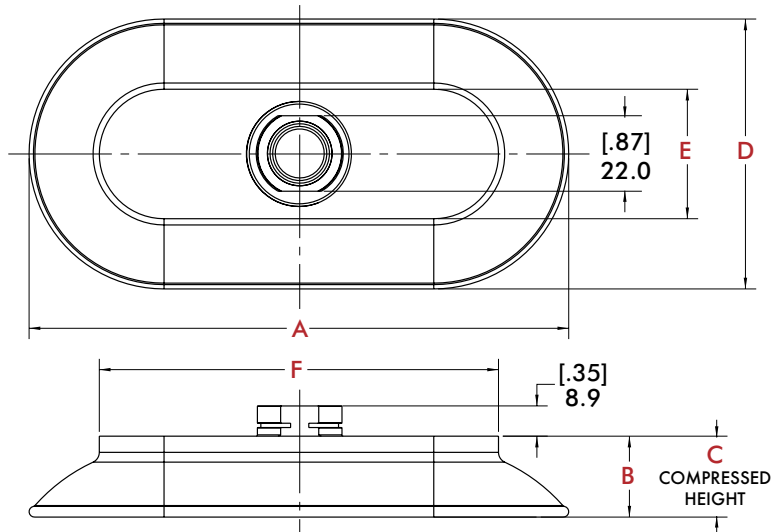
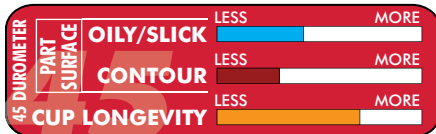
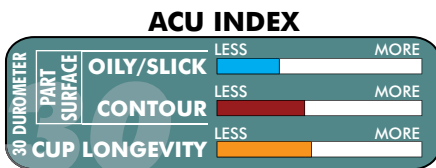
15-59 Sec: -20° to 250° F [-29° to 121° C]

1-5 min: 15° to 180° F [-9° to 82° C]

Material: Nitrile

Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



FF/PF Oval Flatfoot

Model	A	B	C	D	E	F	Weight
40-75PF [153FF]	76.2 [3.00]	22.3 [.88]	16.2 [.64]	38.1 [1.50]	22.2 [.88]	60.3 [2.37]	35 g [1.2 oz]
50-100PF [24FF]	101.6 [4.00]	23.8 [.94]	16.2 [.64]	50.8 [2.00]	22.2 [.88]	73.0 [2.88]	119 g [4.2 oz]
60-125PF [255FF]	127.0 [5.00]	22.3 [.88]	16.2 [.64]	63.5 [2.50]	22.2 [.88]	85.7 [3.38]	147 g [5.2 oz]
75-150PF [36FF]	152.9 [6.00]	25.4 [1.00]	18.3 [.72]	76.2 [3.00]	38.1 [1.50]	114.3 [4.50]	201 g [7.1 oz]

Dimensions shown "mm [inch]"

FF/PF Vacuum Cup Capacities:

Appl.	Hor. Dry	Hor. Wet	Ver. Lift
40-75PF [153FF]	6.8 kg [15 lb]	2.3 kg [5 lb]	8.2 kg [18 lb]
50-100PF [24FF]	8.2 kg [18 lb]	2.7 kg [6 lb]	19.1 kg [42 lb]
60-125PF [255FF]	20.4 [45 lb]	3.2 kg [7 lb]	25 kg [55 lb]
75-150PF [36FF]	24.9 [55 lb]	4.1 kg [9 lb]	32.7 kg [72 lb]

Holding capacities shown "N [lbf]"

FF/PF Oval FlatFoot Vacuum Cups Ordering Information

Imperial

- 1.50" x 3.00" CPI-153FF-(M)-(DR)
- 2.00" x 4.00" CPI-24FF-(M)-(DR)
- 2.50" x 5.00" CPI-255FF-(M)-(DR)
- 3.00" x 6.00" CPI-36FF-(M)-(DR)

(DR) = Durometer



(M) = Mounts Available



Metric

- 40 x 75mm CPI-40-75PF-(M)-(DR)
- 50 x 100mm CPI-50-100PF-(M)-(DR)
- 60 x 125mm CPI-60-125PF-(M)-(DR)
- 75 x 150mm CPI-75-150PF-(M)-(DR)

(DR) = Durometer



(M) = Mounts Available



VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

DD/DM Oval Deepdish

Specifications:

Temperature:

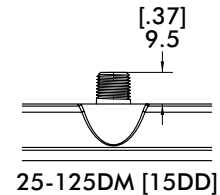
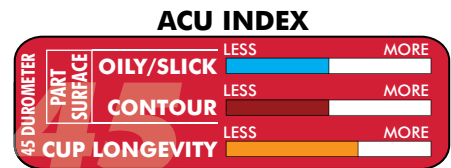
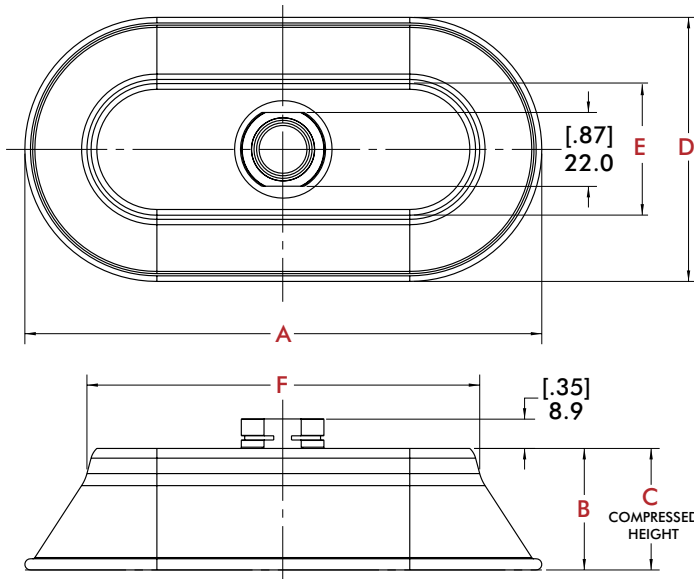
15-59 Sec: -20° to 250° F [-29° to 121° C]

1-5 min: 15° to 180° F [-9° to 82° C]

Material: Nitrile

Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



DD/DM Oval Deepdish

Model	A	B	C	D	E	F	Weight
25-125DM [15DD]	128.7 [5.06]	17.1 [.67]	8.7 [.34]	27.0 [1.06]	12.9 [.51]	114.5 [4.51]	35 g [1.2 oz]
75-150DM [36DD]	155.8 [6.13]	36.7 [1.44]	16.51 [.65]	79.6 [3.13]	39.7 [1.56]	118.4 [4.65]	201 g [7.1 oz]

Dimensions shown "mm [inch]"

DD/DM Vacuum Cup Capacities:

Appl.	Hor. Dry	Hor. Wet	Ver. Lift
25-125DM [15DD]	10.0 kg [22 lb]	3.2 kg [7 lb]	15.9 kg [35 lb]
75-150DM [36DD]	24.9 kg [55 lb]	10.4 kg [23 lb]	63.1 kg [139 lb]

Holding capacities shown "N [lbf]"

DD/DM Oval Deepdish Vacuum Cups Ordering Information

Imperial

1.00" x 5.00" CPI-15DD-(M)-(45)

3.00" x 6.00" CPI-36DD-(M)-(45)

Metric

25 x 125mm CPI-25-125DM-(M)-(45)

75 x 150mm CPI-75-150DM-(M)-(45)

(DR) = Durometer



(M) = Mounts Available



(DR) = Durometer



(M) = Mounts Available



HOT FORMING VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

MFF Round Flat



Specifications:

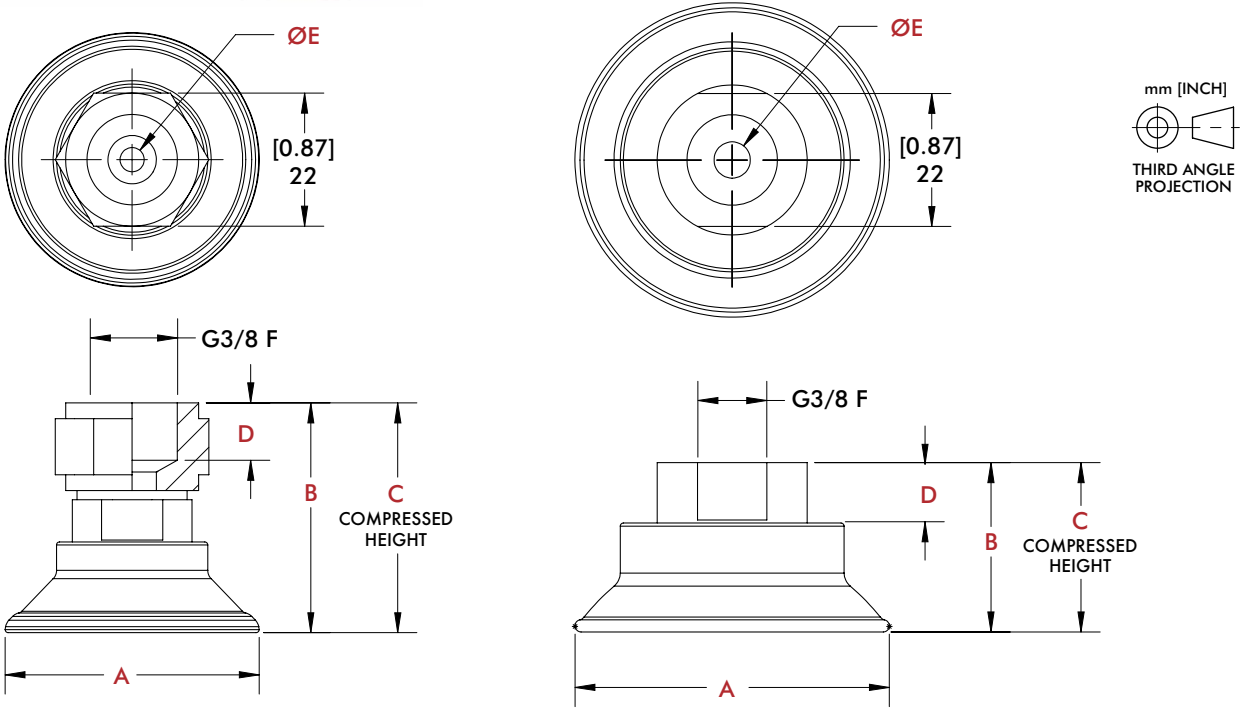
Temperature:

Resistant up to 250° C [482° F]
(sheet metal temperature)

Material: Silicone free HT2

Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



MFF Dimensions

Model	A	B	C	D	E	Weight
30MFF	[1.34]	[1.42]	[1.30]	[0.35]	[0.16]	[1.64 oz]
	34	36	33	9	4	46.5 g
40MFF	[1.81]	[1.50]	[1.34]	[0.35]	[0.16]	[1.77 oz]
	46	38	34	9	4	50.1 g
50MFF	[2.20]	[1.10]	[0.91]	[0.59]	[0.24]	[1.35 oz]
	56	28	23	15	6	38.2 g
60MFF	[2.64]	[1.22]	[0.98]	[0.59]	[0.24]	[0.95 oz]
	67	31	25	15	6	27 g

Dimensions shown "mm [inch]"

MFF Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
30MFF	[8.5]	[6.7]	[6.3]
	38	30	28
40MFF	[15.5]	[11.7]	[11.2]
	69	52	50
50MFF	[22.5]	[18.0]	[17.1]
	100	80	76
60MFF	[33.7]	[23.6]	[19.1]
	150	105	85

Holding capacities shown "N [lbf]"

MFF Round Flat Ordering Information

Metric

- Ø30mm CPI-30MFF-B-HT
- Ø40mm CPI-40MFF-B-HT
- Ø50mm CPI-50MFF-B-HT
- Ø60mm CPI-60MFF-B-HT

HOT FORMING VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

Specifications:

Temperature:

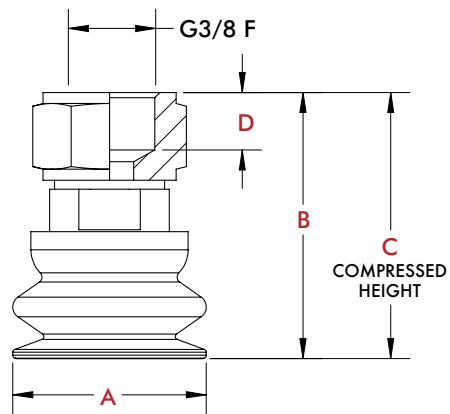
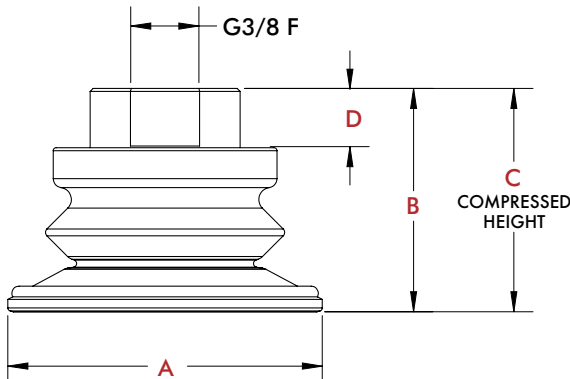
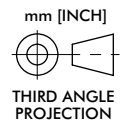
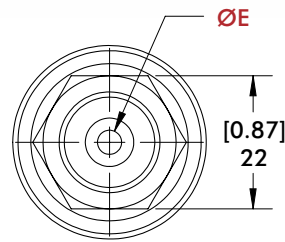
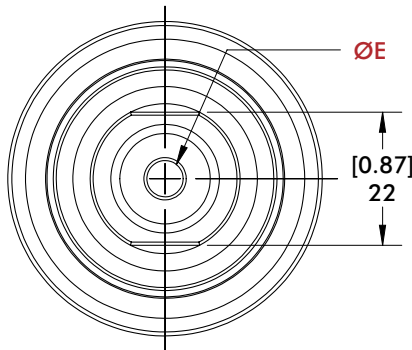
Resistant up to 250° C [482° F]
(sheet metal temperature)

Material: Silicone free HT2

Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol

MTC Round Bellows



MTC Dimensions

Model	A	B	C	D	E	Weight
22MTC	[0.87] 22	[1.61] 41	[1.39] 35.2	[0.35] 9.5	[0.14] 3.5	[1.54 oz] 43.6 g
30MTC	[1.34] 34	[1.73] 44	[1.38] 35	[0.35] 9	[0.16] 4	[1.74 oz] 49.3 g
40MTC	[1.77] 45	[1.73] 44	[1.34] 34	[0.35] 9	[0.16] 4	[1.79 oz] 50.8 g
50MTC	[2.20] 56	[1.46] 37	[1.00] 25.5	[0.59] 15	[0.24] 6	[1.40 oz] 39.6 g
60MTC	[2.64] 67	[1.63] 41.5	[1.06] 27	[0.59] 15	[0.24] 6	[1.83 oz] 51.8 g

Dimensions shown "mm [inch]"

MTC Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
22MTC	[3.6] 16	[4.0] 18	[1.3] 6
30MTC	[4.9] 22	[6.7] 30	[2.9] 13
40MTC	[8.5] 38	[8.1] 36	[7.4] 33
50MTC	[11.9] 53	[12.4] 55	[11.7] 52
60MTC	[18.4] 82	[18.4] 82	[17.3] 77

Holding capacities shown "N [lbf]"

MTC Round Bellows Ordering Information

Metric

- Ø22mm CPI-22MTC-B-HT
- Ø30mm CPI-30MTC-B-HT
- Ø40mm CPI-40MTC-B-HT
- Ø50mm CPI-50MTC-B-HT
- Ø60mm CPI-60MTC-B-HT

HOT FORMING VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

MFF Oval Flat



Specifications:

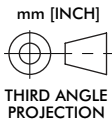
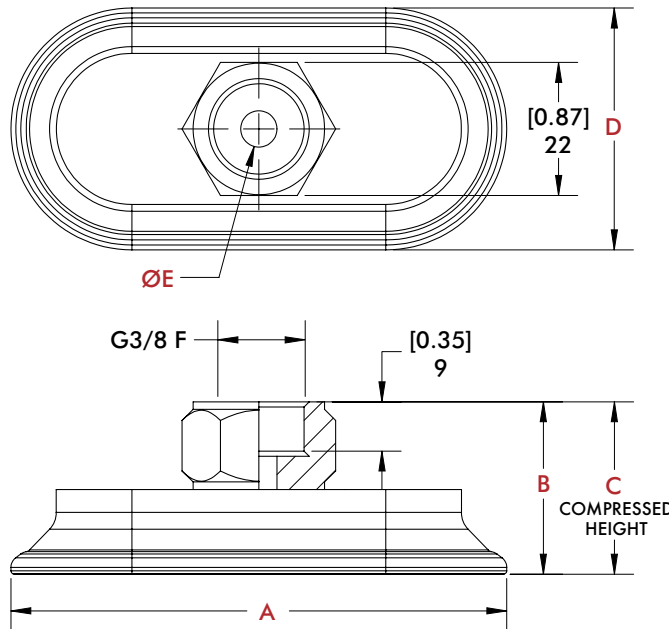
Temperature:

Resistant up to 250° C [482° F]
(sheet metal temperature)

Material: Silicone free HT2

Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



MFF Dimensions

Model	A	B	C	D	E	Weight
6023MFF	[2.52] 64	[1.02] 26	[0.91] 23	[0.98] 25	[0.24] 6	[1.57 oz] 44.6 g
9030MFF	[3.70] 94	[1.06] 27	[0.94] 24	[1.34] 34	[0.24] 6	[2.42 oz] 68.5 g
8040MFF	[3.35] 85	[1.10] 28	[0.94] 24	[1.69] 43	[0.24] 6	[2.30 oz] 65.1 g
10050MFF	[4.17] 106	[1.22] 31	[1.02] 26	[2.13] 54	[0.31] 8	[3.68 oz] 104.2 g

Dimensions shown "mm [inch]"

MFF Holding Capacity @ -0.6 bar vacuum

Appl.	Vert. Lift	Horz. Dry	Horz. Wet
6023MFF	[12.8] 57	[8.3] 37	[7.4] 33
9030MFF	[27.4] 122	[21.6] 96	[14.4] 64
8040MFF	[31.5] 140	[24.7] 110	[22.5] 100
10050MFF	[48.8] 217	[40.7] 181	[27.2] 121

Holding capacities shown "N [lbf]"

MFF Oval Flat Ordering Information

Metric

- Ø60x23mm CPI-6023MFF-B-HT
- Ø90x30mm CPI-9030MFF-B-HT
- Ø80x40mm CPI-8040MFF-B-HT
- Ø100x50mm CPI-10050MFF-B-HT

HOT FORMING VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

MAC Oval Bellows

Specifications:

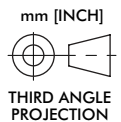
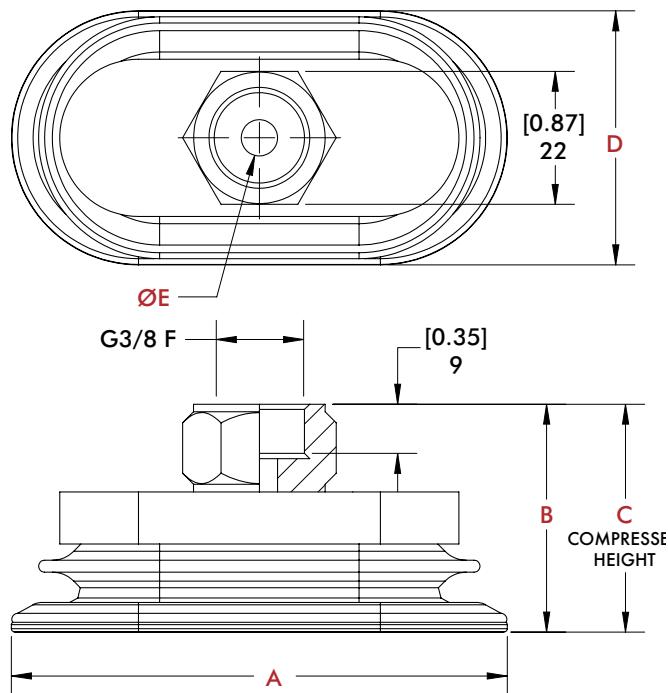
Temperature:

Resistant up to 250° C [482° F]
(sheet metal temperature)

Material: Silicone free HT2

Chemical Resistance:

Oil, water, grease, hydraulic fluid, alcohol



MAC Dimensions

Model	A	B	C	D	E	Weight
6030MAC	[2.48]	[1.38]	[1.10]	[1.30]	[0.24]	[2.32 oz]
	63	35	28	33	6	65.9 g
8040MAC	[3.27]	[1.48]	[1.13]	[1.69]	[0.24]	[2.78 oz]
	83	37.7	28.7	43	6	78.7 g

Dimensions shown "mm [inch]"

MAC Holding Capacity @ -0.6 bar vacuum

Model	Vert. Lift	Horz. Dry	Horz. Wet
6030MAC	[8.5]	[12.8]	[11.7]
	38	57	52
8040MAC	[14.6]	[22.5]	[21.3]
	65	100	95

Holding capacities shown "N [lbf]"

MAC Oval Bellows Ordering Information

Metric

Ø60x30mm CPI-6030MAC-B-HT

Ø80x40mm CPI-8040MAC-B-HT

MICRO SERIES VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

VC-F Round Flat



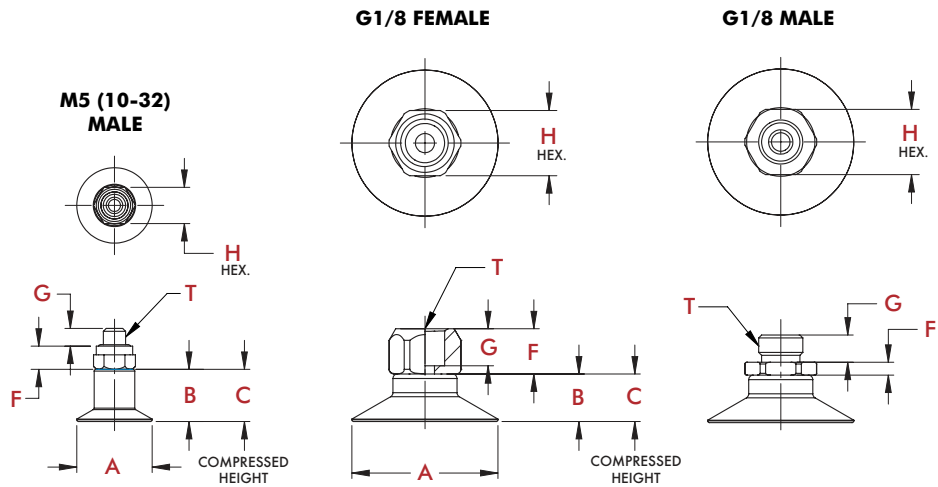
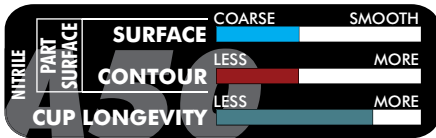
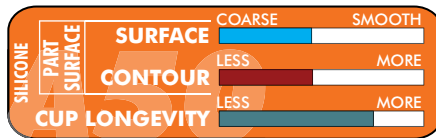
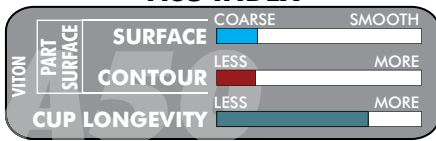
Applications:

- Relatively flat surfaces.
- Dry to moderate oily/slippery surfaces.
- Low Compression distances.
- Higher precision applications.

