

Torque Reaction Arms



- Reduce Torque
- Counterbalance
- Maintain Perpendicularity

PRODUCT INDEX

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Accessories

*See pricing guide

CVA-10



CVA-10

Model	CVA-10
Max Torque	10 ft/lbs
Weight Range	1-10 lbs
Working Range	8"-28"
Tool Clamp	1"-2"

MULTI-HEAD TOOL HOLDER
P/N: 900246

-The CVA Series comes with a standard tool holder.

FAV-14



FAV-14

Model	FAV-14
Max Torque	10 ft/lbs
Weight Range	1-15 lbs
Working Range	19"-37"
Tool Clamp	1"-2"

MULTI-HEAD TOOL HOLDER
P/N: 900246
For models FAV-14

-The FAV Series comes with a
standard tool holder.

Light Duty Torque Reaction Arms



AR-40



VERTICAL ROTATION CLAMP
P/N: 100031

For use with Right Angle Nut Runners when fastening orientation requirement is horizontal only.

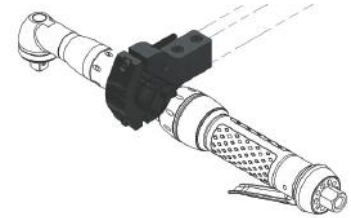
**Clamp is tool specific. Make and model of tool must be supplied with order.



PISTOL GRIP V-BLOCK
P/N: 100025

For use with Pistol Grip Tools when fastening orientation requirement is horizontal only.

V-block fits tool $\varnothing 1'' - 2.25''$



HORIZONTAL V-BLOCK
P/N: 100027

For use with Right Angle Nut Runners when fastening orientation requirement is vertical only.

V-block fits tool $\varnothing 1'' - 2.25''$



INVERSE MOUNTING KIT
P/N: 100050

Mounts arm overhead to free up workspace.



UPPER POLE CLAMP
P/N: 100051

Recommended accessory if the arm is frequently used at the top of its stroke (as indicated by the area highlighted red).

Model	AR-40	AR-40-M
Max Torque	40 ft/lbs	40 ft/lbs
Weight Range	1-10 lbs	5-15 lbs
Working Range	4.25"-27.25"	4.25"-27.25"
Tool Clamp	1"-2.25"	1"-2.25"

LR-40



VERTICAL ROTATION CLAMP
P/N: 100119

For use with Right Angle Nut Runners when fastening orientation requirement is horizontal only.

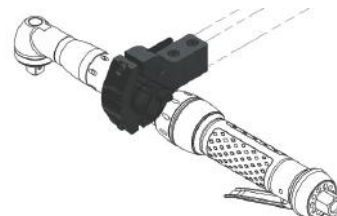
**Clamp is tool specific. Make and model of tool must be supplied with order.



PISTOL GRIP V-BLOCK
P/N: 100114

For use with Pistol Grip Tools when fastening orientation requirement is horizontal only.

V-block fits tool $\varnothing 1'' - 2.25''$



HORIZONTAL V-BLOCK
P/N: 100116

For use with Right Angle Nut Runners when fastening orientation requirement is vertical only.

V-block fits tool $\varnothing 1'' - 2.25''$



UPPER POLE CLAMP
P/N: 100051

Recommended accessory if the arm is frequently used at the top of its stroke (as indicated by the area highlighted red).



INVERSE MOUNTING KIT
P/N: 100050

Mounts arm overhead to free up workspace.

Model	LR-40	LR-40-M
Max Torque	40 ft/lbs	40 ft/lbs
Weight Range	1-10 lbs	5-10 lbs
Working Range	8"-31.25"	8"-31.25"
Tool Clamp	1"-2.25"	1"-2.25"

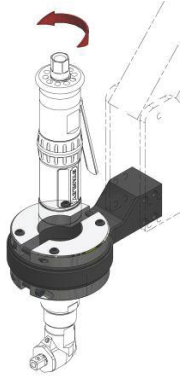
A-32



Model	A-32
Max Torque	50 ft/lbs
Weight Range	1-12 lbs
Working Range	11"-34"
Tool Clamp	1"-2.25"

-The A-32 Series comes with a standard tool holder.

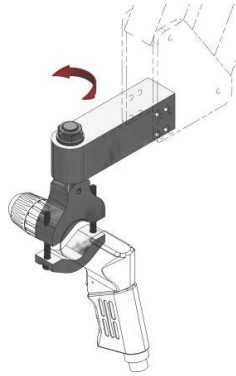
M-60 SERIES



VERTICAL ROTATION CLAMP
P/N: 658582

For use with Right Angle Nut Runners when fastening orientation requirement is horizontal only.

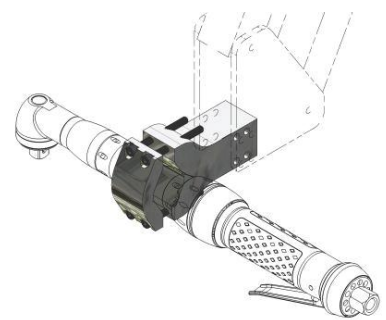
**Clamp is tool specific. Make and model of tool must be supplied with order.
**Max tool diameter is 2.37"



PISTOL GRIP V-BLOCK
P/N: 658581

For use with Pistol Grip Tools when fastening orientation requirement is horizontal only.

V-block fits tool $\varnothing 1" - 2.25"$



HORIZONTAL V-BLOCK
P/N: 658532

For use with Right Angle Nut Runners when fastening orientation requirement is vertical only.

V-block fits tool $\varnothing 1" - 2.25"$

MULTI-HEAD TOOL HOLDER
P/N:900245
For M-60

-The M-60 Series comes with a standard tool holder.

Model	M-60
Max Torque	80 ft/lbs
Weight Range	1-16 lbs
Working Range	22"-76"
Tool Clamp	1"-2.25"

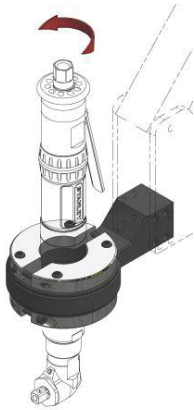


M-60

Heavy Duty Torque Reaction Arms



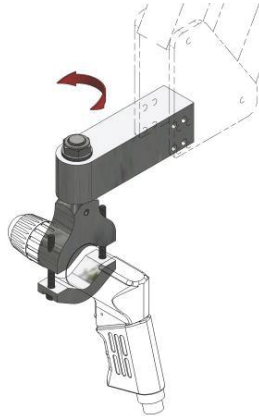
S-36



VERTICAL ROTATION CLAMP
P/N: 658582

For use with Right Angle Nut Runners when fastening orientation requirement is horizontal only.

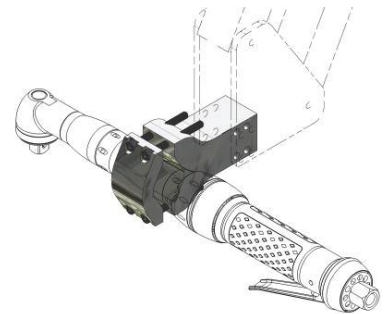
**Clamp is tool specific. Make and model of tool must be supplied with order.
**Max tool diameter is 2.37"



PISTOL GRIP V-BLOCK
P/N: 658581

For use with Pistol Grip Tools when fastening orientation requirement is horizontal only.

V-block fits tool $\varnothing 1" - 2.25"$



HORIZONTAL V-BLOCK
P/N: 658532

For use with Right Angle Nut Runners when fastening orientation requirement is vertical only.

V-block fits tool $\varnothing 1" - 2.25"$

MULTI-HEAD TOOL HOLDER
P/N:900245
For S-36

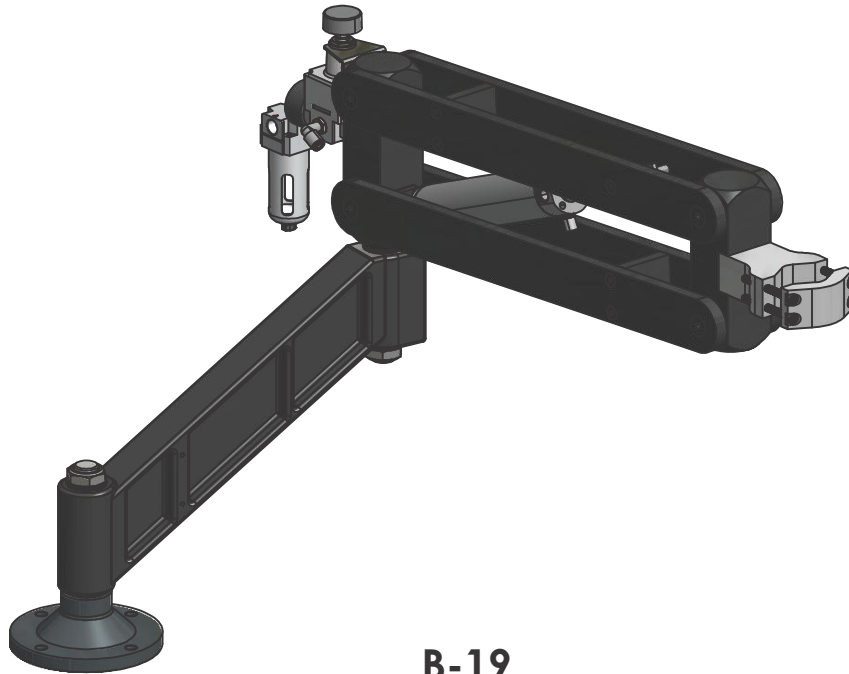
-The S-36 Series comes with a standard tool holder.

Model	S-36
Max Torque	80 ft/lbs
Weight Range	1-14 lbs. (*15-35 max)
Working Range	14"-51"
Tool Clamp	1"-2.25"

*S-36 Max Cylinders



B-19

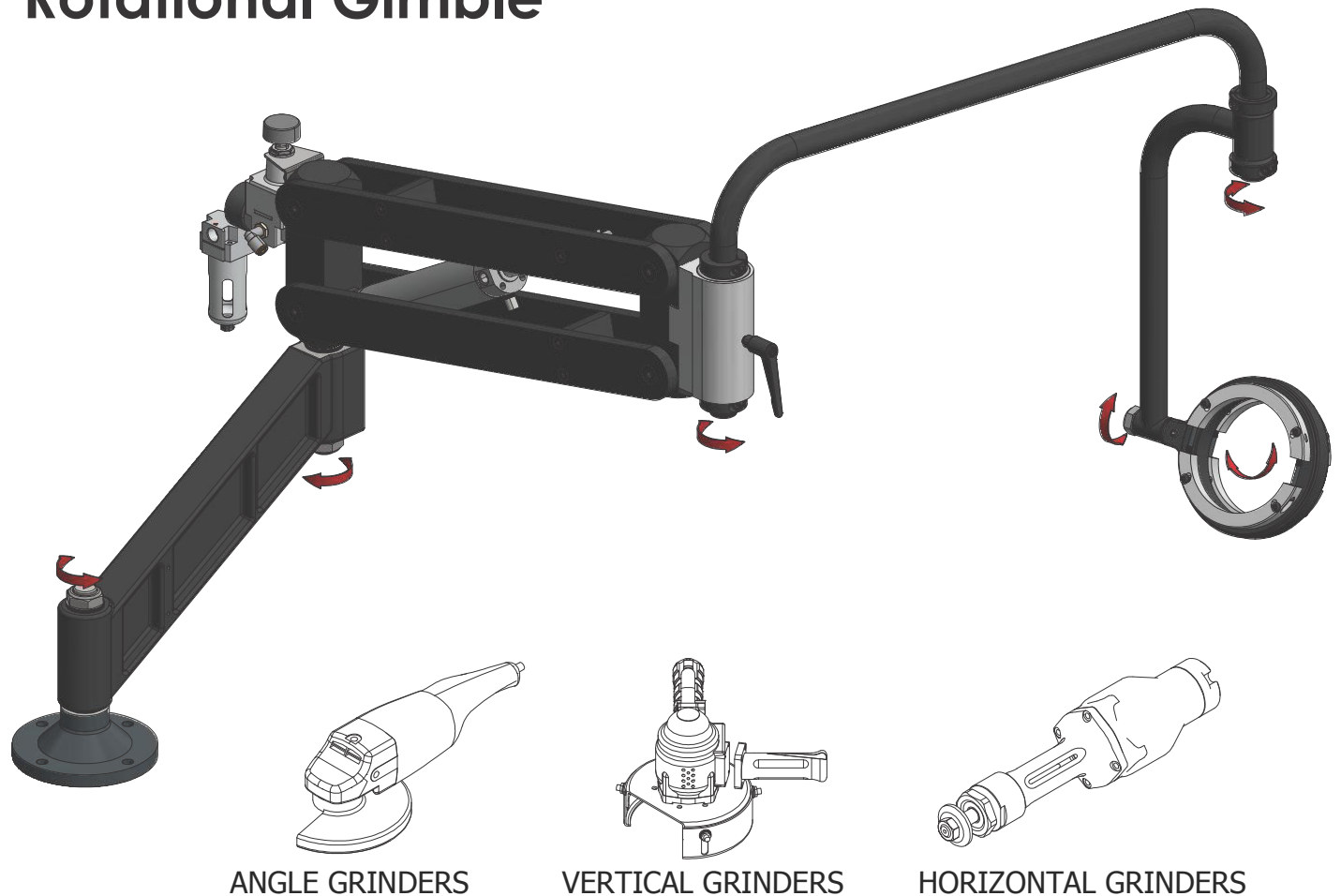


Model	B-19
Max Torque	100 ft/lbs
Weight Range	1-35 lbs
Working Range	3"-31"
Tool Clamp	1"-2.25"

-The B-19 Series comes with a standard tool holder.

B-19-RG

Rotational Gimble



Model	B-19-RG
Max Weight	25 lbs.
Horz. Working Range	1"-56"
Vert. Working Range	-3.4"-16.9"

Heavy Duty Torque Reaction Arms



B-19-RG Rotational Gimble Tool Mount

PN# 101400



FITS TOOLS WITH
TOOL BODY BETWEEN
Ø0"-2.625"

PN# 101100



FITS TOOLS WITH
TOOL BODY BETWEEN
Ø2.63"-3.625"

PN# 101200



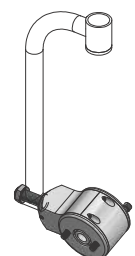
FITS TOOLS WITH
TOOL BODY BETWEEN
Ø3.63"-4.625"

PN# 101300



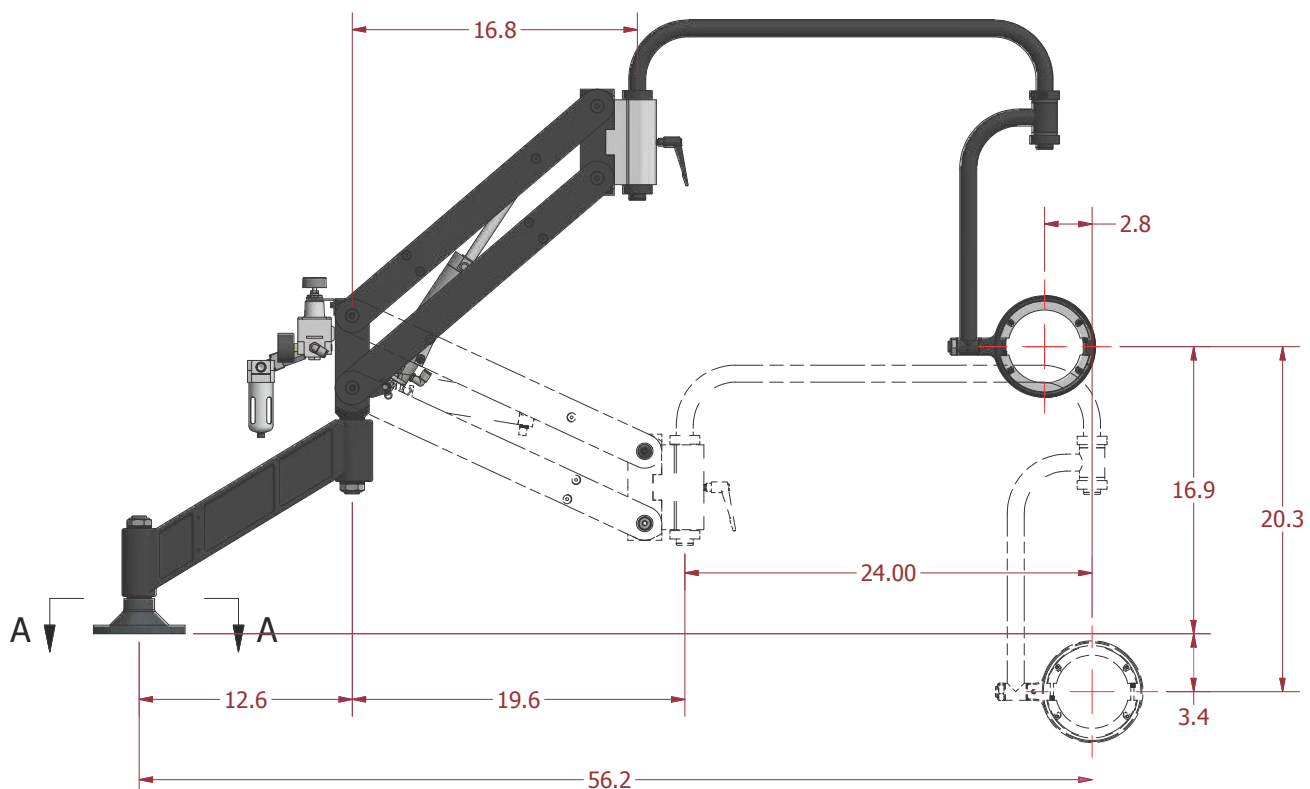
FITS TOOLS WITH
TOOL BODY BETWEEN
Ø4.63"-5.313"

PN# 101500



FITS MOST
VERTICAL GRINDERS

P/N	101400	101100	101200	101300	101500
Size Range	Ø0"-Ø2.625"	Ø2.63"-Ø3.375"	Ø3.38"-Ø4.625"	Ø4.63"-Ø5.375"	N/A



Heavy Duty Torque Reaction Arms



B-33



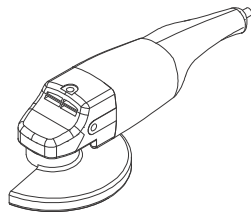
B-33

Model	B-33
Max Torque	100 ft/lbs
Weight Range	1-40 lbs
Working Range	10"-53"
Tool Clamp	1"-2.25"

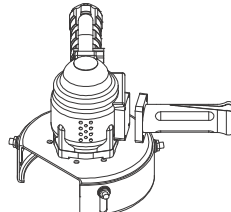
-The B-33 Series comes with a standard tool holder.

B-33-RG

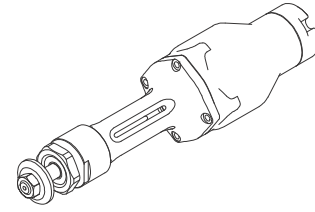
Rotational Gimble



ANGLE GRINDERS



VERTICAL GRINDERS



HORIZONTAL GRINDERS

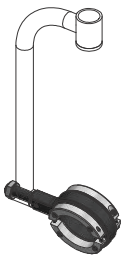
Model	B-33-RG
Max Weight	25 lbs.
Horz. Working Range	1"-72"
Vert. Working Range	-3.4"-31.9"

Heavy Duty Torque Reaction Arms



B-33-RG Rotational Gimble Tool Mount

PN# 101400



FITS TOOLS WITH
TOOL BODY BETWEEN
Ø0"-2.625"

PN# 101100



FITS TOOLS WITH
TOOL BODY BETWEEN
Ø2.63"-3.625"

PN# 101200



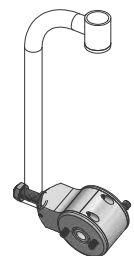
FITS TOOLS WITH
TOOL BODY BETWEEN
Ø3.63"-4.625"

PN# 101300



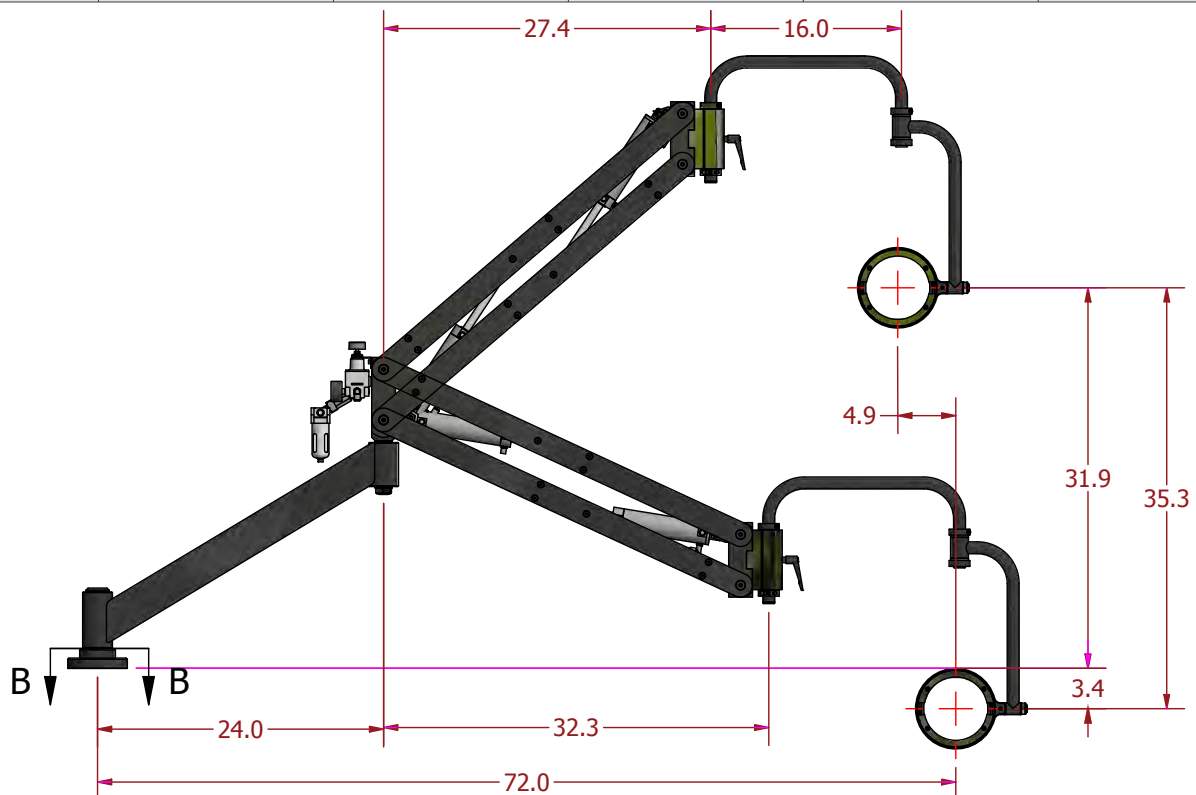
FITS TOOLS WITH
TOOL BODY BETWEEN
Ø4.63"-5.313"

PN# 101500

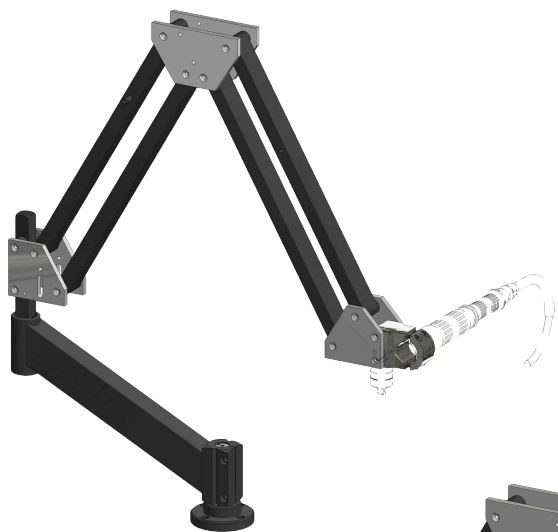


FITS MOST
VERTICAL GRINDERS

P/N	101400	101100	101200	101300	101500
Size Range	Ø0"-Ø2.625"	Ø2.63"-Ø3.375"	Ø3.38"-Ø4.625"	Ø4.63"-Ø5.375"	N/A



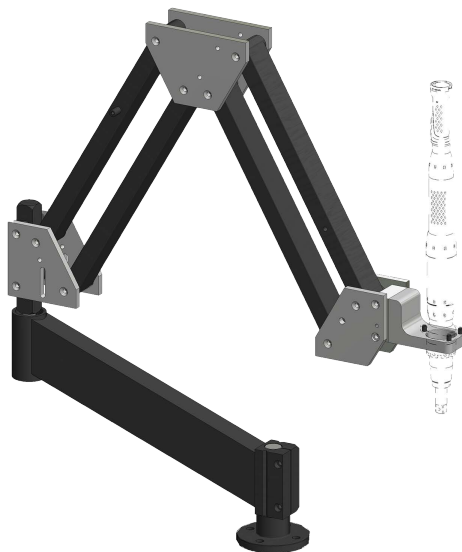
G-SERIES



G-30



G-60



G-36

Model	G-30	G-36	G-60
Max Torque	150 ft/lbs	400 ft/lbs	800 ft/lbs
Weight Range	5-15 (*15-50 max)	5-45 (*46-75 max)	15-65
Working Range	17"-73"	20"-78"	20"-84"

-Custom design tool holder is required with the G-Series

*G30-0105

*G45-1000

*G60 Max Cylinders

ERGONOMICS AND WORKSTATIONS



Torque Reaction systems and Posi-Control systems



The range



TORQUE REACTION ARMS (p.4 to 41)

A comprehensive range of torque reaction systems to decrease employee injuries and boost productivity.



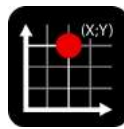
POSI CONTROL SYSTEM (p.42 to 56)

Error proofing and sequence control for zero-fault assembly processes. Management of automation devices on the assembly line.

Pictograms



Health protection



Error proofing



Production Quality



Improved ergonomics



Maximum productivity



High Quality standards



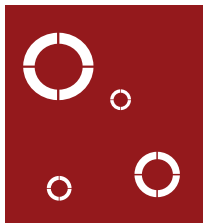
Compactness

Torque Reaction systems

The widest range of reaction arms to meet demanding requirements.

- Page 4 to 9 • Linear arms [BA Series]
- Page 10 to 11 • Traveling arms [BA...C Series]
- Page 12 to 19 • Articulated arms [BA...R Series]
- Page 20 to 21 • Articulated, air-balanced pantograph arms [BA...G Series]
- Page 22 to 29 • Carbon fiber telescoping arms [DMF/DMFi Series]
- Page 30 to 41 • Suspended arms [Slider Series]
- Page 42 • Position Control Systems
- Page 43 to 45 • DPCTouch Controller
- Page 46 to 47 • Linear arms [BA...PC series]
- Page 48 to 49 • Articulated arms [BA...RPC Series]
- Page 50 to 53 • Carbon fiber telescoping arms [DMF...PC Series]
- Page 54 to 56 • Suspended arms [Slider BA...PC/RPC Series]
- Page 57 to 59 • Special arms





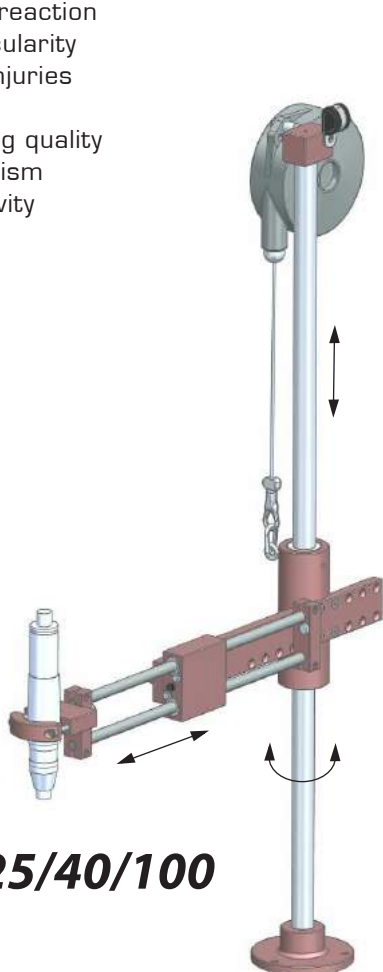
Linear Arms

BA Series

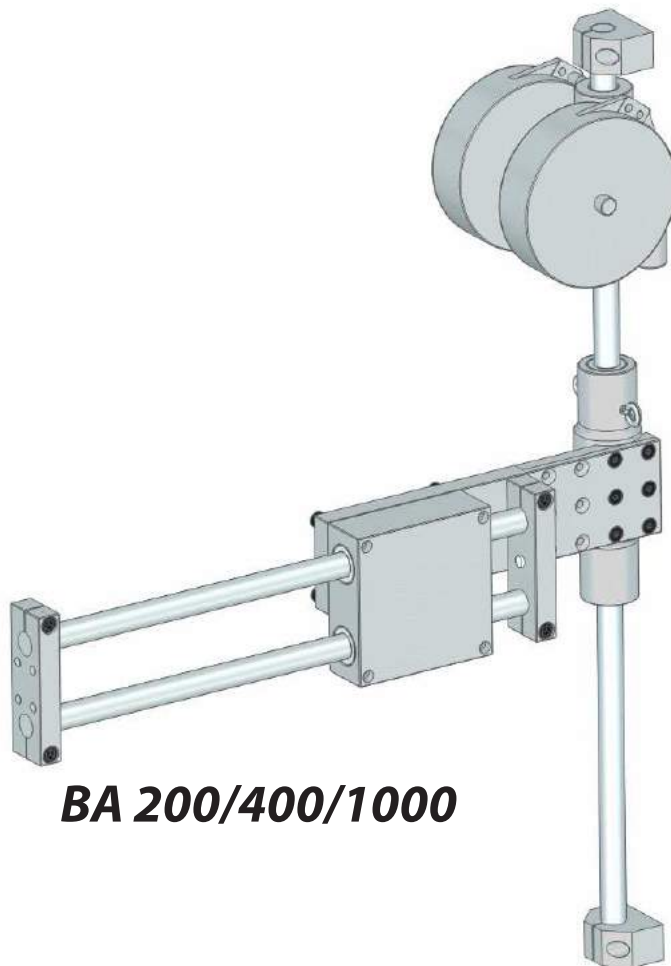


BA Series: Smooth, perpendicular tightening operations up to 100 Nm (74 lbf.ft).

- Eliminate torque reaction
- Ensure perpendicularity
- Avoid repetitive injuries
- Prevent fatigue
- Improve tightening quality
- Reduce absenteeism
- Improve productivity



BA 5/12/25/40/100



BA 200/400/1000

Model	Torque max		Tool Ø		Stroke		Load max		Code
	Nm	(lbf.ft)	mm	(in)	mm	(in)	kg	(lbs)	
BA 5 3D Drawing	5	(3.7)	25 - 42	(1.0 - 1.7)	200	(7.9)	0.9	(2)	4-5201500
BA 12 3D Drawing	12	(8.8)	27 - 50	(1.1 - 2.0)	225	(8.9)	1.2	(2.6)	4-5201501
BA 25 3D Drawing	25	(18.4)	28 - 52	(1.1 - 2.1)	250	(9.8)	2.2	(4.8)	4-5201502
BA 40 3D Drawing	40	(29.5)	28 - 52	(1.1 - 2.1)	295	(11.6)	2.2/4*	(4.8/8.8*)	4-5201503
BA 100 3D Drawing	100	(73.7)	28 - 52	(1.1 - 2.1)	325	(12.8)	3.5/6*	(7.7/13.2*)	4-5201504

Higher capacity with additional balancer. **Code : 4-5200143.** See page 6.

