

3arm[®]

america

AHB

TOOLING & MACHINERY

COMPLETE
METALWORKING
SOLUTIONS

(800) 991-4225

www.ahbinc.com

ISO Certified

customerservice@ahbinc.com



ERGONOMIC SOLUTIONS | 2015
Catalog

www.3armamerica.com



3 Arm is a division of the Tecnospiro Machine Tool Company located in Sant Joan de Vilatorrada, Spain a small village about 40 miles west of Barcelona. Tecnospiro is a small family owned company which has been in business since the 60s. They have a state of the art manufacturing facility and a dynamic engineering staff that has been very innovative when it comes to design and inventing new products. The 3Arm ergonomic arm is the strongest, most dependable arm available in the world market place today. It can be used for assistance in assembly, deburring, off line machining, and all types of lifting operations. Any situation in which productivity, quality or operator fatigue and employee safety are of concern, 3Arm has a solution. The EuroLink has been the North American representative and importer since 2006.



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SAFETY WARNING 3ARM-America products are engineered and manufactured with safety in mind. The heat treat specifications exceed or meet all standards. All of the products manufactured by 3ARM-America are designed to perform without any undue safety issues when caution, common sense and proper safety practices are followed. The use of cutting tools and toolholders is safe when proper application and protection guidelines are observed. Even when these proper precautions are taken, it is possible that fragments of a cutting tool, cutting material, or holding device may be thrown at a very high rate of speed and have potential to cause severe bodily harm. It is imperative that general safety precautions and safety glasses be used at all times.

INDEX

4 Series 1

weight range: 0-22 lbs
max reach: 44"
vertical distance: 42"

6 Series 2

weight range: 0-13 lbs
max reach: 34"
vertical distance: 22"

8 Series 3

weight range: 0-77 lbs
max reach: 68"
vertical distance: 42"

12 Series 4

weight range: 0-53 lbs
max reach: 58"
vertical distance: 54"

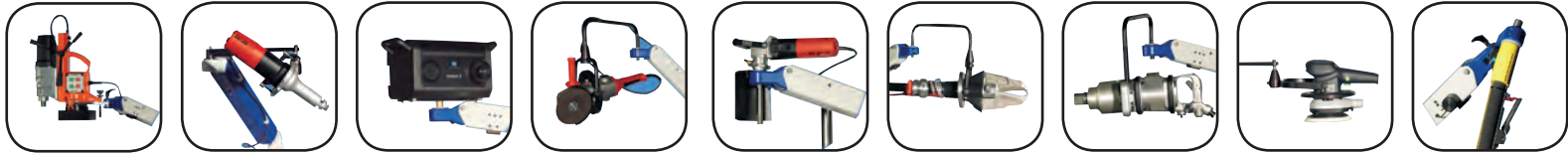
14 Series 6

weight range: 0-44 lbs
max reach: 86"
vertical distance: 26"

16 Accessories

18 Applications

ENGINEERED FOR YOUR APPLICATION



1 Choose the **ARM** that will meet your weight and reach requirements.

- Series 1 - up to 22 lbs (44")
- Series 2 - up to 13 lbs (34")
- Series 3 - up to 77 lbs (68")
- Series 4 - up to 53 lbs (57")
- Series 6 - up to 44 lbs (86")