Specifications:

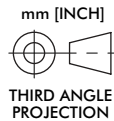
Material Operating Temperature:
Viton: -40° to 450° F
 [-40° to 232° C]
Silicone: -100° to 400° F
 [-73° to 204.4° C]
Nitrile: -40° to 275° F
 [-40° to 135° C]
Durometer: A50

ACU INDEX



(DR) = Durometer/Material

- V** Viton Hi-Temp Applications where silicon is not allowed
- S** Silicone Extremely hot or cold environments
- N** Nitrile General Purpose



VC-F Micro Fitting Threads

Thread (T)	(F)	(G)	(H)
10M (M5) (10-32 MALE)	5.1 [.20]	4.1 [.16]	7.9 [.31]
18M (G1/8) (MALE)	2.8 [.11]	5.8 [.23]	14.2 [.56]
18F (G1/8) (FEMALE)	9.9 [.39]	6.4 [.25]	14.2 [.56]

VC-F Dimensions

Model	A	B	C	CUP WT	LOAD
VC-F15	16.5 [.65]	11.4 [.45]	10.4 [.41]	3.4 g [.11 oz]	.85 kg [1.88 lb]
VC-F20	22.1 [.87]	8.6 [.34]	7.1 [.28]	7.8 g [.25 oz]	1.47 kg [3.25 lb]
VC-F30	32.0 [1.26]	10.4 [.41]	8.1 [.32]	6.2 g [.20 oz]	2.55 kg [5.63 lb]
VC-F40	42.2 [1.66]	14.0 [.55]	11.4 [.45]	11.8 g [.38 oz]	4.08 kg [9.00 lb]
VC-F50	53.1 [2.08]	17.5 [.69]	14.5 [.57]	19.6 g [.63 oz]	7.54 kg [16.6 lb]

VC-F Round Flag Ordering Information

- Ø15mm..... VC-F15(DR)-(M)
- Ø20mm..... VC-F20(DR)-(M)
- Ø30mm..... VC-F30(DR)-(M)
- Ø40mm..... VC-F40(DR)-(M)
- Ø50mm..... VC-F50(DR)-(M)

(DR) = Durometer/Material

(M) = Mounts Available

- V** **S** **N**

- 10M** **18M** **18F**

Not Available in
Ø15 and Ø20mm

Only Available in
Ø15 and Ø20mm

MICRO SERIES VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

VC-B Micro Series Round Bellows

Applications:

- Moderately flat surfaces.
- Best performance on dry surfaces.
- Moderate compression distance.
- Bellows allows for minor misalignments.

Specifications:

Material Operating Temperature:

Viton: -40° to 450° F

[-40° to 232° C]

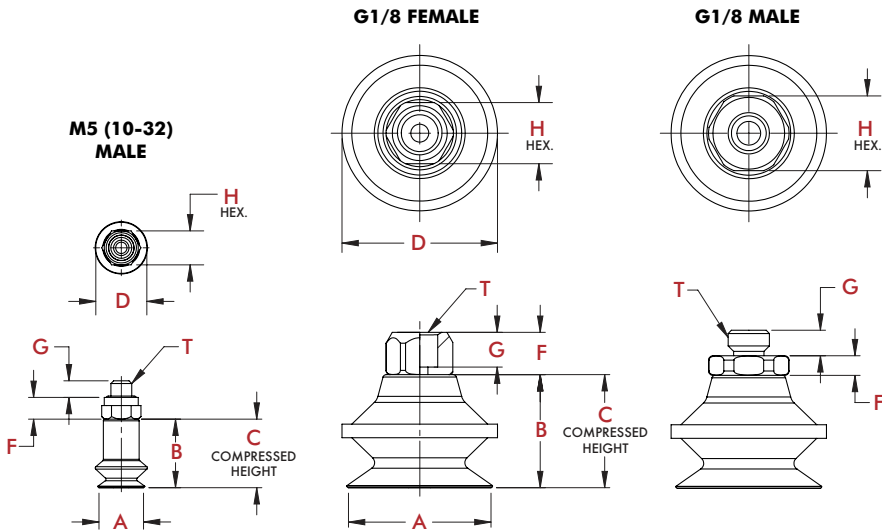
Silicone: -100° to 400° F

[-73° to 204.4° C]

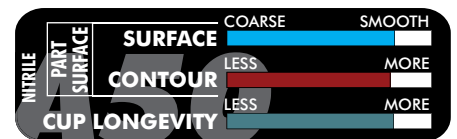
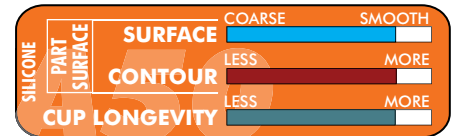
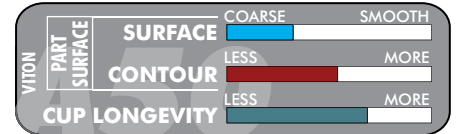
Nitrile: -40° to 275° F

[-40° to 135° C]

Durometer: A50



ACU INDEX



VC-B Micro Fitting Threads

Thread (T)	(F)	(G)	(H)
10M (M5) (10-32 MALE)	5.1 [.20]	4.1 [.16]	7.9 [.31]
18M (G1/8) (MALE)	2.8 [.11]	5.8 [.23]	14.2 [.56]
18F (G1/8) (FEMALE)	9.9 [.39]	6.4 [.25]	14.2 [.56]

(DR) = Durometer/Material

V Viton Hi-Temp Applications where silicon is not allowed

S Silicon Extremely hot or cold environments

N Nitrile General Purpose

VC-B Dimensions

Model	A	B	C	D	Cup Wt	Load
VC-B05	5.6 [.22]	9.1 [.36]	7.6 [.30]	6.1 [.24]	5.8 g [.09 oz]	.04 kg [.10 lb]
VC-B10	10.9 [.43]	16.0 [.63]	11.4 [.45]	12.2 [.48]	3.4 g [.11 oz]	.39 kg [.87 lb]
VC-B15	16.0 [.63]	19.8 [.78]	13.2 [.52]	17.5 [.69]	3.7 g [.12 oz]	.57 kg [1.25 lb]
VC-B20	22.4 [.88]	17.5 [.69]	7.6 [.30]	23.9 [.94]	6.2 g [.20 oz]	1.02 kg [2.25 lb]
VC-B30	34.0 [1.34]	26.4 [1.04]	11.4 [.45]	36.3 [1.43]	11.5 g [.37 oz]	2.21 kg [4.88 lb]
VC-B40	42.9 [1.69]	27.4 [1.08]	12.4 [.49]	46.2 [1.82]	18.7 g [.60 oz]	3.97 kg [8.75 lb]
VC-B50	52.8 [2.08]	34.5 [1.36]	14.5 [.57]	59.4 [2.34]	30.5 g [.98 oz]	6.63 kg [14.6 lb]

VC-B Micro Series Round Multi-Bellows Ordering Information

- Ø05mm..... VC-B05(DR)-(M)
- Ø10mm..... VC-B10(DR)-(M)
- Ø15mm..... VC-B15(DR)-(M)
- Ø20mm..... VC-B20(DR)-(M)
- Ø30mm..... VC-B30(DR)-(M)
- Ø40mm..... VC-B40(DR)-(M)
- Ø50mm..... VC-B50(DR)-(M)

(DR) = Durometer/Material

(M) = Mounts Available

V **S** **N**

10M **18M** **18F**

Only Available in Ø5, Ø10, Ø15, Ø20mm

MICRO SERIES VACUUM CUPS

Vacuum Products | Dimensions | Ordering Information

VC-BM Micro Series Round Multi-Bellows



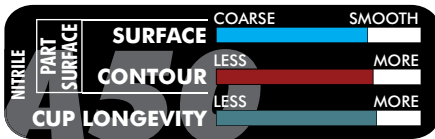
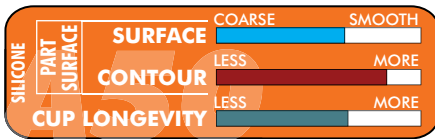
Applications:

- Angled/curved/bumpy surfaces.
- Best performance on dry surfaces.
- Higher compression distance. (Reach in Box)
- Bellows allow for minor
- Provides Partial extraction.

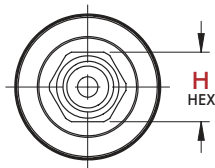
Specifications:

Material Operating Temperature:
Viton: -40° to 450° F
 [-40° to 232° C]
Silicone: -100° to 400° F
 [-73° to 204.4° C]
Nitrile: -40° to 275° F
 [-40° to 135° C]
Durometer: A50

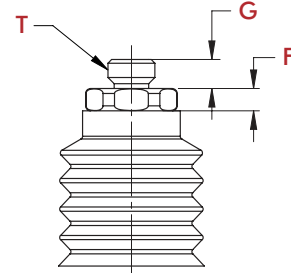
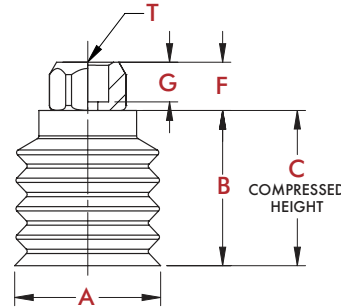
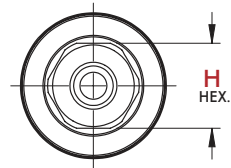
ACU INDEX



G1/8 FEMALE



G1/8 MALE



(DR) = Durometer/Material

S **Silicon** Extremely hot or cold environments

N **Nitrile** General Purpose

VC-BM Micro Fitting Threads

Thread (T)	(F)	(G)	(H)
10M (M5) (10-32 MALE)	5.1 [.20]	4.1 [.16]	7.9 [.31]
18M (G1/8) (MALE)	2.8 [.11]	5.8 [.23]	14.2 [.56]
18F (G1/8) (FEMALE)	9.9 [.39]	6.4 [.25]	14.2 [.56]

VC-BM Dimensions

Model	A	B	C	Cup Wt	Load
VC-BM20	20.1 [.79]	21.9 [.86]	8.9 [.35]	5.3 g [17 oz]	.68 kg [1.50 lb]
VC-BM30	30.0 [1.18]	30.7 [1.21]	10.7 [.42]	10.3 g [.33 oz]	1.64 kg [3.63 lb]
VC-BM40	39.8 [1.57]	40.9 [1.61]	12.9 [.51]	19.6 g [.63 oz]	2.21 kg [4.88 lb]
VC-BM50	50.0 [1.97]	51.1 [2.01]	23.1 [.91]	32.7 g [1.05 oz]	4.37 kg [9.63 lb]

VC-BM Micro Series Round Multi-Bellows Ordering Information

- Ø20mm..... VC-BM20(DR)-(M)
- Ø30mm..... VC-BM30(DR)-(M)
- Ø40mm..... VC-BM40(DR)-(M)
- Ø50mm..... VC-BM50(DR)-(M)

(DR) = Durometer/Material

(M) = Mounts Available



Only Available in Ø20mm

TPLP Mag-Lift Part Lifting Magnets

Features:

- Provides instantaneous pick up and release without electricity.
- Maintains positive hold, even if air pressure is lost.
- Supplied with urethane pad which softens the impact of the magnet and avoids marring or damage to delicate surfaces.

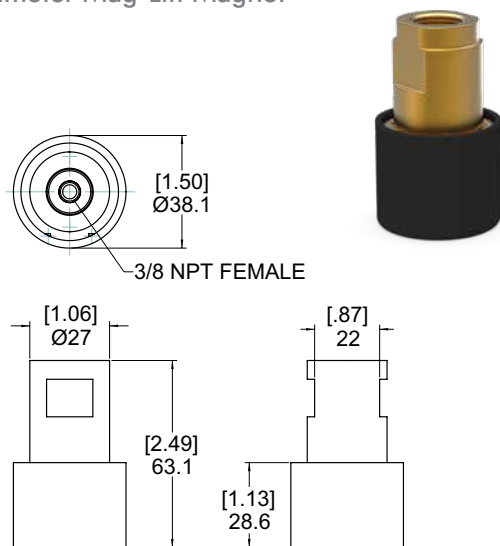
Benefits:

- NPT mount allows retrofit to existing assemblies.

Specifications:

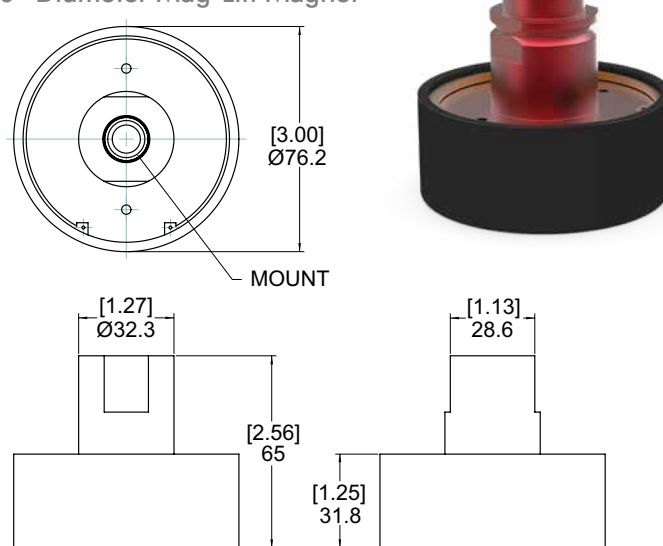
Recommended Operating Pressure:
2.4 bar [35 psi]
Port: 3/8" NPT Compressed Air Port
Material: Machined, Anodized Aluminum, Urethane Pad (50 durometer - low skid)

1.50" Diameter Mag-Lift Magnet



Model	Pad Only
CPI-TPLP15RB	RB15-CPI

3.00" Diameter Mag-Lift Magnet



Mount	Model	Pad Only
3/8 NPT G3/8	CPI-TPLP50373 CPI-TPLP30BS	RB30-CPI

Note: The minimum air pressure required for the Mag-Lift to release parts is 25 psi. The suggested air pressure for normal operation is 35 psi. If part do not release immediately, increase the air pressure in 5 psi increments until the part releases. Do not exceed 60 psi. Air pressure should be measured at the inlet of the Mag-Lift to ensure effective operation.

TPLP 1.50" Diameter Mag-Lift Magnet - CPI-TPLP15RB - Capacities

Gage Of Steel (Ferrous Only)	26 GA (0.018")	22 GA (0.030")	16 GA (0.050")	12 GA (0.100")	3/16" (0.187")	Weight
With Pad	3.18 kg [7.0 lb]	4.08 kg [9.0 lb]	4.54 kg [10.0 lb]	4.54 kg [10.0 lb]	4.54 kg [10.0 lb]	136g [5 oz]
Without Pad	4.54 kg [10.0 lb]	6.35 kg [14.0 lb]	7.26 kg [16.0 lb]	[7.71 kg] 17.0 lb	7.71 kg [17.0 lb]	136g [5 oz]

TPLP 3.00" Diameter Mag-Lift Magnet - CPI-TPLP50373 - Capacities

Gage Of Steel (Ferrous Only)	26 GA (0.018")	22 GA (0.030")	16 GA (0.050")	12 GA (0.100")	3/16" (0.187")	Weight
With Pad	8.62 kg [19.0 lb]	13.61 kg [30.0 lb]	19.96 kg [44.0 lb]	19.96 kg [44.0 lb]	20.87 kg [46.0 lb]	363g [13 oz]
Without Pad	9.53 kg [21.0 lb]	14.97 kg [33.0 lb]	26.76 kg [59.0 lb]	27.22 kg [60.0 lb]	29.03 kg [64.0 lb]	363g [13 oz]

Note: Capacity values are stated at approximately 30% of the maximum holding value. Use this value for determining the quantity of Mag-Lift magnets required for an application.

ECOCUP SERIES

Vacuum Products | Product Overview | Technical Specifications | Dimensions

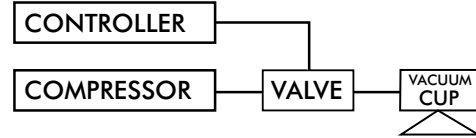
EcoCup™ creates vacuum without AIR!

Great for pick-and-place applications of flat, rigid, non-porous parts including: plastic, glass, solar panels, and electronics, as well as other consumer goods with smooth, flat surfaces.

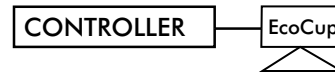
The EcoCup™ features:

- Light-switch operation
- Ultra-fast actuation
- Noise-free operation
- Easy installation and setup
- Reduced maintenance costs
- Easy optional mounting to Scara robots
- Eliminated risk of air-borne contaminants

The **OLD** way
with a Typical Pneumatic Setup



The **NEW** way
Using the new EcoCup™

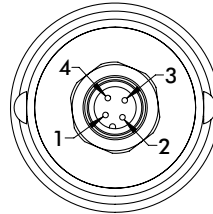


**No fittings,
no valves, no hoses,
no compressor, and
absolutely no AIR!**

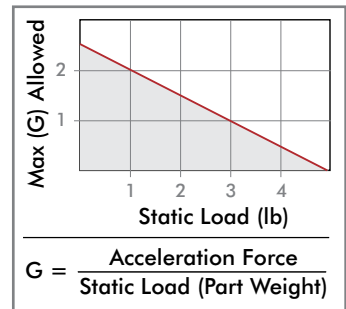
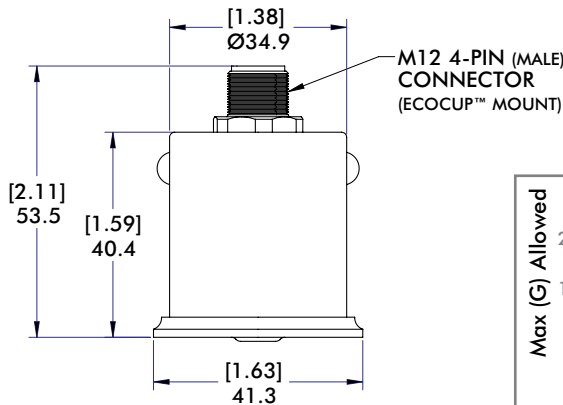
EcoCup™ EC40 Electric Vacuum Cup Assembly



US Patent #9108319



M12 4-PIN (MALE)
CONNECTOR FACE VIEW
1: NOT USED
2: NOT USED
3: -0 VDC
4: +24 VDC



Specifications	VC-EC40-45N
Actuation Time	25 ms
Temperature Range	5° ~ 60°C [41° ~ 140°F]
Duty Cycle	50% (½ On, ½ Off)
Voltage	24 VDC
Current	0.5 Amp
Weight	0.12 kg [0.25 lb]
Cup Material	45 Durometer Nitrile

EcoCup™ EC40 Electric Vacuum Cup - Operation

Holding Capacity	VC-EC40-45N
Recommended Load	<0.45kg [1.0 lb]

Loads from 0.45kg [1.0 lb] up to 1.81kg [4.0 lb] max. may be used with longer movement times. (See chart in drawing area for greater detail).

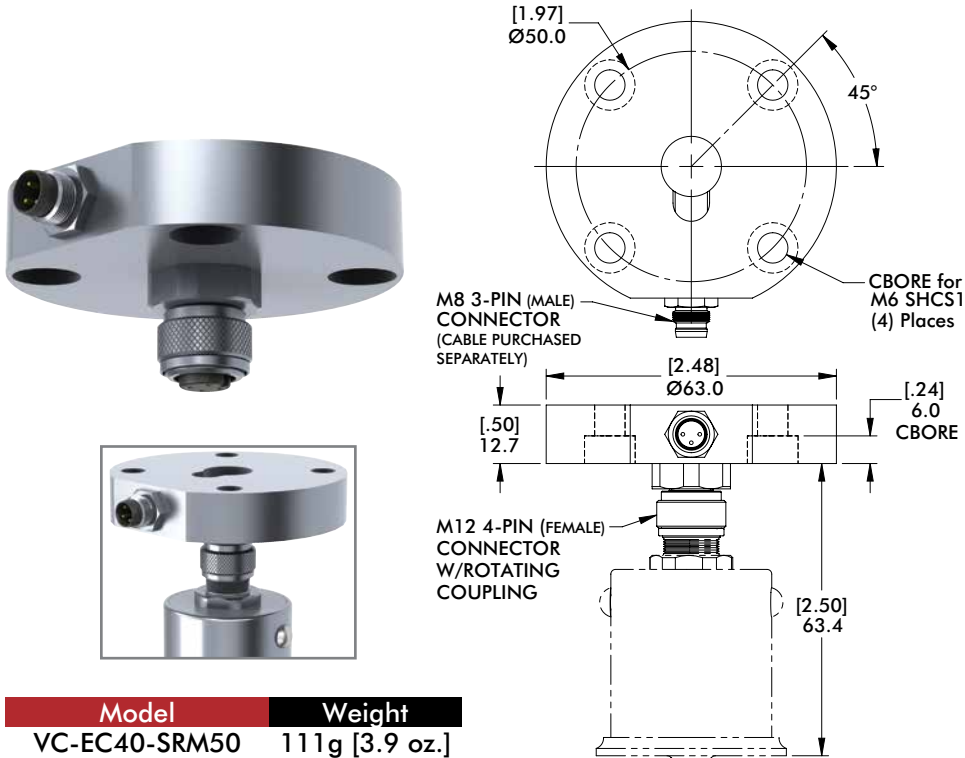
Operating Instructions:

1. Set cup on smooth, flat surface of part.
2. Apply 24VDC to Pins 3 and 4 on M12 connector. (Center of cup lifts, creating vacuum)
3. Release voltage and part is released.

ECOcup SERIES

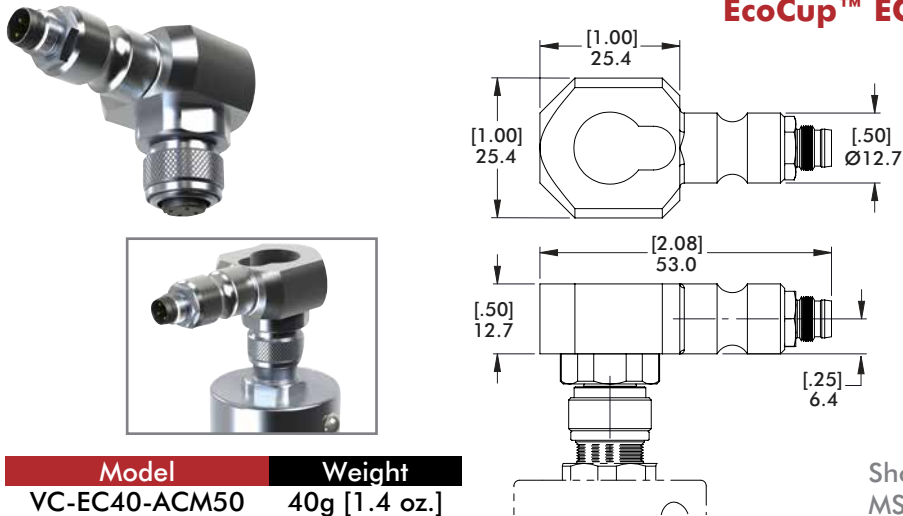
Vacuum Products | Dimensions | Technical Specifications

EcoCup™ EC40 Electric Vacuum Cup Assembly



Model	Weight
VC-EC40-SRM50	111g [3.9 oz.]