Model	Torque max		Stroke		Load max		Code
	Nm	(lbf.ft)	mm	(in)	kg	(lbs)	
BA 200	200	(148)	345	(14)	8	(17.6)	4-5201505
BA 400	400	(295)	400	(16)	12	(26.5)	4-5201093
BA 1000	1000	(738)	-	-	-	-	on request

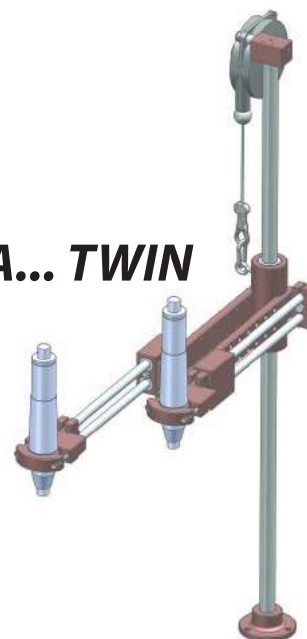
BA 200/400/1000 are delivered without clamps or floor posts, and are non-anodized.

Linear Arms

BA...TWIN Series

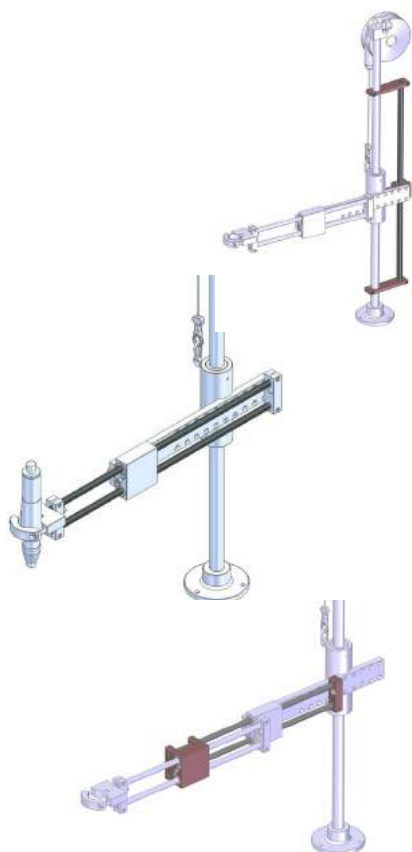
BA...TWIN: An ideal solution when two screwdrivers are needed in a limited workspace.

BA... TWIN



Model	Torque max		Tool Ø		Stroke		Load max		Code
	Nm	(lbf.ft)	mm	(in)	mm	(in)	kg	(lbs)	
BA 12 T	12	(8.8)	27 - 42	(1.1 - 1.7)	225	(8.9)	2	(4.4)	4-5201506
BA 25 T	25	(18.4)	28 - 52	(1.1 - 2.1)	250	(9.8)	3	(6.6)	4-5201507
BA 40 T	40	(29.5)	28 - 52	(1.1 - 2.1)	295	(11.6)	4	(8.8)	4-5201508
BA 100 T	100	(73.8)	28 - 52	(1.1 - 2.1)	330	(13)	6	(13.2)	4-5201509

BA Accessories



Anti rotation clamps

For	Code
BA 5	4-5200348
BA 12 & 25	4-5200116
BA 40 & 100	4-5200117

Extended slides

For	Stroke mm	Stroke (in)	Code
BA 12	+ 130	(+5.1)	4-5200120
BA 25	+ 130	(+5.1)	4-5200720
BA 40	+ 170	(+6.7)	4-5200122
BA 100	+ 200	(+7.9)	4-5200123

Double slides

For	Stroke mm	Stroke (in)	Code
BA 12	+ 230	(+9)	4-5200124
BA 25	+ 210	(+8.3)	4-5200125
BA 40	+ 295	(+12)	4-5200126
BA 100	+ 330	(+13)	4-5200127



Linear arms

BA Accessories



Inverse mounting kits

For	Code
BA 5	4-5200385
BA 12 & 25	4-5200128
BA 40 & 100	4-5200129



Additional balancing kits

For	Arm max load kg	Code (lbs)	Code
BA 40	4	(8.8)	4-5201566
BA 100	6	(13)	4-5201566



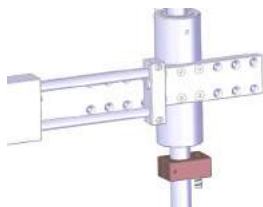
Auto rest position kits

For	Code
BA 5 & 12	4-5200118
BA 25 & 40	4-5200119



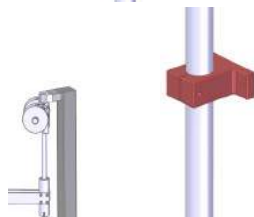
Quick change clamps

For	Adapter code	Clamp code
BA 12	4-5201109	4-5201003
BA 25	4-5201110	4-5200017
BA 40	4-5201111	4-5200017



Height adjusting clamps

For	Code
BA 5	4-5200421
BA 12 & 25	4-5200422
BA 40 & 100	4-5200423



Pole upper mounting clamps

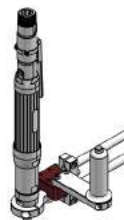
For	Code
BA 12 & 25	4-5200130
BA 40 & 100	4-5200131

Floor posts

For	Code
BA 100/200/400	4-5201096
BA 1000	4-5201097

Tool interfaces for BA 100/200/400

For	Code
BA 200	4-5201105
BA 400	4-5201106
BA 100/E34/E44 Series (Stanley)	4-5201124
BA 200/E45/E55 Series (Stanley)	4-5201125



Linear arms

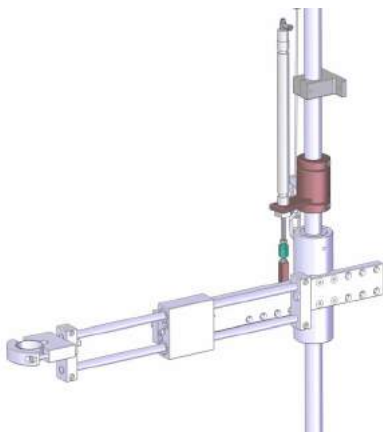
BA Accessories

Downward Assistance Kits

Downward assistance kits provide substantial comfort and productivity increases. Since they require no effort from the operator they are ideal for self-tapping applications.

The BAPER system features a built-in collet that allows the system to be used at any height. The Easy Push system operates at a preset height by using a mechanical stop.

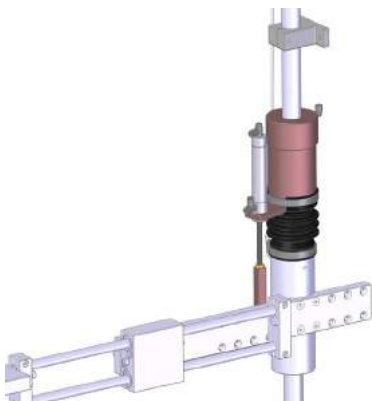
EASY PUSH



Model	For	Pushing force kg	(lbs)	Stroke mm	(in)	Type	Code
EP 12P	BA 12	5	(11)	125	(4.9)	Pneumatic	4-5200099
EP 25P	BA 25	9	(19.8)	160	(6.3)	Pneumatic	4-5200102
EP 40/100P Jack 16	BA 40 & 100	9	(19.8)	200	(7.9)	Pneumatic	4-5200103
EP 40/100P Jack 20	BA 40 & 100	15	(33)	200	(7.9)	Pneumatic	4-5200144
EP 100P Jack 25	BA 100	25	(55.1)	200	(7.9)	Pneumatic	4-5200145
EP 12E	BA 12	5	(11)	125	(4.9)	Electric	4-5200838
EP 25E	BA 25	9	(19.8)	160	(6.3)	Electric	4-5200839
EP 40/100E Jack 16	BA 40 & 100	9	(19.8)	200	(7.9)	Electric	4-5200840
EP 40/100E Jack 20	BA 40 & 100	15	(33)	200	(7.9)	Electric	4-5200841
EP 100E Jack 25	BA 100	25	(55.1)	200	(7.9)	Electric	4-5200842
Easy Push Cable/GX							4-5200843
Easy Push cable MD							4-5210010
Easy Push Cable/DELVO							4-5200844
Cable without connector (for 5/9 kg pushing force)							4-5200845
Cable without connector (for 15/25 kg pushing force)							4-5200846
U3-D Interface for GX screwdrivers							4-1041888

EASY PUSH kits are delivered without cable.

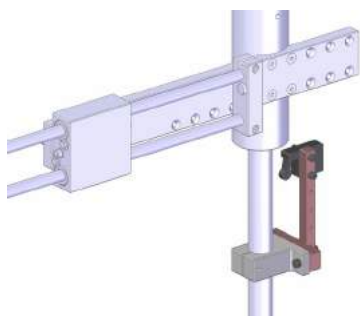
BAPER



Model	For	Pushing force kg	(lbs)	Type	Code
BAPER 12P	BA 12	5	(11)	Pneumatic	4-5200095
BAPER 25P	BA 25	8	(17.6)	Pneumatic	4-5200096
BAPER 40/100P	BA 40 & 100	8	(17.6)	Pneumatic	4-5200097
BAPER 12E	BA 12	5	(11)	Electric	4-5200830
BAPER 25E	BA 25	8	(17.6)	Electric	4-5200831
BAPER 40/100E	BA 40 & 100	8	(17.6)	Electric	4-5200832
BAPER Cable/GX					4-5200833
BAPER cable MD					4-5210011
BAPER Cable/DELVO					4-5200834
Cable without connector					4-5200835
U3-D Interface for GX screwdrivers					4-1041888

Electric BAPER kits are delivered without cable.

Safety kit



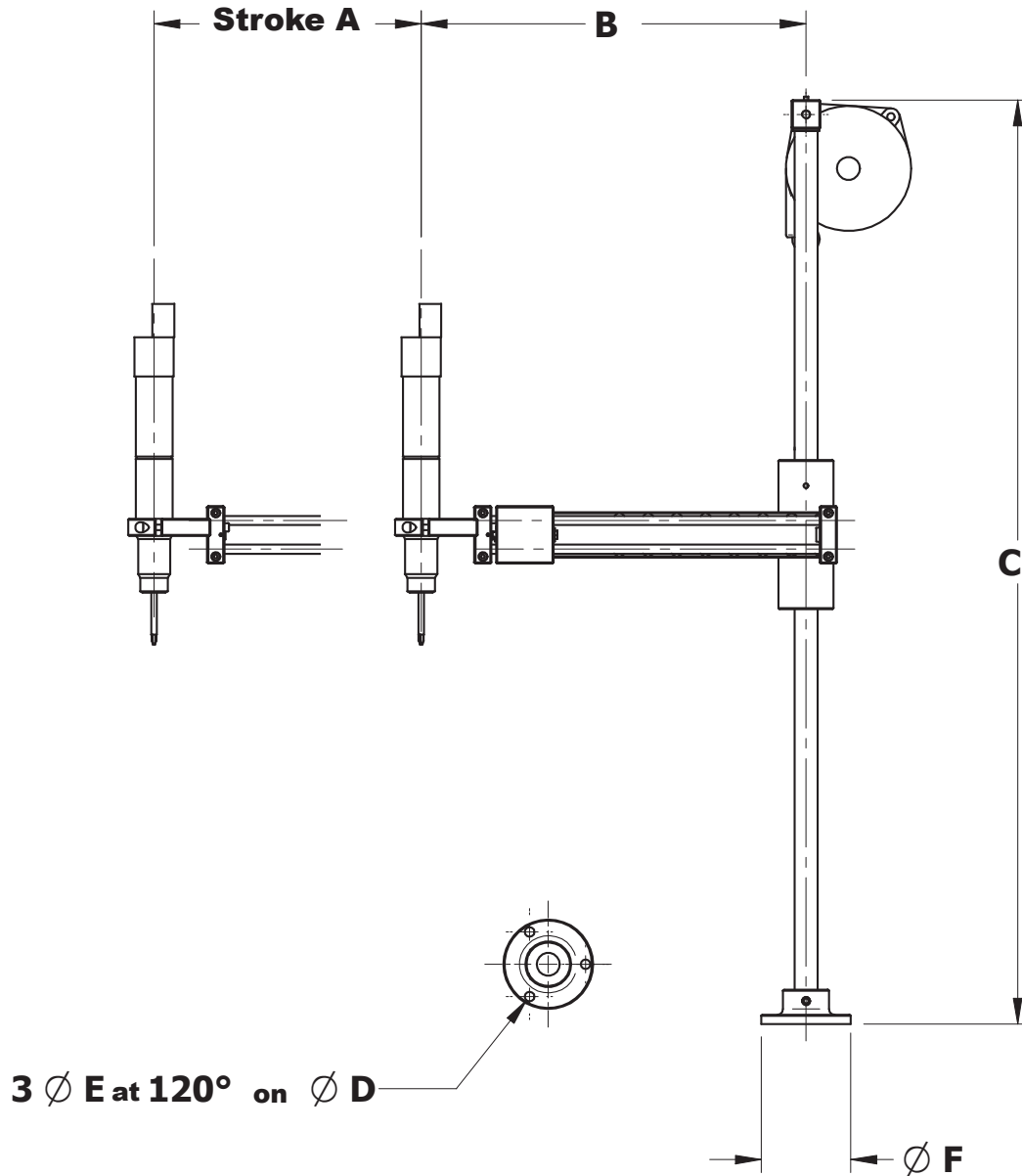
For	Code
BA 12 & 25	4-5200134
BA 40 & 100	4-5200135

The safety kit disables the downward assistance until the powerbit is in contact with the screw. This eliminates a potential pinch point.



Linear arms

BA 5 to 100 Dimensions

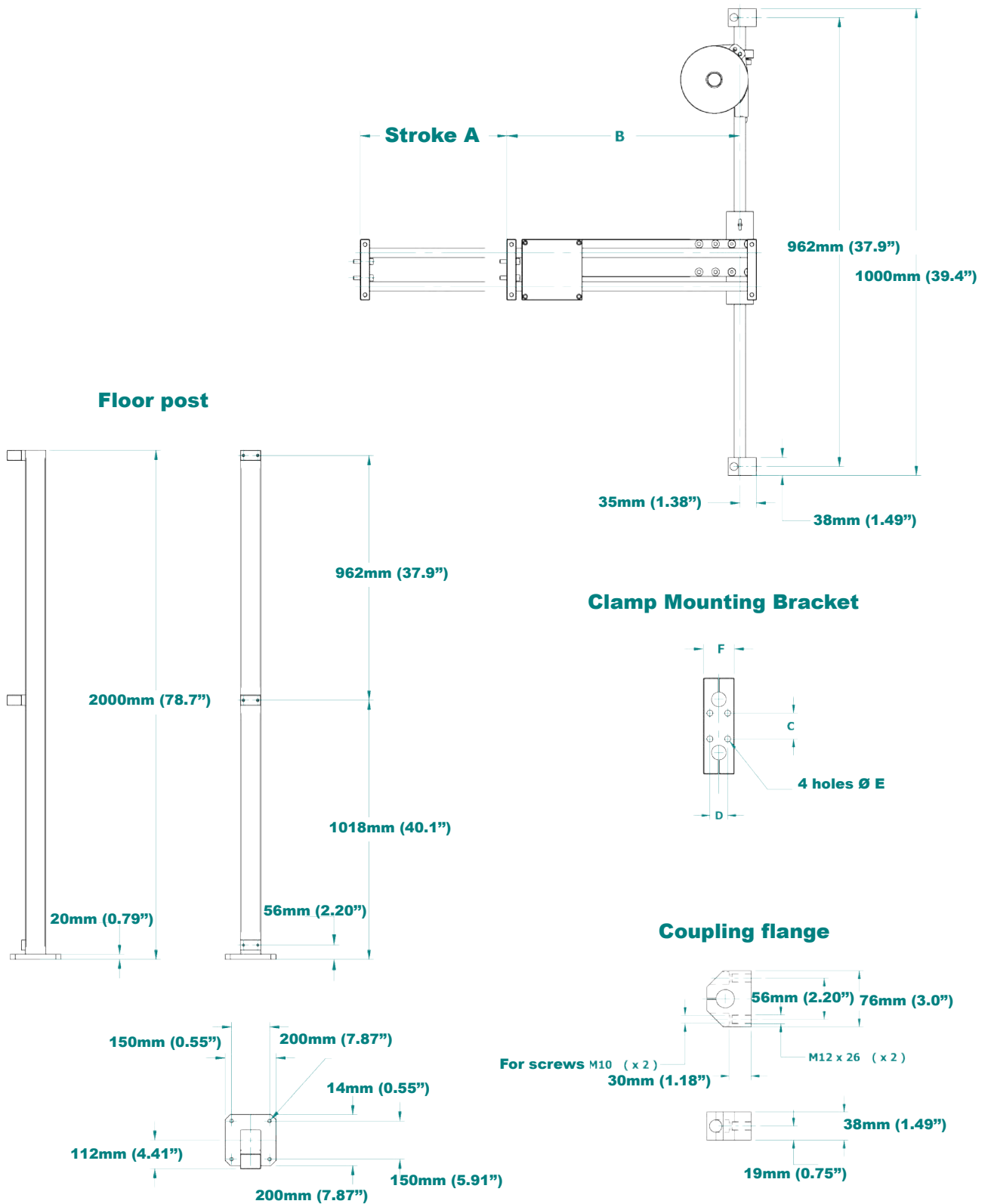


BA Dimensions

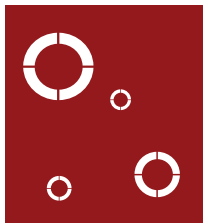
Model	Stroke A		B min		B max		C		D		E		F	
	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)
BA 5	200	(7.9)	222	(8.7)	302	(11.9)	705	(27.8)	65	(2.56)	8.5	(0.33)	78	(3.1)
BA 12	225	(8.9)	186	(7.3)	336	(13.2)	805	(31.7)	65	(2.56)	8.5	(0.33)	78	(3.1)
BA 25	250	(9.8)	221	(8.7)	396	(15.6)	908	(35.8)	65	(2.56)	8.5	(0.33)	78	(3.1)
BA 40	295	(11.6)	260	(10.2)	460	(18.1)	1008	(39.7)	100	(3.94)	8.5	(0.33)	118	(4.7)
BA 100	325	(12.8)	315	(12.4)	515	(20.3)	1008	(39.7)	126	(4.96)	10.5	(0.41)	148	(5.8)

Linear arms

BA 200 / 400 Dimensions



Model	Stroke A		B min		B max		C	D	E	F				
	mm	(in)	mm	(in)	mm	(in)								
BA 200	349	(13.7)	430	(16.9)	500	(19.7)	35	(1.38)	24	(0.94)	8.2	(0.32)	42	(1.65)
BA 400	390	(15.4)	326	(12.8)	406	(16.0)	40	(1.57)	28	(1.10)	12.2	(0.48)	52	(2.05)



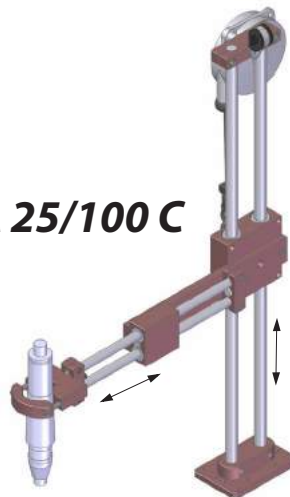
Traveling arms

BA...C Series

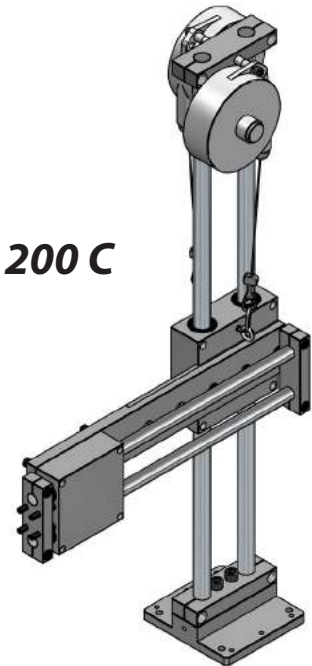


BA...C Series: Designed to be mounted on a horizontal rail.
Making it ideal for tightening operations over large surfaces.

BA 25/100 C



BA 200 C

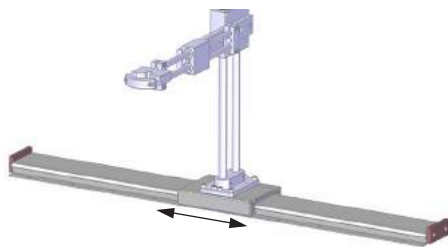


Model	Max torque		Tool Ø (in)		Stroke (in)		Max tool load		Code
	mm	(lbf·ft)	mm	(in)	mm	(in)	kg	(lbs)	
BA 25 C	25	18.4	28-52	(1.1-2.1)	250	(9.8)	2.2	(4.9)	4-5201510
BA 100 C**	100*	74*	28-52	(1.1-2.1)	325	(12.8)	3	(6.6)	4-5200433
BA 200 C	200	148	not included	not included	350	(13.8)	8	(17.6)	4-5200723

Delivered without horizontal rail.

* Max torque is 50 Nm (37 lbf·ft) if the arm is mounted on horizontal rail.

** Compatible accessories: extended slides, double slides, auto rest position, quick change clamps (see pages 5 and 6).



Rails BA25/BA100C

Model	Length		Stroke		Code
	mm	(in)	mm	(in)	
Guiding rail	600	(23.6)	420	(46.5)	4-5200294
Guiding rail	1000	(39.4)	820	(32.2)	4-5200295
Guiding rail	1500	(59.1)	1320	(52)	4-5200296
Guiding rail	2000	(78.7)	1820	(71.7)	4-5200297

Longer lengths available on request.

Rails for BA100C available on request.

Inverse mounting kit

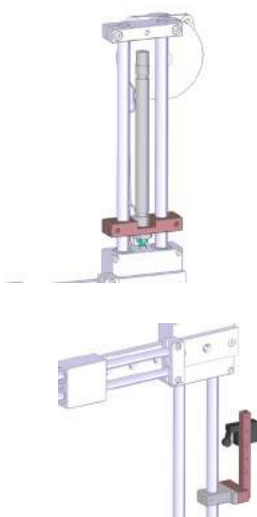
For	Code
BA 25 C	4-5200811
BA 100 C	Standard

Downward assistance kit

Model	Length		Stroke		Type	Code
	mm	(in)	mm	(in)		
EP 25P	9	(19.8)	160	(6.3)	Pneumatic	4-5200452
EP 25E	9	(19.8)	160	(6.3)	Electric	4-5200454
EP 100P	9	(19.8)	200	(7.9)	Pneumatic	4-5200453
EP 100E	9	(19.8)	200	(7.9)	Electric	4-5200455

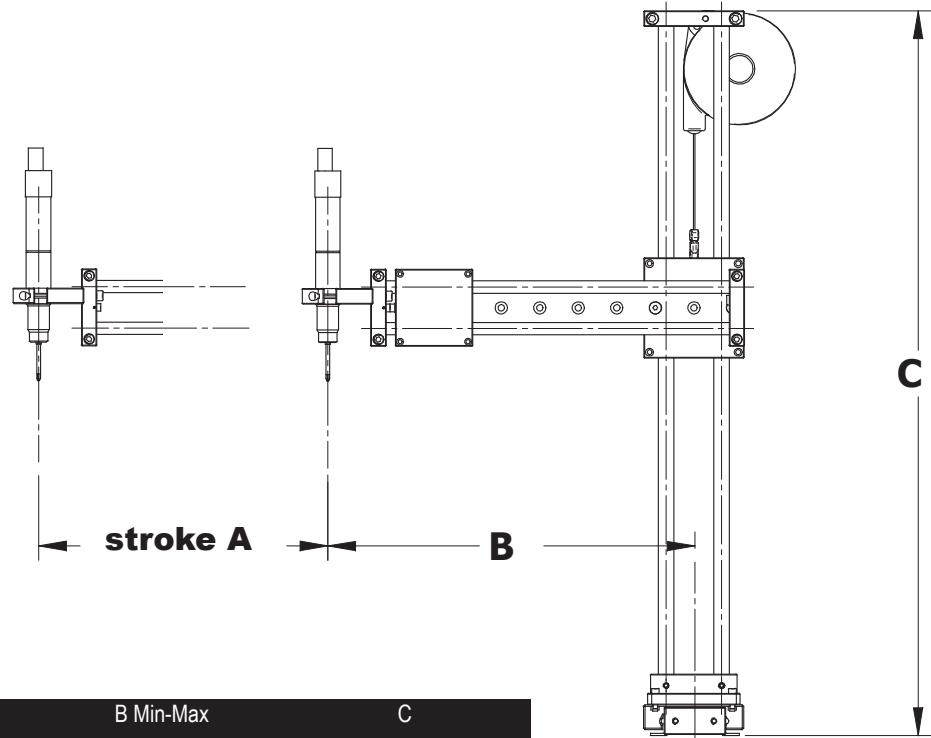
Safety kit

For	Code
BA 25 C	4-5200390
BA 100 C	4-5200391



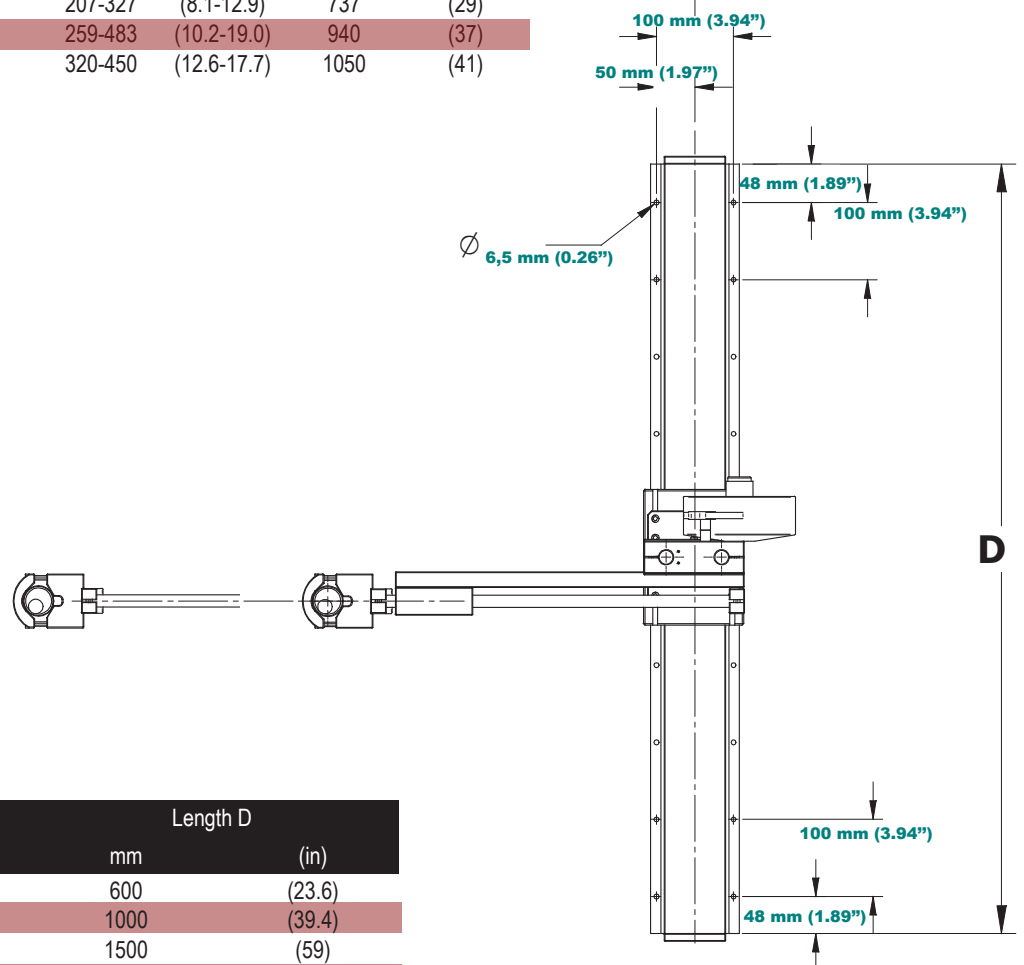
Traveling arms

BA...C Dimensions



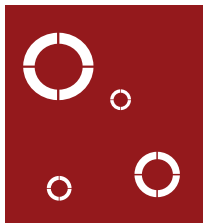
Dimensions

Model	Stroke A		B Min-Max		C	
	mm	(in)	mm	(in)	mm	(in)
BA 25 C	250	(9.8)	207-327	(8.1-12.9)	737	(29)
BA 100 C	325	(12.9)	259-483	(10.2-19.0)	940	(37)
BA 200 C	350	(13.8)	320-450	(12.6-17.7)	1050	(41)



Rails

Stroke		Length D	
mm	(in)	mm	(in)
420	(16.5)	600	(23.6)
820	(32.3)	1000	(39.4)
1320	(52)	1500	(59)
1820	(71.7)	2000	(78.7)



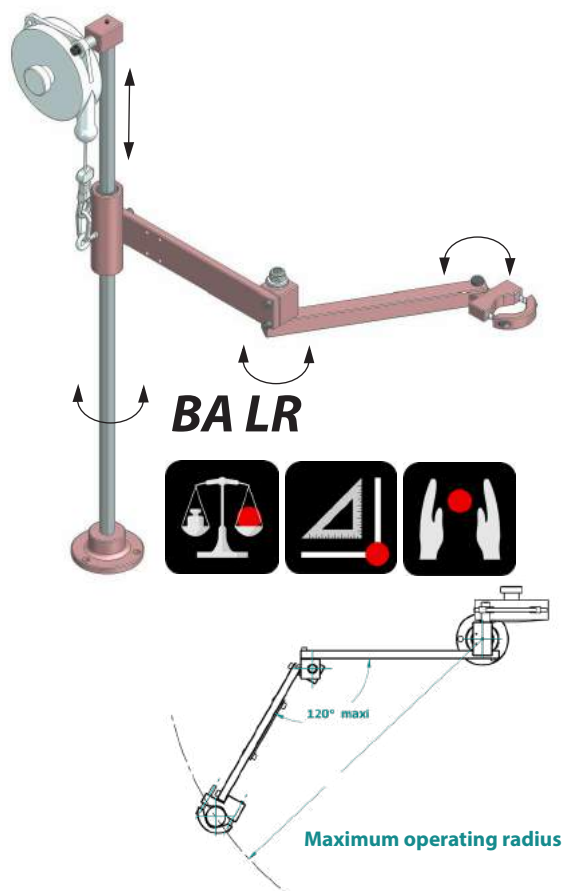
Articulated reaction arms

BA...R Series

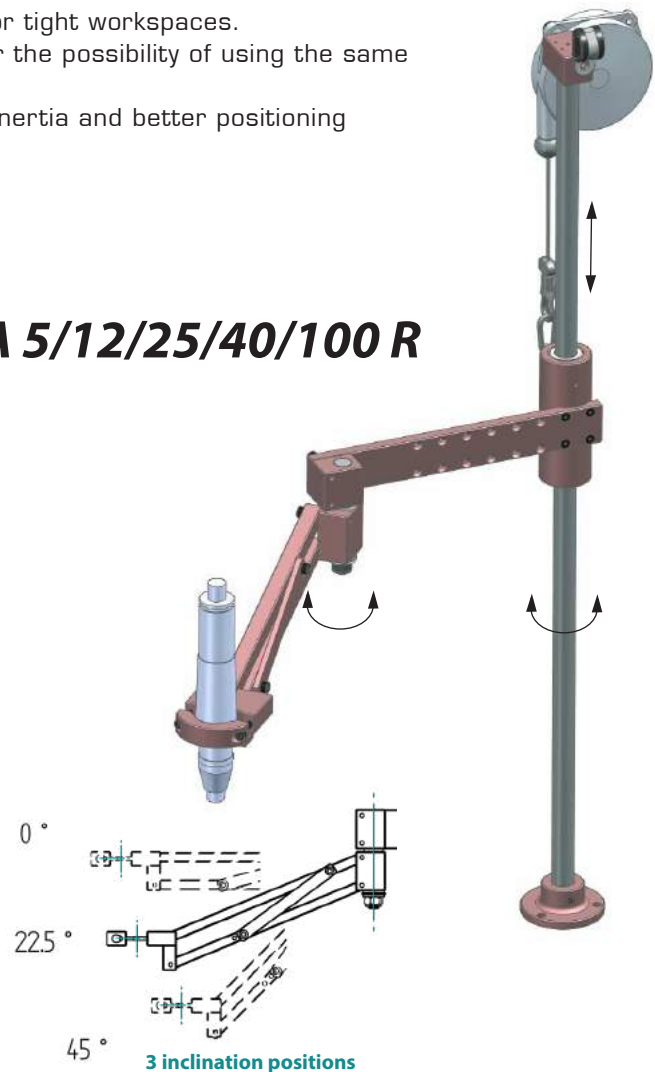


BA...R Series: The rotating, articulated design creates a highly flexible work station. Because it swivels and folds like a human arm, it is recommended for tight work areas.