**Increase productivity.
Decrease operator fatigue.**

4 Choose your **HEAD MEMBER**

- Vertical
- Vertical/horizontal
- Orbital attachment

3 Choose your **VERTICAL LIFT ARM**
What overall reach and vertical distance do you need?

5 Choose a **BRAKE** option

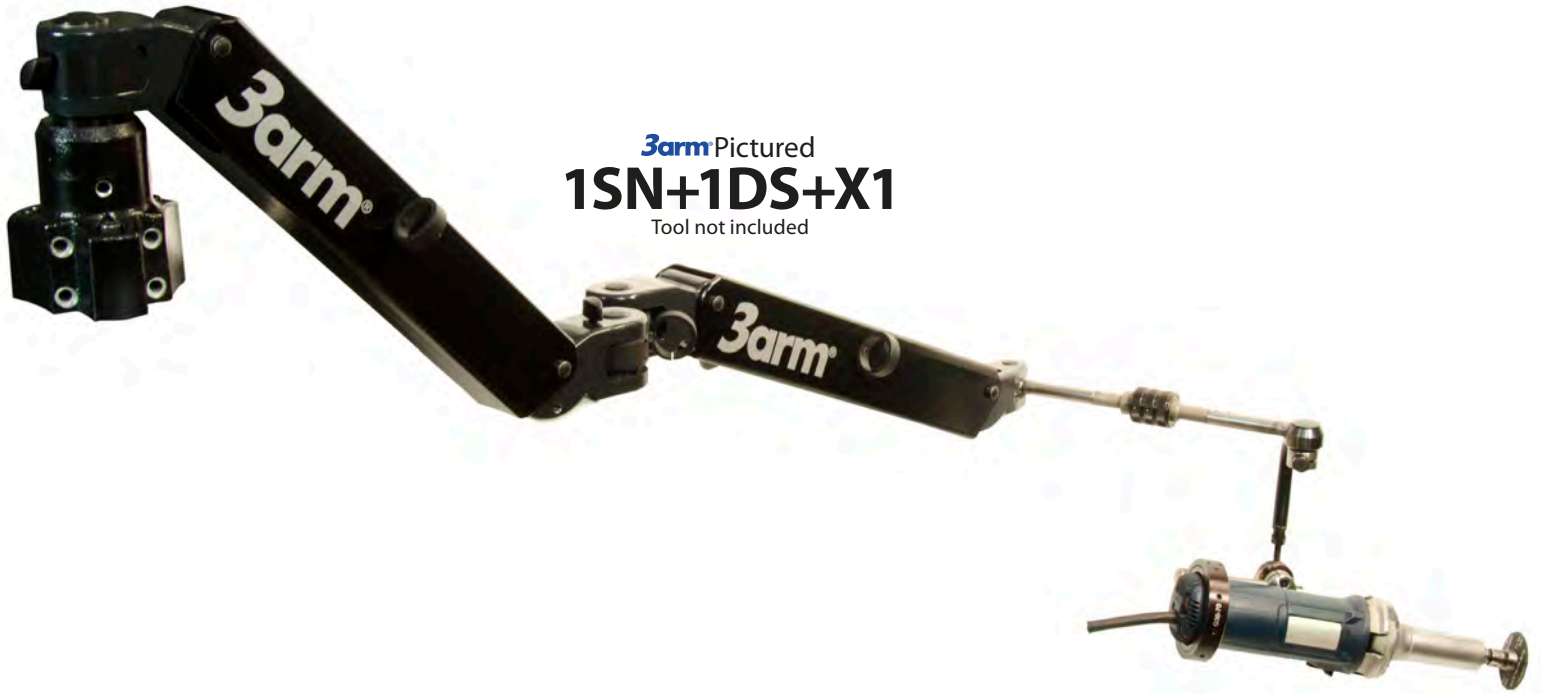
- Manual brakes
- Pneumatic brakes
- Without brakes

2 Choose your **BASE**
What type of mount do you need?

- Bottom
- Top
- Adjustable height base

Contact us and we'll engineer a solution for you!

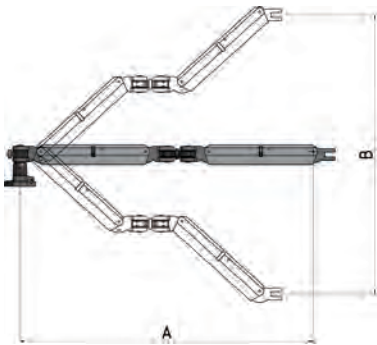
SERIES 1



3arm Pictured
1SN+1DS+X1
 Tool not included

Pick your Base Arm

Radial Base Arm



Arm Dimensions

Radial Base Arm	A (Maximum Reach)	B (Vertical Distance)
1SN+1DS	1120 mm / 44"	1070 / 42"

Pick your Head Member

Stationary

A1 Vertical



B1 Flat



C1 Adjustable



Articulating

D1 Vertical



E1 Flat



F1 Adjustable



Orbital Attachment

G1, X1 Quick Change Gimbal



N1 Pistol-Style Tool Holder with Quick Change Gimbal



T1 Pistol-Style Tool Holder with Quick Change Gimbal





Damper Weight Range








Add the head weight to the tool weight.
Look for the weight range desired in the table.