EcoCup™ EC40 Optional Apple Core Mounting



Model	Weight
VC-EC40-ACM50	40g [1.4 oz.]

Shown with DESTACO MSA Series Swivel Arm

EcoCup™ EC40 M12 4-Pin Connector with Rotating Coupling (Contact DESTACO for Custom Solutions)



Model	Weight
Turck #FKM 4.4-0.5	14g [0.5 oz.]

Shown with custom plate for array mounting



ARV AND VSA SERIES VENTURIES

Vacuum Products | Features and Specifications

ARV® Series Auto-Release Venturi Cup Mount

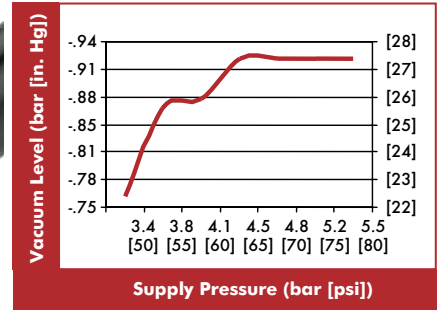
Requiring (1) air line, (1) valve:

Offers integrated automatic quick panel release and exhaust silencer in one part. Mounting options include right or left hand apple core mounting or no apple core mount for use with DESTACO's spring cup mounts.

The ARV® Series is also available in a block style for remote mounting and each mount can be ordered with Imperial or Metric ports.



ARV® Performance:



Specifications @ 4 bar [60psi]:

Speed to Vacuum: 0.2-0.3 seconds

Speed to Release: 0.02 seconds

Air Consumption:

Vacuum: 40 l/m [1.4 scfm]

Blow-off: 0

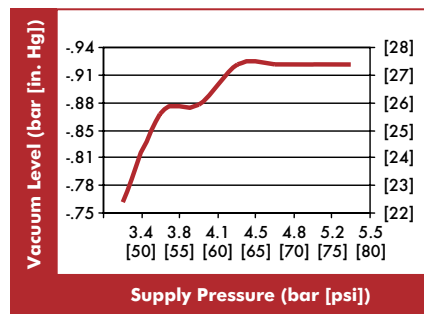
Noise Level (at one meter): 68dBA

Material: Aluminum

VSA Series Venturi Cup Mount



VSA Performance:



Specifications @ 4 bar [60psi]:

Speed to Vacuum: .36 seconds

Speed to Release: 0.08 seconds

Air Consumption:

Vacuum: 40 l/m [1.4 scfm]

Blow-off: 2.6 liters [0.09 ft³]

(156 l/m [5.5scfm] @ 1 sec. duration)

Noise Level (At one meter):

Inline to exhaust: 76dBA

Inline to exhaust with Silencer: 68dBA

Material: Aluminum

Blow-off typically requires two air lines and multiple valves. The VSA series offers a low-profile version as shown. Additional options include silencer and sensor port options. Mounting threads can also be ordered in Imperial or Metric ports.

We also offers PA Series cup mounts.

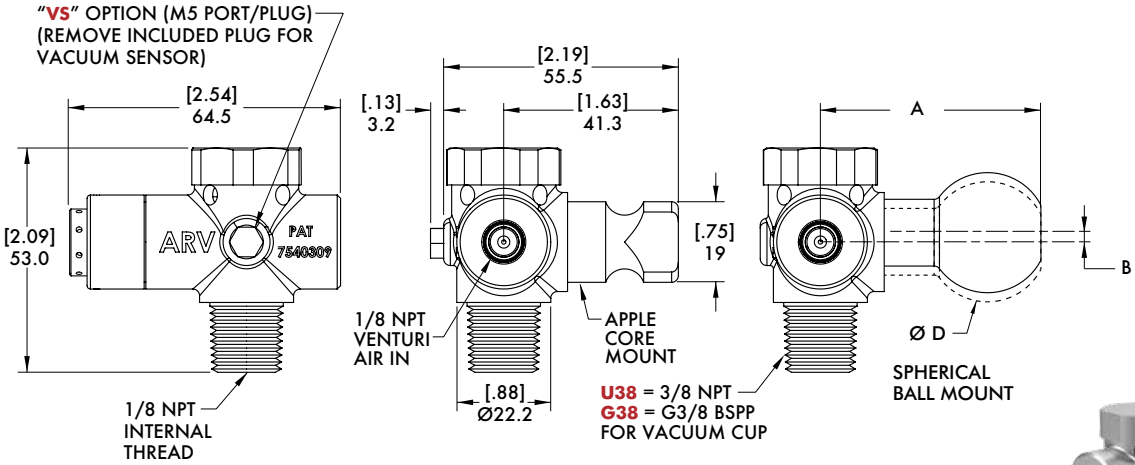
ARV SERIES VENTURIES

Vacuum Products | Dimensions | Ordering Information



Left Hand Apple Core CPI-VSA-ARVL-750-(X) 114g [0.25lb]
Right Hand Apple Core CPI-VSA-ARVR-750-(X) 114g [0.25lb]
Without Apple Core CPI-VSA-ARV-000-(X) 86g [0.19lb]
RH/LH Spherical Ball CPI-VSA-ARV(R/L)-B112-(X) 126g [0.28lb]
 CPI-VSA-ARV(R/L)-B32-(X) 134g [0.30lb]

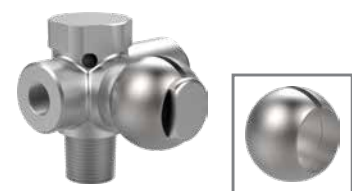
(X)
Mounting Thread
U38 = 3/8" NPT Male
G38 = 3/8" G Male



Vacuum Sensor Option
 Add "-VS" to end of "ARV" order code

US Patents #7,540,309 - 7,681,603 - 7,950,422

Model Number	A	B	ØD	Weight
CPI-VSA-ARV(R/L)-B112-(X)	[1.85] 47.1	0	[1.13] 28.5	[0.28 lb] 126g
CPI-VSA-ARV(R/L)-B32-(X)	[1.93] 49	[0.12] 3.2	[1.26] 32	[0.30 lb] 134g



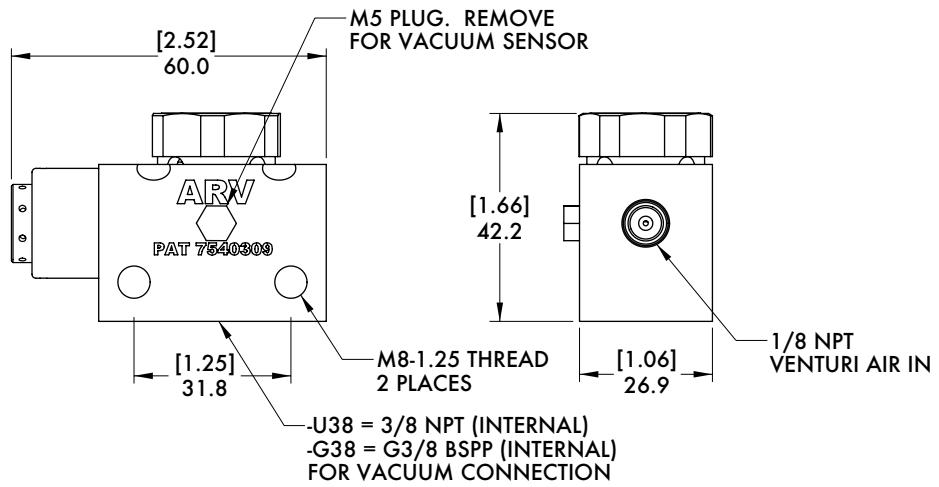
B112-01
 28.58mm ball only
B112-32-01
 32mm ball only

Venturi Style Vacuum Generator Cup Mounts ARV® Block Style Dimensions and Ordering Information



Block Style
CPI-VSA-ARVR-312-(X)
(X) = Vacuum Port Thread
U38 = 3/8" NPT Female
G38 = 3/8" G Female

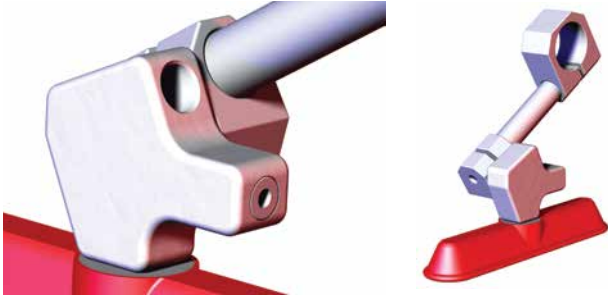
Weight
 104g [0.23lb]



MICRO TOOLING VENTURI

Vacuum Products | Dimensions | Technical Specifications

VSA 500 Series MicroTool Apple Core

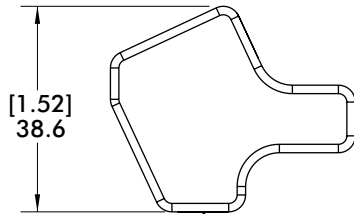
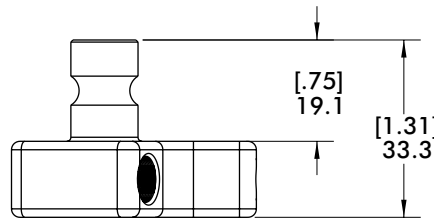


Features:

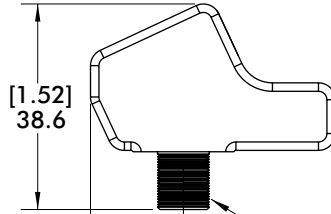
- MicroTool sized venturi.
- 1/8 NPT, 1/8 G Ports.

Benefits:

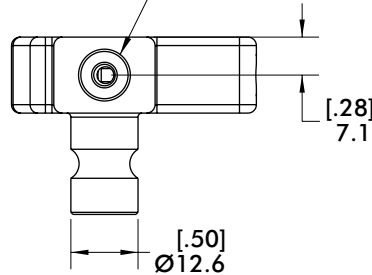
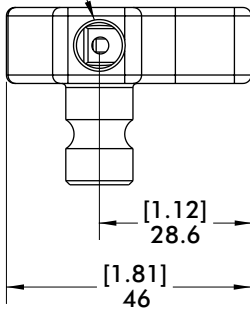
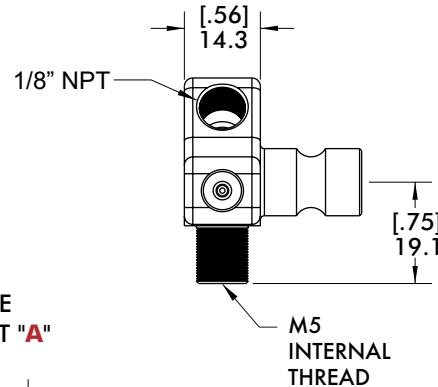
- Small and lightweight.
- Convenient mounts for most small vacuum cups.



FEMALE PORT "A"





MALE PORT "A"



Weight
57g [2 oz.]

500 Series Venturi MicroTool - CPI-VSA-500-"A"

Description	Port A
 Female 1/8" NPT to Female 1/8" NPT	F18
 Female 1/8" NPT to Male 1/8" NPT	M18

US Patents # 7,540,309 - 7,681,603 - 7,950,422

VSA SERIES VENTURIES

Vacuum Products | Dimensions | Technical Specifications

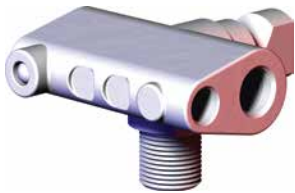
VSA Low-Profile 750/19 Series Apple-Core with Blow-Off

Features:

- Low profile construction.
- Integrated blow-off.
- Optional vacuum sensing port.
- Optional exhaust silencer.
- Imperial or Metric ports.

Benefits:

- Lower tool profile to fit in smaller spaces.
- Quick release of panels.
- Vacuum level or part present sensing.
- Quiet operation.



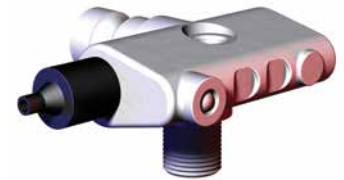
Low-Profile 750/19 w/
Blow Off No Options
CPI-VSA-(X)-BO-LP



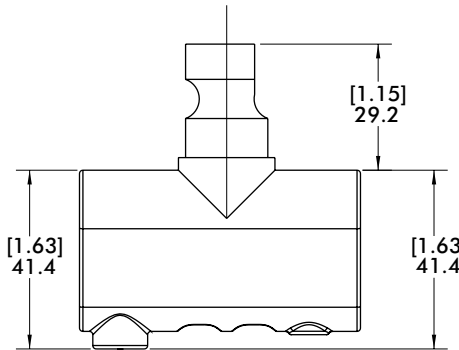
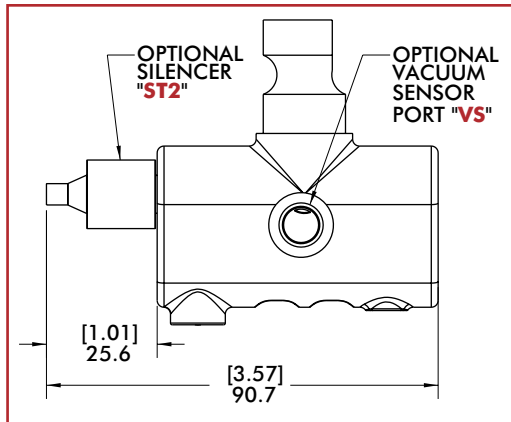
Low-Profile 750/19 with
Blow Off with Detector Option
CPI-VSA-(X)-BO-LP-DET



Low-Profile 750/19 with
Blow Off with "VS" Option
CPI-VSA-(X)-BO-LP-VS



For Silencer Option;
add "ST2" to the end
of order code (as shown).
CPI-VSA-(X)-BO-LP-VS-ST2



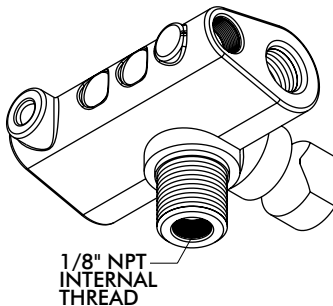
VS/DET Thread

DET = M5

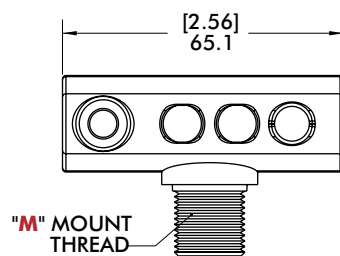
VS = 1/8 NPT

Weight

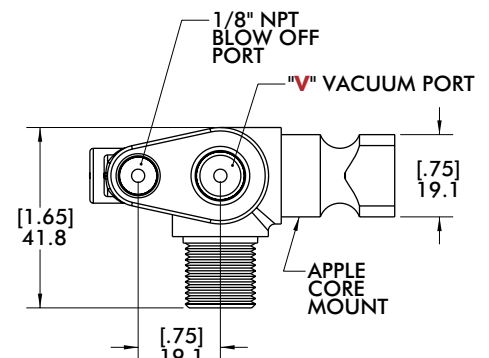
170g [6 oz.]



1/8" NPT
INTERNAL
THREAD



"M" MOUNT
THREAD



Low Profile 750/19 Series w/blow-off - CPI-VSA-(X)-BO-LP

Version	Mount Thread "M"	Vacuum Port "V"	(X)
Metric	3/8" G Male	1/4" G	19
Imperial	3/8" NPT Male	1/4" NPT	750

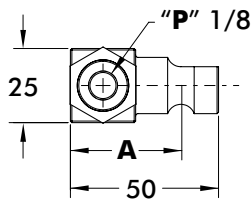
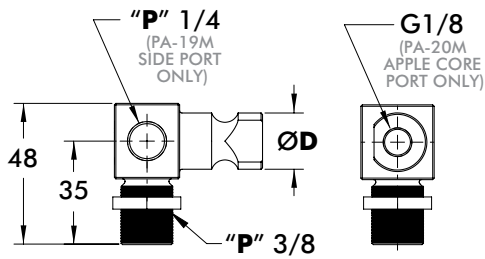
ACCELERATE® PORT ONLY ADAPTORS

Vacuum Products | Dimensions | Technical Specifications



PA Series

Apple Core Mount



PA-19M



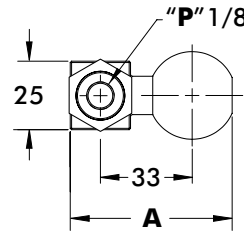
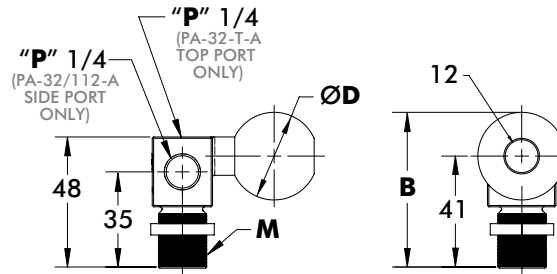
PA-20M

Material: Aluminum
Load: 150Nm

Weight includes locking nut* and plug (not shown)
*Except U38 models

Model Number	A	ØD	P	Weight
PA-19M-G38-A	[1.46] 37	[0.75] 19	G	[0.17 lb] 77g
PA-19M-U38-A			NPT	[0.15 lb] 68g
PA-20M-G38-AC-A	[1.34] 34	[0.79] 20	G	[0.16 lb] 71g

Ball Mount



PA-B32-G38-T-A

Material: Aluminum
Load: 150Nm

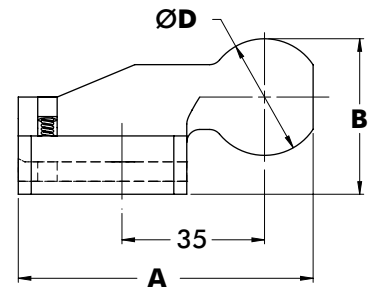
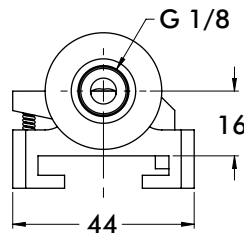
Weight includes locking nut* and plug (not shown) *Except U38 models

Model Number	A	B	ØD	M	P	Weight
PA-B32-G38-A				G3/8	G	[0.23 lb] 103g
PA-B32-G38-T-A	[2.32] 59	[2.24] 57	[1.26] 32		G	[0.21 lb] 96g
PA-B32-U38-A				3/8 NPT	NPT	[0.21 lb] 94g
PA-B32-G14-A				G1/4	G	[0.21 lb] 95g
PA-B112-G38-A	[2.24] 57	[2.17] 55	[1.12] 28	G3/8	G	[0.20 lb] 89g
PA-B112-U38-A				3/8 NPT	NPT	[0.18 lb] 80g

PA 28mm - 32mm Ball for C-Mount



Material: Aluminum
Load: 150Nm

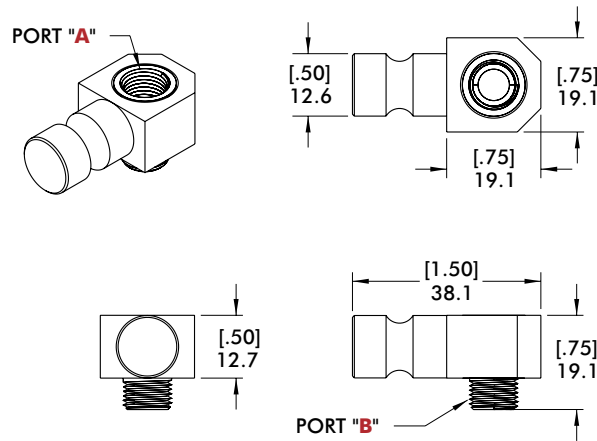


Model Number	A	B	ØD	Weight
CPI-PA-B112-CM	[2.84] 72.1	[1.50] 38.1	[1.13] 28.5	[0.23 lb] 106g
CPI-PA-B32-CM	[2.98] 75.7	[1.69] 42.9	[1.26] 32	[0.27 lb] 122g

MICRO TOOLING PORT ONLY ADAPTER

Vacuum Products | Dimensions | Technical Specifications

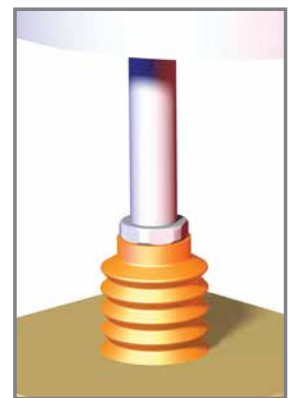
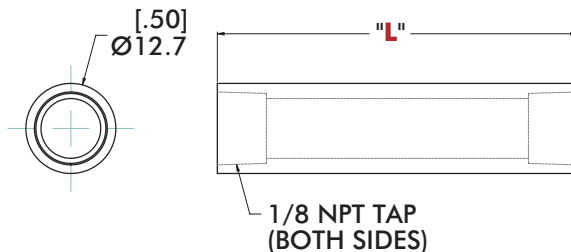
PA 500 Series



CPI-PA-500-"A"- "B" Ordering Information

Description		A	B	Weight
	Female 1/8" NPT/Female 1/8" NPT	F18	F18	23g [0.8 oz.]
	Female 1/8" G/Female 1/8" G	FG18	FG18	
	Female M5/Female M5	FM5	FM5	
	Female 1/8" NPT/Male 1/8" NPT	F18	M18	
	Female 1/8" G/Male 1/8" G	FG18	MG18	
	Female M5/Male M5	FM5	MM5	

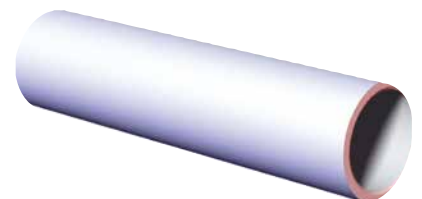
PAT 1/8 NPT Vacuum Extension



"L"

Standard Lengths

- 02** = 2.00"
- 03** = 3.00"
- 04** = 4.00"
- 05** = 5.00"
- 06** = 6.00"

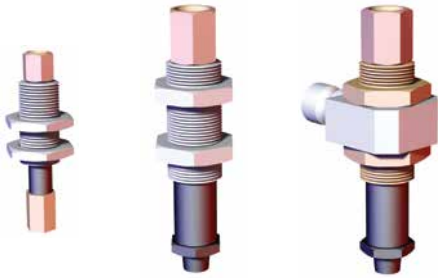


Model Number	Weight
CPI-PAT-50T-"L"-U18	[0.13 lb/ft] 193.0 g/m

SPRING-LOADED CUP MOUNTS

Vacuum Products | Dimensions | Technical Specifications

LC Bulk Head Style Micro Series Level Compensators



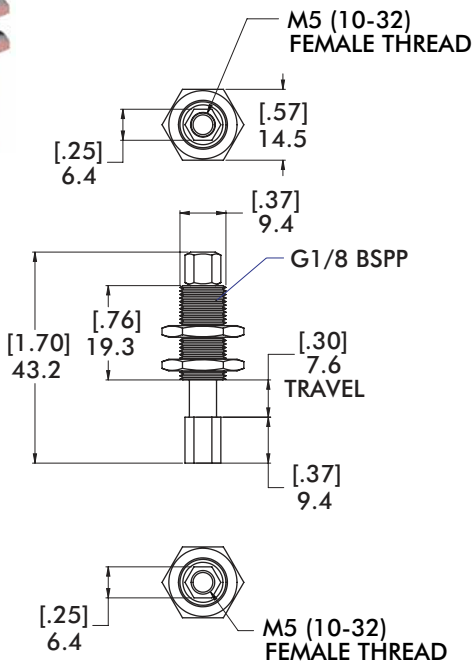
Specifications:
Material: Aluminum

Features:

- M5 or G mounting threads and vacuum ports.