- An optimum balance of size and performance - ideal for tight workspaces.
- Economical and versatile - multiple clamp choices offer the possibility of using the same arm with straight, pistol, and angle drivers.
- High operator comfort - the articulated arm has less inertia and better positioning accuracy.



BA 5/12/25/40/100 R

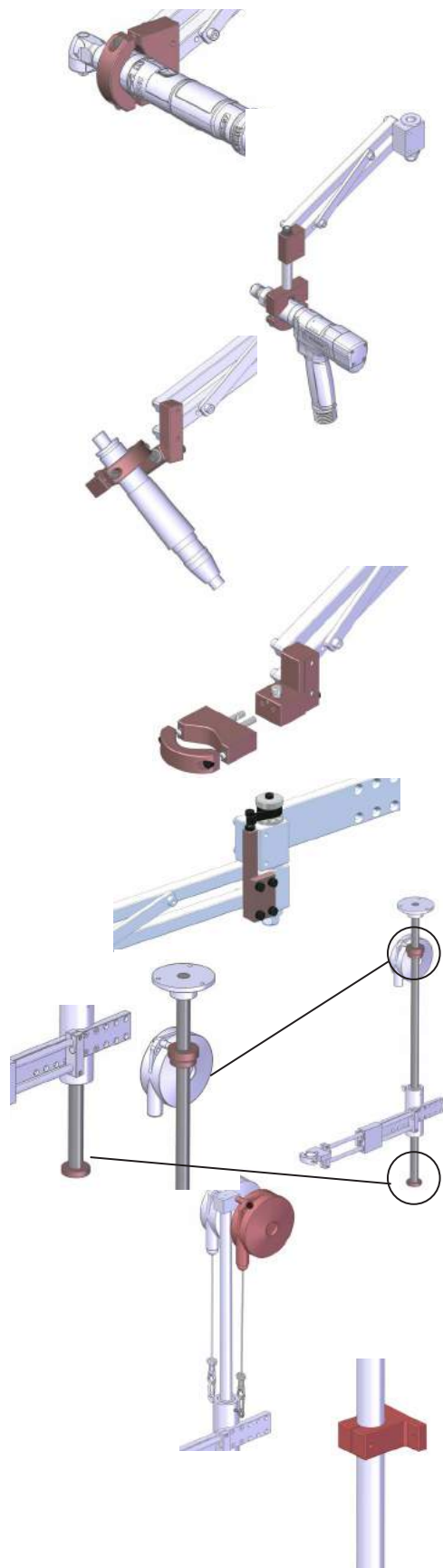


Model	Max torque		Tool Ø		Max tool load		Max radius		Code
	Nm	(lbf-ft)	mm	(in)	kg	(lbs)	mm	(in)	
BA LR	-	-	25-42	(0.9-1.7)	0.9	(1.9)	450	(17.7)	4-5201512
BA 5 R	5	(3.7)	25-42	(0.9-1.7)	0.9	(1.9)	420	(16.5)	4-5201513
BA 12 R	12	(8.9)	27-50	(1.1-1.9)	1.20	(2.7)	450	(17.7)	4-5201514
BA 12 R	12	(8.9)	27-50	(1.1-1.9)	1.00	(2.2)	600	(23.6)	4-5201515
BA 25 R	25	(18.4)	28-52	(1.1-2.1)	2.20	(4.9)	445	(17.5)	4-5201516
BA 25 R	25	(18.4)	28-52	(1.1-2.1)	1.90	(4.2)	600	(23.6)	4-5201517
BA 25 R	25	(18.4)	28-52	(1.1-2.1)	1.50	(3.3)	800	(31.5)	4-5201518
BA 40 R	40	(29.5)	28-52	(1.1-2.1)	2.2-4*	(4.9-8.8*)	630	(24.8)	4-5201519
BA 40 R	40	(29.5)	28-52	(1.1-2.1)	2-3.5*	(4.4-7.7*)	800	(31.5)	4-5201520
BA 40 R	40	(29.5)	28-52	(1.1-2.1)	1.8-3*	(4.0-6.6*)	1000	(39.4)	4-5201521
BA 100 R	100	(73.8)	28-52	(1.1-2.1)	3.5-6*	(7.7-13*)	715	(28.1)	4-5201522
BA 100 R	100	(73.8)	28-52	(1.1-2.1)	3-5*	(6.6-11*)	900	(35.4)	4-5201523
BA 100 R	100	(73.8)	28-52	(1.1-2.1)	3	(6.6)	1100	(43.3)	4-5201524

* With additional balancer - **Code : 4-5200143.**
Delivered with standard clamp for straight tool.

Articulated reaction arms

BA...R Accessories



Clamp for angle nutrunner

For	mm	Tool Ø (in)	Code
BA 12 R	27-50	(1.1-1.9)	4-5200089
BA 25 & 40 R	28-52	(1.1-2.1)	4-5200090
BA 100 R	28-52	(1.1-2.1)	4-5200091

Clamp for pistol tool

For	mm	Tool Ø (in)	Code
BA 12 R	27-50	(1.1-1.9)	4-5200087
BA 25 & 40 R	28-52	(1.1-2.1)	4-5200088

2 axis clamp

For	mm	Tool Ø (in)	Code
BA 12 R	27-50	(1.1-1.9)	4-5200093
BA 25 & 40 R	28-52	(1.1-2.1)	4-5200094

Quick change clamp

For	Adaptater code	Code
BA 12 R	4-5200847	4-5201003
BA 25 R	4-5200848	4-5200017
BA 40 R	4-5200848	4-5200017

Auto rest spring

For	Code
BA 5/12 R	4-5200849
BA 25 R	4-5200850
BA 40 R	4-5200851

Inverse mounting kit

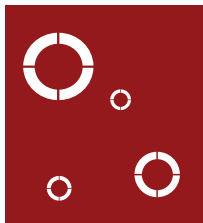
For	Code
BA 5 R	4-5200385
BA 12 & 25 R	4-5200128
BA 40 & 100 R	4-5200129

Additional balancing kit

For	Arm max load (kg)	(lbs)	Code
BA 40 R	4	(8.8)	4-5200143
BA 100 R	6	(13.2)	4-5200143

Pole upper clamp

For	Interface	Code
BA 12 & 25 R	two Ø 4.3 mm (0.17") at 45 mm (1.8") from pole axis	4-5200130
BA 40 & 100 R	two Ø 5.3 mm (0.2") at 60 mm (2.4") from pole axis	4-5200131



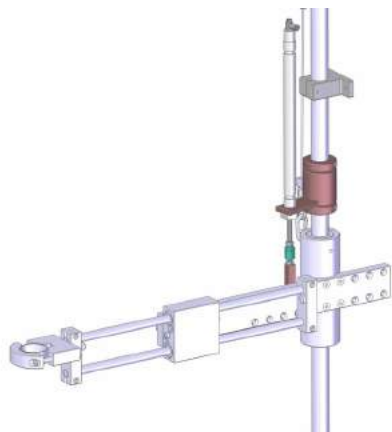
Articulated reaction arms

BA...R Accessories

Downward assistance kits

Downward assistance kits provide substantial comfort and productivity increases. Since they require no effort from the operator they are ideal for self-tapping applications.

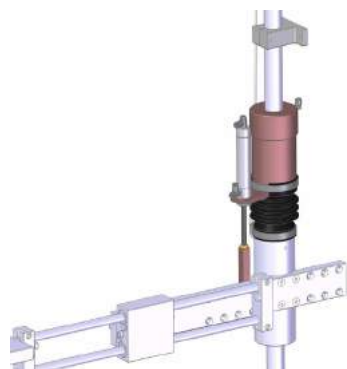
The BAPER system features a built-in collet that allows the system to be used at any height. The Easy Push system operates at a preset height by using a mechanical stop.



EASY PUSH

Model	For	Pushing force kg	(lbs)	Stroke mm	(in)	Type	Code
EP 12P	BA 12 R	5	(11)	125	(4.9)	Pneumatic	4-5200099
EP 25P	BA 25 R	9	(19.8)	160	(6.3)	Pneumatic	4-5200102
EP 40/100P	BA 40 & 100 R	9	(19.8)	200	(7.9)	Pneumatic	4-5200103
EP 12E	BA 12 R	5	(11)	125	(4.9)	Electric	4-5200838
EP 25E	BA 25 R	9	(19.8)	160	(6.3)	Electric	4-5200839
EP 40/100E	BA 40 & 100 R	9	(19.8)	200	(7.9)	Electric	4-5200840
Easy Push Cable/GX							4-5200843
Easy Push cable MD							4-5210010
Easy Push Cable/DELVO							4-5200844
Cable without connector							4-5200845
U3-D Interface for GX screwdrivers							4-1041888

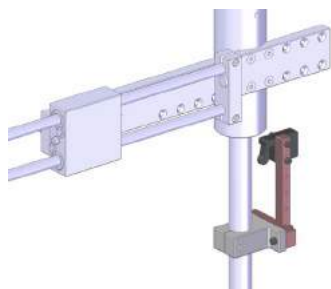
EASY PUSH kits are delivered without cable.



BAPER

Model	For	Pushing force kg	(lbs)	Type	Code
BAPER 12P	BA 12 R	5	(11)	Pneumatic	4-5200095
BAPER 25P	BA 25 R	8	(17.6)	Pneumatic	4-5200096
BAPER 40/100P	BA 40 & 100 R	8	(17.6)	Pneumatic	4-5200097
BAPER 12E	BA 12 R	5	(11)	Electric	4-5200830
BAPER 25E	BA 25 R	8	(17.6)	Electric	4-5200831
BAPER 40/100E	BA 40 & 100 R	8	(17.6)	Electric	4-5200832
BAPER Cable/GX					4-5200833
BAPER Cable MD					4-5210011
BAPER Cable/DELVO					4-5200834
Cable without connector					4-5200835
U3-D Interface for GX screwdrivers					4-1041888

Electric BAPER kits are delivered without cable.



Safety kit

Model	For	Code
Safety kit	BA 12 & 25 R	4-5200134
Safety kit	BA 40 & 100 R	4-5200135

The safety kit allows to avoid activation of downward assistance before powerbit gets in contact with the screw.

Articulated reaction arms

BA...R high torque



BA 180 R



BA 200/500 R



BA 180 R

Model	Max torque		Max tool load		Max radius		Code
	Nm	(lbf-ft)	kg	(lbs)	mm	(in)	
BA 180 R/1200	180	(133)	6	(13.2)	1200	(47.2)	4-5201095
BA 180 R/1500	180	(133)	4	(8.8)	1500	(59.1)	4-5200827

Delivered without tool clamp, floor post and not anodized.



BA 200 R / 500 R

Model	Max torque		Max tool load		Max radius		Code
	Nm	(lbf-ft)	kg	(lbs)	mm	(in)	
BA 200 R	200	(148)	20	(44)	2000	(78.7)	4-5200828
BA 500 R	500	(369)	40	(88)	2000	(78.7)	4-5200829
BA 500 R/2500	500	(369)	30	(66.1)	2500	(98.4)	4-5283106
BA 500 R/3000	500	(369)	40	(88)	3000	(118)	4-5283107

Delivered without tool clamp.
Higher capacity on request.



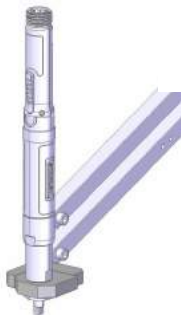
Articulated reaction arms

BA...R high torque accessories



BA 180 R equipped with optional floor post

The BA 180 R can be mounted directly on your structure or to an optional post mounted on the floor.



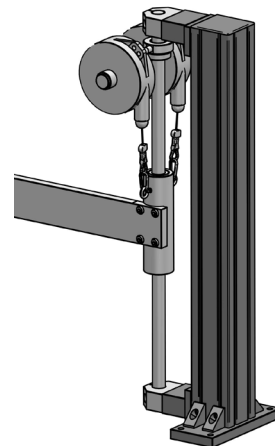
Arm/power tools interface for straight and angular tools with BA180R

Code : 4-5201108.

Note : please provide screwdriver model details.

Table mount post BA200/BA180R

Code : 4-5201098.



BA200/400 and 180R Floor Post

Code : 4-5201096.

Pneumatic brake with optional rotary clamp



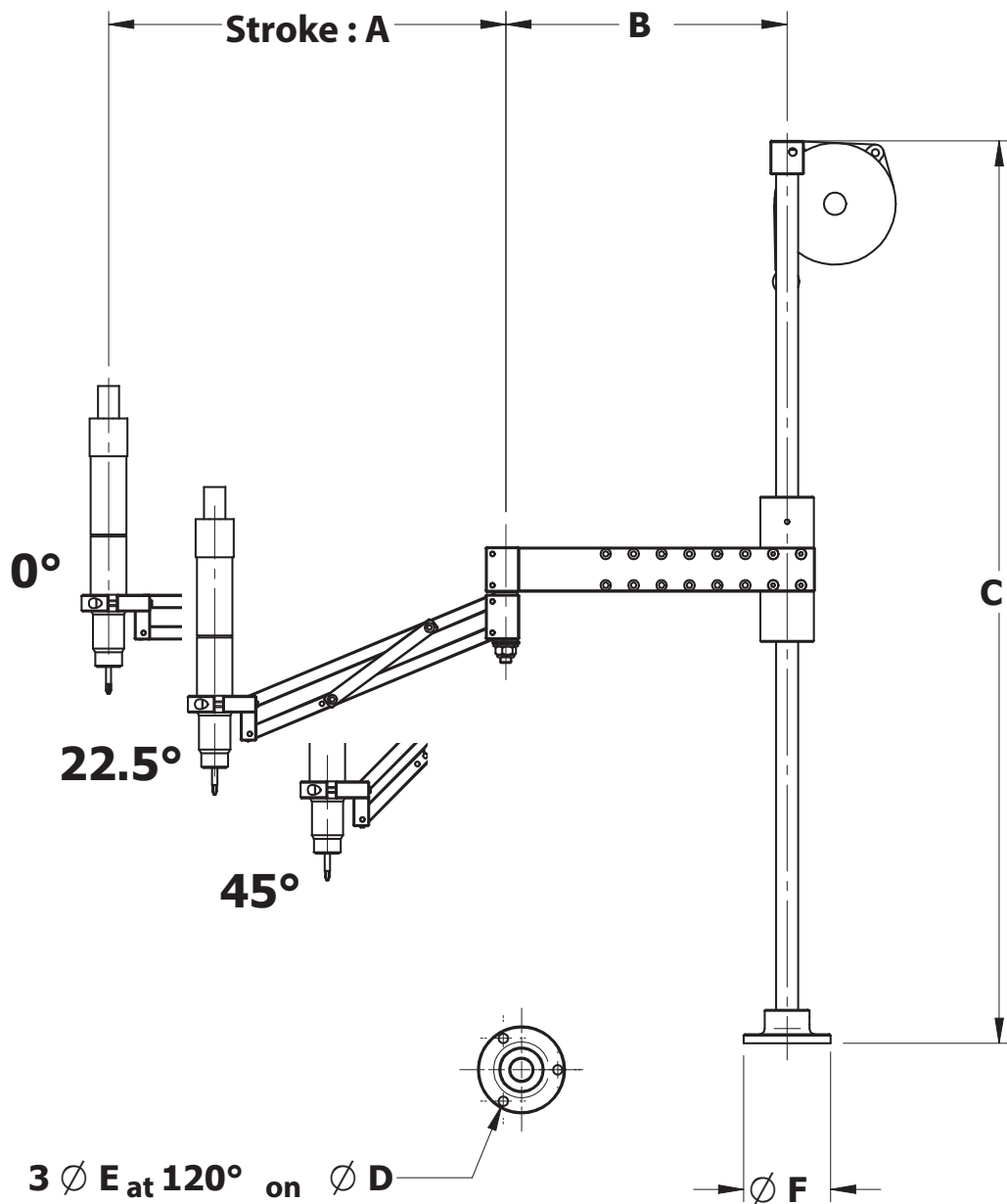
BA 200R/500R

Numerous options are available :

- pneumatic brake
- rotary clamp
- controller base plate
- remote start handle

Articulated reaction arms

BA...R 5 to 100 Dimensions



BA...R dimensions

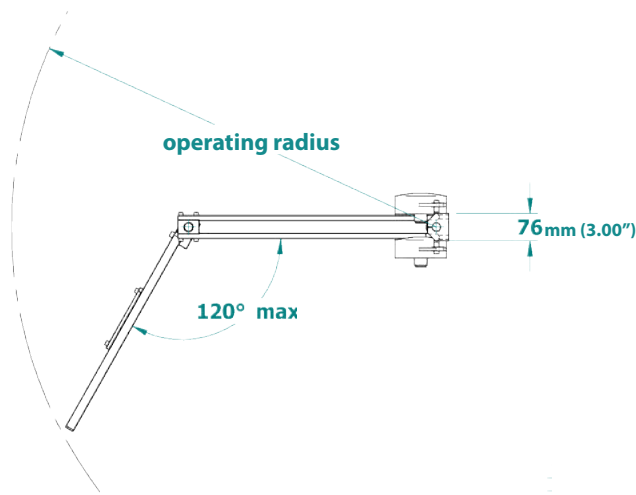
Model	A 0°		A 22.5°		A 45°		B Min		B Max		C		Operating radius at 22.5°	
	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)
BA 5 R	259	(10.2)	243	(9.6)	192	(7.6)	132	(5.2)	212	(8.4)	705	(27.8)	420	(16.5)
BA 12 R	279	(11)	261	(10.3)	209	(8.2)	102	(4)	252	(9.9)	808	(31.8)	450	(17.7)
BA 12 R / 600	332	(13.1)	310	(12.2)	247	(9.7)	332	(13.1)	357	(14.1)	808	(31.8)	600	(23.6)
BA 25 R	296	(11.7)	278	(10.9)	227	(8.9)	95	(3.7)	245	(9.7)	908	(35.8)	460	(18.1)
BA 25 R / 600	358	(14.1)	336	(13.2)	271	(10.7)	305	(12)	330	(13)	908	(35.8)	600	(23.6)
BA 25 R / 800	483	(19)	452	(17.8)	360	(14.2)	417	(16.4)	442	(17.4)	908	(35.8)	800	(31.5)
BA 40 R	414	(16.3)	387.5	(15.3)	310.5	(12.2)	150	(5.9)	350	(13.8)	1008	(39.7)	650	(25.6)
BA 40 R / 800	503	(19.8)	470	(18.5)	374	(14.7)	415	(16.3)	415	(16.3)	1008	(39.7)	800	(31.5)
BA 40 R / 1000	640	(25.2)	597	(23.5)	471	(18.5)	520	(20.5)	520	(20.5)	1008	(39.7)	1000	(39.4)
BA 100 R	462	(18.2)	433	(17.1)	351	(13.8)	205	(8.1)	405	(15.9)	1008	(39.7)	730	(28.7)
BA 100 R / 900	564	(22.2)	528	(20.8)	425	(16.7)	470	(18.5)	520	(20.5)	1008	(39.7)	900	(35.4)
BA 100 R / 1100	694	(27.3)	648	(25.5)	517	(20.4)	585	(23)	635	(25)	1008	(39.7)	1100	(43.3)



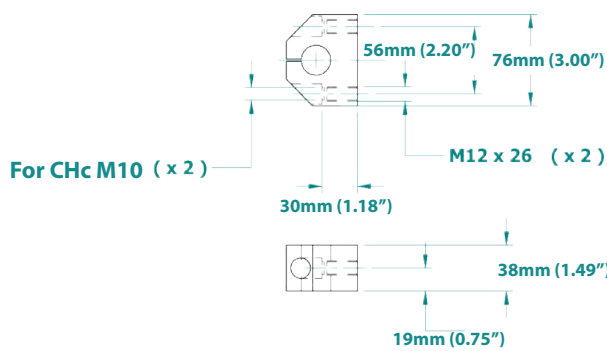
Articulated reaction arms

BA 180 R Dimensions

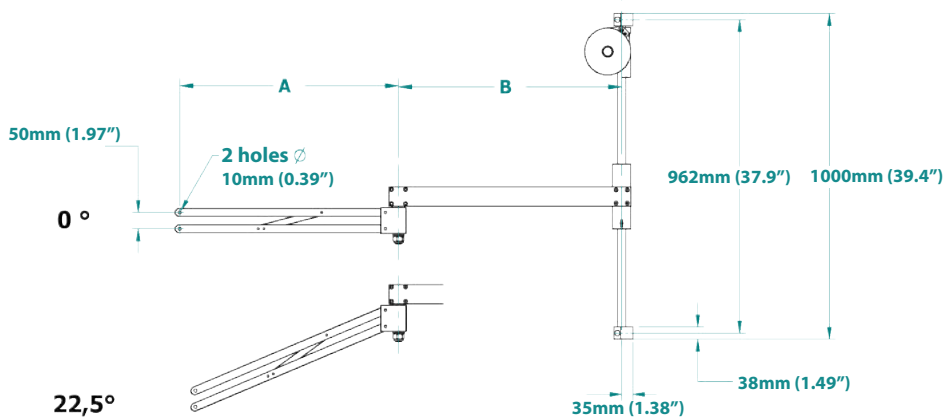
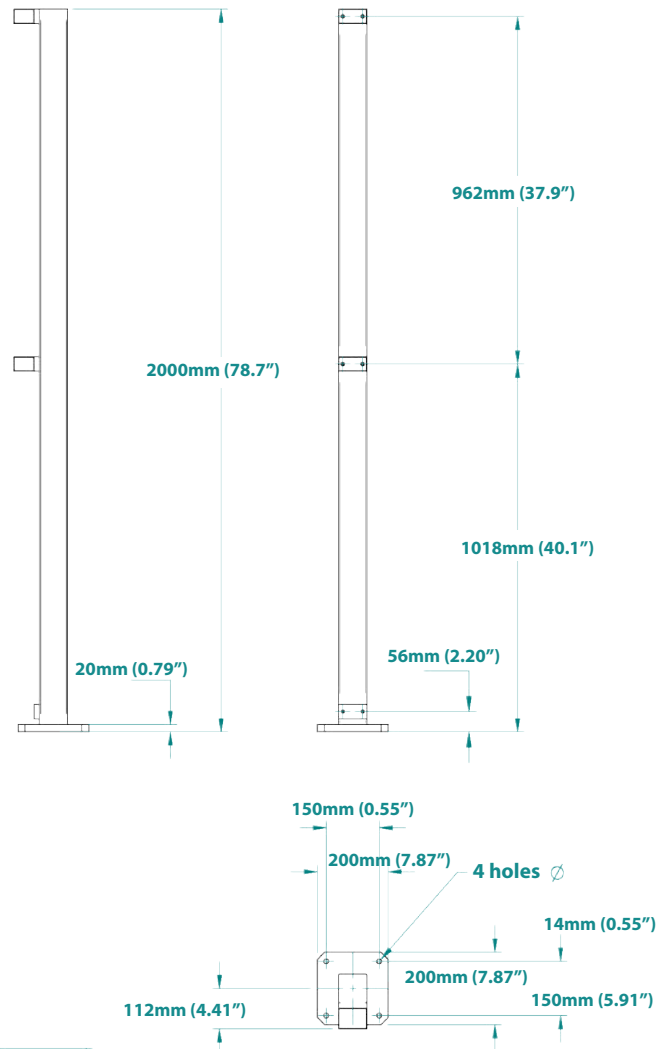
BA 180 R



Coupling flange



Floor post

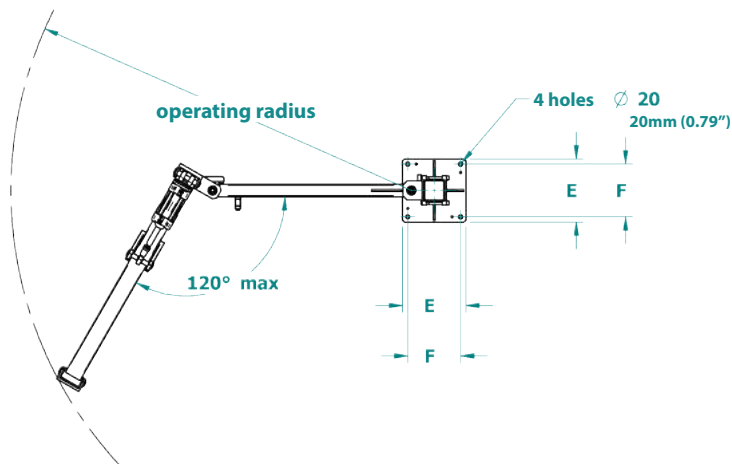
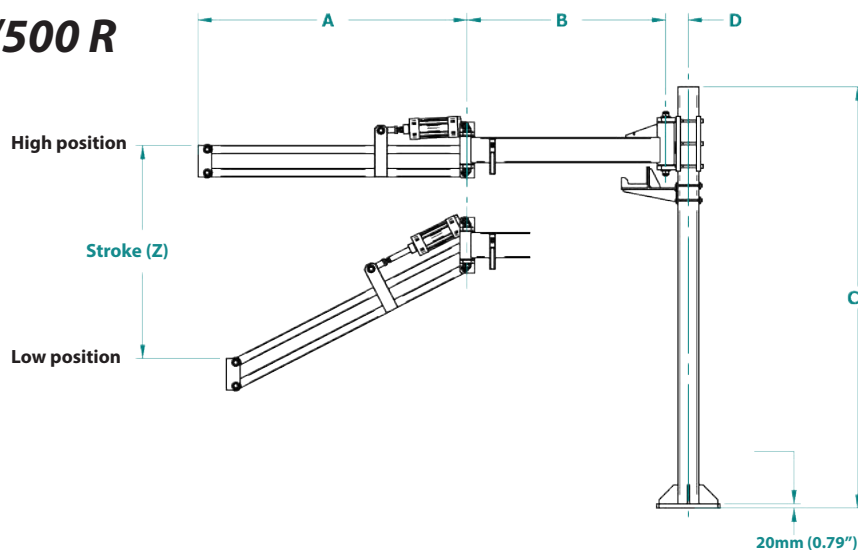


Model	A @ 0°		A @ 22.5°		B		C		Operating radius	
	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)
BA 180 R/1200	686	(27)	637	(25.1)	700	(27.6)	2000	(78.7)	1200	(47.2)
BA 180 R/1500	820	(32.3)	760	(29.9)	855	(33.7)	2000	(78.7)	1500	(59.1)

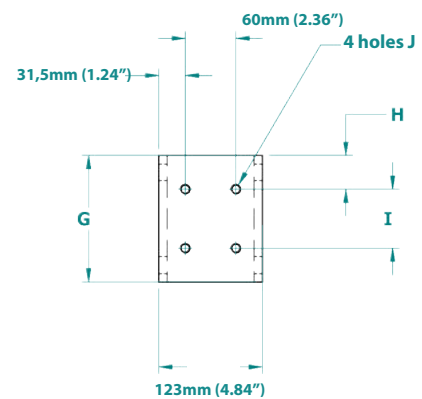
Articulated reaction arms

BA 200 & 500 R Dimensions

BA 200/500 R



Tool clamp mounting bracket

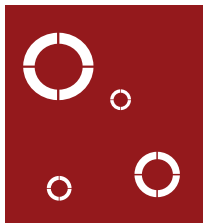


Model	A (high position)	Stroke Z	B	C	D	E	F	G	H	I	J	K	Operating radius
BA 200 R	1278	559	943	2000	108	300	250	150	40	70	M12	108	1900
BA 500 R	1278	559	943	2000	118	400	350	170	45	80	M16	118	1900
BA 500 R/2500	1478	650	1293	2000	118	400	350	170	45	80	M16	118	2400
BA 500 R/3000	1918	1100	1560	2000	118	500	450	170	45	100	M16	118	2900

Dimensions in mm.

Model	A (high position)	Stroke Z	B	C	D	E	F	G	H	I	J	K	Operating radius
BA 200 R	(50.3)	(22.0)	(37.1)	(78.7)	(4.3)	(11.8)	(9.8)	(5.9)	(1.6)	(1.6)	M12	(4.3)	(74.8)
BA 500 R	(50.3)	(22.0)	(37.1)	(78.7)	(4.7)	(15.8)	(13.8)	(6.7)	(1.8)	(1.8)	M16	(4.7)	(74.8)
BA 500 R/2500	(58.2)	(25.6)	(50.9)	(78.7)	(4.7)	(15.8)	(13.8)	(6.7)	(1.8)	(1.8)	M16	(4.7)	(94.5)
BA 500 R/3000	(77.9)	(43.3)	(61.4)	(78.7)	(4.7)	(19.7)	(17.7)	(6.7)	(1.8)	(1.8)	M16	(4.7)	(114.2)

Dimensions in inches.