Example:
Head G1 4.4 lbs
Tool + 6.6 lbs
11.0 lbs

Use damper:
7.9 - 14.8 or
9.5 - 17

1SN + 1DS + Head Type

A1	B1
	
Load Range Min - lbs	
0.0	2.0
1.5	4.6
3.1	7.1
4.6	9.5
6.2	12.1
7.9	14.8
9.5	17.0
11.0	19.6
12.6	22.0

1.1 lbs	C1 	D1 	E1 
2.2 lbs	F1 	T1 	
3.3 lbs	N1 		
4.4 lbs	G1/X1 		

SERIES 2



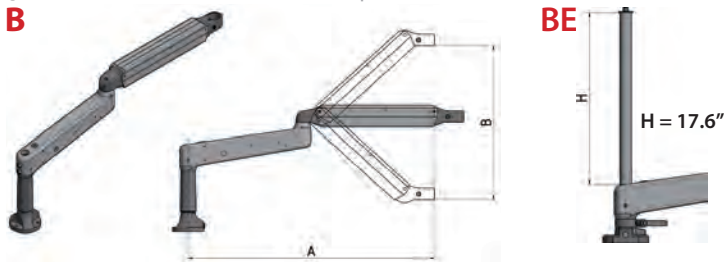
3arm Pictured
B+G2
Tool not included

Pick your Base Arm



Pick your Head Member

Bottom Radial Base Arm



Arm Dimensions

Radial Base	A (Maximum Reach)	B (Vertical Distance)
B	33.9"	22.2"
BE	33.9"	22.2"

Stationary

A2 Vertical



B2 Flat



C2 Adjustable



Articulating

D2 Vertical



E2 Flat



F2 Adjustable



Orbital Attachment

G2, X2 Quick Change Gimbal



N2 Pistol Style Tool Holder

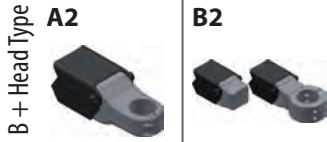


Damper Weight Range

Add the head weight to the tool weight.
 Look for the weight range desired in the table.

Example:
 Head G2 4.4 lbs
 Tool + 6.6 lbs
 11.0 lbs

Use damper:
 7.7 - 13.2



Load Range Min - lbs	
0.0	1.3
0.6	2.4
1.3	3.3
1.8	4.4
2.4	5.3
3.7	7.3
5.1	9.3
6.4	11.2
7.7	13.2

1.1 lbs	C2		D2		E2	
2.2 lbs	F2					
3.3 lbs	N2					
4.4 lbs	G2					

Work	HEAD Member	Max. Torque	
		Nm	ft-lbs
	Vertical		
	B2: Stationary Flat + Ring	120	88
	E2: Articulated Flat + Ring	60	44
	Horizontal		
	B2: Stationary Flat + Ring	90	66
	E2: Articulated Flat + Ring	60	44
	Any Angle		
	E2: Articulated Flat + Ring	60	44