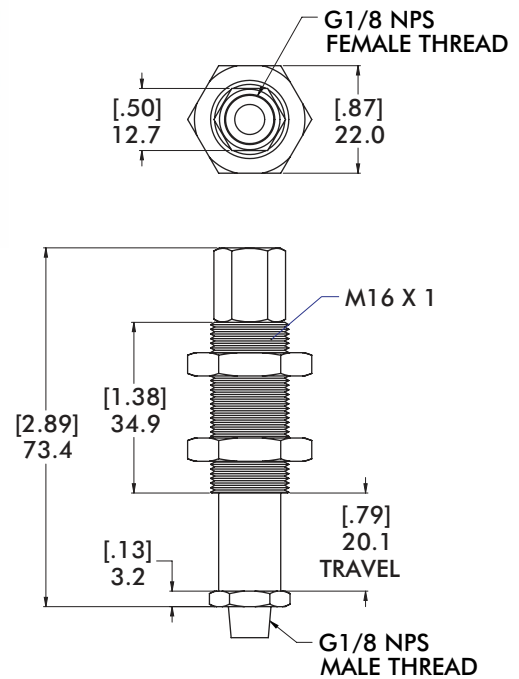
0.30" TRAVEL
ORDERING INFORMATION
CPI-LC10



Weight
5.7 g [0.2 oz.]



0.75" TRAVEL
ORDERING INFORMATION
CPI-LC18



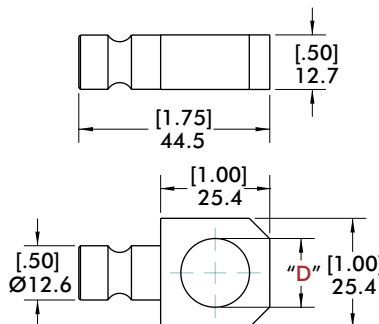
Weight
28.3 g [1.0 oz.]

LCM Series Mount



CPI-LCM-10-"D"

Weight
23 g [0.8 oz.]



"D" = (Ø) Diameter
16 = Ø16mm [.63"]
10 = Ø10mm [.39"]

SPRING-LOADED CUP MOUNTS

Vacuum Products | Dimensions | Technical Specifications

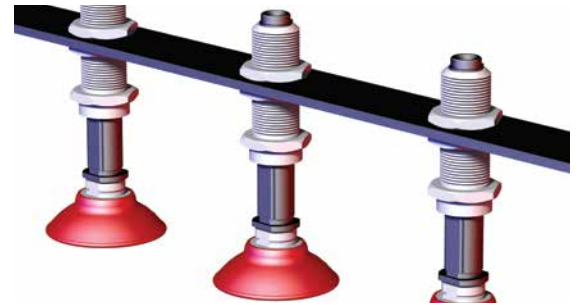
Features:

- Available in three different travel lengths.
- NPT or G mounting threads and vacuum ports.

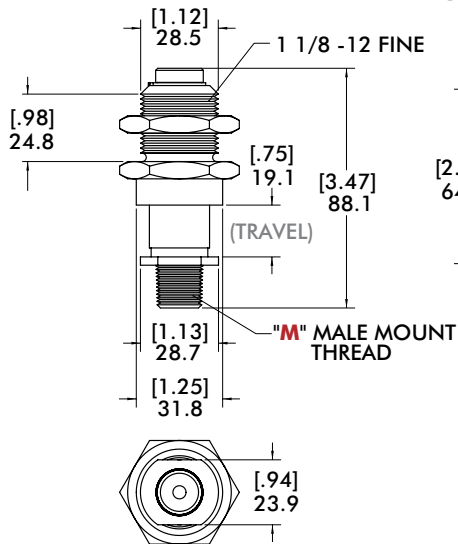
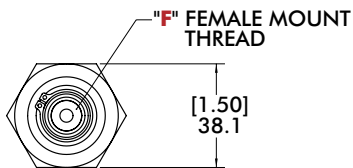
Specifications:

Material: Aluminum

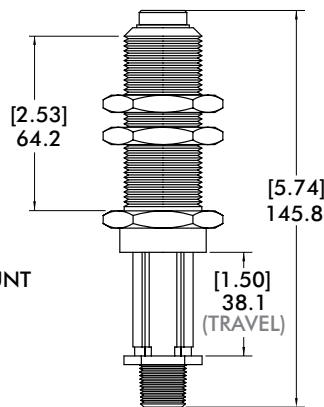
RCM Bulkhead Style Standard Travel



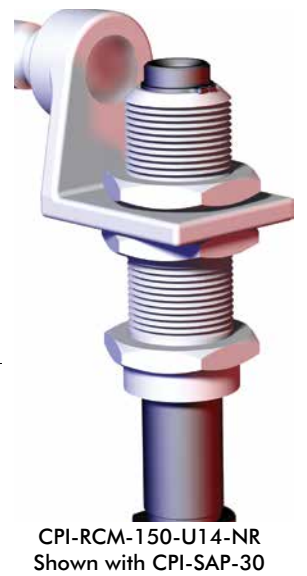
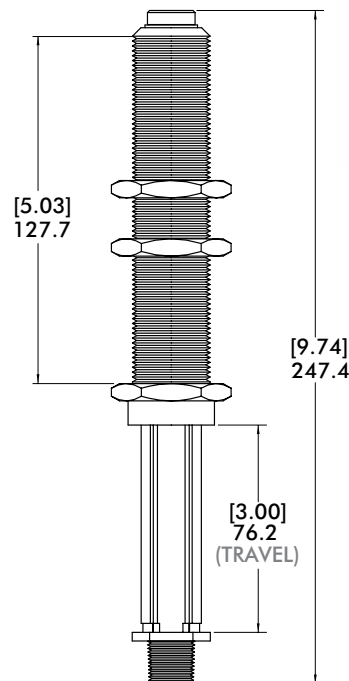
0.75" TRAVEL ORDERING INFORMATION CPI-RCM-30



1.50" TRAVEL ORDERING INFORMATION CPI-RCM-150-U14-NR



3.00" TRAVEL ORDERING INFORMATION CPI-RCM-300-U14-NR



Bulkhead Mount - CPI-RCM-XXX

Version	Mount Thread M	Vacuum Port F
Imperial	3/8" NPT Male	1/4" NPT

Weight
.75" Travel = 142g [5 oz]
1.50" Travel = 227g [8 oz]
3.00" Travel = 340g [12 oz]

SPRING-LOADED CUP MOUNTS

Vacuum Products | Dimensions | Technical Specifications | Ordering Information

SCM Apple-Core Style

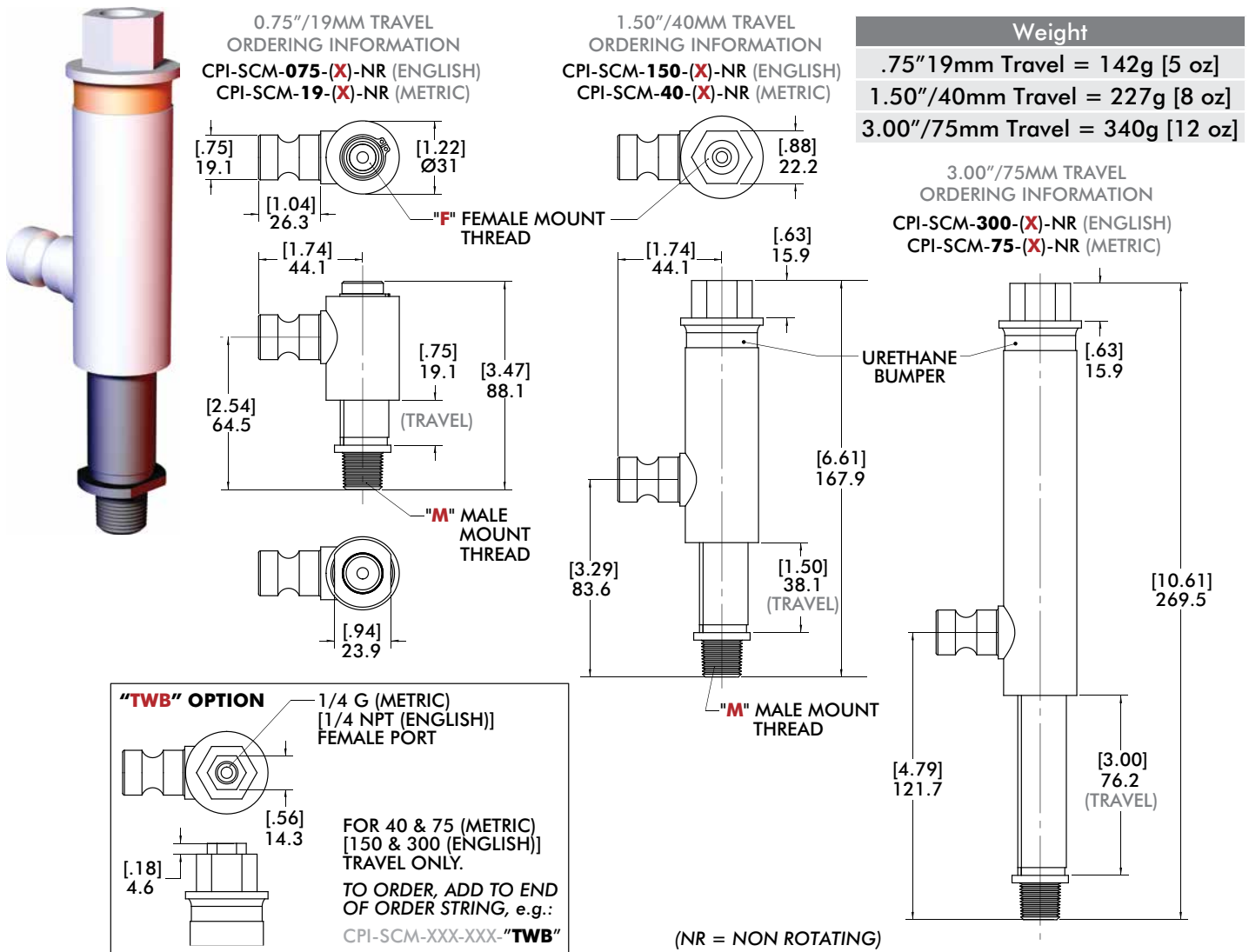


Specifications:

Material: Aluminum used on 1.50"/40mm and 3.00"/75mm travel.

Features:

- Available in three different travel lengths.
- Apple core .75" [19mm] mounting for adjustment along on axis.
- NPT or G mounting threads and vacuum ports.



CPI-SCM-(19/075)-(X)-NR Ports

Version	M	F	(X)
Metric	3/8" G	1/4" G	G14
Imperial	3/8" NPT	1/4" NPT	U14

CPI-SCM-(40/150 & 75/300)-(X)-NR Ports

Version	M	F	(X)
Metric	3/8" G	3/8" G	G14
Imperial	3/8" NPT	3/8" NPT	U14

SPRING-LOADED CUP MOUNTS

Vacuum Products | Features and Options

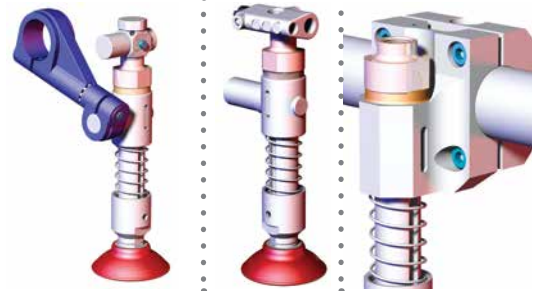
Features:

- Four mounting options.
- Three travel lengths.
- NPT or G mounting threads and vacuum ports.
- Urethane shock absorber.
- Teflon coated shaft.
- Fully modular construction.

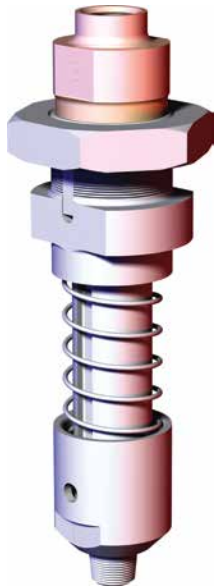
Benefits:

- Urethane shock absorber reduces "pick-up" shock.
- Extensive use of polymers reduce weight and cost.
- Extended travel cup mounts can be reconfigured or rebuilt.
- Smooth operation, reduced wear.

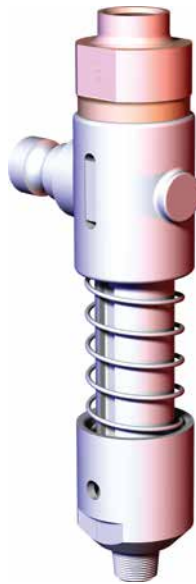
TCL T-Clamp Ø1.00" (in)



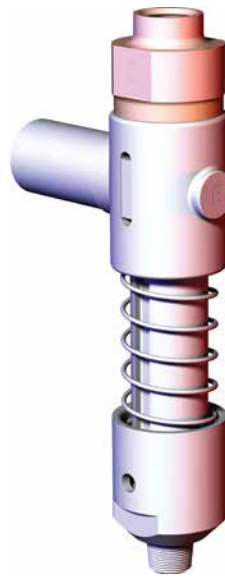
Ø1.25" Bulkhead Style
CPI-SCM(B)-"T"



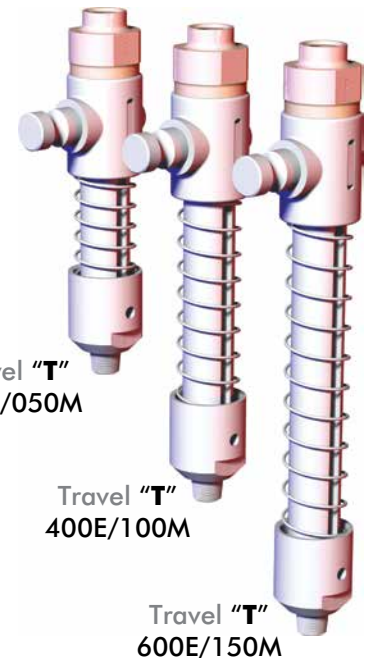
Ø0.75" Apple Core Style
CPI-SCM(A)-"T"



Ø1.00"/25MM
Extension Style
CPI-SCM(10/25)-"T"



Travel Length CPI-SCM(X)-"T"

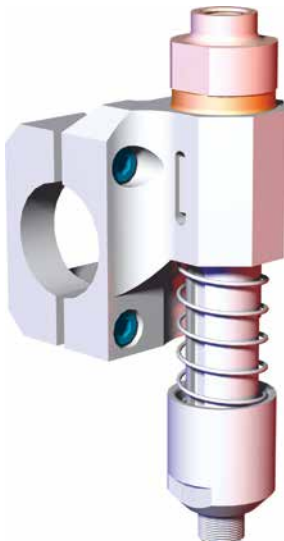


Travel "T"
200E/050M

Travel "T"
400E/100M

Travel "T"
600E/150M

Ø1.50"/40MM
Tube Mount
CPI-SCM(C)-"D"- "T"- "O"



Ø1.50"/40MM
Single Strap Tube Mount
CPI-SCM(S)-"D"- "T"- "O"



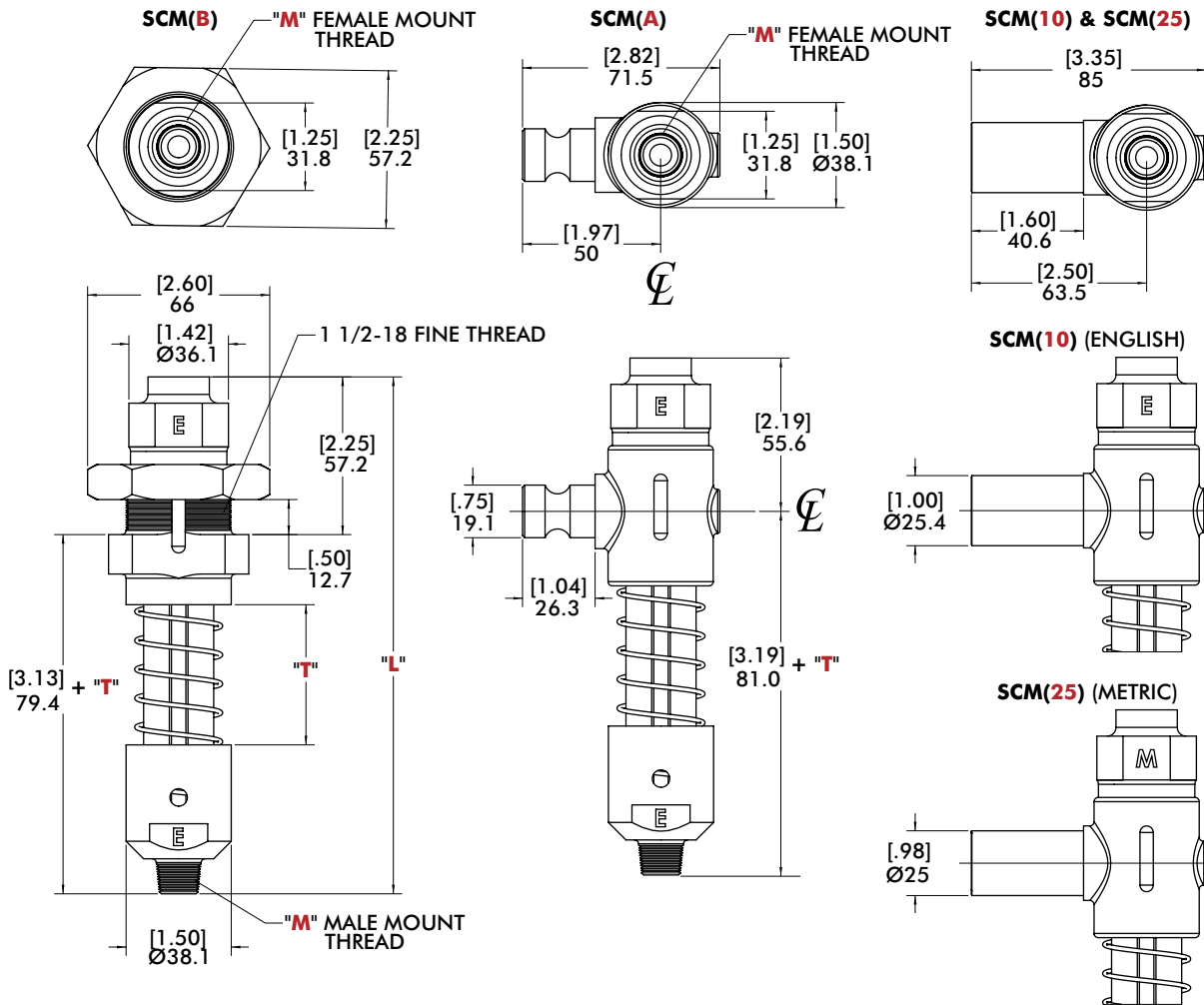
Ø1.50"/45MM
Single Strap Tube Mount
CPI-SCMS-45B-"T"



SPRING LOADED VACUUM CUP MOUNTS

Vacuum Products | Extended Travel Dimensions

SCM Bulkhead/Apple Core/Extension Style



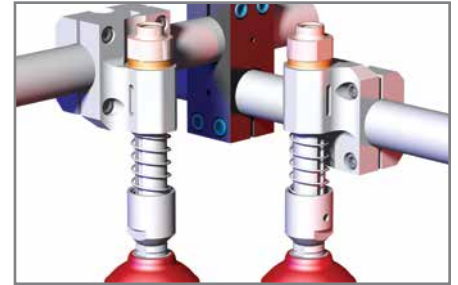
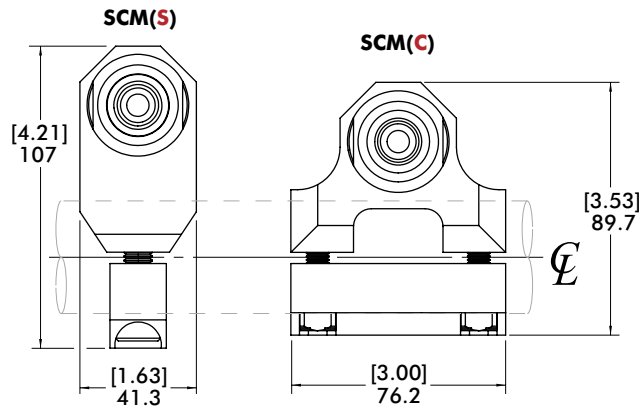
SCM Travel and Length - CPI-SCM(X)-"T"

Version	Travel "T"	L	M	Weight
Imperial	200E (2.00" Vertical Travel)	187.3 [7.38]	3/8" NPT	.48kg [1.06 lb]
	400E (4.00" Vertical Travel)	238.2 [9.38]	3/8" NPT	.53kg [1.16 lb]
	600E (6.00" Vertical Travel)	288.9 [11.38]	3/8" NPT	.58kg [1.27 lb]
Metric	050M (50mm Vertical Travel)	187.3 [7.38]	3/8" G	.48kg [1.06 lb]
	100M (100mm Vertical Travel)	238.2 [9.38]	3/8" G	.53kg [1.16 lb]
	150M (150mm Vertical Travel)	288.9 [11.38]	3/8" G	.58kg [1.27 lb]

SPRING-LOADED CUP MOUNTS

Vacuum Products | Extended Travel Dimensions

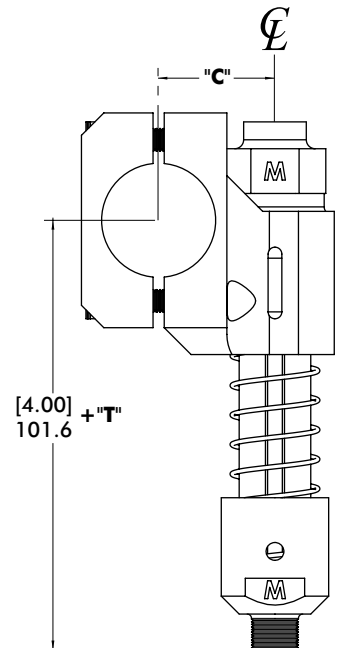
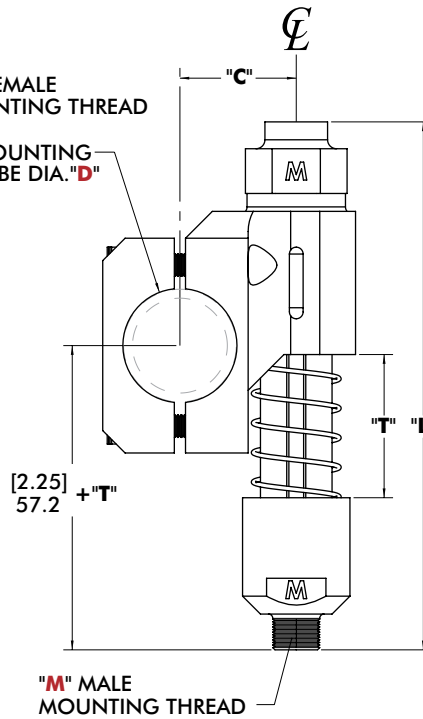
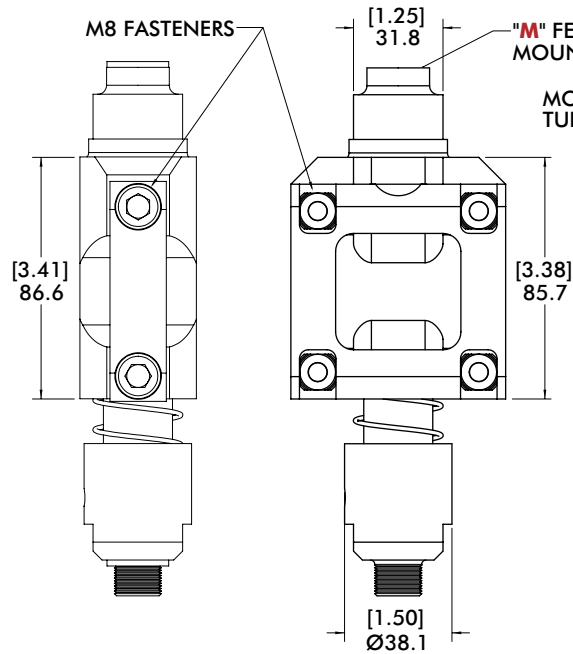
SCM Tube Mounted