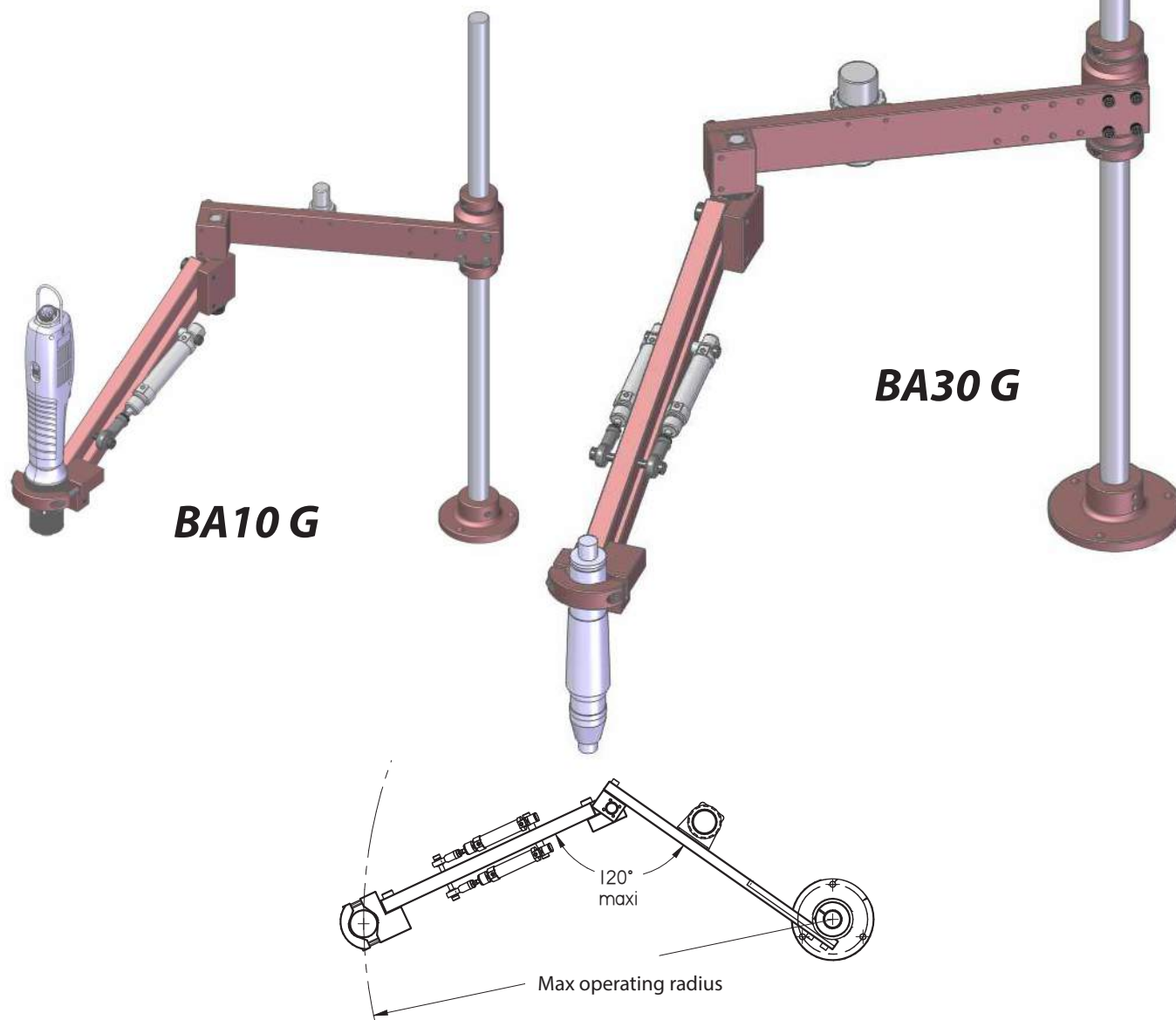
Articulated and air balanced pantograph

BA...G Series



Inspired from the BA...R Series, the BA...G Series provides even more flexibility and comfort thanks to the air balanced design.

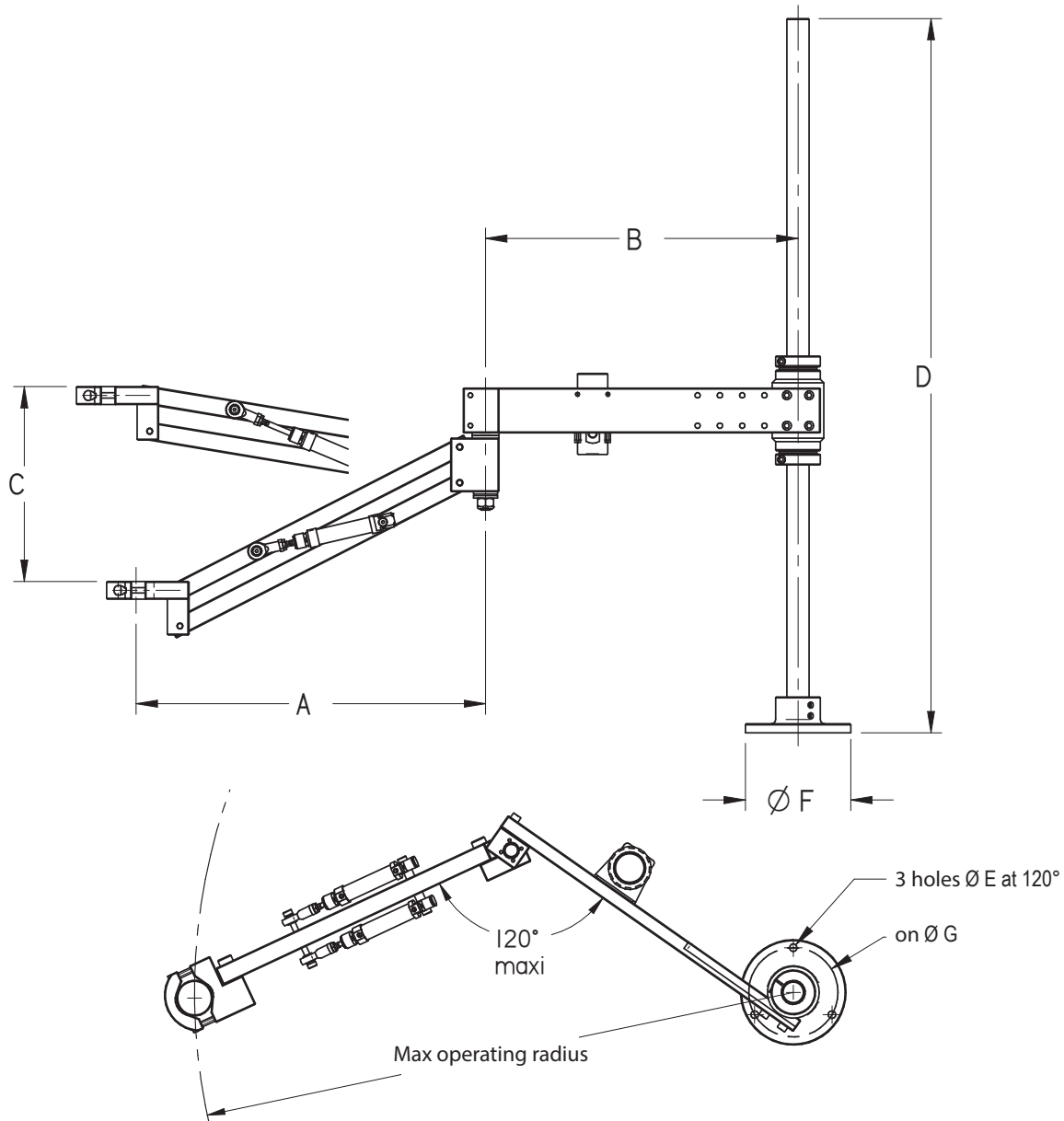
- Softly air balanced!
- Quick and quiet!



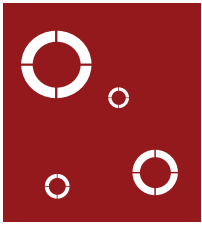
Model	Torque max		Tool Ø		Vertical Stroke		Max radius		Max load		Code
	Nm	(lb·ft)	mm	(in)	mm	(in)	mm	(in)	kg	(lbs)	
BA10 G	10	(2.4)	27-50	(1.1-2)	170	(6.7)	470	(18.5)	1	(2.2)	4-5201013
BA10 G/600	10	(2.4)	27-50	(1.1-2)	170	(6.7)	600	(23.6)	1	(2.2)	4-5201014
BA30 G	30	(6.7)	28-52	(1.1-2.1)	220	(8.7)	670	(26.4)	2	(4.4)	4-5201015
BA30 G/800	30	(6.7)	28-52	(1.1-2.1)	220	(8.7)	800	(31.5)	2	(4.2)	4-5201016

Articulated and air balanced pantograph

BA...G Series



Model	A (down)		B min		B max		C Vertical Stroke		D		E		F		G		Max radius	
	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)
BA10 G	260	(10.2)	202	(8)	252	(9.9)	170	(6.7)	600	(23.6)	8.5	(0.3)	78	(3.1)	65	(2.6)	470	(18.5)
BA10 G/600	260	(10.2)	357	(14.1)	407	(16)	170	(6.7)	600	(23.6)	8.5	(0.3)	78	(3.1)	65	(2.6)	600	(23.6)
BA30 G	391	(15.4)	250	(9.8)	350	(13.8)	218	(8.6)	800	(31.5)	8.5	(0.3)	118	(4.7)	100	(3.9)	670	(26.4)
BA30 G/800	391	(15.4)	405	(15.9)	505	(19.9)	218	(8.6)	800	(31.5)	8.5	(0.3)	118	(4.7)	100	(3.9)	800	(31.5)



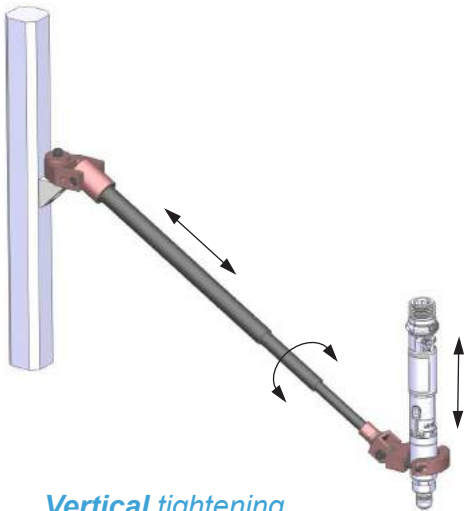
Carbon telescoping arms

DMF/DMFI Series

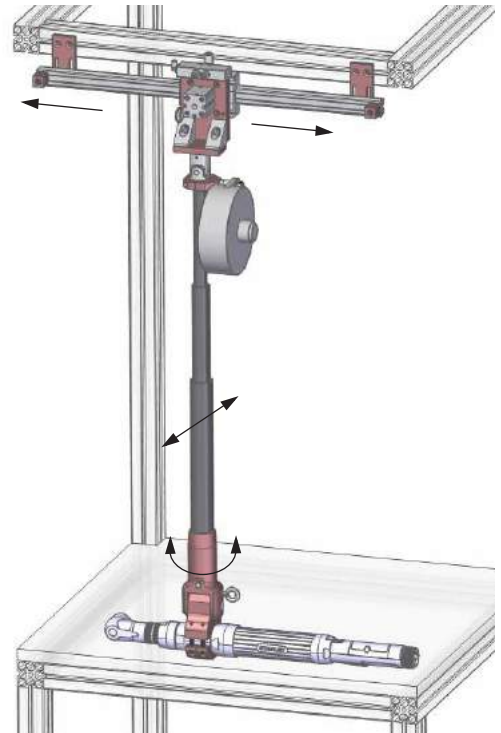


DMF Series : Eliminate torque reaction up to 300Nm (220 lbf·ft).

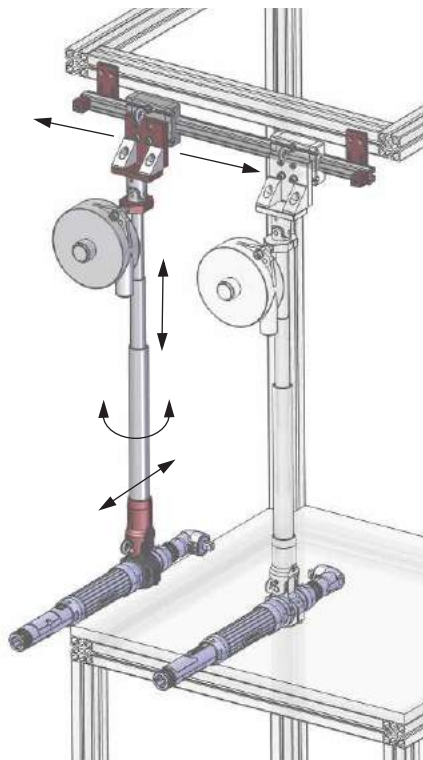
- Comfort: Easy to install on moving assembly lines. Can be mounted on existing standard rail. Requires little space and does not disrupt production flow
- Economical: Carbon fiber makes the arms maintenance free (ie. no greasing) and extremely long lived.
- Productivity: Lightweight carbon fiber makes handling quick and easy for the operator.



Vertical tightening

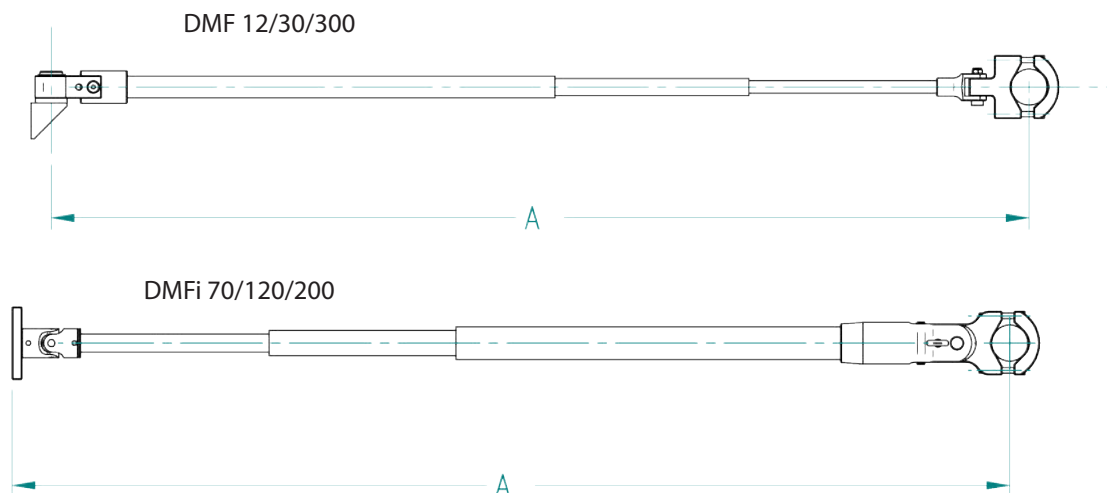


Frontal tightening



Side tightening

Carbon telescoping arms



Standard stroke

Model	Max torque		Standard clamp	Tool Ø		A Min		A Max		Code	
	(Nm)	(lbf ft)		(mm)	(in)	(mm)	(in)	(mm)	(in)	Without clamp	With clamp
DMF 5/950	5	(3.7)	P1	25-42	(1-1.7)	460	(18.1)	950	(37.4)	No	4-5200445
DMF 12/950	12	(8.9)	P1	27-50	(1.1-1.9)	460	(18.1)	950	(37.4)	No	4-5201004
DMF 12/1500	12	(8.9)	P1	27-50	(1.1-1.9)	650	(25.6)	1500	(59.1)	No	4-5201005
DMF 12/2000	12	(8.9)	P1	27-50	(1.1-1.9)	820	(32.3)	2000	(78.7)	No	4-5201006
DMF 30/960	30	(22.1)	P1	28-52	(1.1-2)	475	(18.7)	960	(37.8)	4-5244000	4-5200074
DMF 30/1500	30	(22.1)	P1	28-52	(1.1-2)	656	(25.8)	1500	(59.1)	4-5244001	4-5200282
DMF 30/2000	30	(22.1)	P1	28-52	(1.1-2)	823	(32.4)	2000	(78.7)	4-5244002	4-5200283
DMF 30/2500	30	(22.1)	P1	28-52	(1.1-2)	993	(39.1)	2500	(98.4)	4-5244003	4-5200284
DMF 30/3000	30	(22.1)	P1	28-52	(1.1-2)	1321	(52)	3000	(118)	4-5200813	4-5200818
DMFi 70/1500	70	(51.6)	P2	35-52	(1.4-2)	667	(26.3)	1500	(59.1)	4-5244004	4-5244020
DMFi 70/2000	70	(51.6)	P2	35-52	(1.4-2)	833	(32.8)	2000	(78.7)	4-5244005	4-5244021
DMFi 70/2500	70	(51.6)	P2	35-52	(1.4-2)	1000	(39.4)	2500	(98.4)	4-5244006	4-5244022
DMFi 70/3000	70	(51.6)	P2	35-52	(1.4-2)	1330	(52.4)	3000	(118)	4-5200814	4-5200819
DMFi 120/1500	120	(88.5)	P2	35-52	(1.4-2)	691	(27.2)	1500	(59.1)	4-5244007	4-5244023
DMFi 120/2000	120	(88.5)	P2	35-52	(1.4-2)	857	(33.7)	2000	(78.7)	4-5244008	4-5244024
DMFi 120/2500	120	(88.5)	P2	35-52	(1.4-2)	1023	(40.3)	2500	(98.4)	4-5244009	4-5244025
DMFi 120/3000	120	(88.5)	P2	35-52	(1.4-2)	1347	(53)	3000	(118)	4-5200815	4-5200820
DMFi 200/1500	200	(148)	P2	Max 63	(2.5)	920	(36.2)	1500	(59.1)	4-5244050	4-5244026
DMFi 200/2000	200	(148)	P2	Max 63	(2.5)	1170	(46.1)	2000	(78.7)	4-5244051	4-5244027
DMFi 200/2500	200	(148)	P2	Max 63	(2.5)	1420	(55.9)	2500	(98.4)	4-5244052	4-5244028
DMFi 200/3000	200	(148)	P2	Max 63	(2.5)	1720	(67.7)	3000	(118)	4-5200816	4-5200821
DMF 300/1500	300	(221)	P2	Max 73	(2.9)	970	(38.2)	1500	(59.1)	4-5244053	4-5244029
DMF 300/2000	300	(221)	P2	Max 73	(2.9)	1220	(48.0)	2000	(78.7)	4-5244054	4-5244030
DMF 300/2500	300	(221)	P2	Max 73	(2.9)	1470	(57.9)	2500	(98.4)	4-5244055	4-5244031
DMF 300/3000	300	(221)	P2	Max 73	(2.9)	1720	(67.7)	3000	(118)	4-5200817	4-5200822

Other dimensions on request (maximum length 4 m (157")).

Torque up to 600 Nm (442 lbf ft) available on request.

Long stroke (LS)

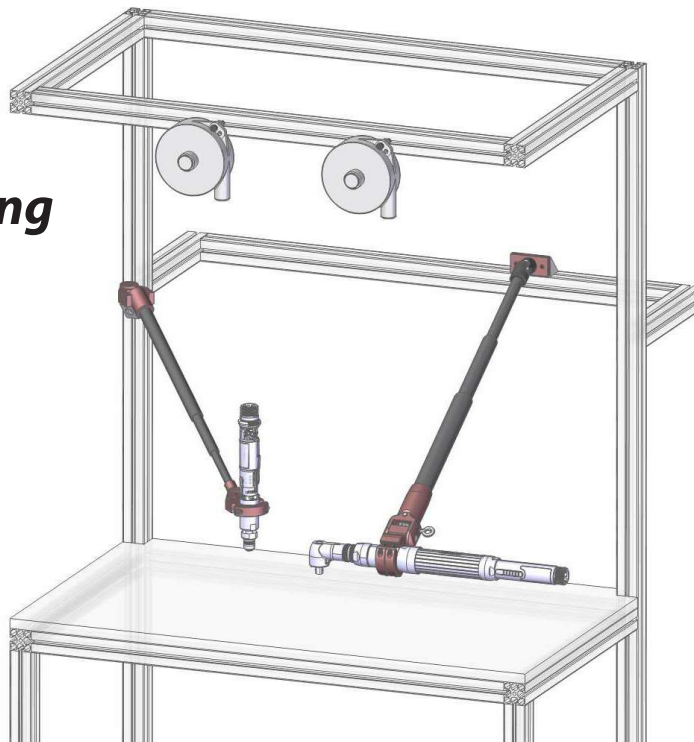
Model	Max torque		Standard clamp	Tool Ø		A Min		A Max		Code	
	(Nm)	(lbf ft)		(in)	(mm)	(mm)	(in)	(mm)	(in)	Without clamp	With clamp
DMF 30/1500 LS	30	(22.1)	P1	28-52	(1.1-2)	555	(21.9)	1500	(59.1)	4-5200852	4-5200855
DMF 30/2000 LS	30	(22.1)	P1	28-52	(1.1-2)	680	(26.8)	2000	(78.7)	4-5200853	4-5200856
DMF 30/2500 LS	30	(22.1)	P1	28-52	(1.1-2)	805	(31.7)	2500	(98.4)	4-5200854	4-5200857
DMFi 100/1500 LS	100	(73.8)	P2	35-52	(1.4-2)	592	(23.3)	1500	(59.1)	4-5201213	4-5201221
DMFi 100/2000 LS	100	(73.8)	P2	35-52	(1.4-2)	717	(28.2)	2000	(78.7)	4-5201214	4-5201222
DMFi 100/2500 LS	100	(73.8)	P2	35-52	(1.4-2)	842	(33.2)	2500	(98.4)	4-5201215	4-5201223
DMFi 200/1500 LS	200	(148)	P2	Max 63	(2.5)	728	(28.7)	1500	(59.1)	4-5201216	4-5201224
DMFi 200/2000 LS	200	(148)	P2	Max 63	(2.5)	894	(35.2)	2000	(78.7)	4-5201217	4-5201225
DMFi 200/2500 LS	200	(148)	P2	Max 63	(2.5)	1060	(41.7)	2500	(98.4)	4-5201220	4-5201226



Vertical tightening

DMF/DMFI Series

Vertical tightening



P1

For	Clamping mm	Clamping (in)	Code
DMF 12	Clamp 27-50	(1.1-1.9)	Standard
DMF 30	Clamp 28-52	(1.1-2)	4-5244010
DMFi 70	Mounting plate interface		4-5244032
DMFi 120/200	Mounting plate interface		4-5244033

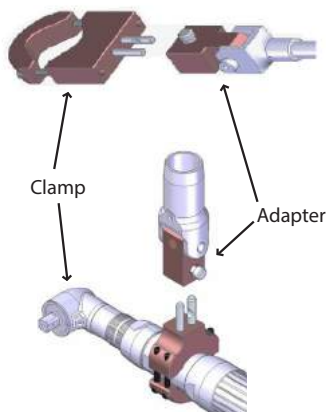


P2 clamp

For	Tool Ø (mm)	Tool Ø (in)	Code
DMF 30	28-52	(1.1-1.9)	4-5200300
DMFi 70	35-52	(1.4-2)	4-5244011
DMFi 120/200	35-52	(1.4-2)	4-5244012
DMFi 200	63	(2.5)	4-5201204
DMF 300	73	(2.9)	On request

Quick release clamp

For	Type	Code
DMF12	P1	4-5201003
DMF30	P1	4-5200017
DMFi 70	P2	4-5283102
DMFi 120/200	P2	4-5283103



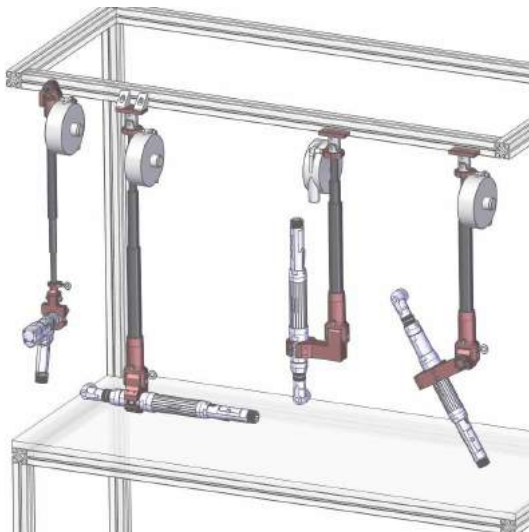
Quick release interface

For	Code
DMF12	4-5200470
DMF30	4-5200471
DMF70	4-5283100
DMF120/200	4-5283101

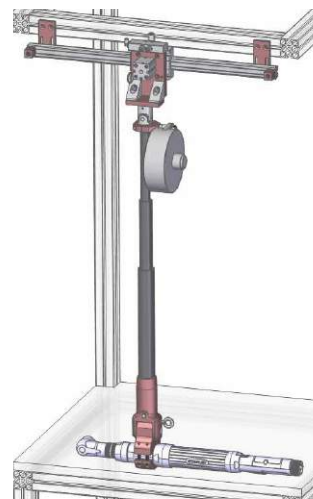
Frontal tightening

DMF/DMFI Series

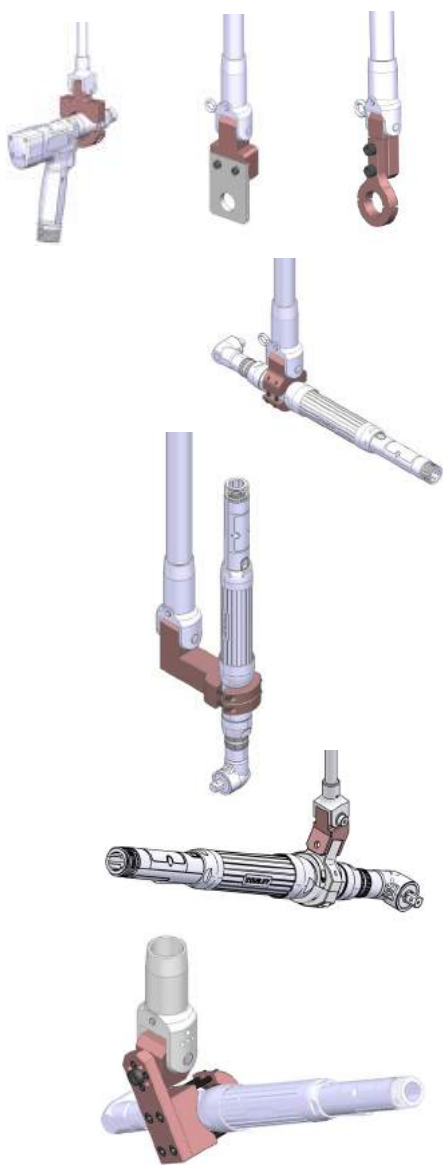
Fixed mounting



Mounting on rail with locker



Frontal tightening



P1 clamp

For	Tool Ø mm	Tool Ø (in)	Code
DMF 12	Clamp 27-50	(1.1-1.9)	Standard
DMF 30	Clamp 28-52	(1.1-2)	4-5244010
DMFi 70	Mounting plate interface		4-5244032
DMFi 120/200	Mounting plate interface		4-5244033
DMF 300	Mounting plate interface		On request

P2 clamp

For	Tool Ø mm	Tool Ø (in)	Code
DMF 30	28-52	(1.1-1.9)	4-5200300
DMFi 70	35-52	(1.4-2)	4-5244011
DMFi 120/200	35-52	(1.4-2)	4-5244012
DMFi 200	Max 63	(2.5)	4-5201204
DMF 300	Max 73	(2.9)	On request

P4 clamp

For	Tool Ø mm	Tool Ø (in)	Code
DMF 30	28-52	(1.1-1.9)	4-5200302
DMFi 70	35-52	(1.4-2)	4-5244015
DMFi 120/200	35-52	(1.4-2)	4-5244016
DMFi 200	Max 63	(2.5)	4-5244058
DMF 300	Max 73	(2.9)	4-5244059

Tilt interface

For	Code
Interface/DMF30 (for all clamp types)	15°
	30°
	4-5283168
	4-5283169

Swivel clamp

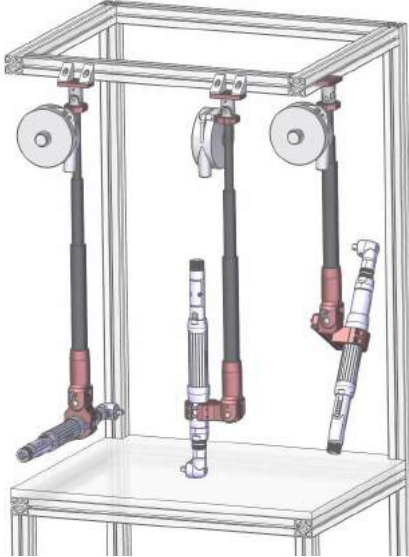
For	Tool Ø mm	Tool Ø (in)	Code
DMFi 70 P2/P4	35-52	(1.4-2)	4-5201137
DMFi 120/200 P2/P4	35-52	(1.4-2)	4-5201138
DMFi 200 P2/P4	Max 63	(2.5)	4-5201139
DMF 300	Max 73	(2.9)	On request



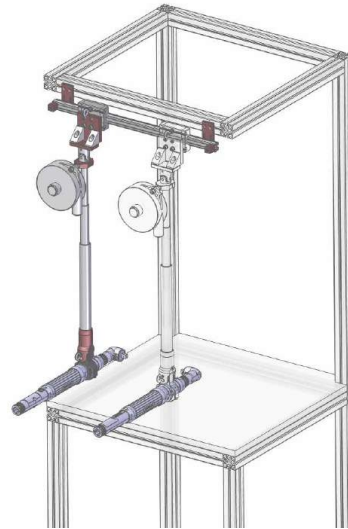
Side tightening

DMF/DMFi Series

Fixed mounting



Mounting on rail



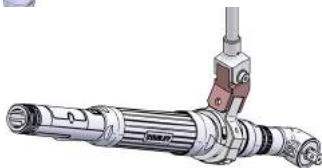
P2 Clamp

For	Tool Ø mm	Tool Ø (in)	Code
DMF 30	28-52	(1.1-1.9)	4-5200300
DMFi 70	35-52	(1.4-2)	4-5244011
DMFi 120/200	35-52	(1.4-2)	4-5244012
DMFi 200	Max 63	(2.5)	4-5201204
DMF 300	Max 73	(2.9)	On request



P3 Clamp

For	Tool Ø mm	Tool Ø (in)	Code
DMF 30	28-52	(1.1-1.9)	4-5200301
DMFi 70	35-52	(1.4-2)	4-5244013
DMFi 120/200	35-52	(1.4-2)	4-5244014
DMFi 200	Max 63	(2.5)	4-5244056
DMF 300	Max 73	(2.9)	4-5244057



Tilt interface

For	Angle	Code
Interface / DMF30	15°	4-5283168
	30°	4-5283169



Swivel clamp

For	Tool Ø mm	Tool Ø (in)	Code
DMFi 70	35-52	(1.4-2)	4-5201137
DMFi 120/200	35-52	(1.4-2)	4-5201138
DMFi 200	Max 63	(2.5)	4-5201139
DMF 300	Max 73	(2.9)	On request

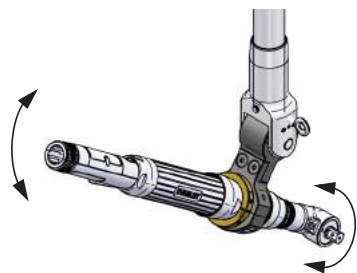


Rotating clamp

For	Tool Ø mm	Tool Ø (in)	Code
DMF 30	43	(1.7)	4-5201134
DMFi 70	50	(1.9)	4-5244034
DMFi 120/100LS	50	(1.9)	4-5244035
DMFi 200/200LS	58	(2.3)	4-5244060
DMF 300	70	(2.8)	4-5201136

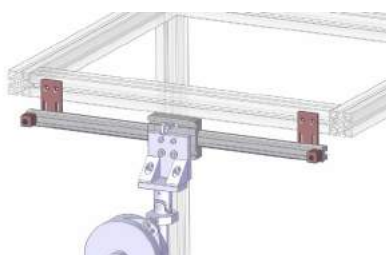
DMF/DMFi

Mounting on rail



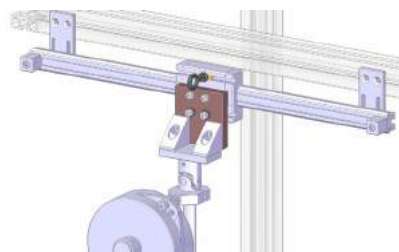
Tilting and rotating clamp

For	Tool Ø mm	Tool Ø (in)	Tilt angle increment	Code
DMFi 70	50	(1.9)	18°	4-5201205
DMFi 100/120	50	(1.9)	18°	4-5201206
DMFi 200	58	(2.3)	18°	4-5201218



Rails

Length	Stroke mm	Stroke (in)	Number of flanges	Code
600	450	(18)	2	4-5200132
800	650	(26)	2	4-5200160
1000	850	(34)	2	4-5200161
1200	1050	(41)	3	4-5200162
1500	1350	(53)	3	4-5200163
2000	1850	(73)	4	4-5200164

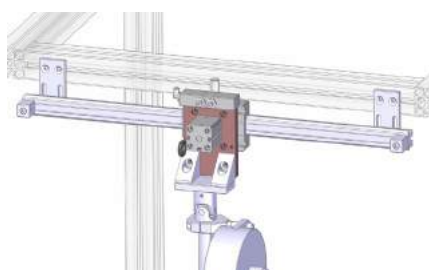


Rail interface

Allows installation of DMF on rail.