SERIES 3



3arm Pictured
PS+BS+R3+L92
 Tool not included

Pick your Base Arm

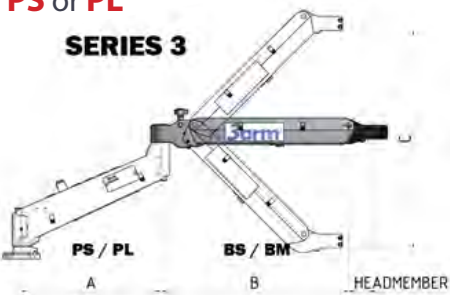


Pick your Tilt Arm

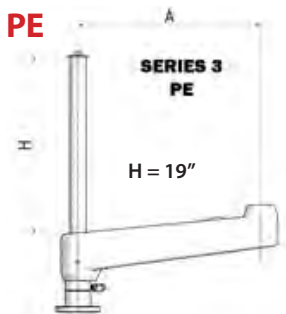


Bottom Radial Base Arm

PS or PL

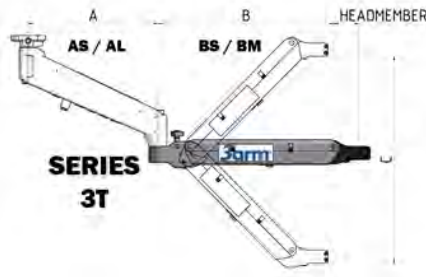


PE



Top Radial Base Arm

AS or AL



Vertical Tilt Arm

BS Small (Length 24", up to 77 lbs)

BM Medium (Length 35.8", up to 40 lbs)

Arm Dimensions

Radial Base	A (Length)	Tilting Arm	B (Length)	C (Vertical Distance)	Maximum Reach
AS	17.7"	BS BM	24.0" 35.8"	27.8" 44.5"	41.7" 53.5"
AL	31.8"	BS BM	24.0" 35.8"	27.8" 44.5"	55.9" 67.6"

Arm Dimensions

Radial Base	A (Length)	Tilting Arm	B (Length)	C (Vertical Distance)	Maximum Reach
PS	17.7"	BS BM	24.0" 35.8"	27.8" 44.5"	41.7" 53.5"
PL	31.8"	BS BM	24.0" 35.8"	27.8" 44.5"	55.9" 67.6"
PE	19.7"	BS BM	24.0" 35.8"	27.8" 44.5"	43.7" 55.8"



Weight Range
0-77 lbs.

Maximum Reach
68"

Vertical Distance
42"

3arm Pictured
AS+BM+A3+L11

Pick your Head Member



Pick your Brakes

Stationary

A3 Vertical



B3 Flat



C3 Adjustable



Articulating

D3 Vertical



E3 Flat



F3 Adjustable



R3 Nut Runner



L3 Adjustable



Orbital Attachment

G3, H3, X3 Quick-Change Gimbal



J3 Orientable Surface



N3, Q3 Pistol-Style Tool Holder



M3 Constant-Pressure Tool Holder



T3, U3 Pistol-Style Tool Holder



Brakes

L00 None

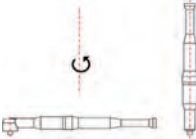
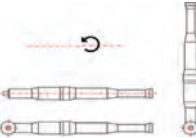
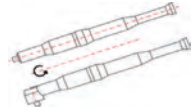
L11 Manual

L22 Pneumatic

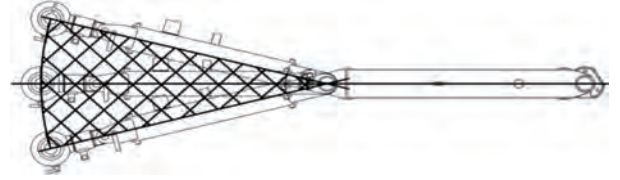
L50 Manual Lock at Base

L92 Brakes lock by tool trigger

SERIES 3

Work	HEAD Member	Max. Torque		
		Nm	ft-lbs	
	Vertical			
	B3: Stationary Flat + Ring	650	479	
	E3: Articulated Flat + Ring	120	88	
	R3: Revolving	300	221	
	Horizontal			
	B3: Stationary Flat + Ring	250	184	
	E3: Articulated Flat + Ring	120	88	
	R3: Revolving	250	184	
	Any Angle			
	E3: Articulated Flat + Ring	120	88	
	R3: Revolving	200	147	

*S3 -RECOMMENDED LOCKING



UNUSABLE AREA WITHOUT LOCKING

Damper Weight Range

Add the head weight to the tool weight.
Look for the weight range desired in the table.