Patent Pending

SCM(S/C)
MOUNTING
ORIENTATION (SHOWN)
"O" = A (RAISED POSITION)

SCM(S/C)
MOUNTING
ORIENTATION (SHOWN)
"O" = B (LOWERED POSITION)



Model	C
CPI-SCMC	41.3 [1.63]
CPI-SCMS	54.1 [2.13]

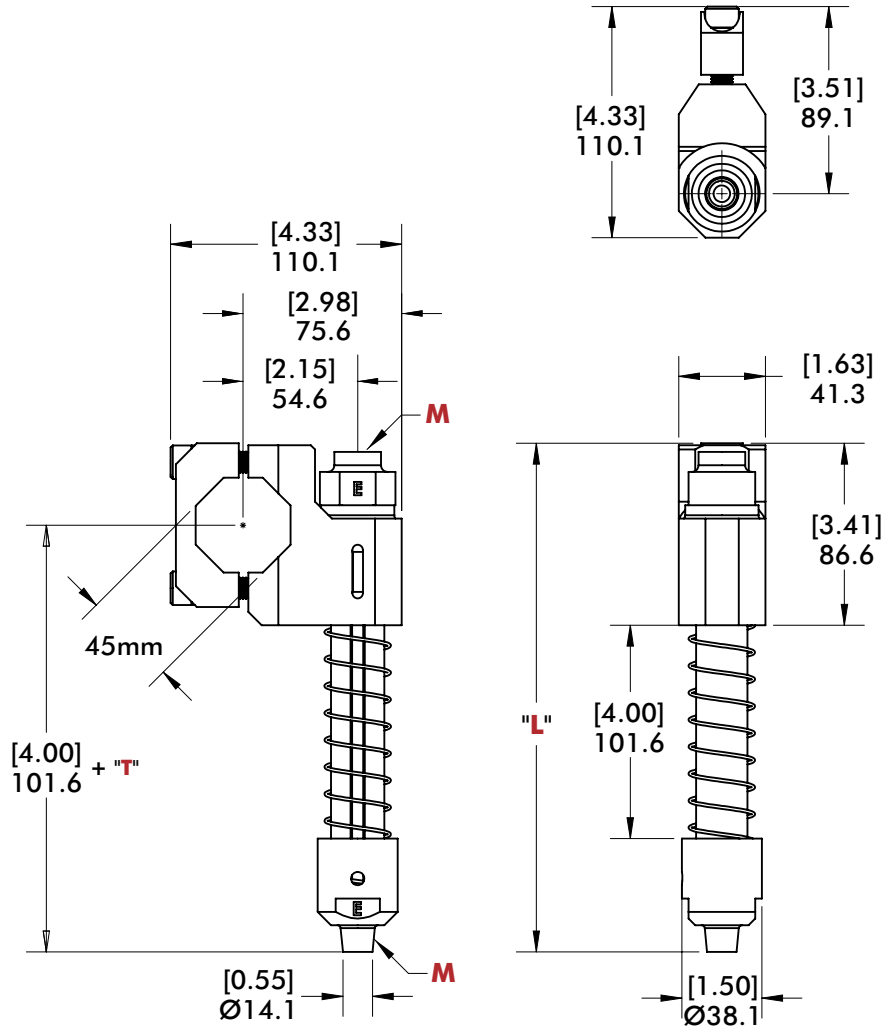
SCM Travel and Length - CPI-SCM(X)-"D"- "T"- "O"

Version	Travel "T"	L	M	D	Weight
Imperial	200E (2.00" Vertical Travel)	187.3 [7.38]	3/8" NPT	150 (Ø1.50")	.85kg [1.87 lb]
	400E (4.00" Vertical Travel)	238.2 [9.38]	3/8" NPT	150 (Ø1.50")	.90kg [1.97 lb]
	600E (6.00" Vertical Travel)	288.9 [11.38]	3/8" NPT	150 (Ø1.50")	.94kg [2.08 lb]
Metric	050M (50mm Vertical Travel)	187.3 [7.38]	3/8" G	40M (Ø40mm)	.85kg [1.87 lb]
	100M (100mm Vertical Travel)	238.2 [9.38]	3/8" G	40M (Ø40mm)	.90kg [1.97 lb]
	150M (150mm Vertical Travel)	288.9 [11.38]	3/8" G	40M (Ø40mm)	.94kg [2.08 lb]

BODY BUILDER SPRING LOADED VACUUM CUP MOUNTS

Vacuum Products | Extended Travel Dimensions

SCM BodyBuilder Mounted



SCM Travel and Length - CPI-SCMS-45B-"T"

Version	Travel "T"	L	M	Weight
Imperial	200E (2.00" Vertical Travel)	191.5 [7.54]	3/8" NPT	.77kg [1.7 lb]
	400E (4.00" Vertical Travel)	242.2 [9.54]	3/8" NPT	.82kg [1.8 lb]
	600E (6.00" Vertical Travel)	293.1 [11.54]	3/8" NPT	.87kg [1.9 lb]
Metric	050M (50mm Vertical Travel)	191.5 [7.54]	3/8" G	.77kg [1.7 lb]
	100M (100mm Vertical Travel)	242.2 [9.54]	3/8" G	.82kg [1.8 lb]
	150M (150mm Vertical Travel)	293.1 [11.54]	3/8" G	.87kg [1.9 lb]

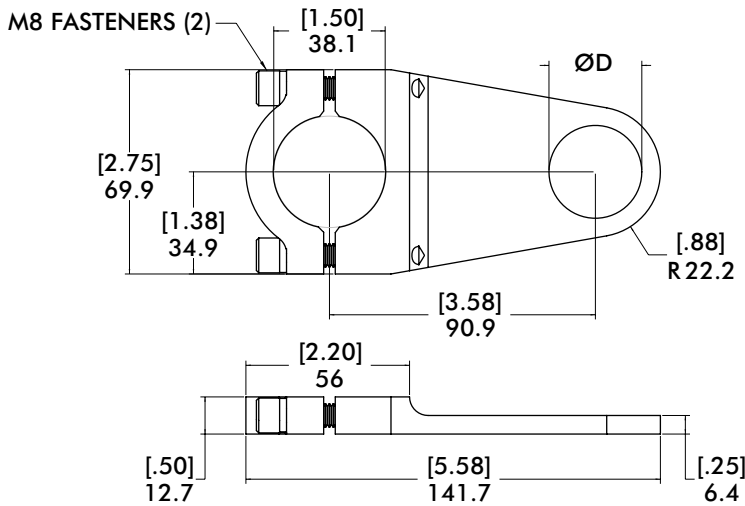
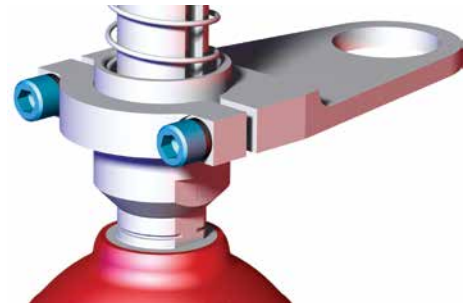
SPRING LOADED VACUUM CUP MOUNT ACCESSORIES

Vacuum Products | Dimensions | Technical Specifications

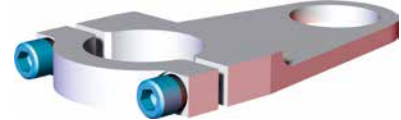
SAP Extended Travel Proximity Switch Mounts

Specifications:
Material: Aluminum

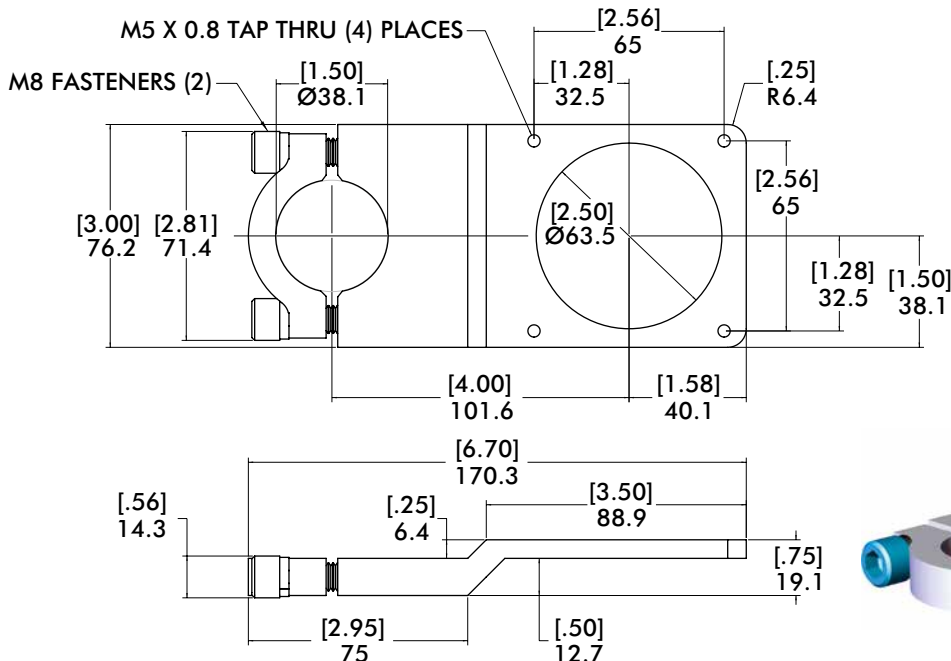
- Features:**
- Mounts 30mm barrel style and square style proximity switches to the extended travel spring-loaded cup mounts.



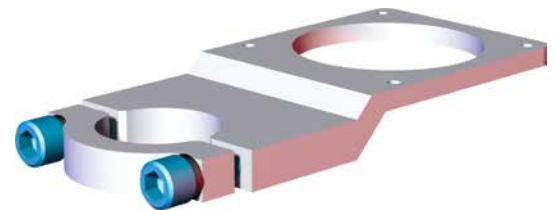
SAP 30mm Barrel Style



Model	ØD	Weight
CPI-SAP-30-PM-150	[1.25] 31.8	.13 kg [.29 lb]
CPI-SAP-18-PM-150	[.75] 19	.17 kg [.38 lb]



SAP 50mm Square Style

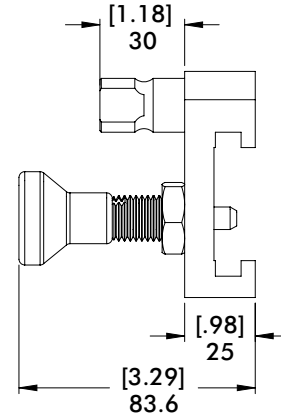
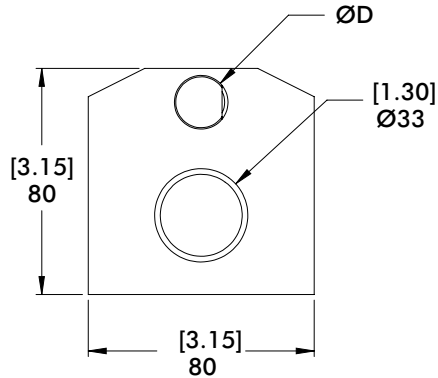
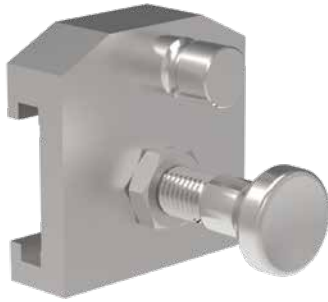


Model	Weight
CPI-SAP-NI50-PM-150	.23 kg [.56 lb]

DOUBLE BLANK DETECTOR QUICK-CHANGE MOUNT

Vacuum Products | Dimensions | Technical Specifications

DBD Quick-Change Mount



Model	ØD	Weight
DBD-19-QC-A	19mm	522g [1.15 lb]
DBD-20-QC-A	20mm	527g [1.16 lb]

DESTACKER DOUBLE BLANK DETECTOR SPRING MOUNTS

Vacuum Products | Features and Options | Ordering Information

DBD Series

Features:

- Orbital design allows compliance to blanks within +/- 15° without having to make any automation, tooling or robot adjustments. [US Patent #4,662,668]
- Elimination of compression springs results in long-lasting, reliable performance
- **HD** Version provides added stability for heavy-duty applications

Specifications:

Operating Pressure: 4 bar [60psi]
Electric: Sensor supplied by customer

CPI-DBD-(X)-SCMB-(T)

Ø1.25" Thru Hole
Bulkhead Mount



CPI-DBD-(X)-SCM10/25-(T)

Ø1.00"/25mm
Extension Mount



CPI-DBD-(X)-SCMB-(T)-HD

Ø1.00"/25mm Tube Mount
Heavy-duty (Double Pogo)



Base Model

DBD
Double Blank
Detector

Sensor Size

42 Ø42mm
54 Ø54mm

(Sensors not
Included)

Mounting Style

SCM10 Ø1.00" Extension Mount
SCM25 Ø25mm Extension Mount
SCMB Bulkhead Mount

Vertical Travel (T) (See pages 46-47)

200E 2.00 in. with NPT Vacuum Port (Except -HD)
400E 4.00 in. with NPT Vacuum Port
600E 6.00 in. with NPT Vacuum Port
800E 8.00 in. with NPT Vacuum Port (-HD only)
050M 50mm with G Vacuum Port (Except -HD)
100M 100mm with G Vacuum Port
150M 150mm with G Vacuum Port
200M 200mm with G Vacuum Port (-HD only)

US/INTL Patents: 6,988,696 / 7,281,739 / 1,921,031

CPI-DBD-(X)-(T)-SCMC-(D)

Ø1.25"/40mm
Tube Mount



X=Sensor Size

42 Ø42mm
54 Ø54mm

(Sensors not Included)

T=Vertical Travel

200E 2.00 in. with NPT Vacuum Port
400E 4.00 in. with NPT Vacuum Port
600E 6.00 in. with NPT Vacuum Port
050M 50mm with G Vacuum Port
100M 100mm with G Vacuum Port
150M 150mm with G Vacuum Port

D=Tube Mount

40 40mm Tube Mount (Metric Only)
150 1.50" Tube Mount (Imperial Only)

(See page 50)

CPI-DBD-42-200E-SCMS

Ø45mm
BodyBuilder Mount

(See page 51)



DESTACKER DOUBLE BLANK DETECTOR SPRING MOUNTS

Vacuum Products | Dimensions | Technical Specifications

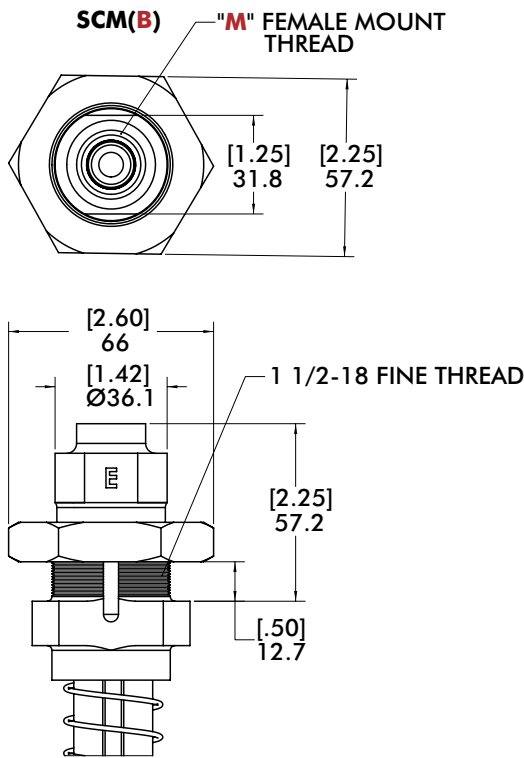
DBD Bulkhead/Extension Style Dimensions



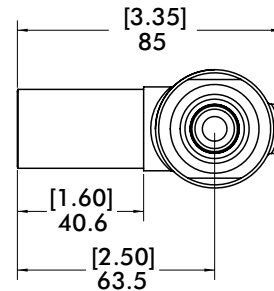
SCMB
Ø1.25" Thru Hole
Bulkhead Mount



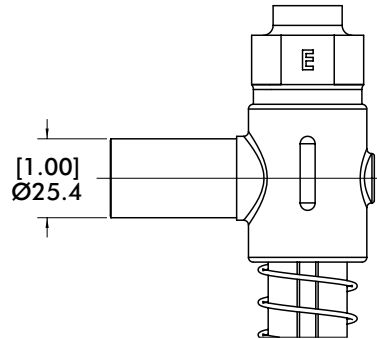
SCM10/25
Ø1.00"/25mm
Extension Mount



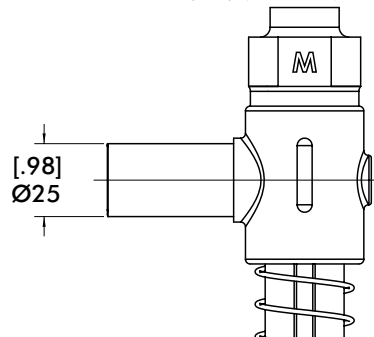
SCM(10) & SCM(25)



SCM(10) (ENGLISH)



SCM(25) (METRIC)

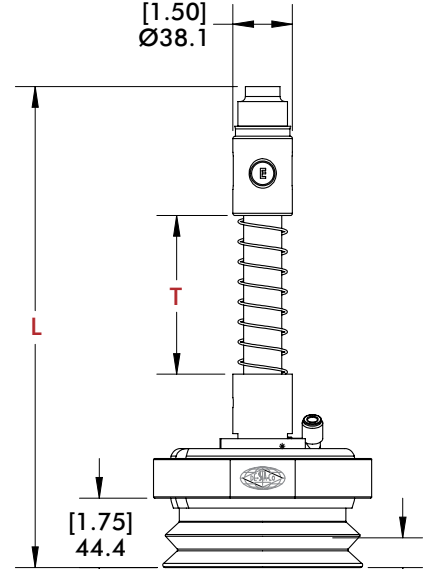
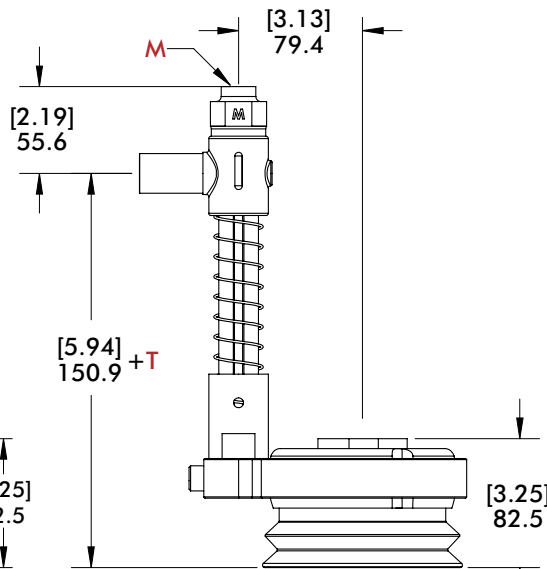
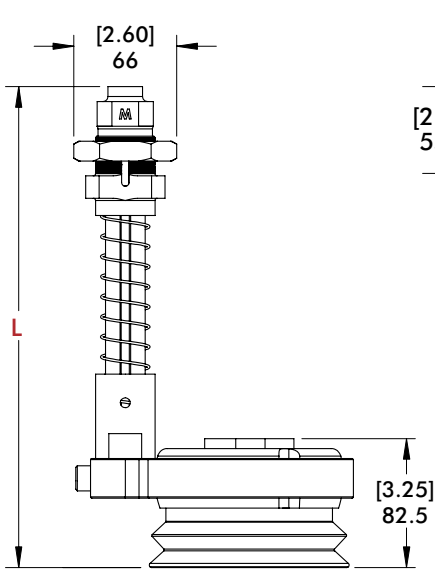
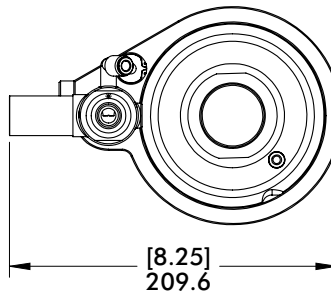
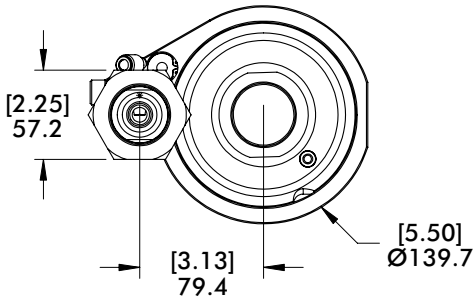
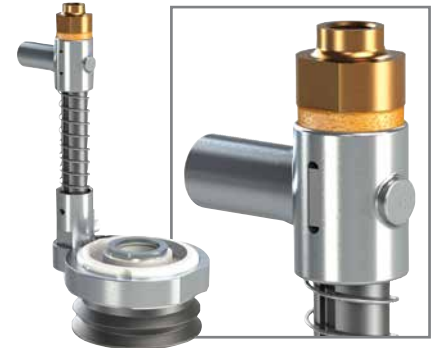
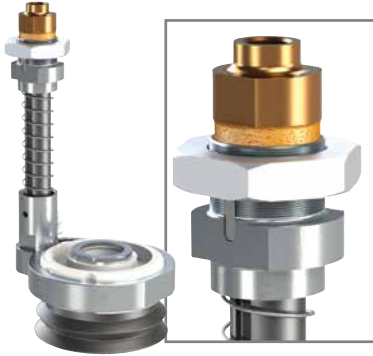