For	Code
DMF12/30	4-5200341
DMFi70/120/200	4-5200708
DMF300	4-5200342

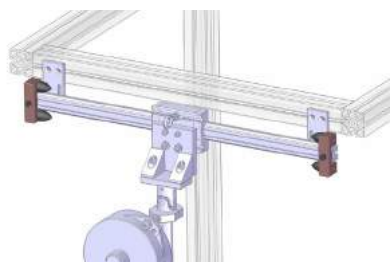
NOTE : delivered without safety hook (Code 4-5200309)



Pneumatic locker

For	Type	Code
DMF12/30	Pneumatic	4-5200442
DMF12/30	Electric	4-5200869
DMFi70/120	Pneumatic	4-5200706
DMFi70/120	Electric	4-5200707
DMFi200	Electric	4-5201150
DMF300	Electric	4-5201142

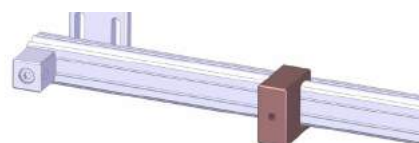
The power tool has to be equipped with a motor run signal.



Absorbing stop

Recommended in case of repeatable side shocks.

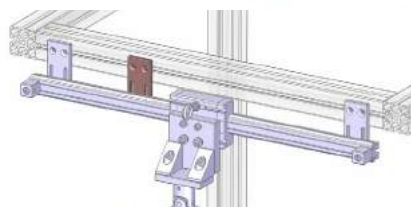
Code 4-5201121 Set of 2



Adjustable stop

To limit the slide of the arm on the rail.

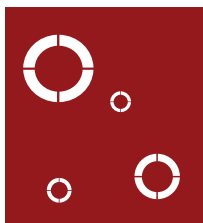
Code 4-5200167



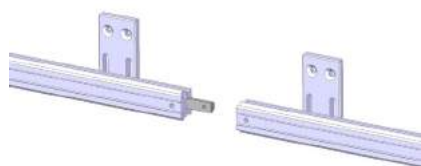
Additional flange

To reinforce the rail installation for high torque applications.

Code 4-5200873



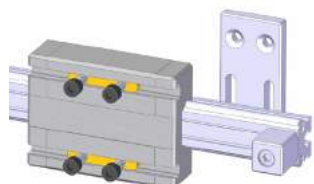
Accessories DMF/DMFi



Rail link

To link two rails together.

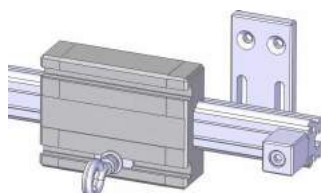
Code 4-5200307



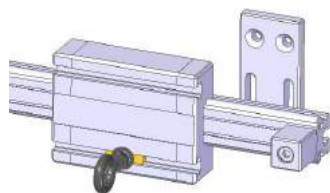
Single trolley

To mount additional tools on the same rail.

- Single trolley Code 4-5200165



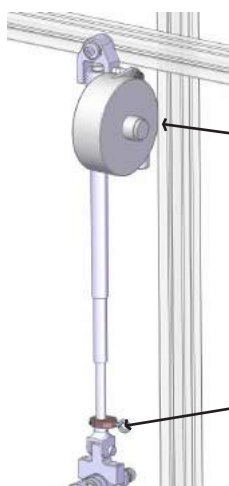
- Trolley for additional balancer Code 4-5200166



Additional safety hook

To secure balancer.

Code 4-5200309



Balancing kit for DMF 12/30/300

For	Tool kg	Tool (lbs)	Code
DMF12	1-2	(2.2-4.4)	4-5200303
DMF30	1-2.5	(2.2-5.5)	4-5200304
DMF30	2-4	(4.4-8.8)	4-5200305
DMF300	4-8	(8.8-17)	4-5200704
DMF300	6-10	(13-22)	4-5200705

Balancer attachment kit for DMF30 Code 4-5201143

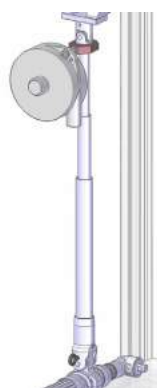
Balancing kit for DMFi 70/120/200

For	Capacity kg	Capacity (lbs)	Code
DMFi 70/120/200	2-4	(4.4-8.8)	4-5200701
DMFi 70/120/200	4-6	(8.8-13)	4-5200702
DMFi 70/120/200	6-8	(13-17)	4-5200703

Delivered with balancer attachment kit.

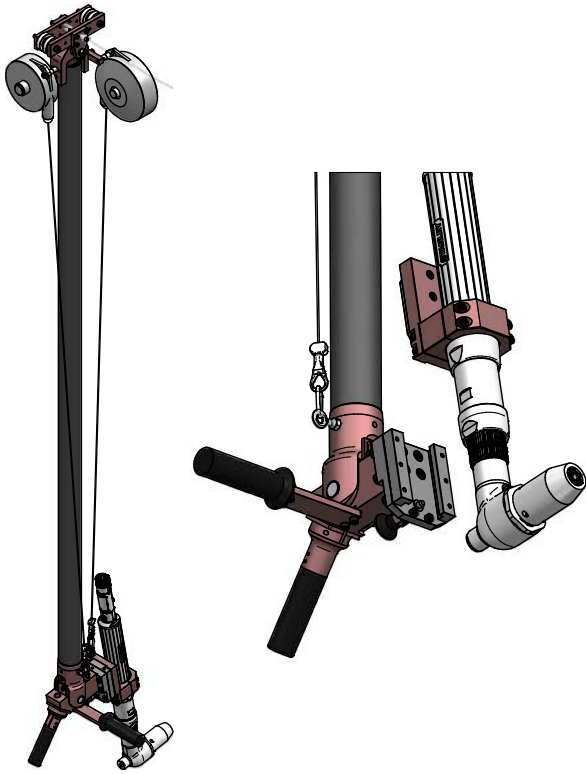
Cable extension for balancer for DMFi max 3000

For	Length mm	Length (in)	Code
Extension	500	(20)	4-1212220
Extension	1000	(39)	4-1222205

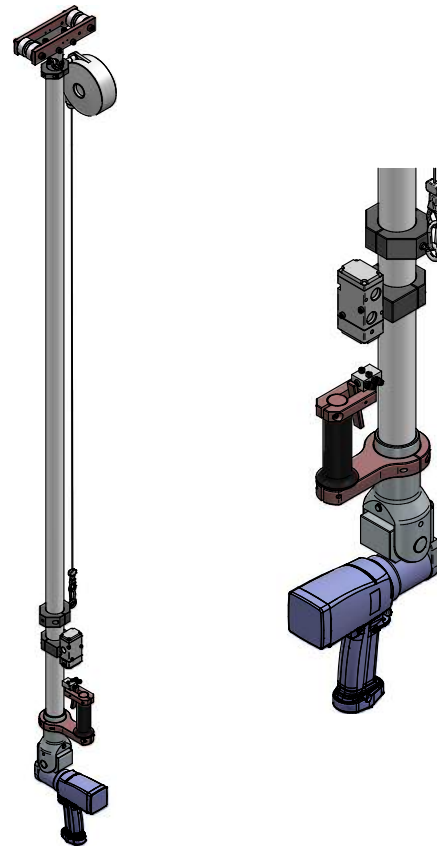


Special arms on request

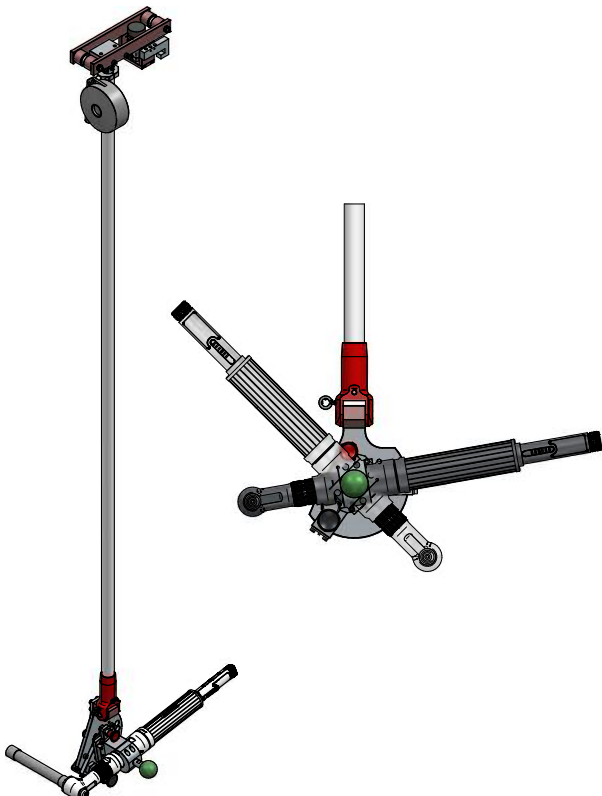
Special applications



DMF 400 with quick release tool clamp



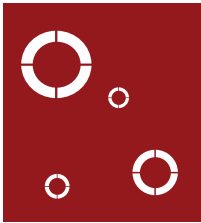
DMF 300 with air pistol tool+remote start lever



DMFi 200 with swivel and indexable tool clamp



DMFi 600 with air locker + special tool holder for pistol tools



Suspended arms

SLIDER



SLIDER Series: Eliminate torque reaction up to 300 Nm (221 lbf-ft).

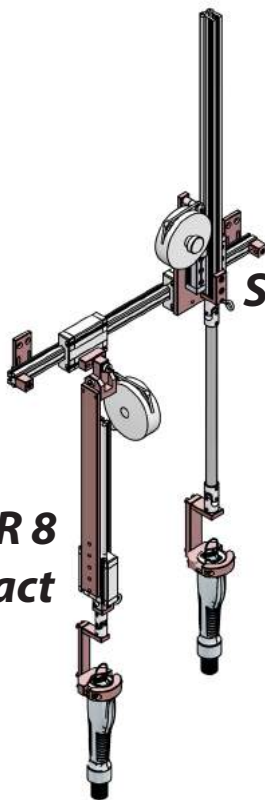
- IMPROVE COMFORT AND PRODUCTIVITY

SLIDER arms are smart-sized and easy to install. The arms improve the comfort of the operator, productivity and keep the work area clear.

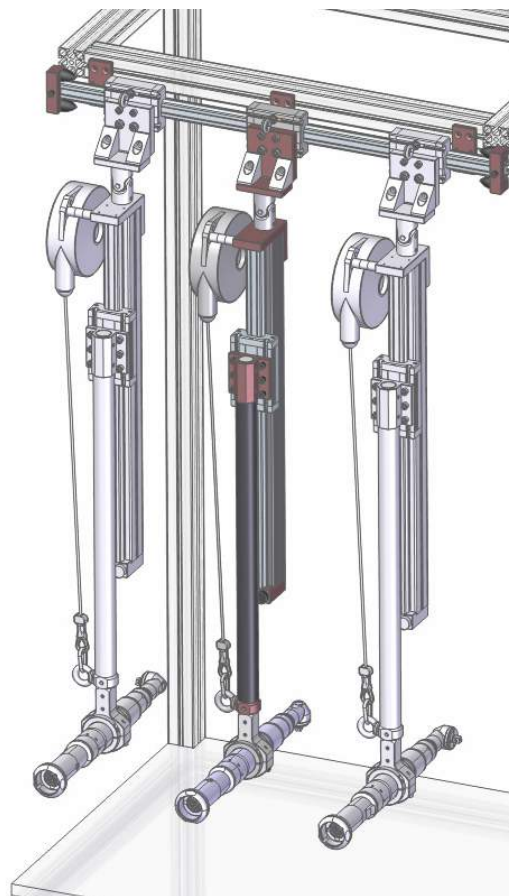
- IMPROVE ERGONOMICS

Mounted on horizontal rails, the SLIDER is an ideal ergonomic solution for conveyor lines.

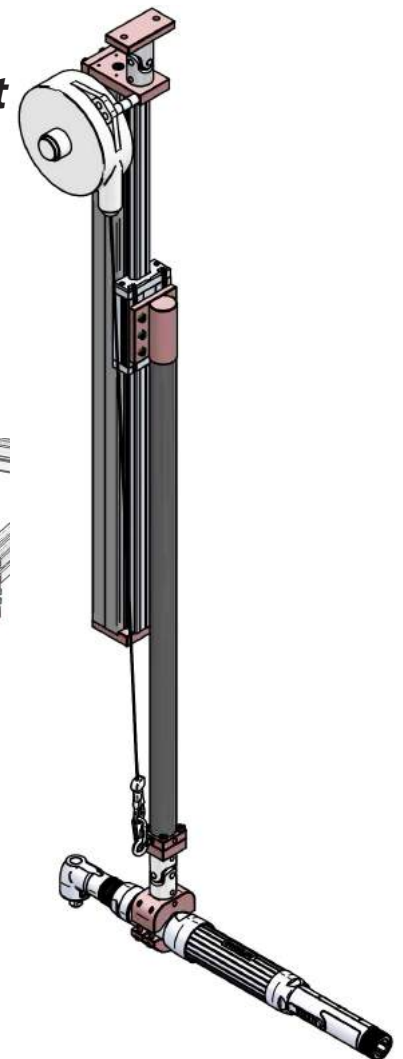
**SLIDER 8
compact**



SLIDER 8/20



SLIDER 50 compact

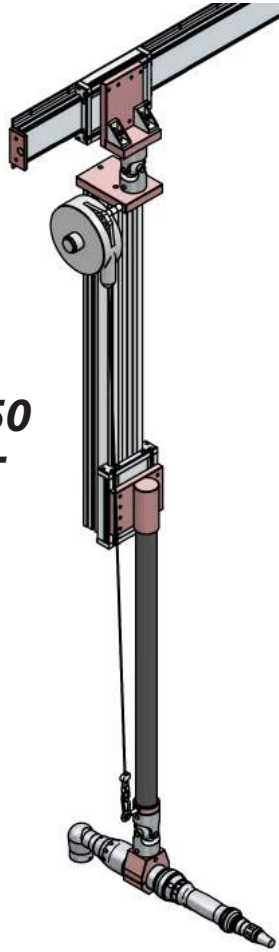


**SLIDER 50 COMPACT
Vertical/horizontal tightening**

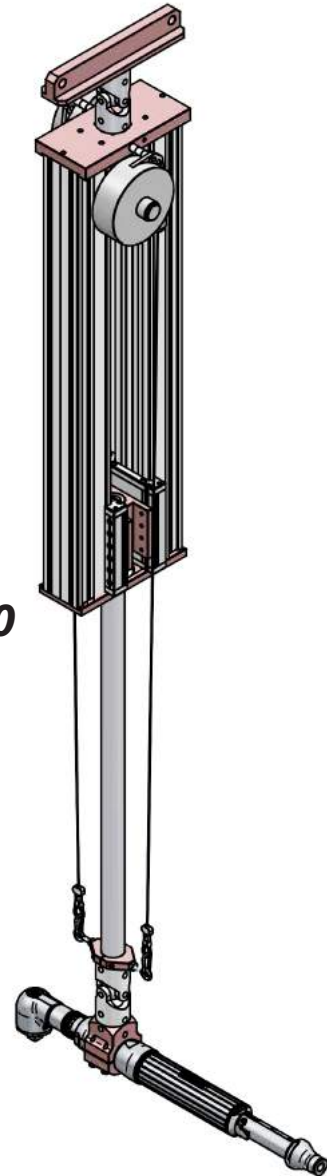
Suspended arms

SLIDER

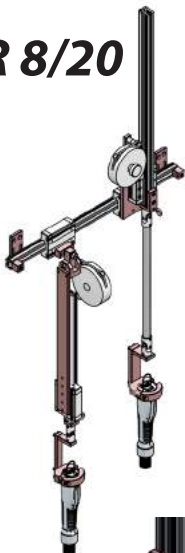
**SLIDER 150
COMPACT**



**SLIDER 300
COMPACT**



SLIDER 8/20



SLIDER with clamp for electric tool

Désignation	Max torque		Max load		Clamp Ø		Stroke		Code
	Nm	(lbf-ft)	kg	(lbs)	mm	(in)	mm	(in)	
Slider 8	8	(5.9)	1.2	(2.6)	28-52	(1.1-2)	450	(17.7)	4-5283148
Slider 20	20	(15)	2.2	(4.9)	28-52	(1.1-2)	450	(17.7)	4-5283149
Slider 8 Compact/270	8	(5.9)	1.2	(2.6)	28-52	(1.1-2)	270	(10.6)	4-5283150
Slider 8 Compact/470	8	(5.9)	1.2	(2.6)	28-52	(1.1-2)	470	(18.5)	4-5283151

Interface for air tool

Model	Code
Interface 1/4" SLIDER 8 and 8 COMPACT	4-5283171
Interface 1/4" SLIDER 20	4-5283172



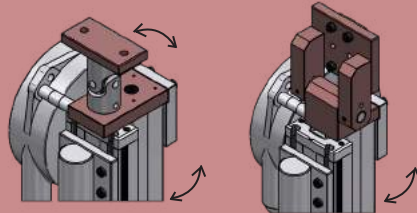


Suspended arms

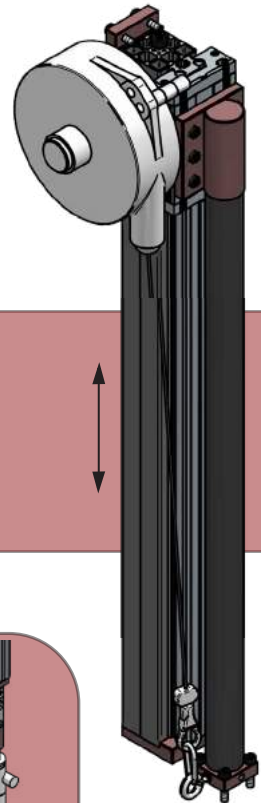
SLIDER

► Modular system SLIDER 20/50 Compact

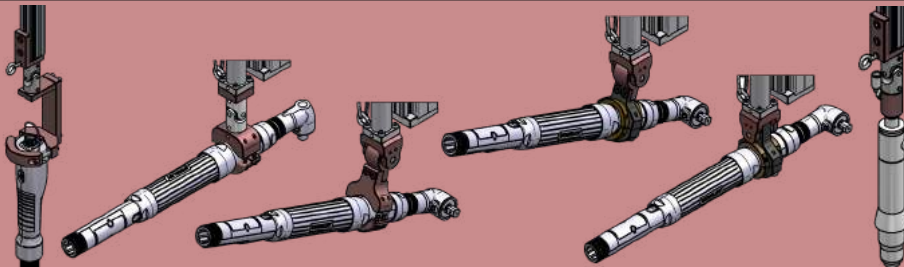
Upper Interface



Vertical guide



Tool clamps



Vertical guide

Model	Max torque		Vertical stroke		Max load		Code
	Nm	(lbf-ft)	mm	(in)	kg	(lbs)	
SLIDER 20 Compact/270	20	(15)	270	(10.6)	2.2	(4.9)	4-5283152
SLIDER 20 Compact/470	20	(15)	470	(18.5)	2.2	(4.9)	4-5283153
SLIDER 50 Compact/470	50	(37)	470	(18.5)	3	(6.6)	4-5283154
SLIDER 50 Compact/670	50	(37)	670	(26.4)	3	(6.6)	4-5283155
SLIDER 50 Compact/870	50	(37)	870	(34.3)	3	(6.6)	4-5283156

Upper 2 axes interface



Model	Code
SLIDER 20	4-5283159
SLIDER 50	4-5283160

Upper 1 axis interface



Model	Code
SLIDER 20	4-5283157
SLIDER 50	4-5283158

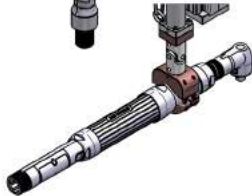
Suspended arms

Options SLIDER 8/20/50



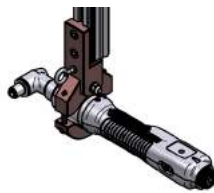
Clamp for electric screwdrivers/Slider 20 compact

Model	Clamp Ø mm	Clamp Ø (in)	Code
Clamp SLIDER 20	28-52	(1.1-2)	4-5283161



Cardan clamp for angle nutrunners

Model	Clamp Ø mm	Clamp Ø (in)	Code
SLIDER 20	28-52	(1.1-2)	4-5283162
SLIDER 50	35-52	(1.4-2)	4-5283163



Fixed clamp

Model	Clamp Ø mm	Clamp Ø (in)	Code
SLIDER 20	28-52	(1.1-2)	4-5283164



Tilt interface

Model	Code
15° SLIDER 20	4-5283168
30° SLIDER 20	4-5283169



Tilting clamp

Model	Clamp Ø mm	Clamp Ø (in)	Increment	Code
SLIDER 50	35-52	(1.4-2)	18°	4-5283165



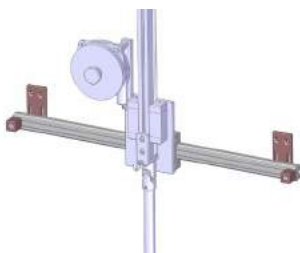
Rotating clamp

Model	Clamp Ø mm	Clamp Ø (in)	Code
SLIDER 20	43	(1.7)	4-5283166
SLIDER 50	50	(1.9)	4-5283167



Tilting and rotating clamp

Model	Clamp Ø mm	Clamp Ø (in)	Increment	Code
SLIDER 50	50	(1.9)	18°	4-5283170



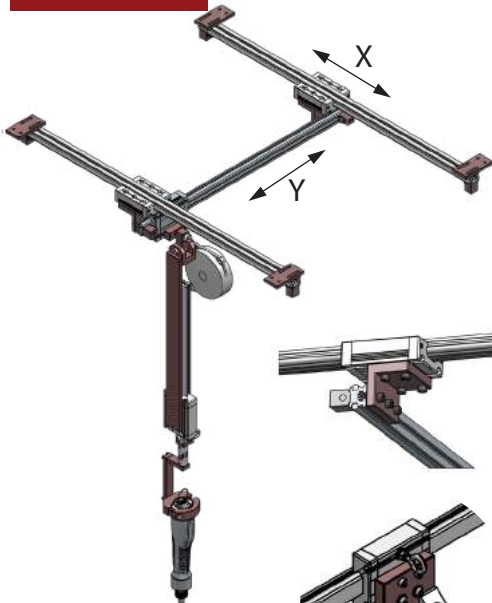
Rails SLIDER 8/20/50

Length mm	Length (mm)	Stroke mm	Stroke (in)	Bracket number	Code
600	(23.6)	450	(17.7)	2	4-5200132
800	(31.5)	650	(25.6)	2	4-5200160
1000	(39.4)	850	(33.5)	2	4-5200161
1200	(47.2)	1050	(41.3)	3	4-5200162
1500	(59.1)	1350	(53.1)	3	4-5200163
2000	(78.7)	1850	(72.8)	4	4-5200164



Suspended arms

Options SLIDER 8/20/50



Rails for Slider 8 and 20 Compact (delivered with rail interface)

Select rails by choosing (p.33) :

- 2 rails for X
- 1 rail for Y (max length = 1000 mm)



Model	Code
Set of 2 brackets	4-5283173

Interface Slider 50

Model	Code
Interface	4-5200708

Rail link

To link two rails together. **Code : 4-5200307.**

Additional bracket

To reinforce the rail structure. **Code : 4-5200873.**

Set of 2 absorbing stops

Recommended in case of repeatable side shocks. **Code : 4-5201121.**

Adjustable stops

To limit the slide of the arm on the rail.

For slider 8/20/50 rail **Code : 4-5200167**

For slider 150/300 rail **Code : 4-5283201**

Additional trolley

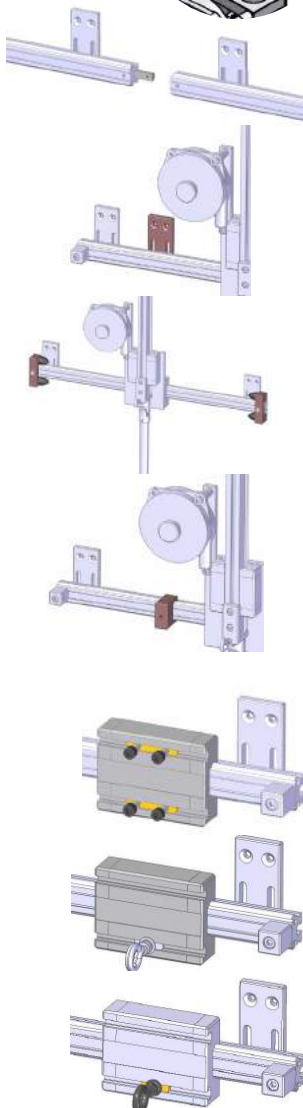
To mount additional tools on the same rail.

- Single trolley **Code : 4-5200165.**

- Trolley for additional balancer **Code : 4-5200166.**

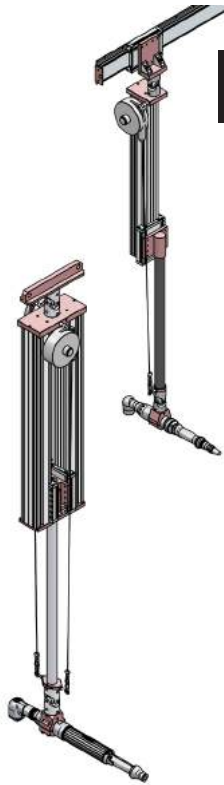
Additional safety hook

To secure the balancer. **Code : 4-5200309.**



Suspended arms

SLIDER 150/300 COMPACT



Model	Max Torque		Clamp Ø		Vertical stroke		Min		Max		Load		Code
	Nm	(lbf-ft)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	kg	(lbs)	
SLIDER 150 Compact 600	150	(111)	Max 63	(2.5)	600	(23.6)	1100	(43.3)	1700	(67)	5	(11)	4-5283113
SLIDER 150 Compact 800	150	(111)	Max 63	(2.5)	800	(31.5)	1300	(51.2)	2100	(82.7)	5	(11)	4-5283114
SLIDER 150 Compact 1000	150	(111)	Max 63	(2.5)	1000	(39.4)	1500	(59.1)	2500	(98.4)	5	(11)	4-5283115

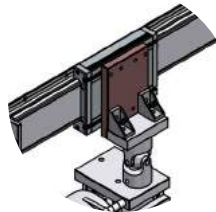
Rotating clamp

Model	Ø Clamping mm	Ø Clamping (in)	Code
SLIDER 150	Max 63	(2.5)	4-5283117
SLIDER 300	On demand		NC

Model	Max torque (Nm)	Max torque (lbf-ft)	Clamp Ø	Vertical stroke	Code
SLIDER 300 COMPACT	300	(221)	On demand	On demand	On demand

SLIDER 150 rail

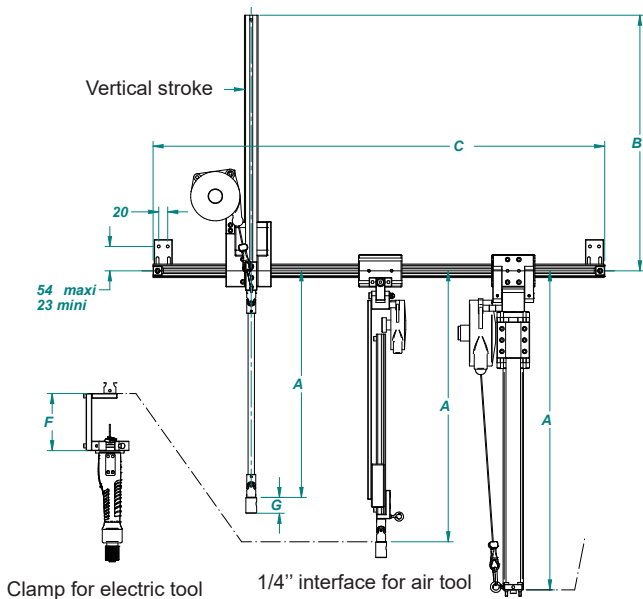
Length mm	Length (in)	Stroke mm	Stroke (in)	Code
600	(23.6)	420	(16.5)	4-5200294
1000	(39.4)	820	(32.2)	4-5200295
1500	(59.1)	1320	(52)	4-5200296
2000	(78.7)	1820	(71.7)	4-5200297



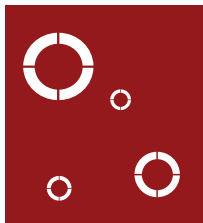
SLIDER 150 rail

For	Code
Interface	4-5200009

Dimensions SLIDER 8/20/50



Model	A		B		Vertical stroke		F	
	mm	(in)	mm	(in)	mm	(in)	mm	(in)
SLIDER 8		(20)	565	(22)	450	(18)	120	(4.7)
SLIDER 20	599	(24)	599	(24)	450	(18)	120	(4.7)
SLIDER 8 COMPACT 270	550-600	(22-24)			270	(11)	120	(4.7)
SLIDER 8 COMPACT 470	750-800	(29-31)			470	(19)	120	(4.7)
SLIDER 20 COMPACT 270	488-538	(19-21)			270	(11)		
SLIDER 20 COMPACT 470	688-738	(27-29)			470	(19)		
SLIDER 50 COMPACT 470	705	(28)			470	(19)		
SLIDER 50 COMPACT 670	905	(36)			670	(26)		
SLIDER 50 COMPACT 870	1005	(40)			870	(34)		

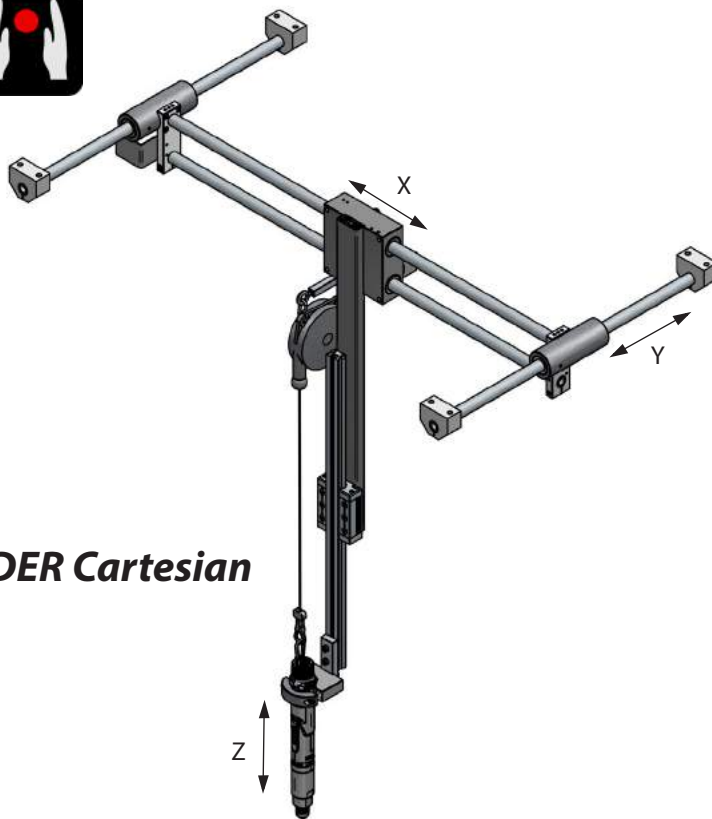


Suspended arms

SLIDER Cartesian

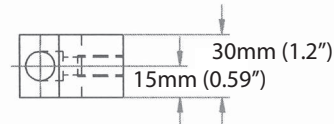
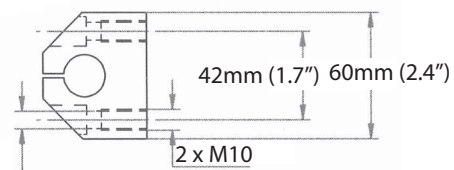
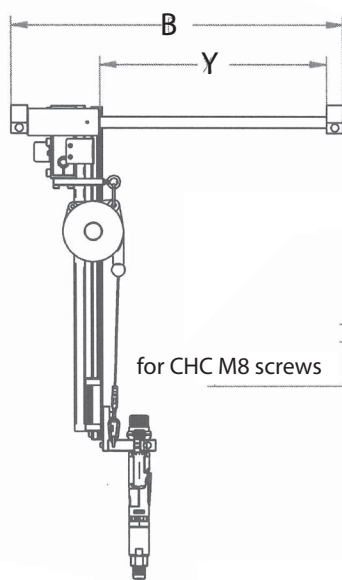
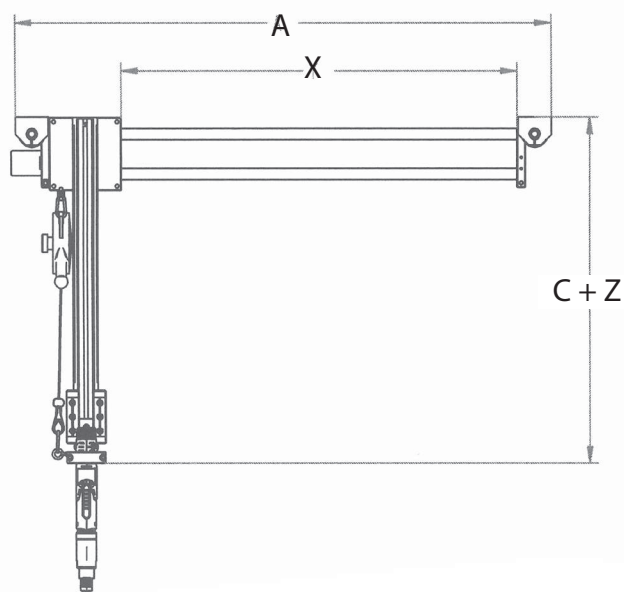


- The cartesian arms mounts to existing structures.
- Frees up the workstation.