Example:
Head F3 4.4 lbs
Tool + 11.0 lbs
15.4 lbs

Use damper:
11.0 - 19.8 or
11.0 - 22.0

AS or PS + BM + Head type / AL or PL + BM + Head type	A3	B3
	Min	Max
	0	6.6
	2.2	8.8
	2.2	11.0
	4.4	11.0
	4.4	13.2
	4.4	15.4
	6.6	15.4
	6.6	17.6
	8.8	19.8
	8.8	22.0
	11.0	22.0
	11.0	24.3
	13.2	26.5
	13.2	28.7
	15.4	30.9
	17.6	33.1
	17.6	35.3
	19.8	37.5
	19.8	39.7

AS or PS + BS + Head type / AL or PL + BS + Head type	A3	B3	A3	B3
	Min	Max	Min	Max
	2.2	6.6	24.3	44.1
	2.2	6.6	26.5	46.3
	4.4	11.0	26.5	48.5
	6.6	13.2	28.7	50.7
	8.8	17.6	30.9	55.1
	11.0	19.8	33.1	57.3
	11.0	22.0	35.3	59.5
	13.2	26.5	37.5	63.9
	15.4	28.7	37.5	66.1
	17.6	33.1	39.7	68.3
	19.8	35.3	39.7	70.5
	22.0	39.7	41.9	72.8
	24.3	41.9	44.1	77.2

2.2 lbs	C3	D3	E3	L3	M3
4.4 lbs	F3	J3	N3, Q3		
6.6 lbs	G3, H3, X3	T3, U3			
8.8 lbs	R3				

SERIES 4

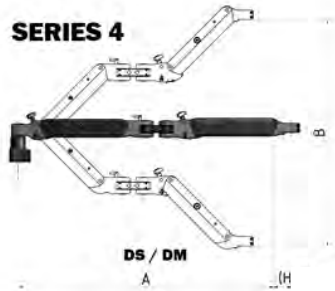


3arm Pictured
DS+N4+L00
 Tool not included

**Can be engineered for
 Top, Bottom or Wall mount**

Pick your Base Arm + **Pick your Head Member** + **Pick your Brakes**

Radial Base Arm
DS or DM



Arm Dimensions

Radial Base	A (Maximum Reach)	B (Vertical Distance)
DS	48"	42.3"
DM	57.5"	55.5"

Stationary
A4 Vertical



B4 Flat



C4 Adjustable



Articulating
D4 Vertical



E4 Flat



F4 Adjustable



R4 Nut Runner



L4 Adjustable



Orbital Attachment
G4 Quick-Change Gimbal



J4 Orientable Surface



N4 Pistol-Style Tool Holder



M4 Constant-Pressure Tool Holder



T4, U4 Pistol-Style Tool Holder



Brakes

L00 None

L22 Pneumatic

L92 Brakes lock by tool trigger



Damper Weight Range












Add the head weight to the tool weight.
 Look for the weight range desired in the table.

Example:
 Head F4 4.4 lbs
 Tool ± 11 lbs
 15.4 lbs

Use damper:
 11 - 19.8 or
 11 - 22

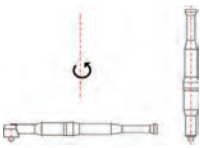
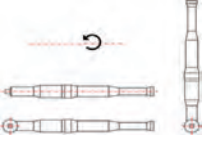

DM + Head Type

A3	B3
	
Min (lbs)	Max (lbs)
2.2	6.6
4.4	11
6.6	13.2
8.8	17.6
11	19.8
11	22
13.2	26.5
15.4	28.7
17.6	33.1
19.8	35.3
22	39.7
24.3	41.9
24.3	44.1
26.5	46.3
26.5	48.5
28.7	50.7
30.9	52.9

2.2 lbs	C4 	D4 	E4 	L4 	M4 
4.4 lbs	F4 	J4 	N4 		
6.6 lbs	G4, H4, X4 	T4, U4 			
8.8 lbs	R4 				