Version	(M)
Imperial	3/8" NPT
Metric	3/8" G

DESTACKER DOUBLE BLANK DETECTOR SPRING MOUNTS

Vacuum Products | Dimensions | Technical Specifications

DBD Bulkhead/Extension Style



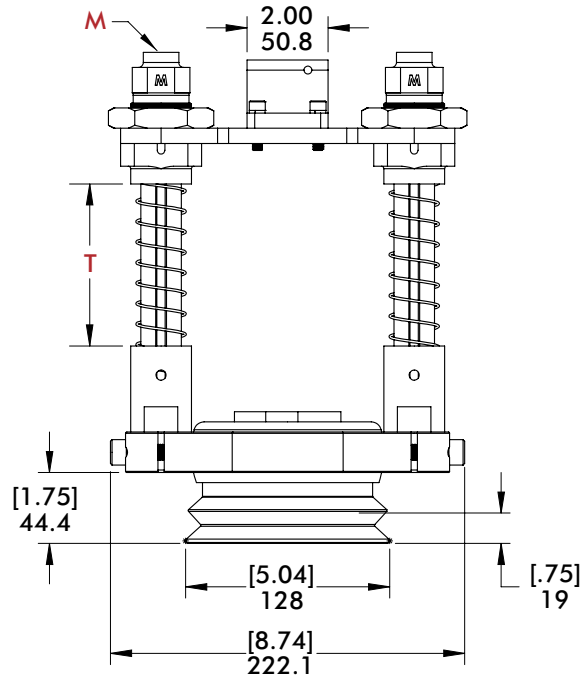
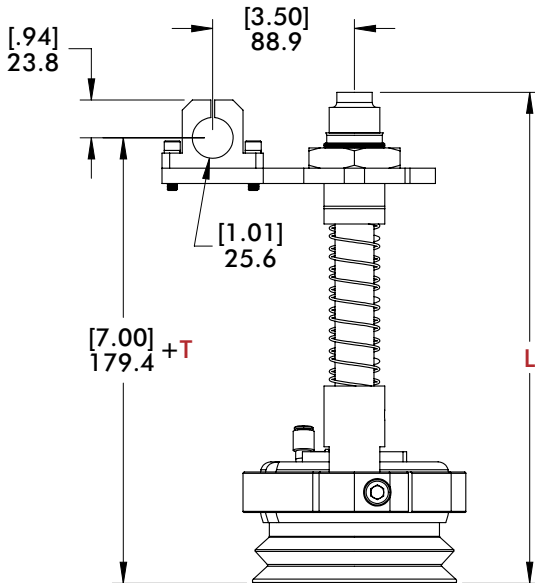
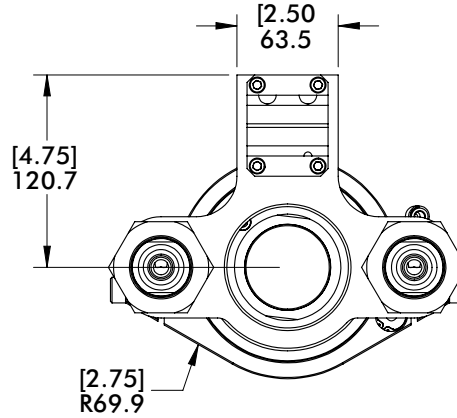
DBD Travel and Length - CPI-DBD-(X)-SCM(X)-(T)

Version	Vertical Travel (T)	(L)	(M)	Weight
Imperial	200E (2.00")	257.1 [10.12]	3/8" NPT	.85kg [1.87 lb]
	400E (4.00")	307.9 [12.12]		.90kg [1.97 lb]
	600E (6.00")	358.7 [14.12]		.94kg [2.08 lb]
Metric	050M (50mm)	257.1 [10.12]	3/8" G	.85kg [1.87 lb]
	100M (100mm)	307.9 [12.12]		.90kg [1.97 lb]
	150M (150mm)	358.7 [14.12]		.94kg [2.08 lb]



DESTACKER DOUBLE BLANK DETECTOR SPRING MOUNTS

Vacuum Products | Dimensions | Technical Specifications

DBD Heavy Duty (Double Pogo)



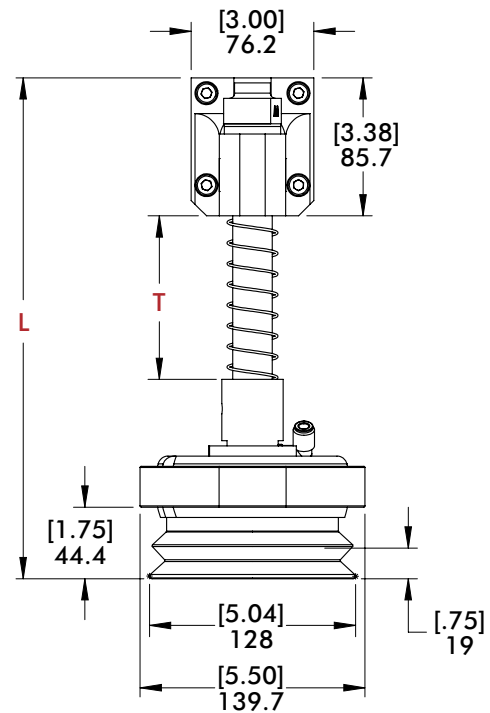
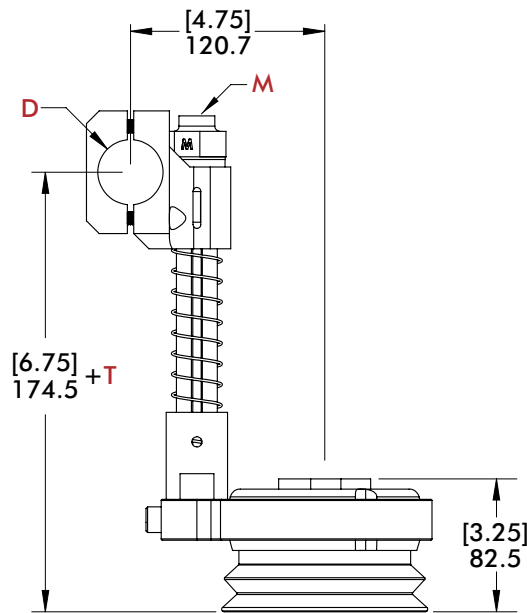
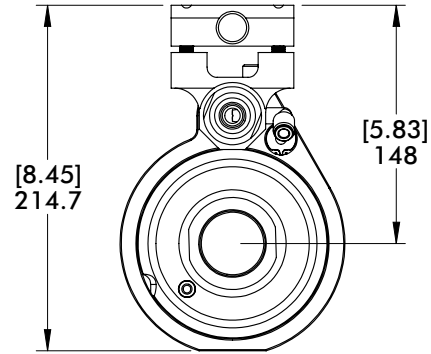
DBD Travel and Length - CPI-DBD-(X)-SCMB-(T)-HD

Version	Vertical Travel (T)	(L)	(M)	Weight
 Imperial	400E (4.00")	307.9 [12.12]	3/8" NPT	3.06kg [6.75 lb]
	600E (6.00")	357.9 [14.09]		3.16kg [6.97 lb]
	800E (8.00")	405.9 [15.98]		3.23kg [7.12 lb]
 Metric	100M (100mm)	307.9 [12.12]	3/8" G	3.06kg [6.75 lb]
	150M (150mm)	357.9 [14.09]		3.16kg [6.97 lb]
	200M (200mm)	405.9 [15.98]		3.23kg [7.12 lb]

BODYBUILDER™ DOUBLE BLANK DETECTOR SPRING MOUNTS

Vacuum Products | Dimensions | Technical Specifications

DBD Ø1.25"/40mm Tube Mount





X=Sensor Size

42 Ø42mm

54 Ø54mm

(Sensors not Included)

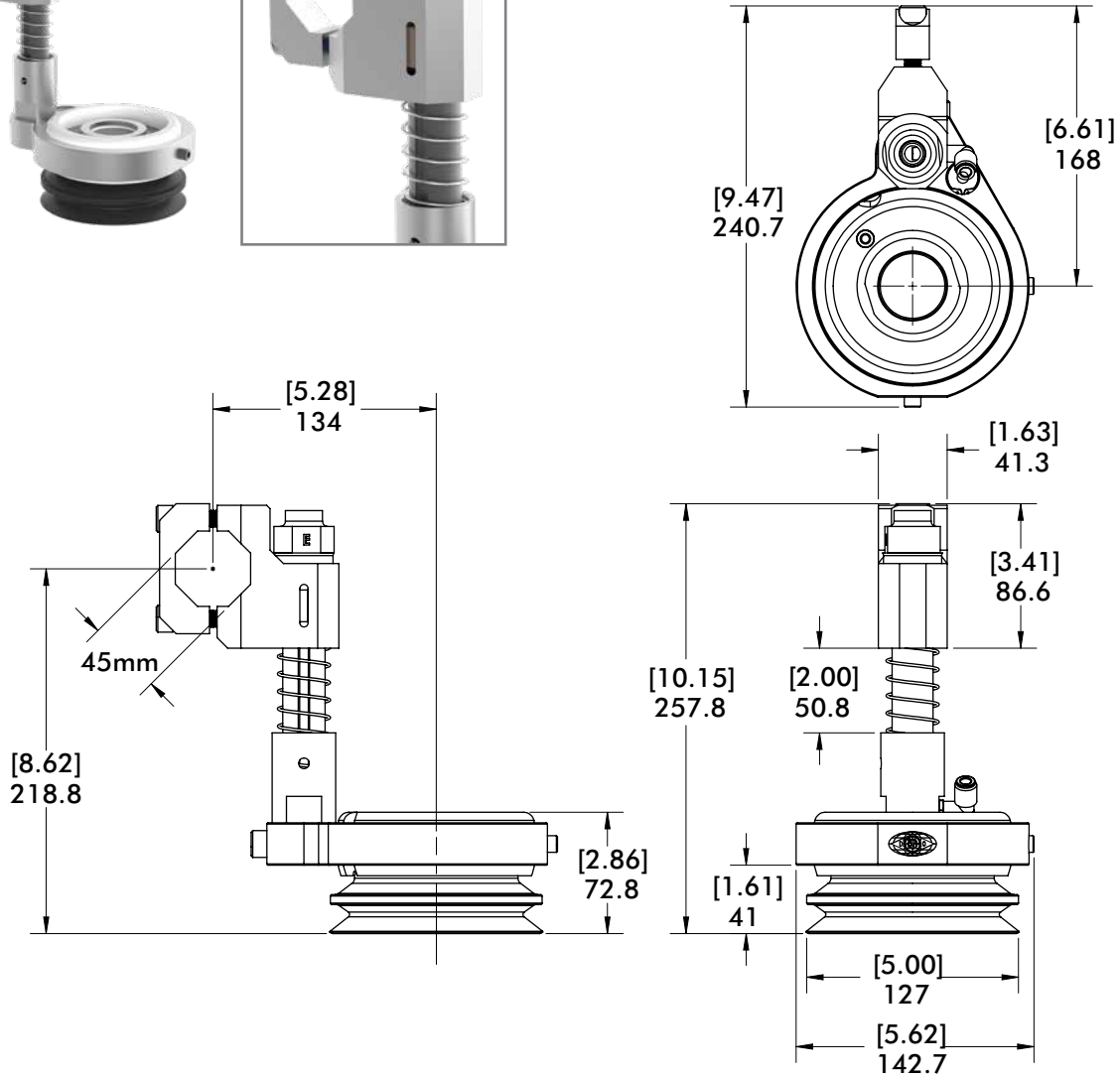
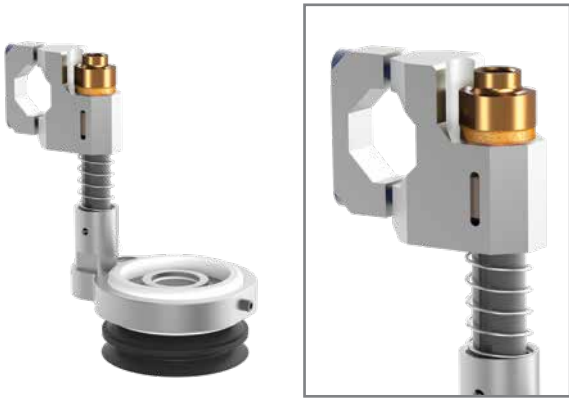
DBD Travel and Length - CPI-DBD-(X)-(T)-SCMC-(D)

Version	Vertical Travel (T)	(L)	(M)	(D)	Weight
 Imperial	200E (2.00")	261.1 [10.28]	3/8" NPT	150 (Ø1.50")	.85kg [1.87 lb]
	400E (4.00")	311.1 [12.25]			.90kg [1.97 lb]
	600E (6.00")	369.9 [14.21]			.94kg [2.08 lb]
 Metric	050M (50mm)	261.1 [10.28]	3/8" G	40M (Ø40mm)	.85kg [1.87 lb]
	100M (100mm)	311.1 [12.25]			.90kg [1.97 lb]
	150M (150mm)	369.9 [14.21]			.94kg [2.08 lb]

DESTACKER DOUBLE BLANK DETECTOR SPRING MOUNTS

Vacuum Products | Dimensions | Technical Specifications

DBD Ø45mm BodyBuilder Mount



CPI-DBD-42-200E-SCMS-45B

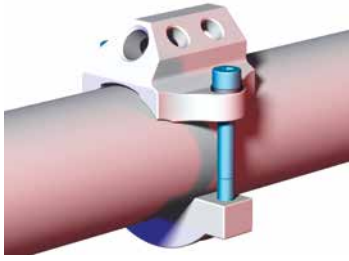
Version	Thread	Weight
Imperial	3/8" NPT	1.8kg [3.9 lb]



MANIFOLDS

Vacuum Products | Dimensions | Technical Specifications

MBC/MLK Boom Mounted Single 4-Port - 30° Angled Input Port

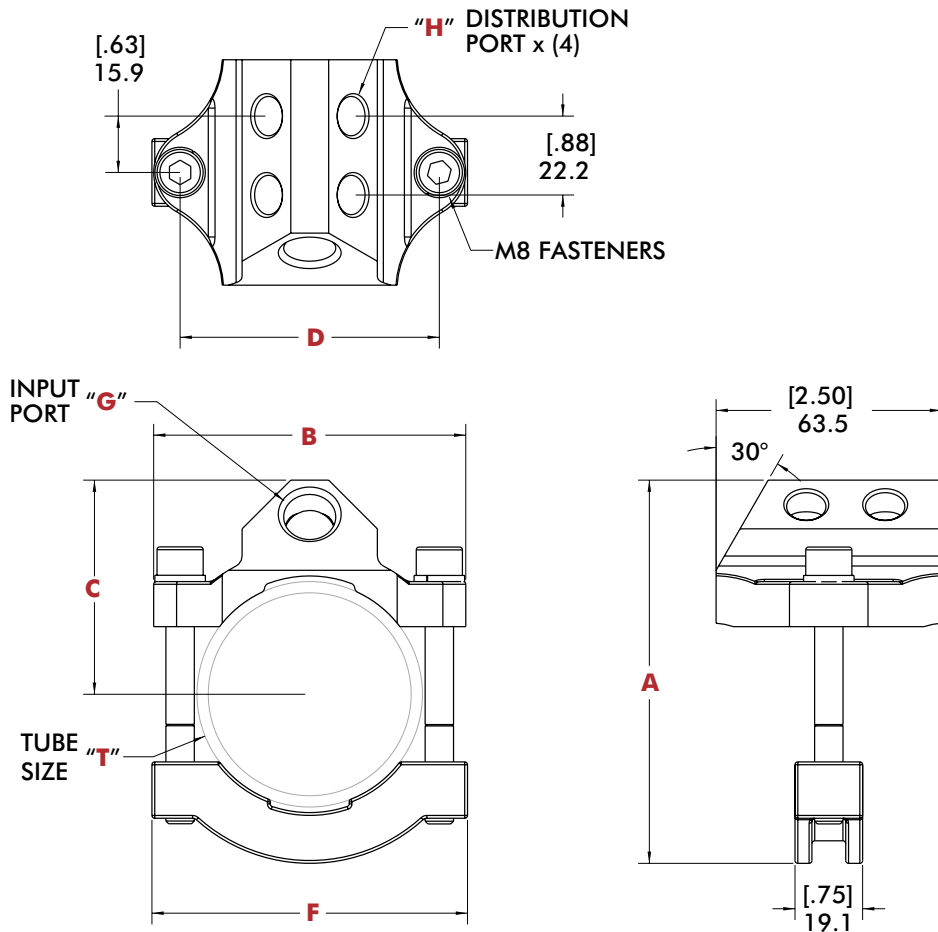


Features:

- 30° Angled input port.
- Provides a 4-port air distribution system mount on the boom.

Specifications:

Material: Aluminum



MBC/MLK Dimensions

Model	A	B	C	D	F	G	H	T	Weight
CPI-MLK-60-G44-30	108.0	87.9	60.3	73	88.9	3/8 G	1/4 G	Ø60MM	340g
[CPI-MBC-250-4-4-30]	[4.25]	[3.46]	[2.38]	[2.88]	[3.50]	[3/8 NPT]	[1/4 NPT]	[Ø2.50"]	[12 oz]

MANIFOLDS

Vacuum Products | Dimensions | Technical Specifications

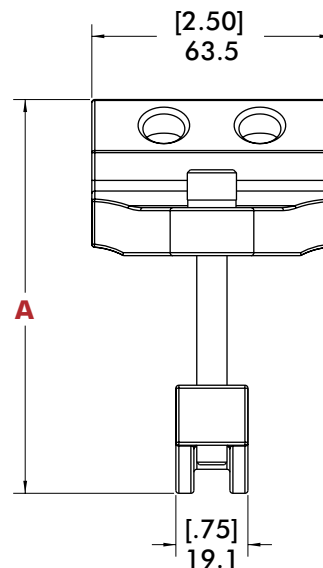
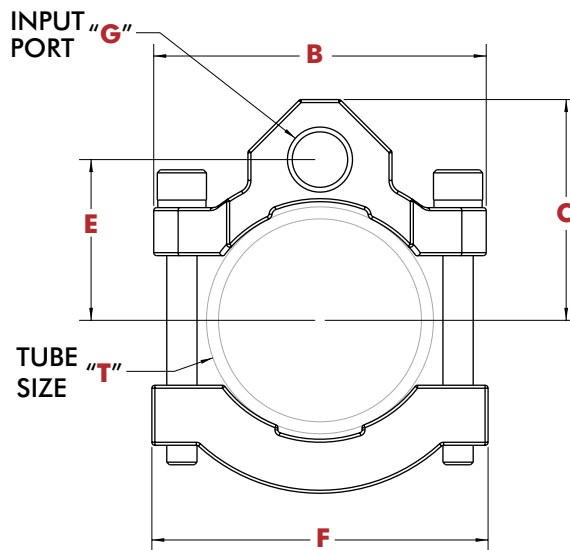
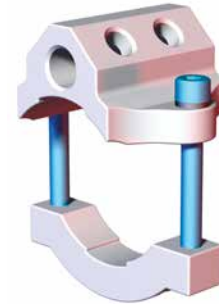
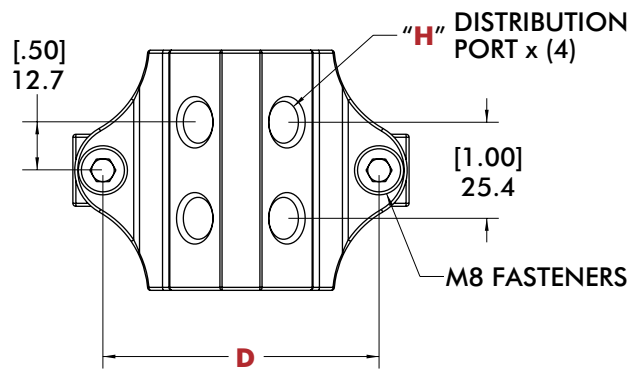
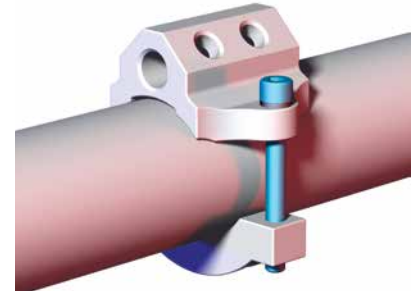
MBC/MLK Boom Mounted Single 4-Port

Specifications:

Material: Aluminum

Features:

- Provides a 4-port air distribution system mount on the boom.
- Available in two sizes to allow clamping to Ø40mm [Ø1.50"] and Ø60mm [Ø2.50"] materials.



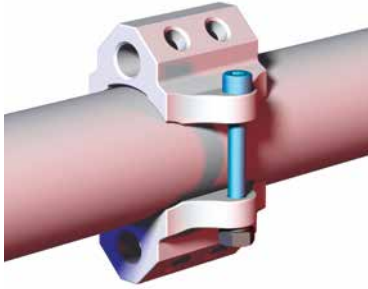
MBC/MLK Dimensions

Model	A	B	C	D	E	F	G	H	T	Weight
CPI-MLK-40-G44	88.9	64.3	52.5	48.5	36.7	64.3	12.9	114.5	Ø40MM	283g
[CPI-MBC-150-4-4]	[3.50]	[2.53]	[2.07]	[1.91]	[1.44]	[2.53]	[.51]	[4.51]	[Ø1.50"]	[10 oz]
CPI-MLK-60-G44	104.1	87.9	58.4	73	42.5	88.9	39.7	118.4	Ø60MM	340g
[CPI-MBC-250-4-4]	[4.10]	[3.46]	[2.30]	[2.88]	[1.67]	[3.50]	[1.56]	[4.65]	[Ø2.50"]	[12 oz]

MANIFOLDS

Vacuum Products | Dimensions | Technical Specifications

MBC/MLK Boom Mounted Double 8-Port

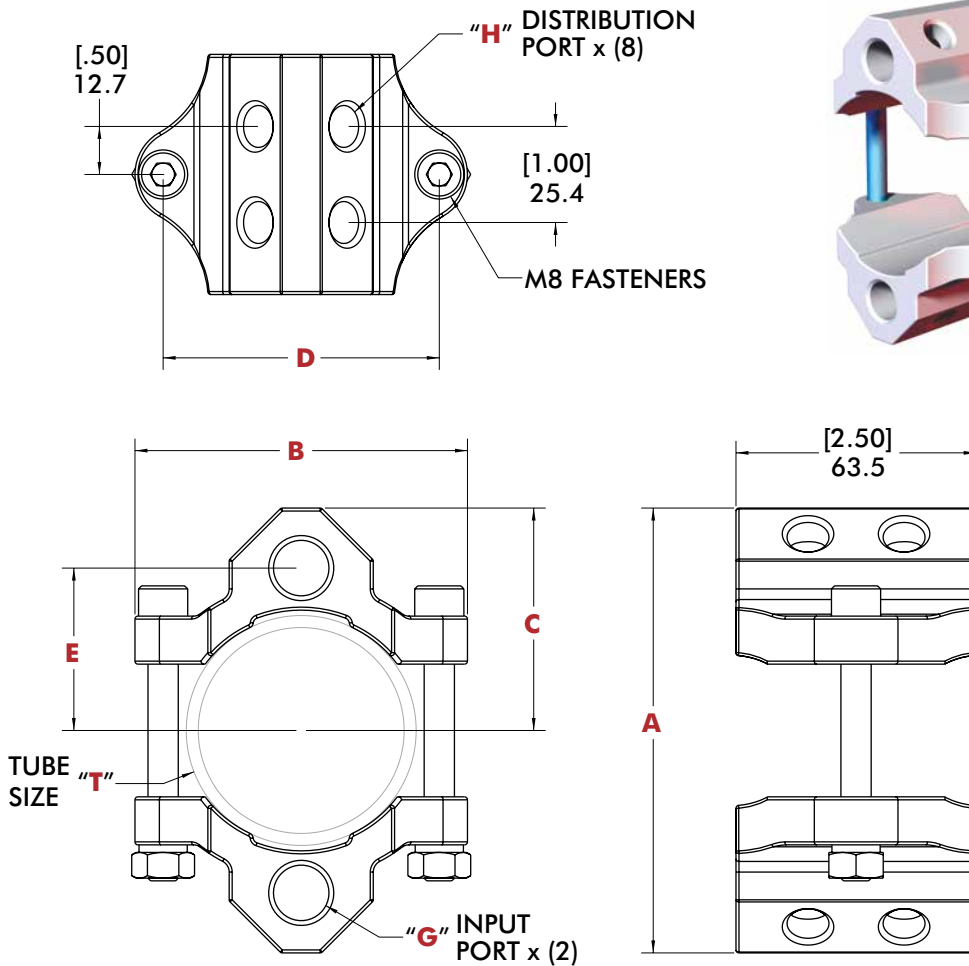


Features:

- Provides an 8-port (4 ports on top and bottom) air distribution system mount on the boom.
- Available in two sizes to allow clamping to Ø40mm [Ø1.50"] and Ø60mm [Ø2.50"] materials.