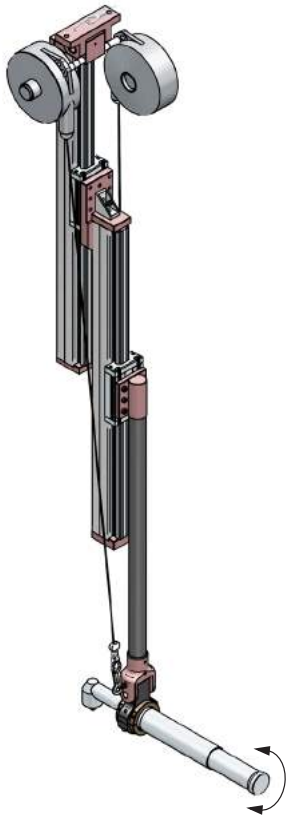
SLIDER Cartesian

Model	Max torque		X		Y		Z		A		B		C		Clamp Ø		Max load		Code
	Nm	(lbf-ft)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	kg	(lbs)	
SLIDER 15 Cart 300	15	(11)	300	(12)	400	(16)	472	(19)	573	(23)	600	(27)	621	(24)	28-52	(1.1-2)	2	(4.4)	4-5283198
SLIDER 15 Cart 500	15	(11)	500	(20)	400	(16)	472	(19)	773	(30)	600	(24)	621	(24)	28-52	(1.1-2)	2	(4.4)	4-5283199
SLIDER 15 Cart 700	15	(11)	700	(28)	400	(16)	472	(19)	973	(38)	600	(24)	621	(24)	28-52	(1.1-2)	2	(4.4)	4-5283200



Suspended arms

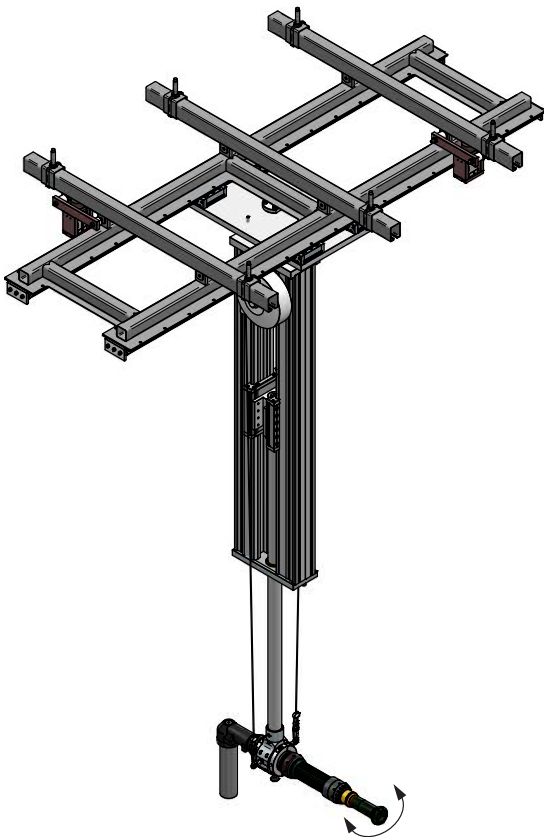
Special applications



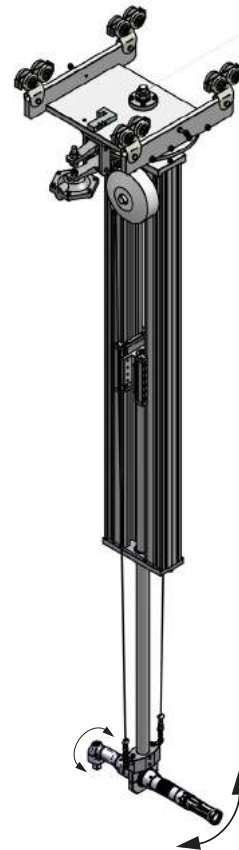
SLIDER 50 double stroke with rotating clamp



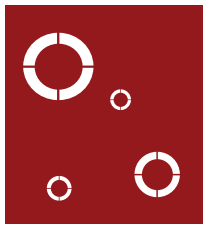
SLIDER 50 compact PC with inclinometer + laser encoders on horizontal rail



SLIDER 300 on cross rails with rotating clamp



SLIDER 300 rotating on vertical axis with brake + rotating clamp

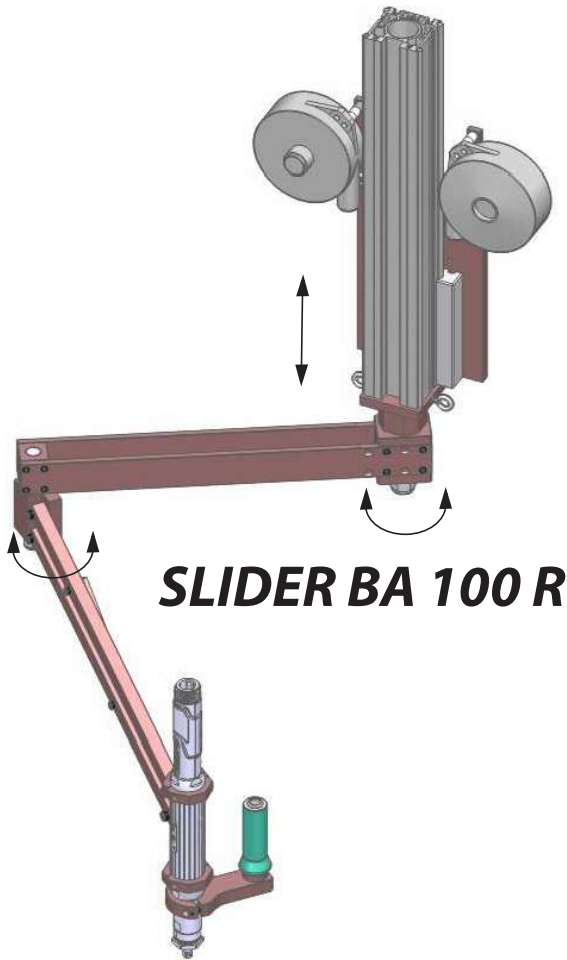


Suspended arms

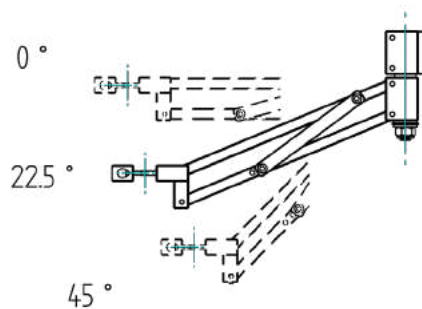
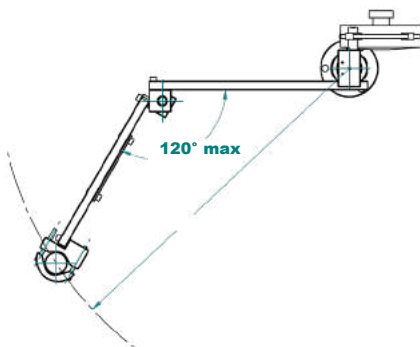
SLIDER BA / SLIDER BA...R



- Overhead mounting means the work area remains free.
- Can also be installed on a rail. A rail mounting requires a pneumatic lock to counteract torque.

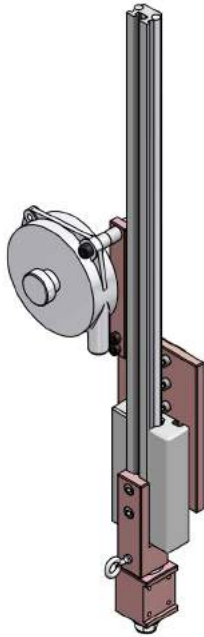


SLIDER BA 12/25/40 R



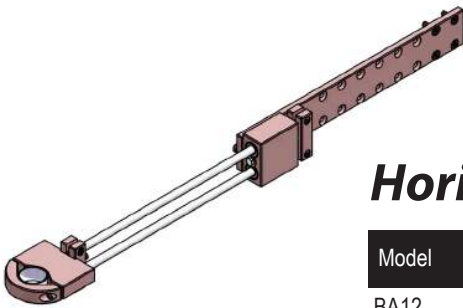
Suspended arms

Series SLIDER BA / SLIDER BA...R



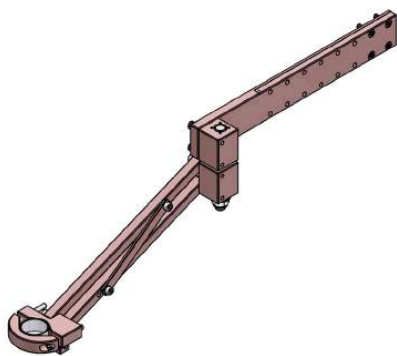
Vertical slide

Model	Vertical stroke		Max load		Code
	mm	(in)	kg	(lbs)	
BA12/12R slide 440	440	(17.3)	1.2	(2.6)	4-5283124
BA12/12R slide 640	640	(25.2)	1.2	(2.6)	4-5283126
BA12/12R slide 840	840	(33.1)	1.2	(2.6)	4-5283127
BA25/25R slide 440	440	(17.3)	2.2	(4.9)	4-5283128
BA25/25R slide 640	640	(25.2)	2.2	(4.9)	4-5283129
BA25/25R slide 840	840	(33.1)	2.2	(4.9)	4-5283130
BA40/40R slide 440	440	(17.3)	3	(6.6)	4-5283131
BA40/40R slide 640	640	(25.2)	3	(6.6)	4-5283132
BA40/40R slide 840	840	(33.1)	3	(6.6)	4-5283133
BA100/100R slide 440	440	(17.3)	5	(11)	4-5283134
BA100/100R slide 640	640	(25.2)	5	(11)	4-5283135
BA100/100R slide 840	840	(33.1)	5	(11)	4-5283136



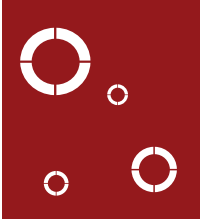
Horizontal linear slides

Model	Stroke		Clamp Ø		Code
	mm	(in)	kg	(lbs)	
BA12	225	(8.9)	27-50	(1.1-2)	4-5283137
BA25	250	(9.8)	28-52	(1.1-2)	4-5283138
BA40	295	(11.6)	28-52	(1.1-2)	4-5283139
BA100	330	(13)	28-52	(1.1-2)	4-5283140



Horizontal articulation

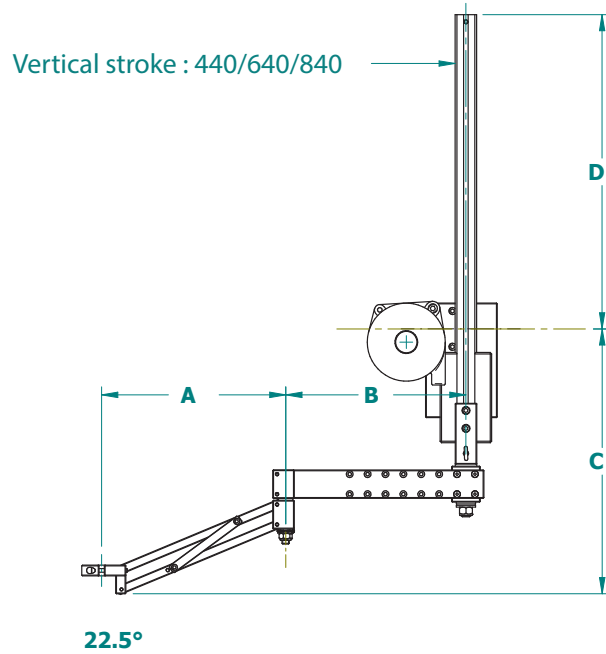
Model	Max radius		Clamp Ø		Code
	mm	(in)	mm	(in)	
BA12R	450	(17.7)	27-50	(1.1-1.9)	4-5283141
BA25R	460	(18.1)	28-52	(1.1-2)	4-5283142
BA25R/600	600	(23.6)	28-52	(1.1-2)	4-5283143
BA40R	650	(25.6)	28-52	(1.1-2)	4-5283144
BA40R/800	800	(31)	28-52	(1.1-2)	4-5283145
BA100R	730	(28.7)	28-52	(1.1-2)	4-5283146
BA100R/900	900	(35.4)	28-52	(1.1-2)	4-5283147



Suspended arms

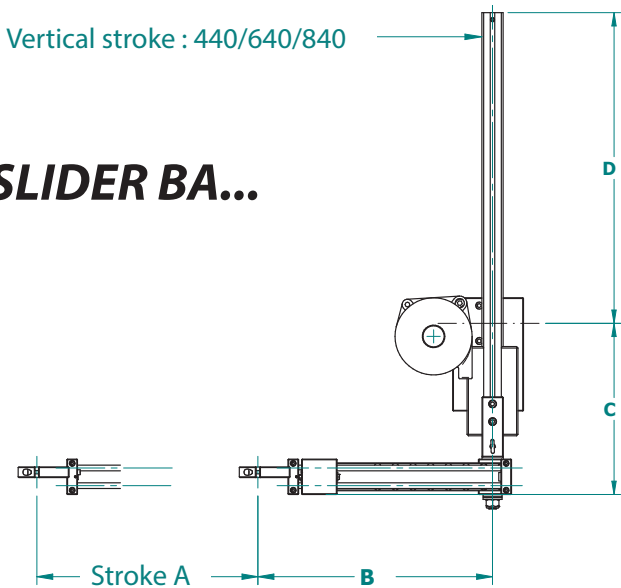
SLIDER BA / SLIDER BA...R

SLIDER BA...R

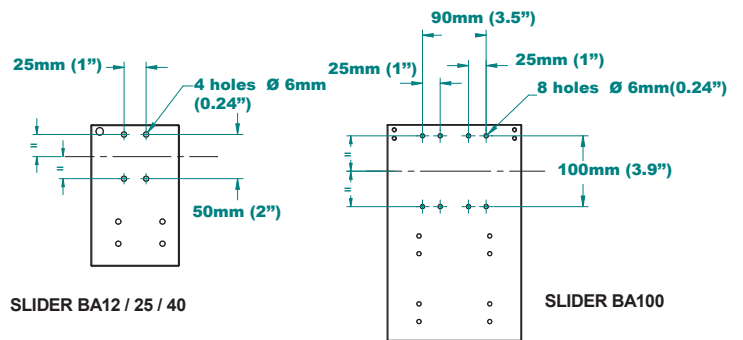


	A		B min		B max		Operating radius at 120°		C		D	
	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)
SLIDER BA 12 R	261	(10)	102	(4.0)	252	(10)	450	(18)	370	(15)	440	(17)
SLIDER BA 25 R	278	(11)	95	(3.7)	245	(10)	460	(18)	394	(16)	425	(17)
SLIDER BA 25 R/600	336	(13)	305	(12)	330	(13)	600	(24)	417	(16)	425	(17)
SLIDER BA 40 R	388	(15)	150	(5.9)	350	(14)	650	(26)	482	(19)	419	(17)
SLIDER BA 40 R/800	470	(19)	415	(16)	415	(16)	800	(32)	496	(20)	419	(17)
SLIDER BA 100 R	433	(17)	205	(8.1)	405	(16)	730	(29)	597	(24)	358	(14)
SLIDER BA 100 R/900	528	(21)	470	(19)	520	(20)	900	(35)	634	(25)	358	(14)

SLIDER BA...



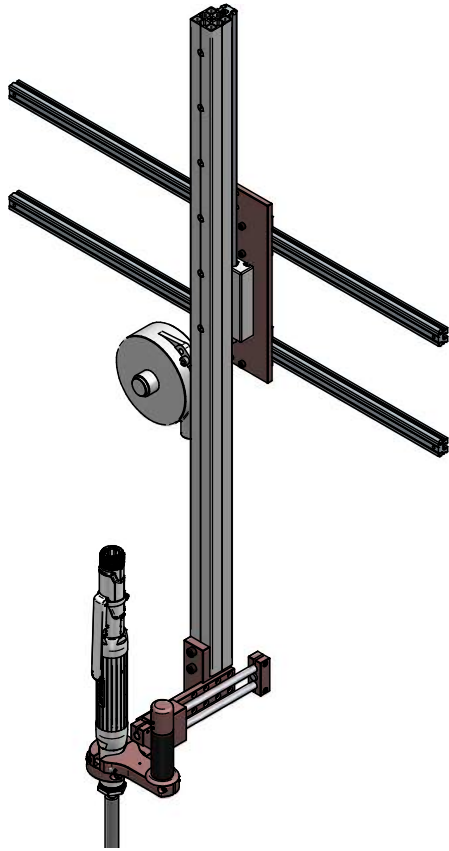
Mounting dimensions



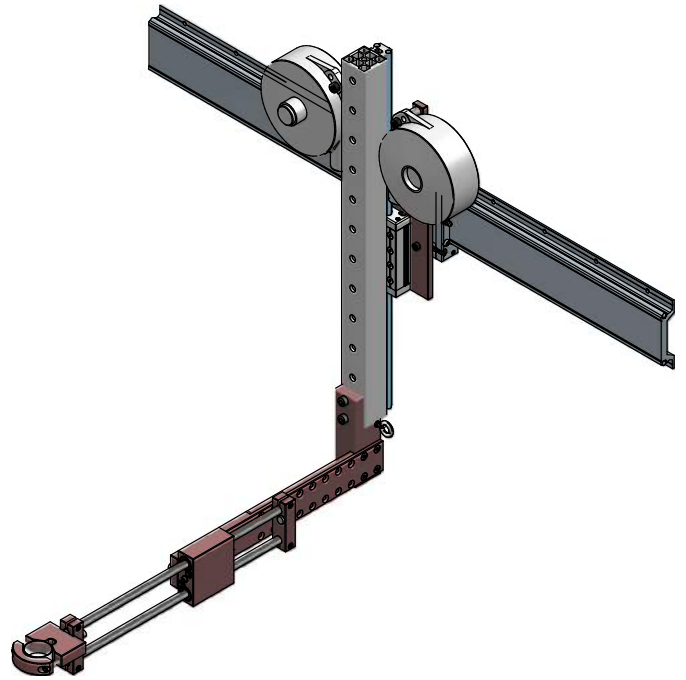
Model	Stroke A		B min		B max		C		D	
	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
SLIDER BA 12	225	(8.9)	186	(7.3)	336	(13)	246	(9.7)	436	(17)
SLIDER BA 25	250	(9.8)	221	(8.7)	396	(16)	250	(9.8)	436	(17)
SLIDER BA 40	295	(12)	260	(10)	460	(18)	314	(12)	419	(17)
SLIDER BA 100	330	(13)	315	(12)	515	(20)	395	(16)	358	(14)

Suspended arms

Special applications



SLIDER BA25C on double rail



SLIDER 40C on large rail



SLIDER BA12C on large rail

Position control system

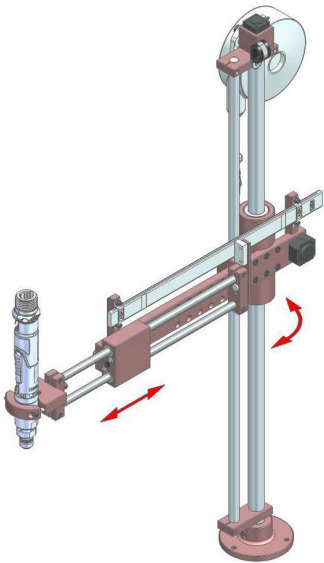
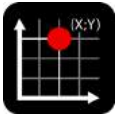
Improve manufacturing quality with a zero-fault process. Position Control systems are ideal sequencing, error-proofing and positioning units. Compatible with air, electric and DC tools. The assembly process remains under control regardless of operator qualifications.

- Page 42 • Position Control Systems
- Page 43 to 45 • DPCTouch Controller
- Page 46 to 47 • Linear arms [BA...PC series]
- Page 48 to 49 • Articulated arms [BA...RPC Series]
- Page 50 to 53 • Carbon fiber telescoping arms [DMF...PC Series]
- Page 54 to 56 • Suspended arms [Slider BA...PC/RPC Series]

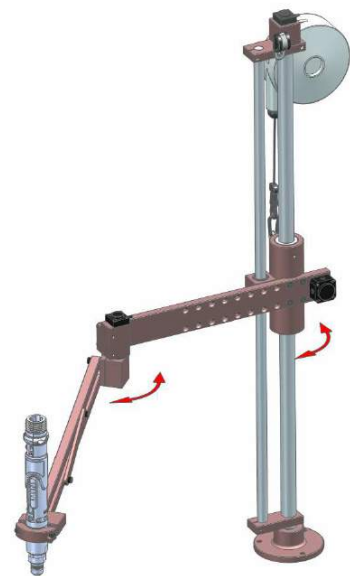


DPCTouch Controller

POSI-CONTROL System



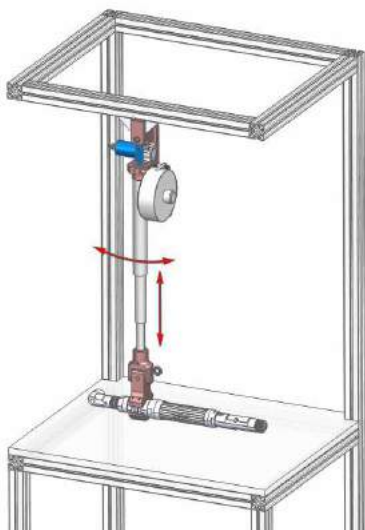
Linear arms BA...PC series



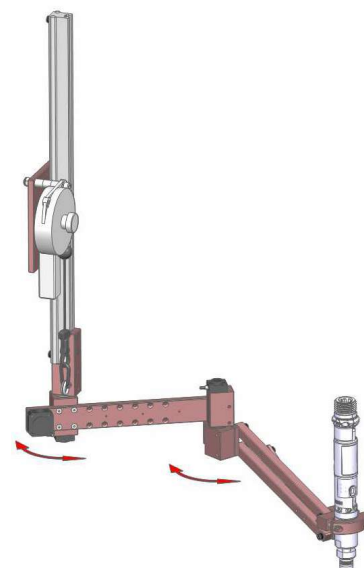
Articulated arms BA...RPC series



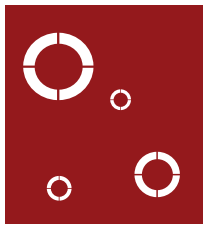
- Zero-fault process
- Error proofing
- Sequencing
- Suitable with air and electric tools
- Automated device management



Telescoping arms DMF...PC series

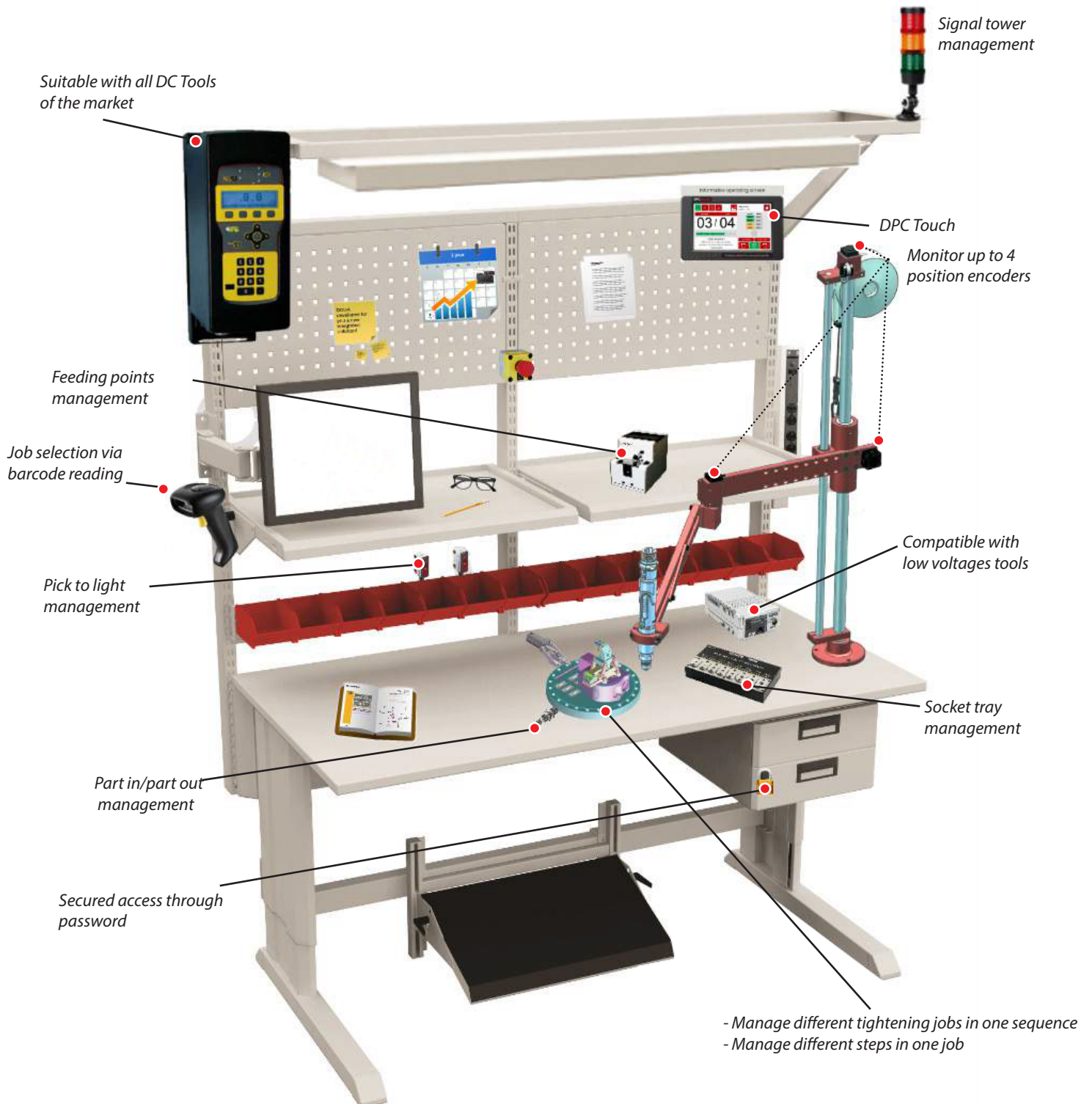


Suspended arms Slider BA...RPC series



POSI-CONTROL System

- Allows setup of customized logical sequences for fastenings, messages and I/O.
- More than a sequencing and Poka-Yoke controller the DPC Touch may easily manage the automation devices of your workstation on assembly line.