Specifications:

Material: Aluminum



MBC/MLK Dimensions

Model	A	B	C	D	E	G	H	T	Weight
CPI-MLK-40-G88 [CPI-MBC-150-8-8]	105.1 [4.14]	64.3 [2.53]	52.5 [2.07]	48.5 [1.91]	36.8 [1.45]	3/8 G [3/8 NPT]	1/4 G [1/4 NPT]	Ø40MM [Ø1.50"]	425g [16 oz]
CPI-MLK-60-G88 [CPI-MBC-250-8-8]	117.6 [4.63]	87.9 [3.46]	58.8 [2.32]	73.0 [2.88]	42.9 [1.69]	3/8 G [3/8 NPT]	1/4 G [1/4 NPT]	Ø60MM [Ø2.50"]	510g [18 oz]

MANIFOLDS

Vacuum Products | Dimensions | Technical Specifications

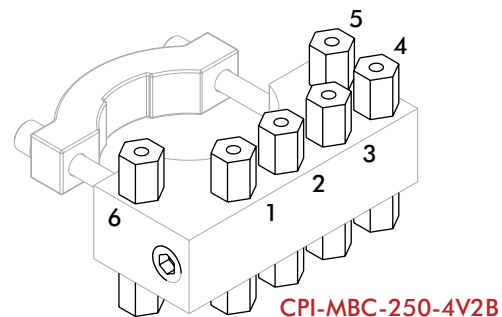
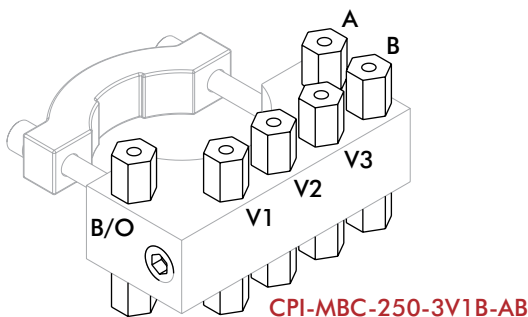
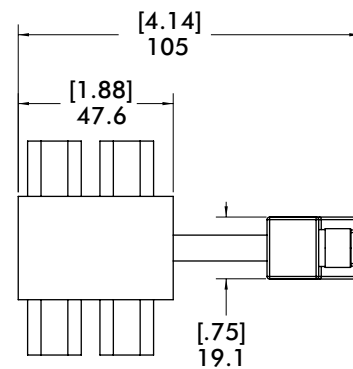
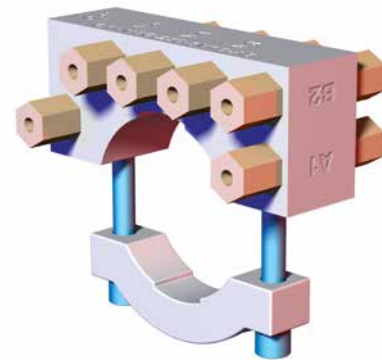
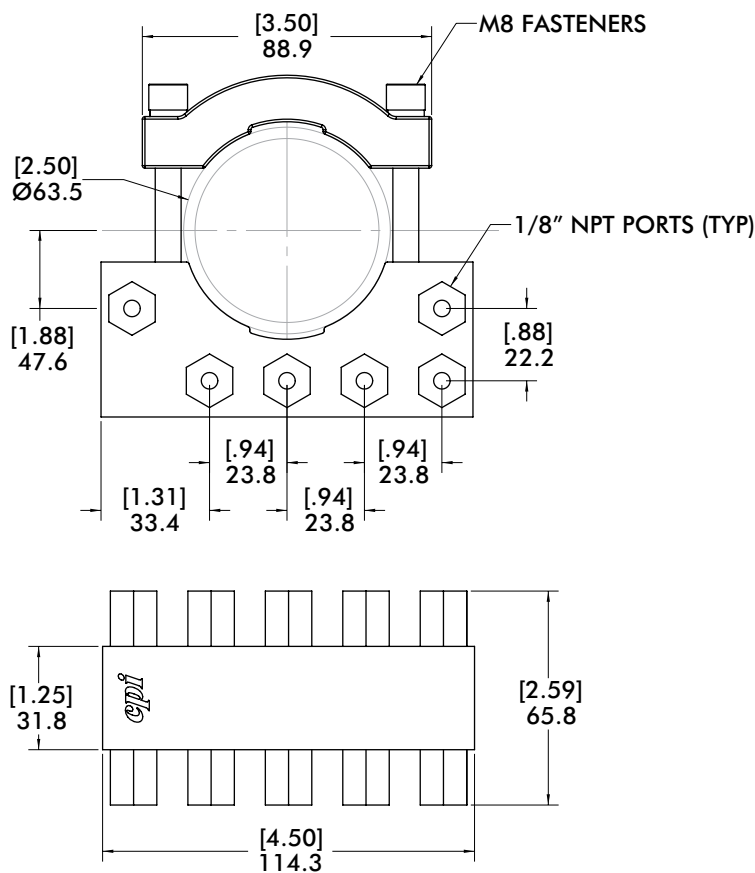
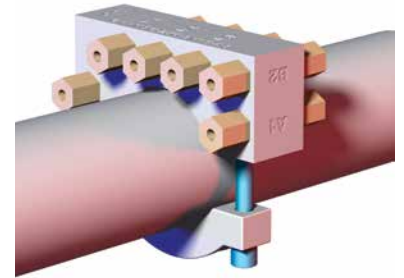
MBC Boom Mounted Single 6-Port

Specifications:

Material: Aluminum

Features:

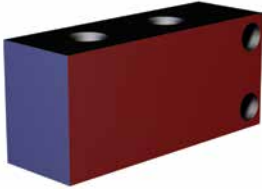
- Provides a 6-port air distribution system mounted on the boom.
- Easy access.



MANIFOLDS

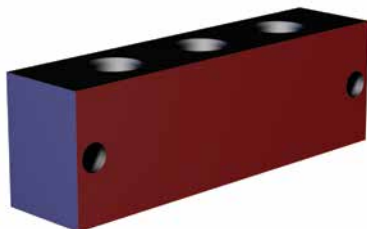
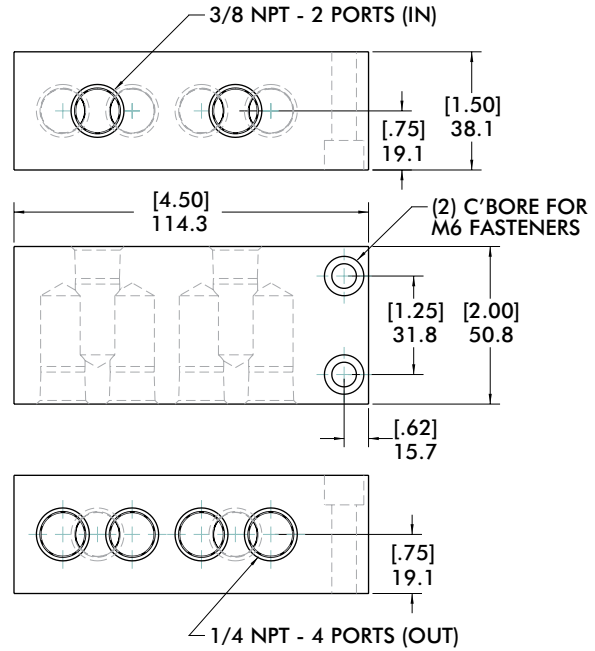
Vacuum Products | Dimensions | Technical Specifications

GDA/MBB Block Style for Remote Mounting



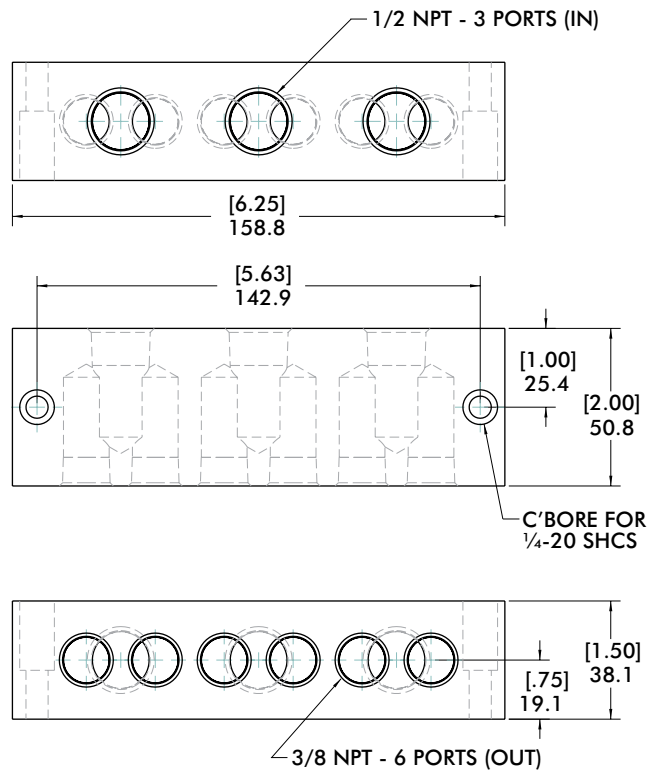
Material: Aluminum

Model	Weight
CPI-GDA-M24-37327	.23 kg [.56 lb]



Material: Aluminum

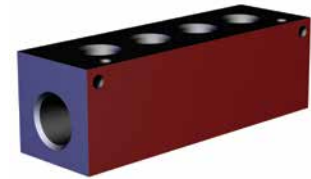
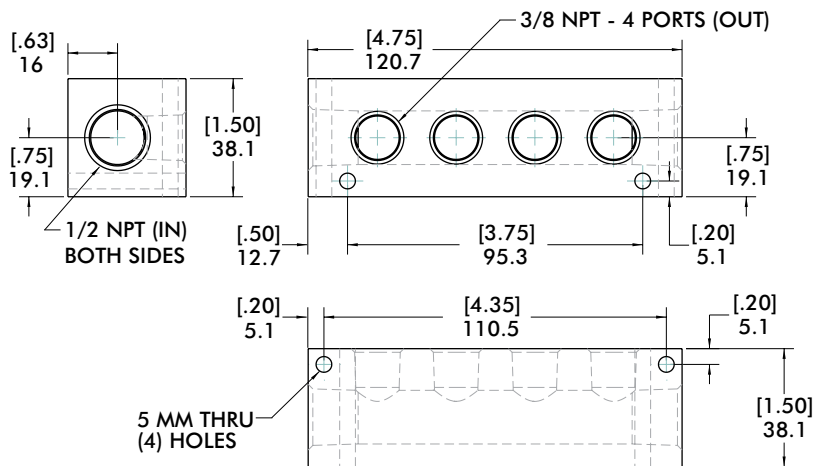
Model	Weight
CPI-MMB-4V2B-LG	.23 kg [.56 lb]



MANIFOLDS

Vacuum Products | Dimensions | Technical Specifications

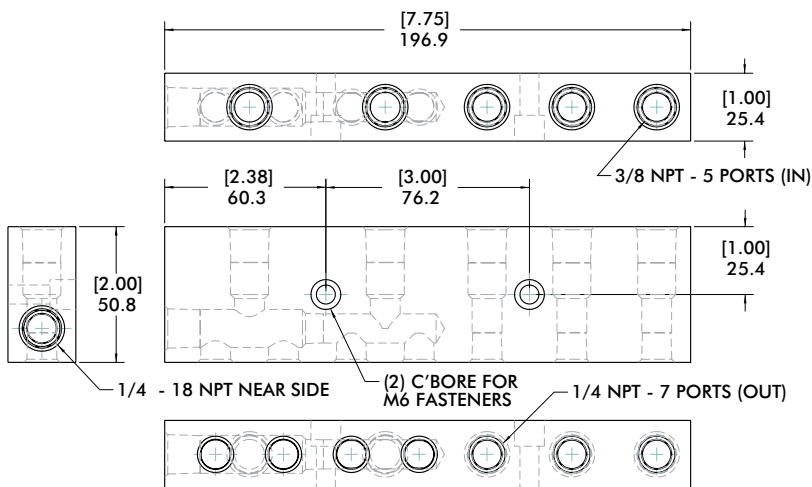
MMB Block Style or Remote Mounting



Material: Aluminum

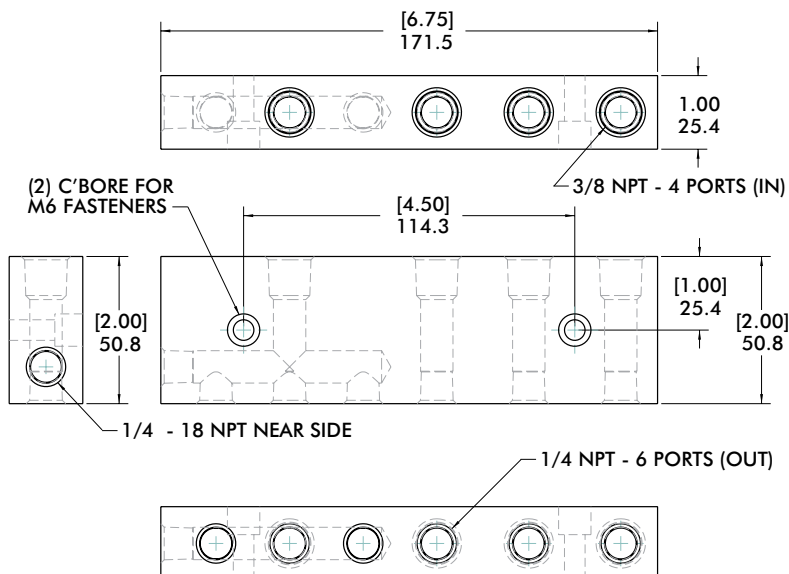
Model	Weight
CPI-MMB-4P	.23 kg [.56 lb]

MMB Block Style or Remote Mounting



Material: Aluminum

Model	Weight
CPI-MMB-4VSP-AB	.23 kg [.56 lb]



Material: Aluminum

Model	Weight
CPI-MMB-3V1B-AB	.23 kg [.56 lb]



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VERTICAL HOLD DOWN CLAMPS

Sizing and Application Chart

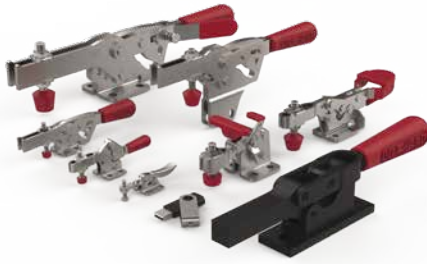
Overall Length mm [inch]	Overall Width mm [inch]	Suitable Application Areas	Standard Material	Arm Style	Mounting Style	Service Environment
50 to 75 [1.97 to 2.95]	0 to 20 [0 to 0.78]	Welding	Steel	U-Bar Version	Weld-on Mounting	Normal
75 to 100 [2.95 to 3.94]	20 to 40 [0.78 to 1.57]	Assembly	Stainless Steel	Solid Arm Version	Flanged Base	Harsh/Dirty
100 to 125 [3.94 to 4.92]	40 to 60 [1.57 to 2.36]	Checking Fixtures	Color Handles	Straight Base	Weld-on Mounting	Normal
125 to 150 [4.92 to 5.91]	60 to 80 [2.36 to 3.15]	Machining	Toggle Lock Plus	Flanged Base	Weld-on Mounting	Normal
150 to 175 [5.91 to 6.89]	80 to 100 [3.15 to 3.94]	Woodworking	Accom. Workpiece Variation	Straight Base	Weld-on Mounting	Normal
175 to 200 [6.89 to 7.87]	100+ [3.94+]	Closures	Food Processing	Flanged Base	Weld-on Mounting	Normal
200 to 225 [7.87 to 8.86]			Duty Cycle	Weld-on Mounting	Weld-on Mounting	Normal
225 to 250 [8.86 to 9.84]			Steel	Weld-on Mounting	Weld-on Mounting	Normal
			Stainless Steel	Weld-on Mounting	Weld-on Mounting	Normal
			Color Handles	Weld-on Mounting	Weld-on Mounting	Normal
			Toggle Lock Plus	Weld-on Mounting	Weld-on Mounting	Normal
			Accom. Workpiece Variation	Weld-on Mounting	Weld-on Mounting	Normal
			U-Bar Version	Weld-on Mounting	Weld-on Mounting	Normal
			Solid Arm Version	Weld-on Mounting	Weld-on Mounting	Normal
			Straight Base	Weld-on Mounting	Weld-on Mounting	Normal
			Flanged Base	Weld-on Mounting	Weld-on Mounting	Normal
			Weld-on Mounting	Weld-on Mounting	Weld-on Mounting	Normal
			Normal	Weld-on Mounting	Weld-on Mounting	Normal
			Harsh/Dirty	Weld-on Mounting	Weld-on Mounting	Normal








● Excellent/High ○ Fair/Medium ● Poor/Low ⊗ Not Recommended

HORIZONTAL HOLD DOWN CLAMPS

Sizing and Application Chart

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Series	Page MC-HHD-#	Max. Holding Capacity N [lbf.]					Height Under Clamping Bar mm [inch]					Overall Height mm [inch]							
		0 to 1000 [0 to 225]	1000 to 2000 [225 to 450]	2000 to 3000 [450 to 675]	3000 to 5000 [675 to 1125]	5000 to 7000 [1125 to 1575]	7000 to 10000 [1575 to 2250]	0 to 10 [0 to 0.39]	10 to 20 [0.39 to 0.79]	20 to 30 [0.79 to 1.18]	30 to 40 [1.18 to 1.57]	40 to 50 [1.57 to 1.97]	50 to 60 [1.97 to 2.36]	0 to 25 [0 to 0.98]	25 to 40 [0.98 to 1.57]	40 to 55 [1.57 to 2.17]	55 to 70 [1.57 to 2.76]	70 to 85 [2.76 to 3.35]	85 to 100 [3.35 to 3.94]
 2013  217  227  235  305  206  5310	2013		●					●					●						
	2017			●				●						●					
	2027				●				●						●				
	213		●					●											
	217		●●						●										
	227			●						●						●			
	237				●						●						●		
	245											●							●
	205		●						●										
	215			●●						●					●				
	225			●							●					●			
	235				●							●				●			
	305		●						●					●					
	307			●						●						●			
	309				●						●							●	
206		●											●						
5305			●						●				●						
5310						●			●					●					



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HORIZONTAL HOLD DOWN CLAMPS

Sizing and Application Chart

Overall Length mm [inch]		Overall Width mm [inch]		Suitable Application Areas										Standard Material		Arm Style		Mounting Style		Service Environ- ment														
50 to 75 [1.97 to 2.95]	75 to 100 [2.95 to 3.94]	100 to 125 [3.94 to 4.92]	125 to 150 [4.92 to 5.91]	150 to 175 [5.91 to 6.89]	175 to 200 [6.89 to 7.87]	200 to 225 [7.87 to 8.86]	225 to 250 [8.86 to 9.84]	250+ [9.84+]	0 to 25 [0 to 0.98]	25 to 40 [0.98 to 1.57]	40 to 55 [1.57 to 2.17]	55 to 70 [1.57 to 2.76]	Welding	Assembly	Checking Fixtures	Machining	Woodworking	Closures	Food Processing	Duty Cycle	Steel	Stainless Steel	Color Handles	Toggle Lock Plus	U-Bar Version	Solid Arm Version	Straight Base	Flanged Base	Welded	Normal	Harsh/Dirty			
			●										○	●	●	●	●	●	●	○	○	●	●	●	●					●	●	●		
						●					●		○	●	●	●	●	●	●	○	○	●	●	●	●	●					●	●	●	
							●				●		○	●	●	○	●	●	●	○	○	●	●	●	●	●					●	●	●	
		●							●				○	●	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	
●			●							●			○	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	
●	●								●				○	●	○	○	●	●	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●	
●			●						●				○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
						●							○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
							●						○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

● Excellent/High ○ Fair/Medium ● Poor/Low ⊗ Not Recommended







STRAIGHT LINE ACTION CLAMPS

Sizing and Application Chart

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Series	Page MC-SLA-#	Max. Holding Capacity N [lbf.]					Plunger Travel mm [inch]				
		0 to 1000 [0 to 225]	1000 to 2000 [225 to 450]	2000 to 3000 [450 to 675]	3000 to 5000 [675 to 1125]	5000 to 7000 [1125 to 1575]	7000 to 10000 [1575 to 2250]	10000+ [2250+]	0 to 20 [0 to 0.79]	20 to 40 [0.79 to 1.57]	40 to 60 [1.57 to 2.36]

 6001	 603	6001	1	●						●		
		601	2	●						●		
		6015	3		●					●		
		603	5		●					●		
		608	5			●					●	
		605	7		●					●		
		606	8		●					●		
 606	 607	607	9			●					●	
		609	10		●					●		
		610	11			●					●	
		615	12		●					●		
		620	13			●				●		
		630	14					●			●	
		640	15					●				●
		650	16					●				●
		95030	17			●				●		
		95040	17			●				●		
		95050	17					●			●	
		95060	17					●			●	
		5130	19					●			●	
		5131	19		●					●		
		5133	19			●					●	
		5150	19					●		●		
		602	23	●						●		
		604	23		●					●		
		624	23			●					●	
		6004	27		●					●		
		614	29			●				●		
		670	31					●			●	
		675	31					●		●		
		690	31					●			●	
		695	31					●		●		
 604	 614	614										
	 675	675										

PULL ACTION LATCH CLAMPS

Sizing and Application Chart

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Series	Page MC-PAL-#	Max. Holding Capacity N [lbf.]					Plunger Travel mm [inch]				
		0 to 2000 [0 to 450]	2000 to 4000 [450 to 900]	4000 to 6000 [900 to 1350]	6000 to 10000 [1350 to 2250]	10000 to 20000 [2250 to 4500]	20000+ [4500+]	0 to 50 [0 to 1.97]	50 to 75 [1.497 to 2.95]	75 to 100 [2.95 to 3.94]	100 to 125 [3.94 to 4.92]

	3031	1	●						●				
	3051	1			●				●				
	330	3	●						●				
	351	3	●							●			
	371	3		●							●		
	381	3			●							●	
	323	7	●						●				
	331	7		●					●				
	341	7			●				●				
	375	11				●				●			
	385	13					●			●			
	324	16		●					●				
	334	16			●					●			
	344	16				●				●			
	374	16					●			●			
	301	20	●								●		
	311	20			●						●		
	3011	21				●					●		
	353	22			●	—	●			●			

SQUEEZE ACTION PLIER CLAMPS

Sizing and Application Chart

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Series	Page MC-SAP-#	Max. Holding Capacity N [lbf.]					Maximum Clamping Thickness mm [inch]					Color Handles		
		0 to 1000 [0 to 225]	1000 to 2000 [225 to 450]	2000 to 3000 [450 to 675]	3000 to 4000 [675 to 900]	4000 to 5000 [900 to 1125]	5000 to 6000 [1125 to 1350]	0 to 10 [0 to 0.39]	10 to 20 [0.39 to 0.78]	20 to 30 [0.78 to 1.18]	30 to 40 [1.18 to 1.57]		40 to 60 [1.57 to 2.36]	60 to 80 [1.57 to 3.15]
	325				●						●			✓
	345				●								●	✓
	424	●						●						
	441		●						●					
	431	●					●							
	462				●				●					
	463				●						●			
	482						●		●					
	484						●					●		
	486					●							●	



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MANUAL CLAMPING ACCESSORIES

See pages MC-ACC-1 to 10 for more information



PNEUMATIC TOGGLE CLAMPS

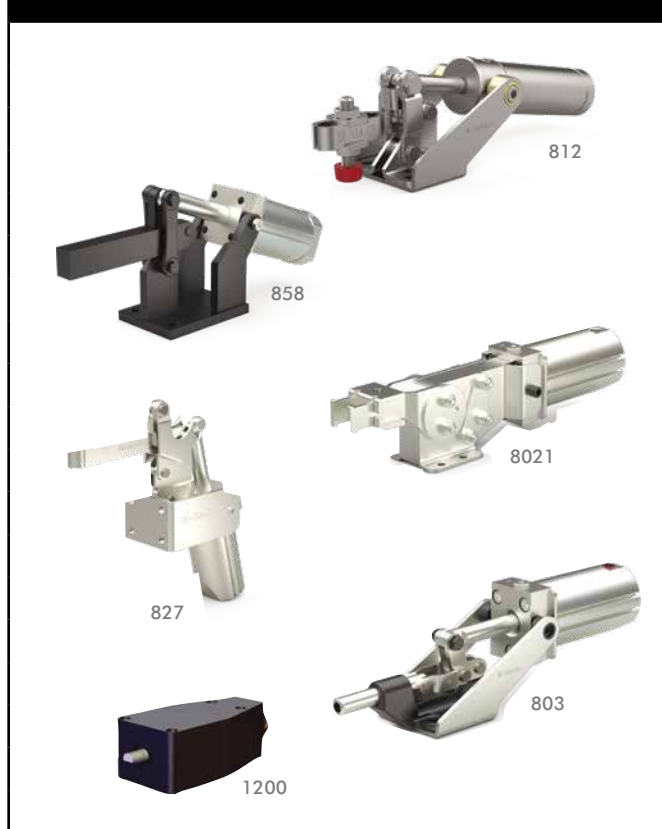
Sizing and Application Chart

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Series	Page MC-PTC-#	Max. Holding Capacity N [lbf.]							Max. Exerting Force at 5bar [72PSI] N [lbf.]						
		0 to 1000 [0 to 225]	1000 to 2000 [225 to 450]	2000 to 3000 [450 to 675]	3000 to 5000 [675 to 1125]	5000 to 7000 [1125 to 1575]	7000 to 10000 [1575 to 2250]	10000+ [2250+]	0 to 1000 [0 to 225]	1000 to 2000 [225 to 450]	2000 to 3000 [450 to 675]	3000 to 4000 [675 to 900]	4000 to 5000 [900 to 1125]	5000 to 6000 [1125 to 1350]	6000 to 8000 [1350 to 1800]
812	1	●						●							
802	3	●							●						
807	5			●						●					
810	7				●						●				
846	9				●						●				
847	11				●							●			
8007	13				●						●				
858	15							●						●	
8021	17		●						●						
8071	17		●							●					
817	19		●							●					
827	19			●							●				
868	21													●	
803	23			●							●				
8031	24						●					●			
830	25							●				●			
850	26							●					●		
800	27								●						
1200	27								●						





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PNEUMATIC TOGGLE CLAMPS

Sizing and Application Chart

Overall Height mm [inch]		Overall Length mm [inch]		Overall Width mm [inch]		Suitable Application Areas		Service Environ- ment																									
0 to 50 [0 to 1.97]	50 to 75 [1.97 to 2.95]	75 to 100 [2.95 to 3.94]	100 to 125 [3.94 to 4.92]	125 to 150 [4.92 to 5.91]	150 to 175 [5.91 to 6.89]	175 to 200 [6.89 to 7.87]	200 to 225 [7.87 to 8.86]	225 to 250 [8.86 to 9.84]	250 to 275 [9.84 to 10.83]	275+ [10.83+]	125 to 150 [4.92 to 5.91]	150 to 175 [5.91 to 6.89]	175 to 200 [6.89 to 7.87]	200 to 225 [7.87 to 8.86]	225 to 250 [8.86 to 9.84]	250 to 300 [9.84 to 11.81]	300 to 400 [11.81 to 15.75]	400+ [15.75+]	20 to 40 [0.78 to 1.57]	40 to 60 [1.57 to 2.36]	60 to 80 [2.36 to 3.15]	80 to 100 [3.15 to 3.94]	100 to 120 [3.94 to 4.72]	Welding	Assembly	Light Machining	Duty Cycle	Accommodates Workpiece Variation	U-Bar Version	Solid Arm Version	Normal	Harsh/Dirty	
●	●	●									●							●						●	●	●	●		✓		✓		
	●	●				●						●			●				●	●				○	○	○	○		✓		✓		
		●											●		●				●	●				○	○	○	○		✓	✓	✓		
															●				●	●				○	○	○	○		✓	✓	✓		
	●	●													●				●	●				○	○	○	○				✓		✓
		●													●				●	●				○	○	○	○				✓		✓
●	●										●								●	●				○	○	○	○	✓					✓

● Excellent/High ○ Fair/Medium ● Poor/Low ⊗ Not Recommended

PNEUMATIC SWING CLAMPS

Sizing and Application Chart

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Series	Page MC-PSC-#	Bore Size mm [in]		Total Stroke mm [in]		Clamp Stroke mm [in]		Clamping Force N [lbf]		Arm Rotation - Top of Stroke	Block Body Style	Threaded Body Style	Flanged Body Style	Sensor Ready	360° Arm Adjustability	Clamp Arm/Spindle Incl.	Manual Operation	Confined Space Operation
		Less than 20 [0.79]	20 to 30 [0.79 to 1.18]	30 to 40 [1.18 to 1.57]	40 to 50 [1.57 to 1.97]	50 to 60 [1.97 to 2.36]	60+ [2.36+]	10 to 20 [0.39 to 0.78]	20 to 30 [0.78 to 1.18]									
89R40 9540 89B40 8315 89E40 8215 8415/8416 035-1 035-2 8732 6004-SW	9522-2	1	•			•		•	•	✓	✓	✓	✓				✓	
	9530-2	1		•		•		•	•	✓	✓	✓	✓				✓	
	9540-2	1			•		•		•	✓	✓	✓	✓				✓	
	9550-2	1				•		•	•	✓	✓	✓	✓				✓	
	89R20	6	•				•		•	✓	✓	✓	✓					
	89R32	6		•			•		•	✓	✓	✓	✓					
	89R40-010	6			•			•	•	✓	✓	✓	✓					
	89R40-025	6			•			•	•	✓	✓	✓	✓					
	89R50	6				•			•	✓	✓	✓	✓					
	89R63	6					•		•	✓	✓	✓	✓					
	89B20	12	•				•		•	✓	✓	✓	✓					
	89B32	12		•			•		•	✓	✓	✓	✓					
	89B40	12			•		•		•	✓	✓	✓	✓					
	89B50	12				•		•	•	✓	✓	✓	✓					
	89B63	12					•		•	✓	✓	✓	✓					
	8115/8116	17	•				•		•	✓	✓	✓	✓					
	8315/9316	17			•			•		✓	✓	✓	✓					
	89E20	21	•				•		•	✓	✓	✓	✓					
	89E32	21		•			•		•	✓	✓	✓	✓					
	89E40	21			•		•		•	✓	✓	✓	✓					
89E50	21				•		•	•	✓	✓	✓	✓						
89E63	21					•		•	✓	✓	✓	✓						
8015/8016	26	•				•		•	✓	✓	✓	✓						
8215/8216	26		•			•		•	✓	✓	✓	✓						
8415/8416	26			•		•		•	✓	✓	✓	✓						
035-125	30	•				•		•	✓	✓	✓	✓						
035-132	30		•			•		•	✓	✓	✓	✓						
035-140	30			•		•		•	✓	✓	✓	✓						
035-150	30				•	•		•	✓	✓	✓	✓						
035-225	30	•				•		•	✓	✓	✓	✓						
035-232	30		•			•		•	✓	✓	✓	✓						
035-240	30			•		•		•	✓	✓	✓	✓						
035-250	30				•	•		•	✓	✓	✓	✓						
8725	35	•						•	✓	✓	✓	✓			✓	✓		
8732	35		•					•	✓	✓	✓	✓			✓	✓		
8740	35			•				•	✓	✓	✓	✓			✓	✓		
8750	35								✓	✓	✓	✓			✓	✓		
6004-SW	40		N/A			•		•	✓	✓	✓	✓			✓	✓		

Color handles available. See pg. 7 for more info.



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PNEUMATIC POWER CYLINDERS

See pages MC-PPC-1 to 12 for more information



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HYDRAULIC POWER CLAMPS

See pages MC-HYD-1 to 14 for more information



PNEUMATIC POWER CLAMPS

Sizing and Application Chart

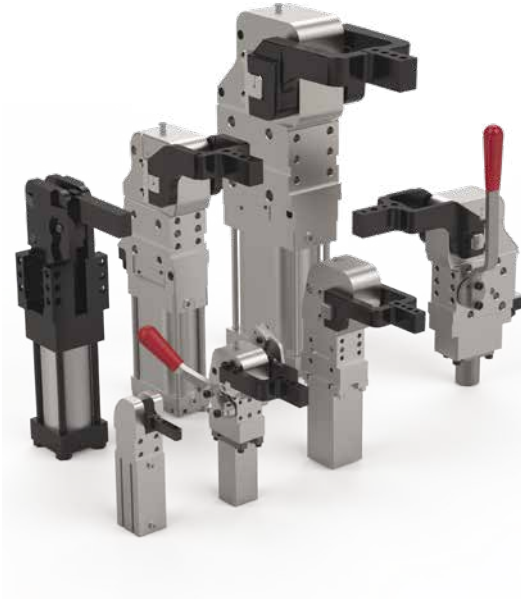
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Series	Page PC-PPC-#	Holding Torque at 5 bar Nm					Clamping Torque at 5 bar Nm					Piston Diameter mm						
		0 to 100	100 to 500	500 to 1000	1000 to 2000	2000 to 4000	0 to 100	100 to 500	500 to 1000	1000 to 2000	2000 to 4000	Less than 25	25	32	40	50	63	80
81L	1	●					●					●						
82L-4	5	●					●					●	●					
82L-2	15	●	●				●	●				●	●	●				
TCC-2	25	●					●								●	●		
82M-3E	28	●		●	●		●	●							●	●	●	
52H-3E	53			●														
870/871	63	●					●								●			
860/861	65		●					●								●		
890/891	65			●				●									●	
1000/1001	65			●				●	●								●	●
82D	67	●					●	●							●		●	
84A	75	●	●				●	●							●	●		

PNEUMATIC POWER CLAMPS

Sizing and Application Chart



Series	Page PC-PPC-#	Holding Torque at 5 bar Nm [ft-lb]					Clamping Torque at 5 bar Nm [ft-lb]					Piston Diameter mm [in]						
		0 to 100 [0 to 74]	100 to 500 [74 to 369]	500 to 1000 [369 to 738]	1000 to 2000 [738 to 1475]	2000 to 4000 [1475 to 2950]	0 to 100 [0 to 74]	100 to 500 [74 to 369]	500 to 1000 [369 to 738]	1000 to 2000 [738 to 1475]	2000 to 4000 [1475 to 2950]	Less than 25 [0.98]	25 [0.98]	32 [1.26]	40 [1.57]	50 [1.97]	63 [2.48]	80 [3.15]
81L	1	●					●				●							
82L-4	5	●					●				●	●						
82L-3E	13	●	●				●	●			●	●	●					
TCC-2	27	●	●				●	●						●	●			
82M-3E	27	●		●	●		●	●						●	●	●		
52H-3E	59			●														
870/871	69	●					●							●				
860/861	71		●					●							●			
890/891	71			●				●									●	
1000/1001	71			●				●									●	●
82D	73	●					●	●						●			●	
84A	81	●	●				●	●						●	●			

PNEUMATIC POWER CLAMPS

Sizing and Application Chart

Material		Weight Kg [lbs]	Air consumption per double stroke at 5 bar [72 psi] dm ³ [in ³]				Suitable Application Areas										Features				
Aluminum	Steel	0 to 2 [0 to 4.41] 2 to 4 [4.41 to 8.82] 4 to 6 [8.82 to 13.23] 6 to 8 [13.23 to 17.64] More than 8 [17.64]	0 to 0,5 [0 to 31] 0,5 to 1,0 [31 to 61] 1,0 to 2,0 [61 to 122] More than 2,0 [122]	Welding	Assembly	Dirty Environment	End Effectors	Machining	Duty Cycle	Adjustable Opening Angle	Inductive Sensors Available	Dual Arms	Tolerance Compensating	Manual Version Available	Center Arm	Lateral Arms	Toggle Locking				
●	●	●	●	⊗	●	○	●	●	○						✓		✓				
●	●	●	●	○	●	●	●	●	●	✓	✓			✓	✓	✓	✓				
●	●	●	●	●	●	●	●	●	●	✓	✓				✓	✓	✓				
●	●	●	●	●	●	●	●	●	●	✓	✓		✓		✓	✓	✓				
●	●	●	●	●	●	●	●	●	●	✓	✓			✓	✓	✓	✓				
●	●	●	●	●	●	●	●	●	●	✓	✓			✓	✓	✓	✓				
●	●	●	●	⊗	●	○	●	●	●						✓		✓				
●	●	●	●	⊗	●	○	●	●	●						✓		✓				
●	●	●	●	⊗	●	○	●	●	●						✓		✓				
●	●	●	●	⊗	●	○	●	●	●						✓		✓				
●	●	●	●	●	●	●	●	●	●		✓	✓					✓				
●	●	●	●	●	●	●	●	●	●		✓	✓	✓		✓		✓				

● Excellent/High ○ Fair/Medium ● Poor/Low ⊗ Not Recommended

PNEUMATIC PIN CLAMPS, PRECISION GUIDES

Sizing and Application Chart

Pin Clamps



Series	Page PC-HPC-#	Clamping Torque at 5 bar [72 psi] N [lbf]	Piston Ø mm [in]	Material	Weight Kg [lb]	Air Consumption per Double Stroke at 5 bar [72 psi] dm ³ [in ³]	Applications	Features
82P25-2	1	0 to 1000 [0 to 225]	25 [0.98]	Aluminum	0 to 2 [0 to 4.41]	0 to 0,5 [0 to 31]	Welding Assembly	Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking
82P30-3	5	1000 to 2000 [225 to 450]	30 [1.18]	Steel	2 to 4 [4.41 to 8.82]	0,5 to 1,0 [31 to 61]	Dirty Environment End Effectors Machining Duty Cycle	Tolerance Compensating Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking
82P35-3	5	2000 to 4000 [450 to 899]	35 [1.38]	Aluminum	0 to 0,5 [0 to 31]	1,0 to 2,0 [61 to 122]	Welding Assembly	Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking
82P50-720	11		50 [1.97]	Aluminum	0 to 0,5 [0 to 31]	0,5 to 1,0 [31 to 61]	Dirty Environment End Effectors Machining Duty Cycle	Tolerance Compensating Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking
82P63-720	11		63 [2.48]	Aluminum	0 to 0,5 [0 to 31]	0,5 to 1,0 [31 to 61]	Dirty Environment End Effectors Machining Duty Cycle	Tolerance Compensating Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking
82P50-1800	19		50 [1.97]	Aluminum	0 to 0,5 [0 to 31]	0,5 to 1,0 [31 to 61]	Dirty Environment End Effectors Machining Duty Cycle	Tolerance Compensating Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking
82U50-3	27		50 [1.97]	Aluminum	0 to 0,5 [0 to 31]	0,5 to 1,0 [31 to 61]	Dirty Environment End Effectors Machining Duty Cycle	Tolerance Compensating Inductive Sensors Dual Hooks Centering Pins Toggle Locking Self Locking

● Excellent/High ○ Fair/Medium ● Poor/Low ⊗ Not Recommended

Precision Guides



Series	Page PC-PGL-#	Stroke mm [in]	Lifting Force N [lbf]	Holding Force N [lbf]	Weight Kg [lb]	Air Consumption per Double Stroke at 5 bar [72 psi] dm ³ [in ³]	Applications
VV85G-15020	1	20 [0.79]	0 to 500 [0 to 112.4]	0 to 4000 [0 to 899]	13,2 [29.1]	0,7 [42.7]	Welding Assembly Dirty Environment End Effectors Machining Duty Cycle
VV85G-15040	1	40 [1.57]	0 to 500 [0 to 112.4]	0 to 4000 [0 to 899]	13,2 [29.1]	0,7 [42.7]	Welding Assembly Dirty Environment End Effectors Machining Duty Cycle

● Excellent/High ○ Fair/Medium ● Poor/Low ⊗ Not Recommended

SHEET METAL GRIPPERS

Product Features and Benefits



84N Accelerate® Press Shop Grippers

- Compact, lightweight and ultra fast actuation
- Straight, chisel, 90° and extended jaw options available
- Standard upper jaw openings up to 75°
- Adjustable jaw opening option available
- Zero protrusion fixed lower jaw (all models)
- Moveable lower jaw option (84N5)
- Fixed tip and adjustable tip models
- Flexible mounting options



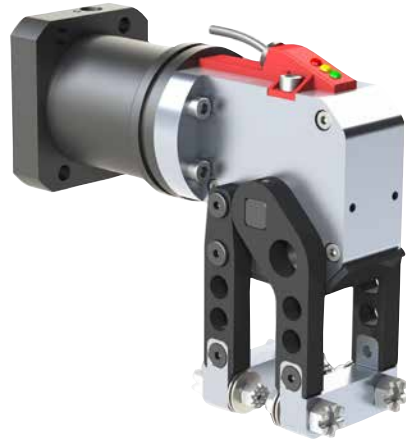
84A and 84L Cam-Actuated Grippers

- 5 styles with multiple jaw opening, points, and mounting options
- High speed material movement in restricted spaces
- Fixed and moveable lower jaw styles available
- Roller and cam principal, self-locking at end stop position



GR84 Enclosed Modular Mini-Clamp Toggle-Lock Gripper

- Offered with several different jaw and tip options
- Can be flange or cylinder mounted
- Easy field-adjustable jaw opening
- Toggle locking mechanism holds the part if air pressure is lost
- Enclosed design protects from contaminants



GR1 Modular Toggle-Lock Grippers

- 2 cylinder sizes, 15 and 20 Series
- Can be flange or cylinder mounted
- Offered with several different jaw opening and point options
- Toggle locking mechanism holds the part if air pressure is lost

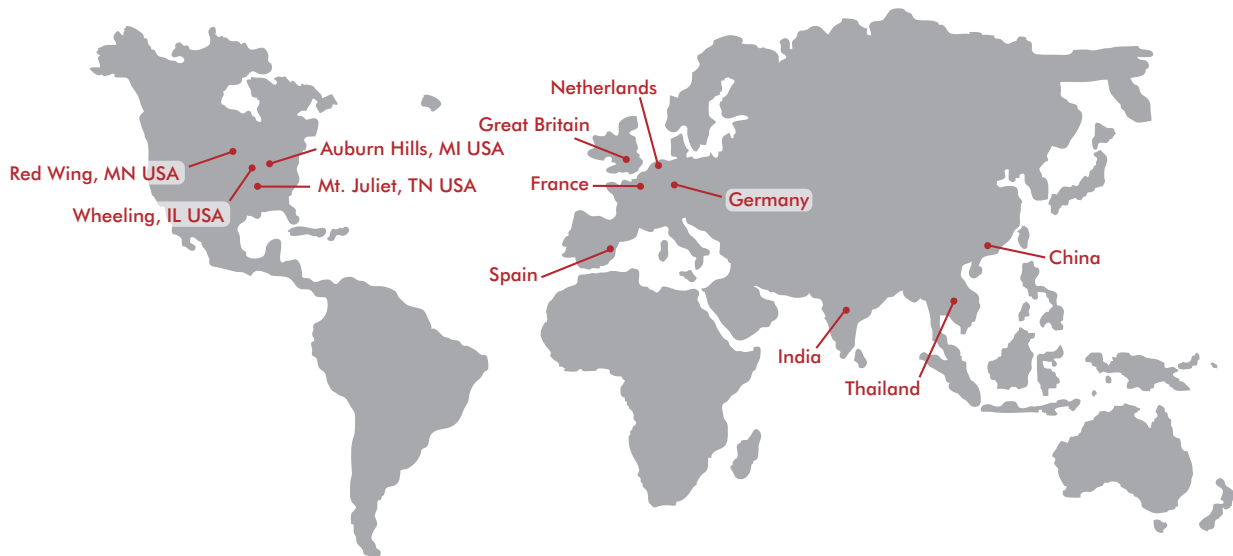


SHEET METAL GRIPPERS

Sizing and Application Chart

Series	Page #	Clamping Force @ 5bar [72psi] N [lbf]										Upper Jaw Opening Angles							Lower Jaw Motion		Lower Jaw Opening Angles					Other Features														
		Less than 100 [22]	100 to 250 [22.5 to 56]	250 to 500 [56 to 112]	500 to 750 [112 to 169]	750 to 1000 [169 to 225]	1000 to 1600 [225 to 360]	1600 to 2000 [360 to 360]	25°	30°	45°	50°†	60°	68°	72°	75°	76°	15°-75° (User Adjustable)	Fixed Lower Jaw	Moveable Lower Jaw	Symmetrical	0° (Fixed)	10°	15°	22°	30°	Cam-Actuated Mechanism	Toggle-Locking Mechanism	Fixed Lower Jaw	Moveable Lower Jaw	Symmetrical Jaw Movement	Chisel Jaw	90°/Right Angle Jaw	Double Tips Jaw Option	Single Tips Jaw Option	Right or Left Jaw Available	Adjustable Tips	High Temperature		
84N1	6					●			●	●	●			●				●									✓	✓		✓	✓	✓	✓	✓	✓					
84N2	8					●			●	●	●			●				●									✓	✓		✓	✓	✓	✓	✓	✓	✓				
84N5	10					●	●		●	●	●			●			●	●	●	●	●	●	●	●	●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
84A2*	20		●	●				●	●				●				●				●					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
84A3-3	24		●	●	●			●	●	●				●			●	●	●	●	●	●	●	●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
84A5-1	28					●	●		●					●			●	●	●	●	●	●	●	●	✓	✓	✓	✓		✓			✓			✓				
84L2-1	30	●											●				●				●				✓	✓				✓	✓	✓								
84L3-2	32	●											●				●				●				✓	✓				✓	✓	✓								
GR84-15	34	●	●						●		●						●	●	●	●	●	●	●		✓	✓			✓	✓			✓							
GR1-15	36	●	●					●	●	●							●	●	●	●	●	●	●		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
GR1-20	38	●							●								●	●	●						✓	✓	✓	✓		✓								✓		

*Clamping Force @ 6 bar [87 psi] †GR1-15-90F offers 90° of clearance, GR1-15-180 and GR1-20 offers 180° of clearance.



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