POSI-CONTROL DPC TOUCH

Powerful - user friendly - versatile



• TECHNICAL FEATURES :

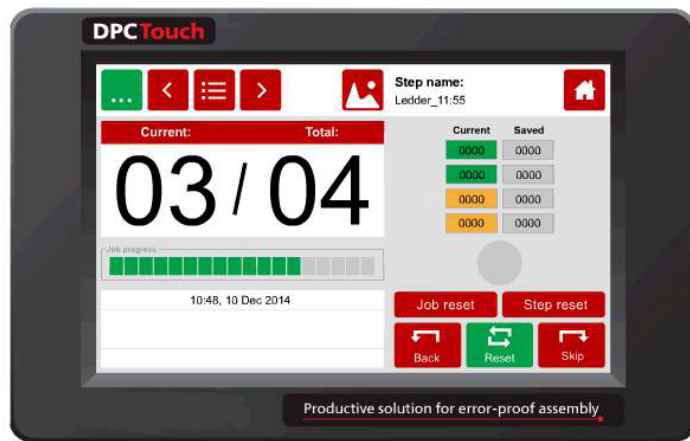
Dimensions : 202 x 127 x 38mm (8" x 5" x 1.5")

Weight : 550g (1.2lbs)

I/O : 12 inputs, 12 outputs, 24vdc

LCD screen : 7" touchscreen (800 x 480px)

Encoders : up to 4 encoders (0 - 5vdc)



Power supply

2 ports for low voltage screwdrivers

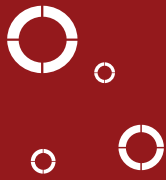
12 inputs/12 outputs (assignable)

Encoders port

RS232 port (firmware upgrade and bar code reading/Job selection)

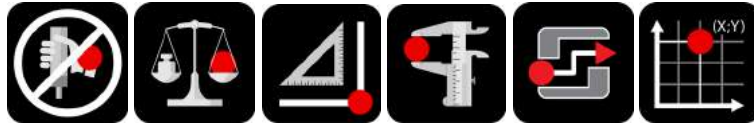
- Fast and powerful :
 - Proprietary operating system.
 - Up to 255 programmable jobs !
 - Up to 255 steps per jobs !
 - Up to 99 positions per step !
 - Up to 4 position encoder inputs.
- User friendly :
 - Embedded software.
 - Touch screen.
 - Self-teaching sequencing.
 - Smart tolerance detection.
 - Process and sequence visualization with operator instructions.
- Versatile :
 - Compatible with all DC Tools, low voltage and air tools.
 - Poka-yoke (mistake-proofing) and/or sequence controller.
 - Assignable I/O.
 - Compatible with screw feeders.
 - Open job structure allows customizable logic sequences.
 - Management of automated devices.

Model	Code
DPC Touch	4-1290016
DPC Touch / GX, GY, DO, GA cable	4-1290008
DPC Touch / HD, SD cable	4-1290013
DPC Touch / Stanley TAU/THETA cable	4-5241036
DPC Touch / Stanley KAPPA ALPHA IV cable	4-5241050
DPC Touch / Stanley ALPHA V cable	4-5241051
DB9 3m/free wires (4 outputs/3 inputs) cable	4-5200542
DB25 3m/free wires (9 outputs/12 inputs) cable	4-5200770
DB44 3m/free wires (12 outputs/12 inputs) cable	4-1290009
Air kit for pneumatic tool / DPC Touch	4-5200771
Firmware upgrade kit	4-1290023
DPC Touch cable/2 arms	4-5200012
DPC Touch cable/MDC	4-1252006
Adapter cable I/O44P/25P+9P	4-1290007



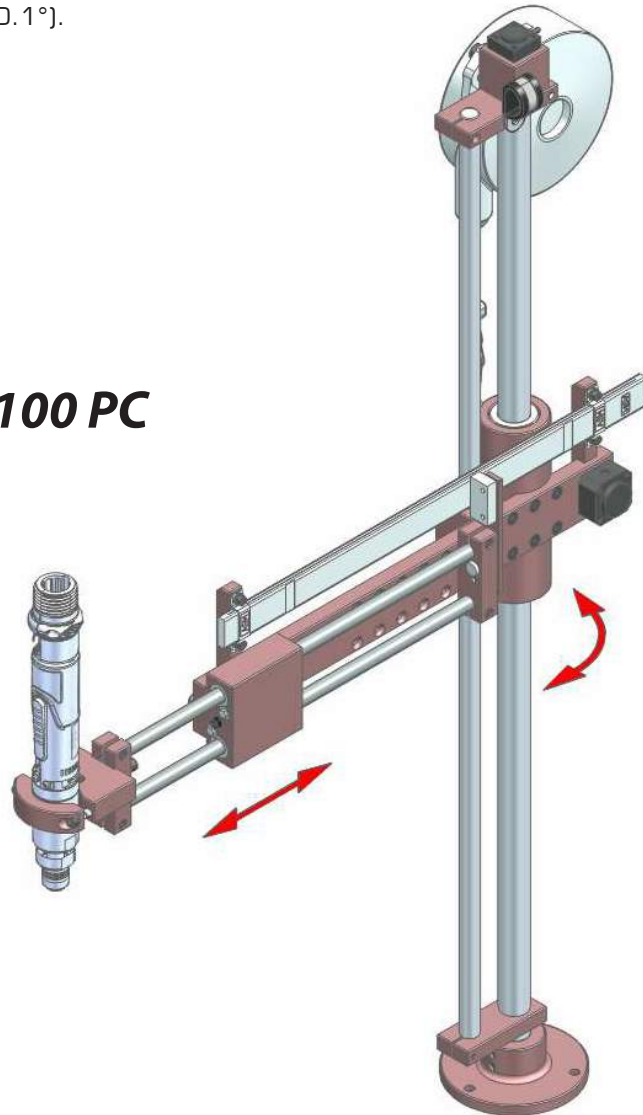
Linear arms

BA...PC Series



- Torque capacity up to 100 Nm (74 lbf•ft).
- Equipped with absolute, 12bit, angle encoders (0.1°).
- Higher torque versions available on request.

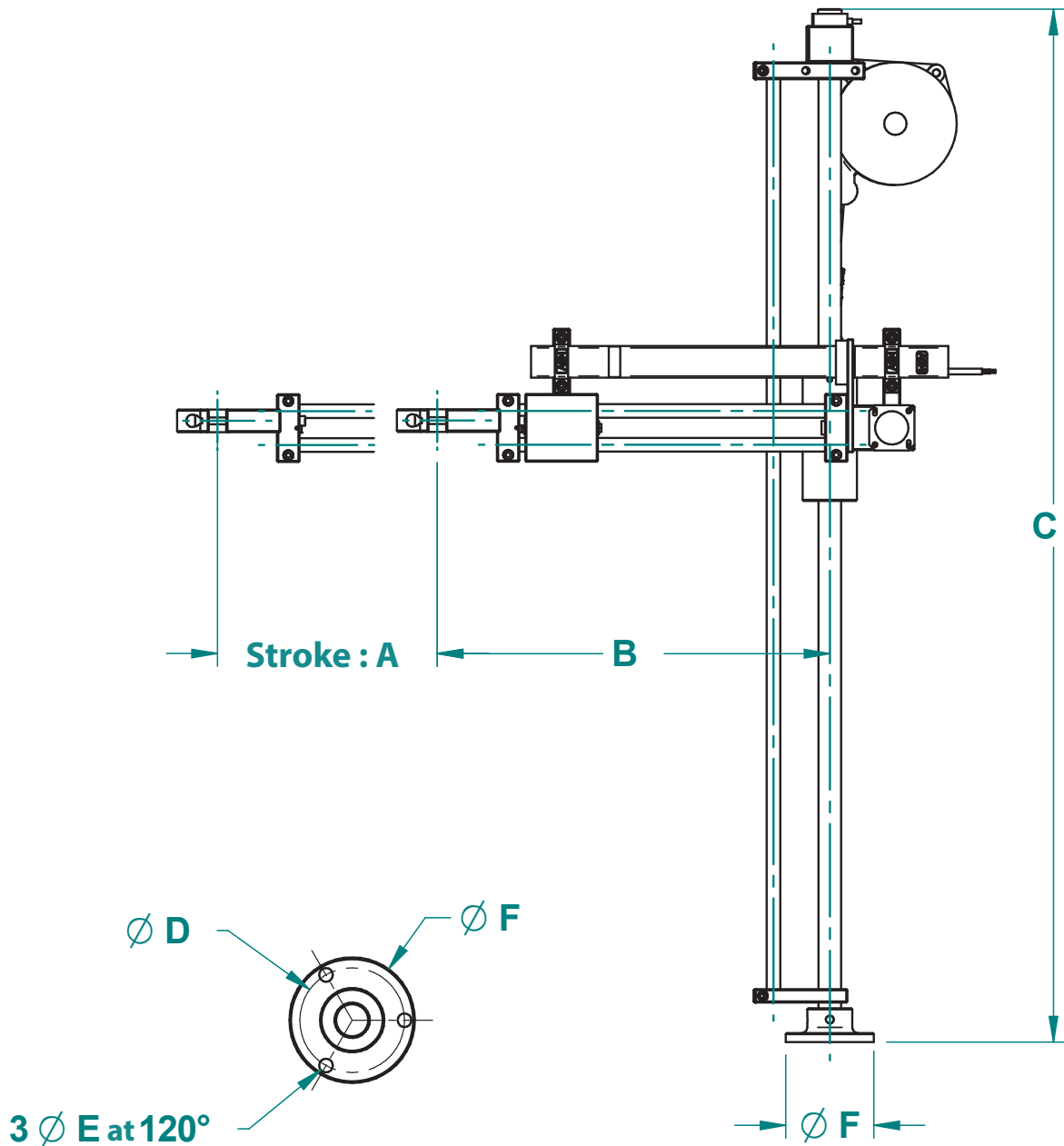
BA 12/25/40/100 PC



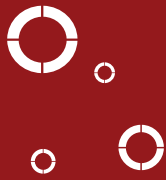
Model	Torque max		Tool Ø		Stroke		Max load		Code
	Nm	(lbf•ft)	mm	(in)	mm	(in)	kg	(lbs)	
BA 12 PC	12	(9)	27-50	(1.1-1.9)	195	(7.7)	1.2	(2.6)	4-5201542
BA 25 PC	25	(18)	28-52	(1.1-2)	195	(7.7)	2.2	(4.9)	4-5201543
BA 40 PC	40	(30)	28-52	(1.1-2)	295	(11.6)	3	(6.6)	4-5201544
BA 40 PC/400	40	(30)	28-52	(1.1-2)	395	(15.6)	3	(6.6)	4-5201545
BA 100 PC	100	(74)	28-52	(1.1-2)	295	(11.6)	4	(8.8)	4-5201546
BA 100 PC/400	100	(74)	28-52	(1.1-2)	395	(15.6)	4	(8.8)	4-5201547

Linear arms

BA...PC Dimensions

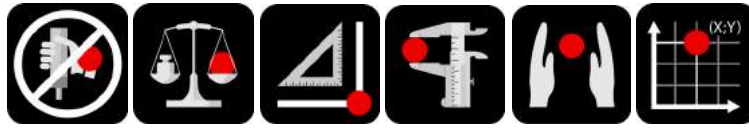


Model	Stroke A		B min		B max		C		D		E		F	
	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)
BA 12 PC	195	(7.7)	186	(7.3)	336	(13.2)	816	(32.1)	65	(2.6)	8.5	(0.3)	78	(3.1)
BA 25 PC	195	(7.7)	201	(7.9)	351	(13.8)	916	(36.1)	65	(2.6)	8.5	(0.3)	78	(3.1)
BA 40 PC/300	295	(11.6)	320	(12.6)	470	(18.5)	1016	(40)	100	(3.9)	8.5	(0.3)	118	(4.6)
BA 40 PC/400	395	(15.6)	420	(16.5)	570	(22.4)	1016	(40)	100	(3.9)	8.5	(0.3)	118	(4.6)
BA 100 PC/300	295	(11.6)	335	(13.2)	485	(19.1)	1016	(40)	126	(5)	10.5	(0.4)	148	(5.8)
BA 100 PC/400	395	(15.6)	435	(17.1)	585	(23.0)	1016	(40)	126	(5)	10.5	(0.4)	148	(5.8)



Articulated arms

BA...RPC Series



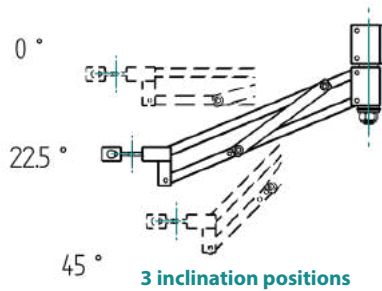
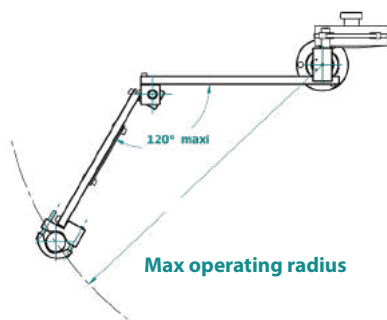
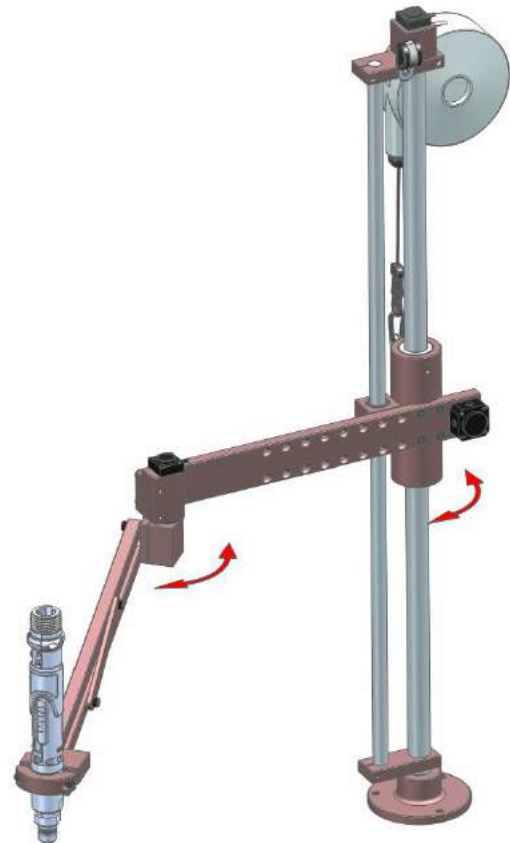
- Torque capacity up to 100 Nm (74 lbf•ft).
- Operating range up to 1100 mm (43").
- Equipped with absolute, 12bit, angle encoders (0.1°).
- Higher torque versions available on request.



Option

Z-axis encoder option for BA RPC. **Code : 4-5283125.**
 Cable for Z-axis encoder option. **Code 4-5200725.**

BA 12/25/40/100 RPC



Model	Max torque		Tool Ø		Operating radius at 22,5°		Max load		Code
	Nm	(lbf•ft)	mm	(in)	mm	(in)	kg	(lbs)	
BA 12 RPC	12	(8.9)	27-50	(1.1-1.9)	450	(17.7)	1.2	(2.6)	4-5201548
BA 25 RPC	25	(18)	28-52	(1.1-2)	460	(18.1)	2.2	(4.9)	4-5201549
BA 25 RPC/600	25	(18)	28-52	(1.1-2)	600	(243.6)	2.2	(4.9)	4-5201550
BA 40 RPC	40	(30)	28-52	(1.1-2)	650	(25.6)	3	(6.6)	4-5201551
BA 40 RPC/800	40	(30)	28-52	(1.1-2)	800	(31.5)	3	(6.6)	4-5201552
BA 100 RPC	100	(74)	28-52	(1.1-2)	730	(28.7)	4	(8.8)	4-5201553
BA 100 RPC/900	100	(74)	28-52	(1.1-2)	900	(35.4)	4	(8.8)	4-5200454
BA 100 RPC/1100	100	(74)	28-52	(1.1-2)	1100	(43.3)	3	(6.6)	4-5201555

Articulated arms

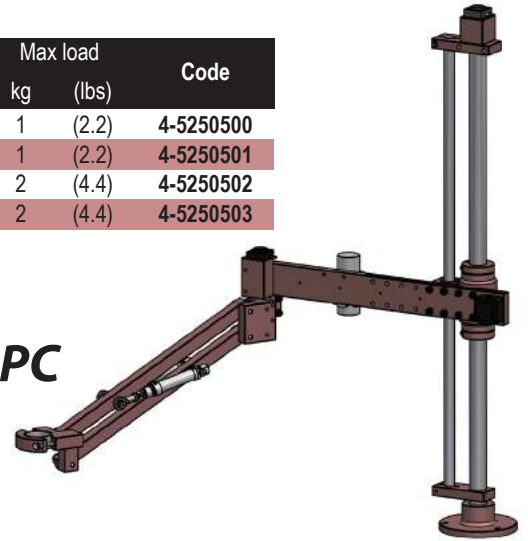
BA...RPC Series

Softly air balanced

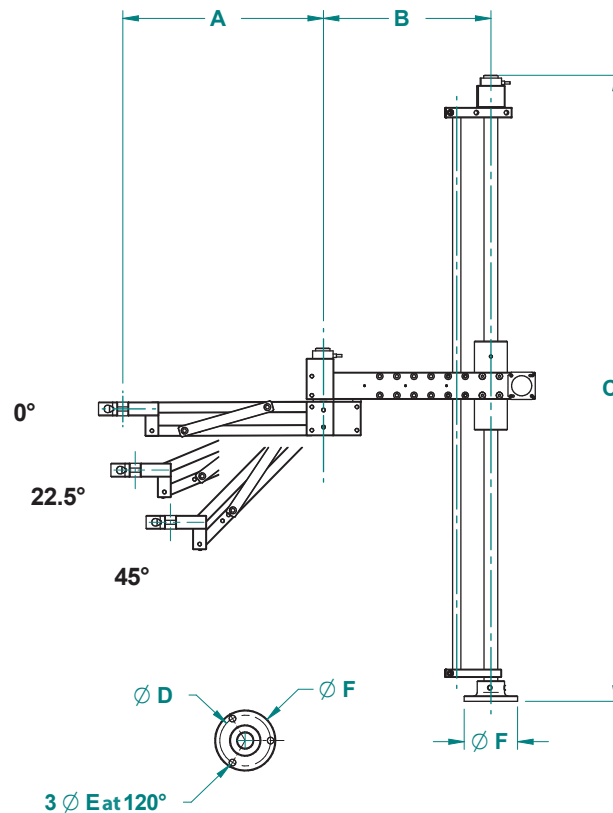
For	Max torque		Tool Ø		Operating range		Vertical stroke		Max load		Code
	Nm	(lbf ft)	mm	(in)	mm	(in)	mm	(in)	kg	(lbs)	
BA 10 GPC	10	(2.2)	27-50	(1.1-1.9)	470	(18.5)	170	(6.7)	1	(2.2)	4-5250500
BA 10 GPC/600	10	(2.2)	27-50	(1.1-1.9)	600	(23.6)	170	(6.7)	1	(2.2)	4-5250501
BA 30 GPC	30	(6.7)	28-52	(1.1-2)	670	(26.4)	220	(8.7)	2	(4.4)	4-5250502
BA 30 GPC/800	30	(6.7)	28-52	(1.1-2)	800	(31.5)	220	(8.7)	2	(4.4)	4-5250503

Drawing : see page 21.

BA 10/30 GPC

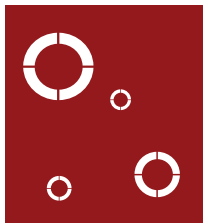


Dimensions BA...RPC



Model	At 0°		At 22.5°		At 45°		B min		B max		C		Operating radius at 22,5°	
	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)
BA 12 RPC	279	(11)	261	(10.3)	209	(8.2)	145	(5.7)	245	(9.6)	816	(32.1)	450	(17.7)
BA 25 RPC	296	(11.7)	278	(10.9)	227	(8.9)	145	(5.7)	245	(9.6)	916	(36.1)	460	(18.1)
BA 25 RPC/600	358	(14.1)	336	(13.2)	271	(10.7)	330	(13)	330	(13)	916	(36.1)	600	(23.6)
BA 40 RPC	414	(16.3)	387	(15.3)	310	(12.2)	200	(7.9)	350	(13.8)	1016	(40)	650	(25.6)
BA 40 RPC/800	503	(19.8)	470	(18.5)	374	(14.7)	415	(16.3)	415	(16.3)	1016	(40)	800	(31.5)
BA 100 RPC	462	(18.2)	433	(17)	351	(13.8)	255	(10)	405	(15.9)	1016	(40)	730	(28.7)
BA 100 RPC/900	564	(22.2)	528	(20.8)	425	(16.7)	520	(20.5)	520	(20.5)	1016	(40)	900	(35.4)
BA 100 RPC/1100	694	(27.3)	648	(25.5)	517	(20.4)	635	(25.0)	635	(25)	1016	(40)	1100	(43.3)

D, E, F similar to BA...R



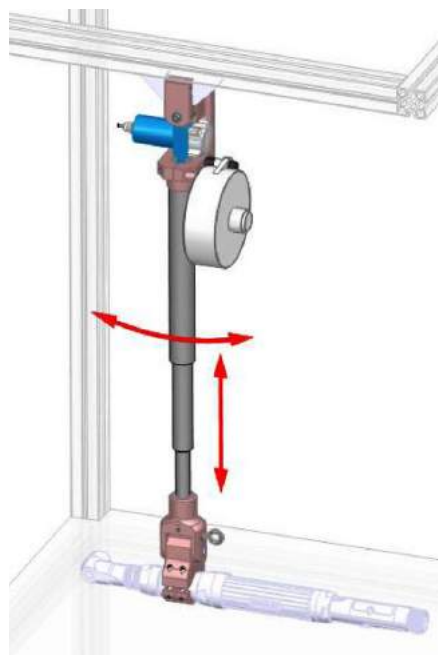
Carbon telescoping arms

DMF...PC Series



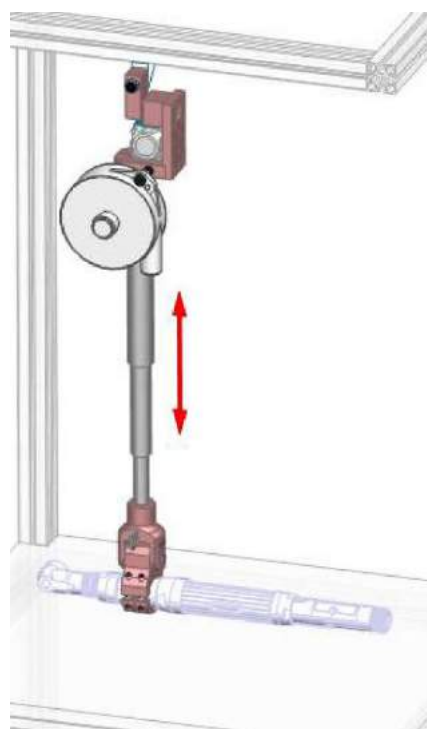
- Torque capacity up to 100 Nm (74 lbf•ft).
- Equipped with absolute, 12bit, angle encoders (0.1°).

↔ Monitored movement



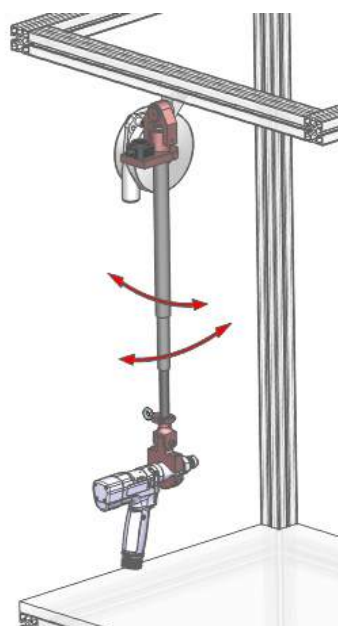
DMF LAPC

To monitor the angle and the length of the arm.



DMF LPC

To monitor the length of the arm.



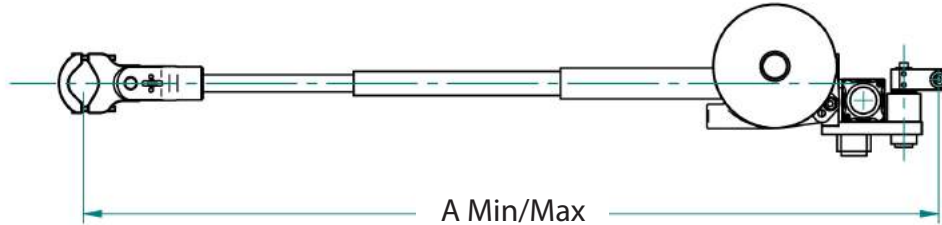
DMF AAPC

To monitor the inclination angle of the arm in both directions.

Carbon telescoping arms

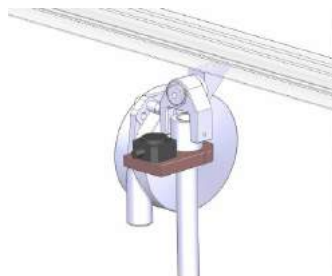
DMF...PC Series

DMF LPC/LAPC



Model	Torque		Clamp	Tool Ø		Min		Max		Code with-out clamp	Code with clamp
	Nm	(lbf·ft)		mm	(in)	mm	(in)	mm	(in)		
DMF 30 LPC/960	30	(6.7)	P1	28-52	(1.1-2)	560	(22)	960	(37.8)	4-5200588	4-5200581
DMF 30 LPC/1500	30	(6.7)	P1	28-52	(1.1-2)	727	(28.6)	1500	(59.1)	4-5200589	4-5200582
DMF 30 LPC/2000	30	(6.7)	P1	28-52	(1.1-2)	894	(35.2)	2000	(78.7)	4-5200590	4-5200583
DMF 80 LPC/1500	80	(18)	P2	35-52	(1.4-2)	780	(30.7)	1500	(59.1)	4-5200591	4-5200584
DMF 80 LPC/2000	80	(18)	P2	35-52	(1.4-2)	947	(37.3)	2000	(78.7)	4-5200592	4-5200585
DMF 140 LPC/1500	140	(31.5)	P2	35-52	(1.4-2)	991	(39)	1500	(59.1)	4-5200593	4-5200586
DMF 140 LPC/2000	140	(31.5)	P2	35-52	(1.4-2)	1241	(48.9)	2000	(78.7)	4-5200594	4-5200587
DMF 300 LPC/1500	300	(67.4)	P2	Max 73	(2.9)	1055	(41.5)	1500	(59.1)	4-5200860	4-5200862
DMF 300 LPC/2000	300	(67.4)	P2	Max 73	(2.9)	1305	(51.4)	2000	(78.7)	4-5200861	4-5200863
DMF 30 LAPC/960	30	(6.7)	P1	28-52	(1.1-2)	560	(22)	960	(37.8)	4-5200662	4-5200595
DMF 30 LAPC/1500	30	(6.7)	P1	28-52	(1.1-2)	727	(28.6)	1500	(59.1)	4-5200663	4-5200596
DMF 30 LAPC/2000	30	(6.7)	P1	28-52	(1.1-2)	894	(35.2)	2000	(78.7)	4-5200664	4-5200597
DMF 80 LAPC/1500	80	(18)	P2	35-52	(1.4-2)	780	(30.7)	1500	(59.1)	4-5200665	4-5200598
DMF 80 LAPC/2000	80	(18)	P2	35-52	(1.4-2)	947	(37.3)	2000	(78.7)	4-5200666	4-5200599
DMF 140 LAPC/1500	140	(31.5)	P2	35-52	(1.4-2)	991	(39)	1500	(59.1)	4-5200667	4-5200660
DMF 140 LAPC/2000	140	(31.5)	P2	35-52	(1.4-2)	1241	(48.9)	2000	(78.7)	4-5200668	4-5200661
DMF 300 LAPC/1500	300	(67.4)	P2	Max 73	(2.9)	1055	(41.5)	1500	(59.1)	4-5200864	4-5200866
DMF 300 LAPC/2000	300	(67.4)	P2	Max 73	(2.9)	1305	(51.4)	2000	(78.7)	4-5200865	4-5200867

AAPC Option



Inclinometer may be installed on standard DMF arms (DMF30, DMFi 70/120/200) to monitor angular position.

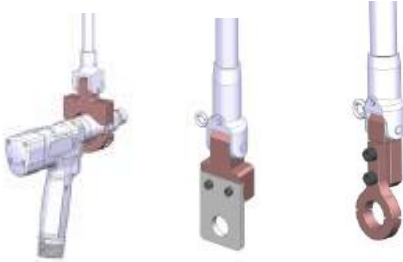
For	Code
DMF 30	4-5200809
DMFi 70/120/200	4-5200810

Delivered with DPC Touch cable.



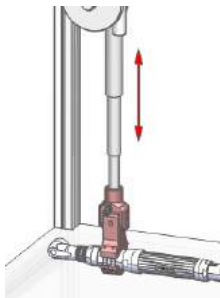
Carbon telescoping arms

Clamps for DMF...PC



P1 clamp

For	Tool Ø mm	Tool Ø (in)	Code
DMF 30	28-52	(1.1-2)	4-5244010
DMF 80/140	Mounting plate interface		On request
DMF 300	Mounting plate interface		On request



P2 clamp

For	mm	Tool Ø (in)	Code
DMF 30	28-52	(1.1-2)	4-5200300
DMF 80/140	35-52	(1.4-2)	4-5244012
DMF 300			On request

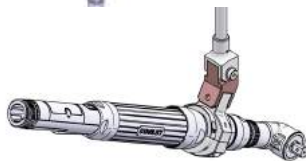
P3 clamp

For	mm	Tool Ø (in)	Code
DMF 30	28-52	(1.1-2)	4-5200301
DMF 80/140	35-52	(1.4-2)	4-5244014
DMF 300	Max 73	(2.9)	4-5244057



P4 clamp

For	mm	Tool Ø (in)	Code
DMF 30	28-52	(1.1-2)	4-5200302
DMF 80/140	35-52	(1.4-2)	4-5244016
DMF 300	Max 73	(2.9)	4-5244059



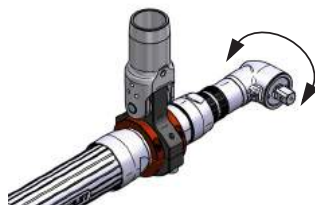
Tilting interface DMF30

For	Code
15°	4-5283168
30°	4-5283169



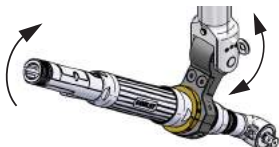
Tilting clamp

For	Tool Ø mm	Tool Ø (in)	Increment	Code
DMF 80/140	35-52	(1.4-2)	15°	On request



P2 Rotating clamp

For	Tool Ø mm	Tool Ø (in)	Code
DMF 30	43	(1.7)	4-5201134
DMF 80/140	50	(2)	4-5244035
DMF 300	70	(2.8)	4-5201136

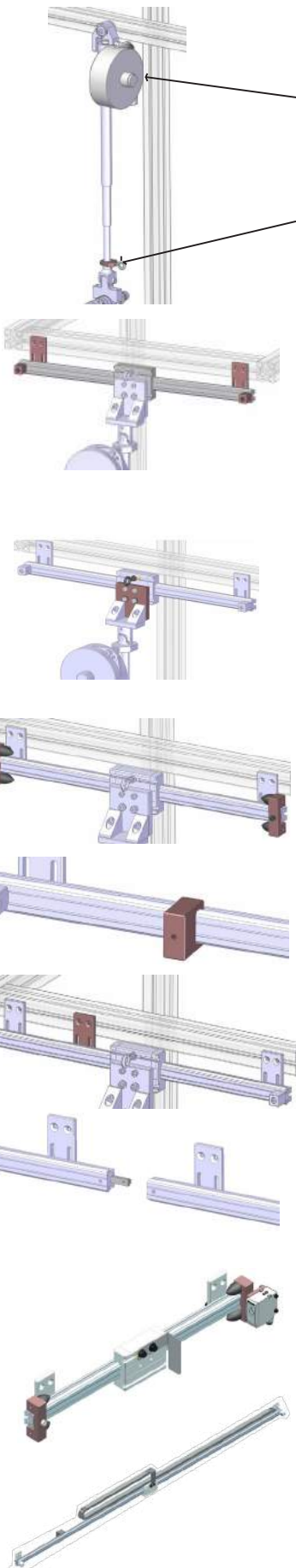


Tilting and rotating clamp

For	Tool Ø mm	Tool Ø (in)	Increment	Code
DMF 80/140	50	(2)	18°	4-5201206

Carbon telescoping arms

DMF...PC Accessories



Balancing kit for DMF...PC

Max load (kg)	Max load (lbs)	For	Code
1/2,5	(2.2-5.5)	DMF 30	4-5201568
2/4	(4.4-8.8)	DMF 30/80	4-5201569
4/6	(8.8-13)	DMF 80/140	4-5200306
4/8	(8.8-17)	DMF 300	4-5200704
6/10	(13-22)	DMF 300	4-5200705

Balancer attachment kit for DMF30 **Code 4-5201143.**

Rails

Length		Stroke		Bracket	Code
mm	(in)	mm	(in)	number	
600	(23.6)	450	(17.7)	2	4-5200132
800	(31.5)	650	(25.6)	2	4-5200160
1000	(39.4)	850	(33.5)	2	4-5200161
1200	(47.2)	1050	(41.3)	3	4-5200162
1500	(59.1)	1350	(53.1)	3	4-5200163
2000	(78.7)	1850	(72.8)	4	4-5200164

Rail interface

Allows installation of DMF on rail.

For	Code
DMF 30/80/140	4-5200341
DMF 300	4-5200342

NOTE : delivered without safety hook (**Code 4-5200309**)

Absorbing stop

Recommended in case of repeatable side shocks.

Code 4-5201121 Set of 2

Adjustable stop

To limit the slide of the arm on the rail.

Code 4-5200167

Additional flange

To reinforce the rail installation for high torque applications.

Code 4-5200873

Rail link

To link two rails together.

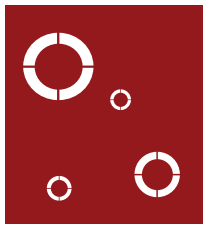
Code 4-5200307

Laser encoder

Model	Code
Laser encoders on rail	4-5250506
DPC Touch Y cable	4-5283174

Cable chain

Max stroke mm	Max stroke (in)	Code
1200	(47.2)	4-5250504
2000	(78.7)	4-5250505



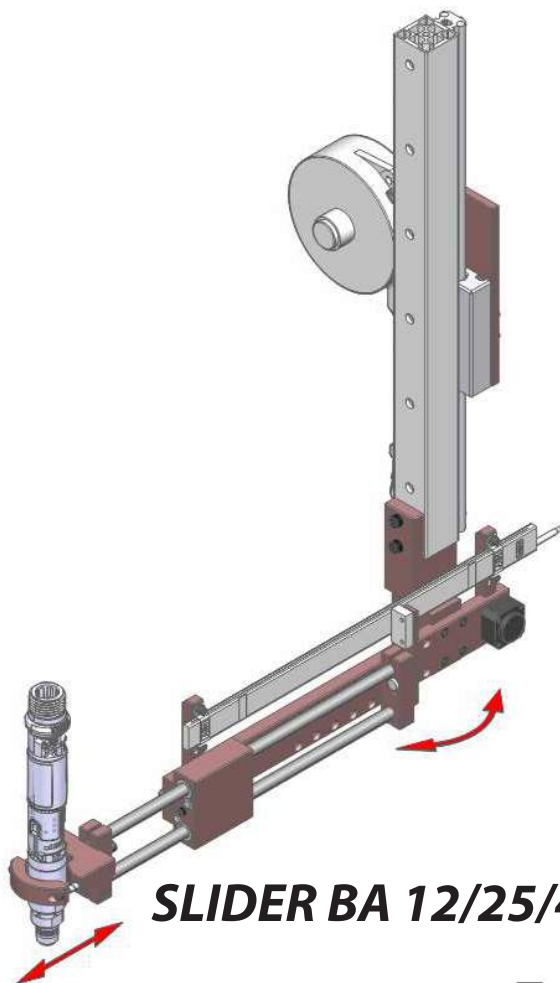
Suspended arms

SLIDER BA...PC/RPC

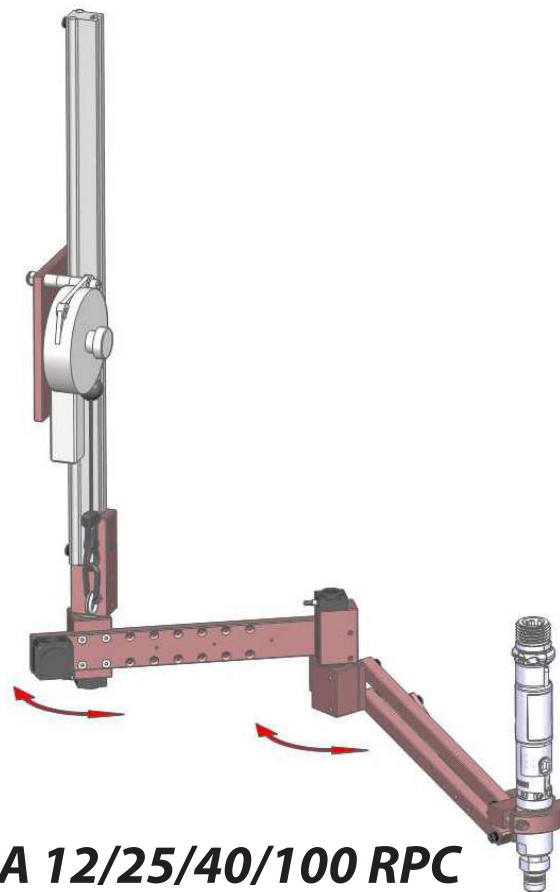


- Torque capacity up to 100 Nm (74 lbf·ft)
- Operating range up to 1100 mm (35")
- Equipped with absolute, 12bit, angle encoders (0.1°)
- Higher torque versions available on request

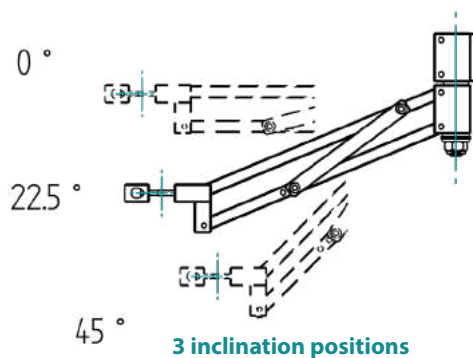
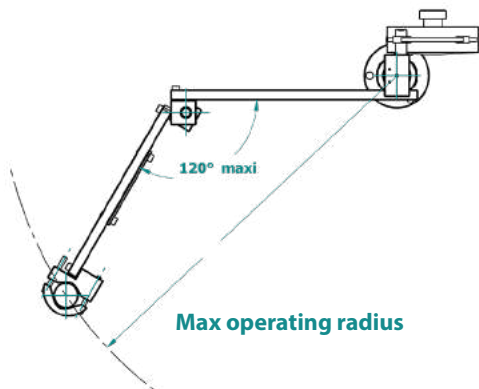
↔ Monitored movement



SLIDER BA 12/25/40 PC



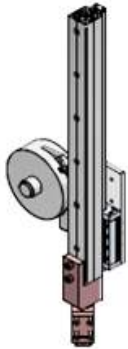
SLIDER BA 12/25/40/100 RPC



Suspended arms

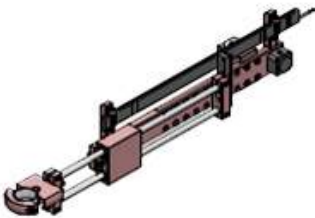
SLIDER BA...PC/RPC

Vertical slide



Model	Vertical stroke		Max load		Code
	mm	(in)	kg	(lbs)	
BA12PC/12RPC	440	(17.3)	1,2	(2.6)	4-5283175
BA12PC/12RPC	640	(25.2)	1,2	(2.6)	4-5283176
BA12PC/12RPC	840	(33.1)	1,2	(2.6)	4-5283177
BA25PC/25RPC	440	(17.3)	2,2	(4.9)	4-5283178
BA25PC/25RPC	640	(25.2)	2,2	(4.9)	4-5283179
BA25PC/25RPC	840	(33.1)	2,2	(4.9)	4-5283180
BA40PC/40RPC	440	(17.3)	3	(6.6)	4-5283181
BA40PC/40RPC	640	(25.2)	3	(6.6)	4-5283182
BA40PC/40RPC	840	(33.1)	3	(6.6)	4-5283183
BA100RPC	440	(17.3)	5	(11)	4-5283184
BA100RPC	640	(25.2)	5	(11)	4-5283185
BA100RPC	840	(33.1)	5	(11)	4-5283186

Horizontal linear slides



Model	Stroke		Clamp Ø		Code
	mm	(in)	mm	(in)	
BA12PC	225	(8.9)	27/50	(1.1-2)	4-5283187
BA25PC	250	(9.8)	28/52	(1.1-2)	4-5283188
BA40PC	295	(11.6)	28/52	(1.1-2)	4-5283189
BA100PC	295	(11.6)	28/52	(1.1-2)	4-5283190

Horizontal articulation

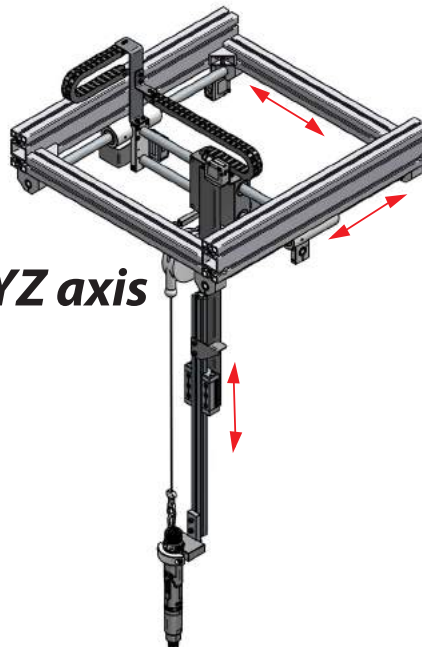


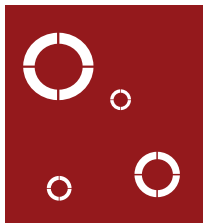
Model	Stroke		Clamp Ø		Code
	mm	(in)	mm	(in)	
BA12RPC	450	(17.7)	27-50	(1.1-1.9)	4-5283191
BA25RPC	460	(18.1)	28-52	(1.1-2)	4-5283192
BA25RPC/600	600	(23.6)	28-52	(1.1-2)	4-5283193
BA40RPC	650	(25.6)	28-52	(1.1-2)	4-5283194
BA40RPC/800	800	(31.5)	28-52	(1.1-2)	4-5283195
BA100RPC	730	(28.7)	28-52	(1.1-2)	4-5283196
BA100RPC/900	900	(35.4)	28-52	(1.1-2)	4-5283197

SLIDER CARTESIAN PC

Our cartesian slider may be equipped with position encoders on X, Y, Z axis.
Dimensions on request

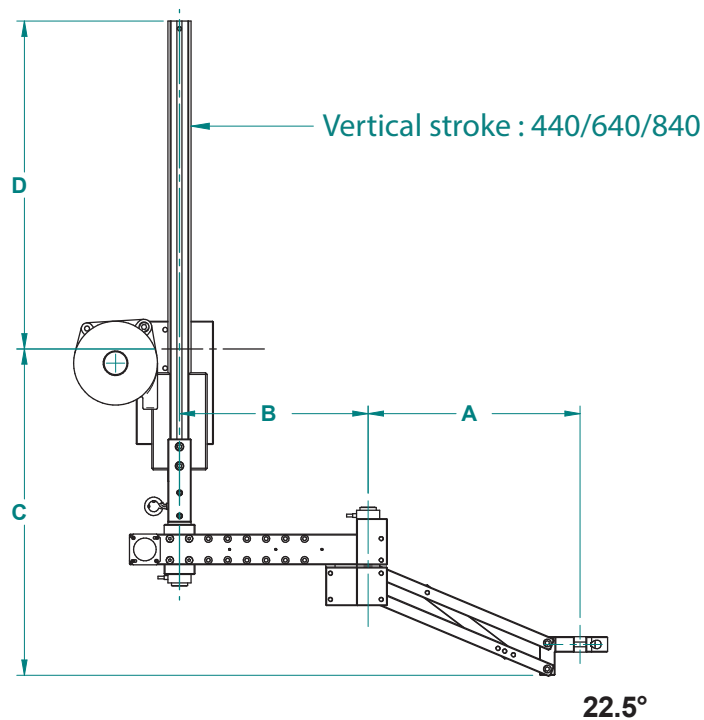
Laser encoders on XYZ axis





Suspended arms

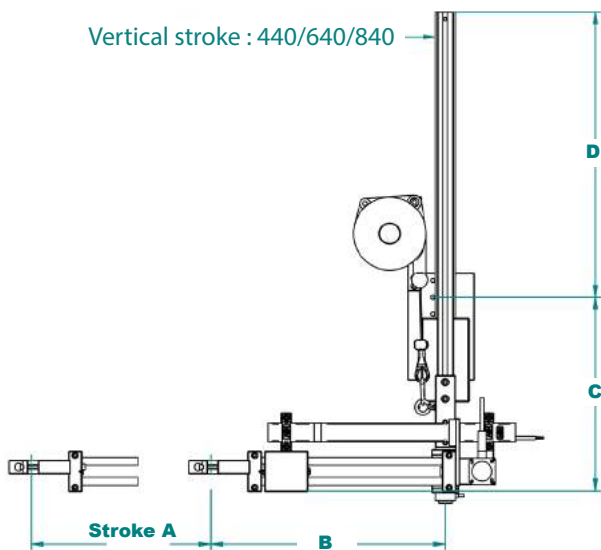
SLIDER BA...PC/RPC Series



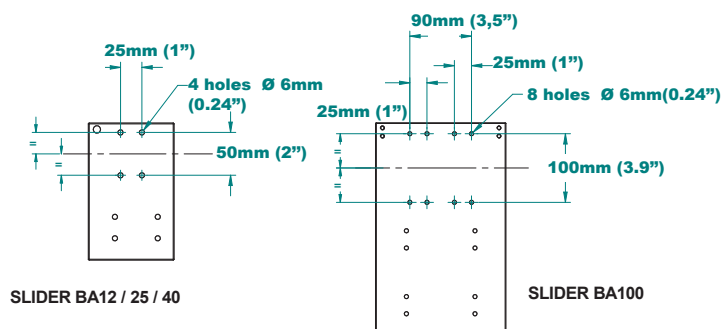
22.5°

Model	A		B min		B max		Max radius at 22.5°		C		D	
	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)
SLIDER BA 12 RPC	261	(10.3)	102	(4)	252	(9.9)	450	(17.7)	380	(15)	440	(17.3)
SLIDER BA 25 RPC	278	(10.9)	95	(3.7)	245	(9.6)	460	(18.1)	424	(16.7)	425	(16.7)
SLIDER BA 25 RPC/600	336	(13.2)	305	(12)	330	(13)	600	(23.6)	447	(17.6)	425	(16.7)
SLIDER BA 40 RPC	387.5	(15.3)	150	(5.9)	350	(13.8)	650	(25.6)	482	(19)	419	(16.5)
SLIDER BA 40 RPC/800	470	(18.5)	415	(16.3)	415	(16.3)	800	(31.5)	496	(19.5)	419	(16.5)
SLIDER BA 100 RPC	433	(17)	205	(8.1)	405	(15.9)	730	(28.7)	597	(23.5)	358	(14.1)
SLIDER BA 100 RPC/900	528	(20.8)	470	(18.5)	520	(20.5)	900	(35.4)	634	(25)	358	(14.1)

Vertical stroke : 440/640/840



Mounting plate details

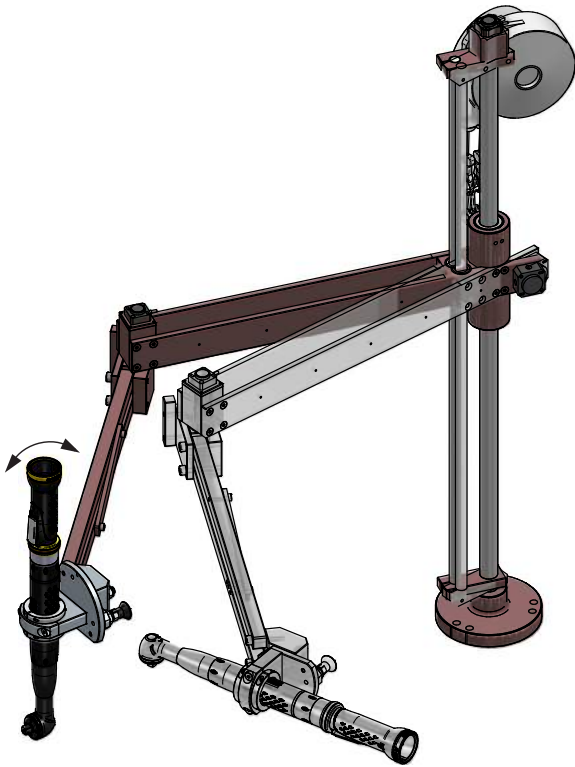


SLIDER BA12 / 25 / 40

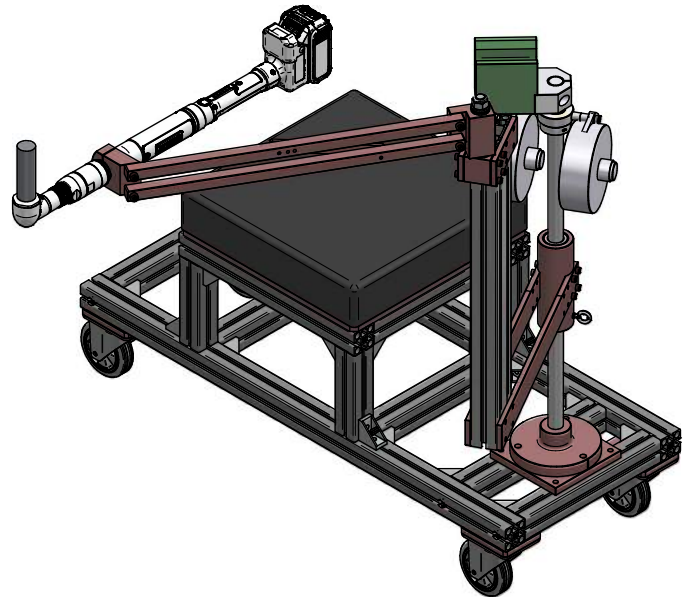
SLIDER BA100

Model	A		B min		B max		C		D	
	mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm	(in)
SLIDER BA 12 PC	195	(7.7)	335	(13.2)	530	(20.9)	273	(10.7)	439 / 639 / 839	(17.3 / 25.2 / 33)
SLIDER BA 25 PC	195	(7.7)	350	(13.8)	545	(21.5)	290	(11.4)	426 / 626 / 826	(16.8 / 24.6 / 32.5)
SLIDER BA 40 PC	295	(11.6)	470	(18.5)	765	(30.1)	310	(12.2)	423 / 623 / 823	(16.7 / 24.5 / 32.4)

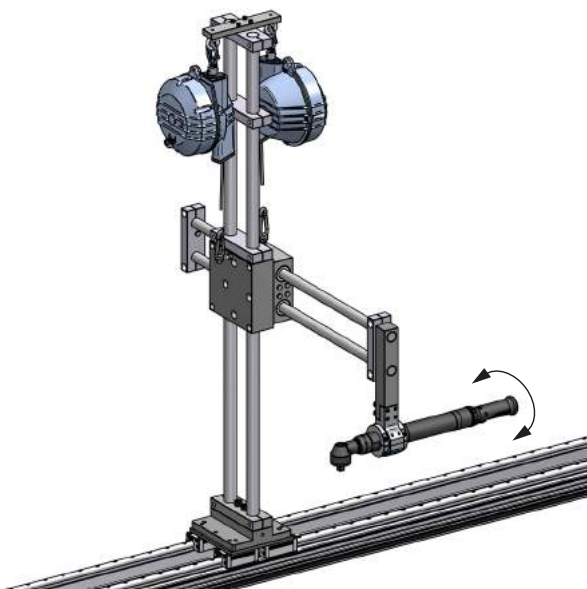
Special arms



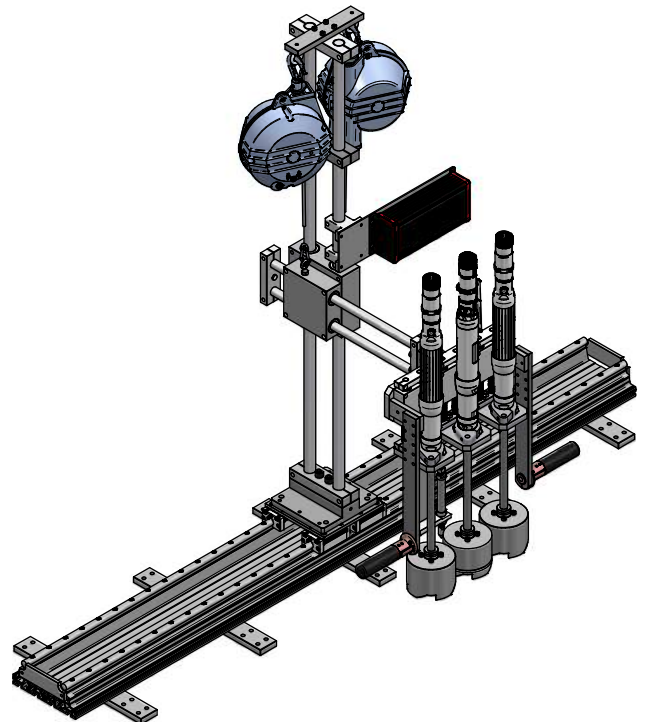
BA 100 RPC with tiltable rotating clamp



BA 100 R on roller carriage for under body tightening



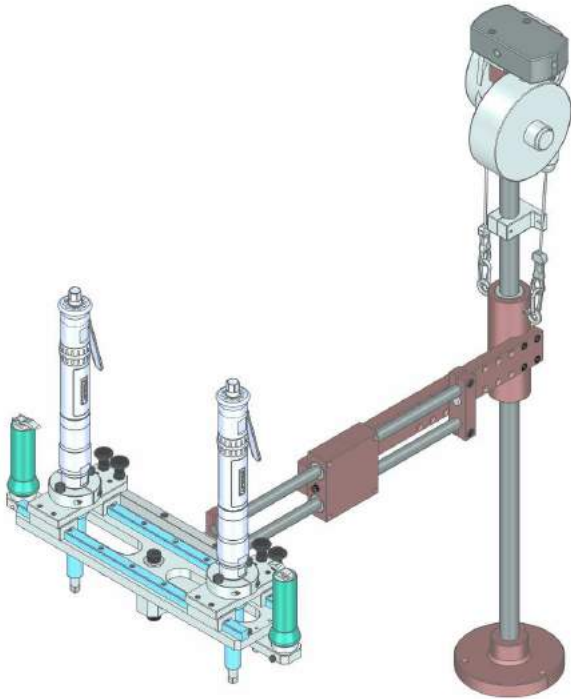
BA 200 C on rail with rotary clamp



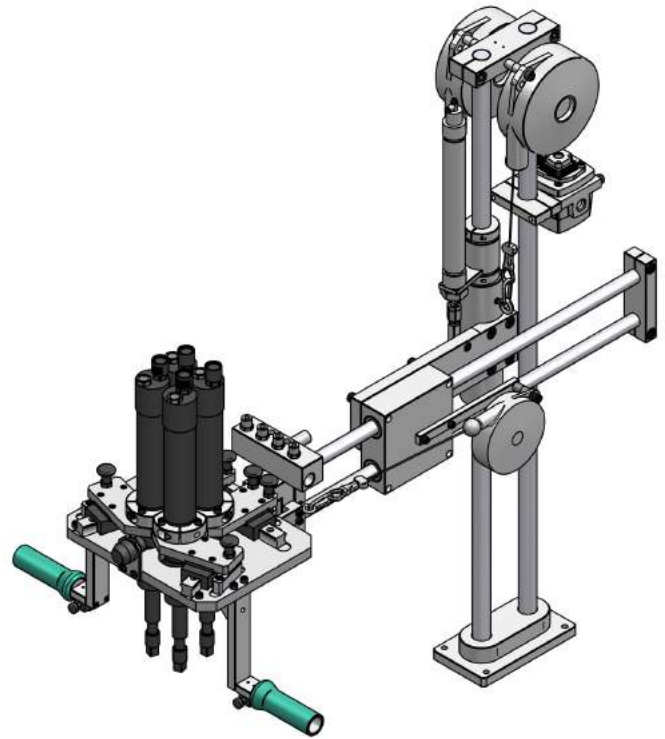
BA 200 C with 3 spindles on rail



Special arms



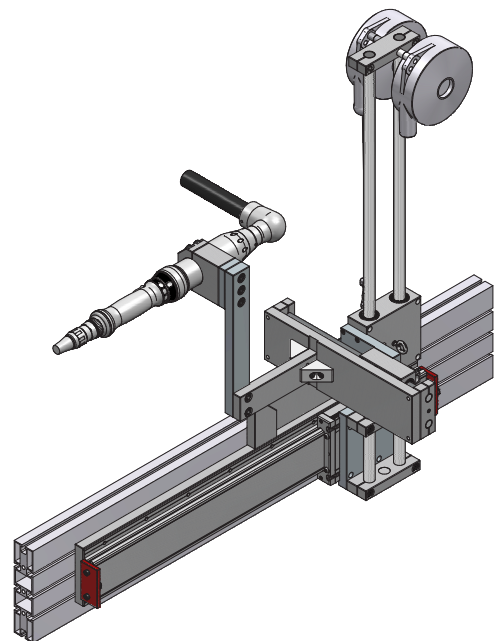
BA for double spindle with variable pitch



BA 200 with 4 spindles and easy push kit

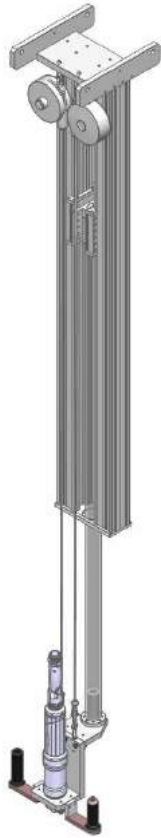


SLIDER 50 COMPACT with rail,
air locker and rotary clamp

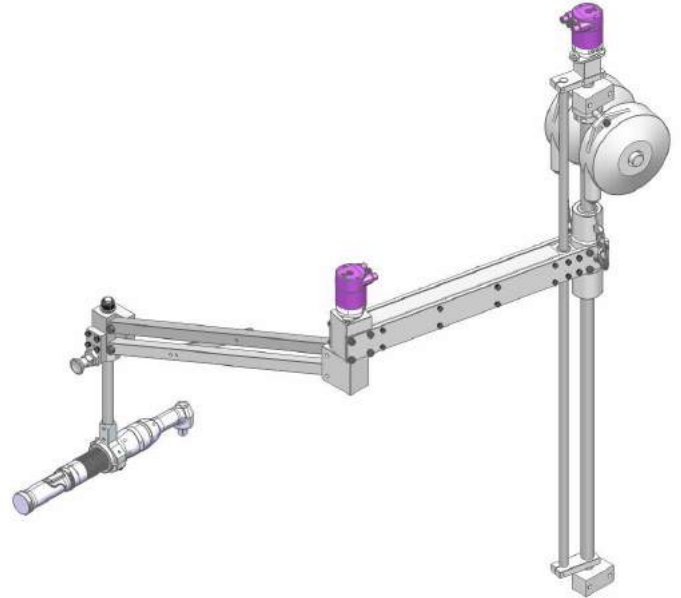


Cartesian arm with 3 axes

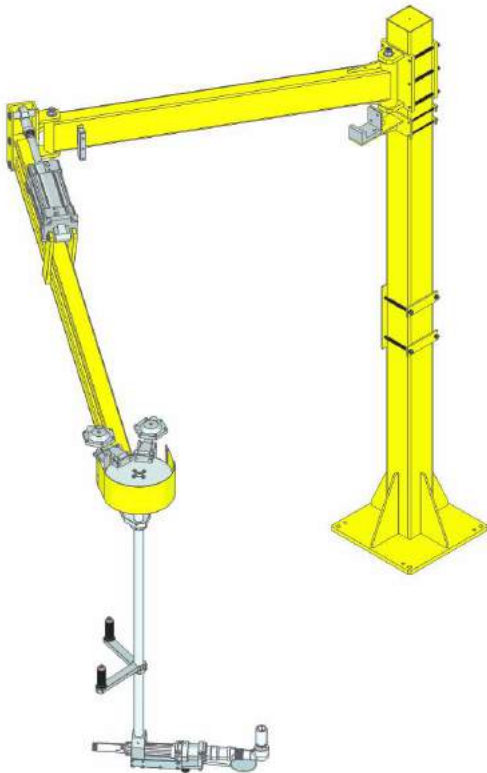
Special arms



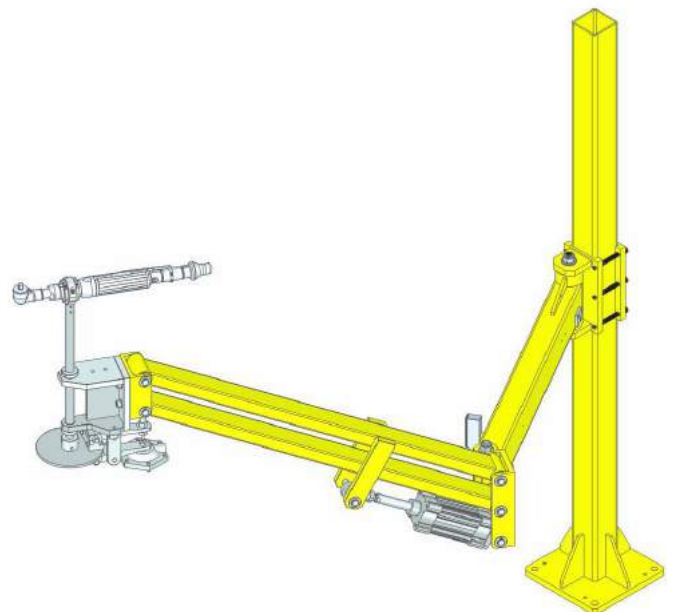
SLIDER 300 COMPACT for straight nutrunner



BA 180 R with Profinet encoders, rotating and swiveling clamp

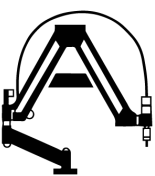


BA 500R/3000 with disk brake and rotary clamp



BA 200 R for under body tightening with disk brake and rotary clamp

FlexArm



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We are constantly working on improving our products. Therefore, some information in this brochure may become outdated. Please refer to our web site to download the latest version.