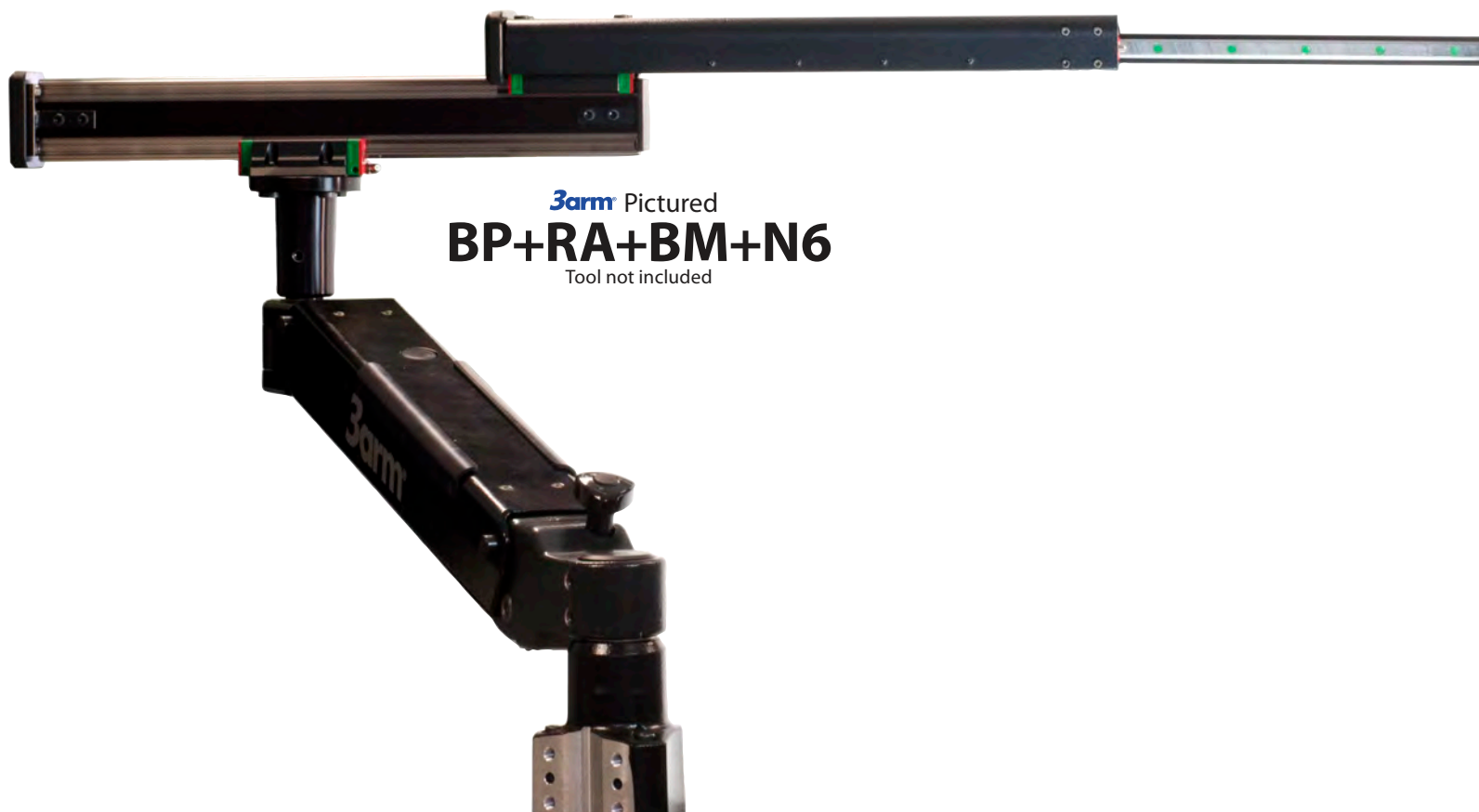
DS + Head Type

4.4	8.8
6.6	13.2
6.6	15.4
8.8	19.8
13.2	24.3
15.4	28.7
17.6	30.9
19.8	35.3
22	39.7
24.3	44.1
26.5	46.3

Work	HEAD Member	Max. Torque	
		Nm	ft-lbs
	Vertical		
	B4: Stationary Flat+ Ring	300	221
	E4: Articulated Flat + Ring	120	88
	Horizontal		
	B4: Stationary Flat + Ring	250	184
	E4: Articulated Flat + Ring	120	88
	Any Angle		
	E: Articulated Flat + Ring	120	88
	R4: Revolving	200	147

**S4 -REQUIRED LOCKING

SERIES 6



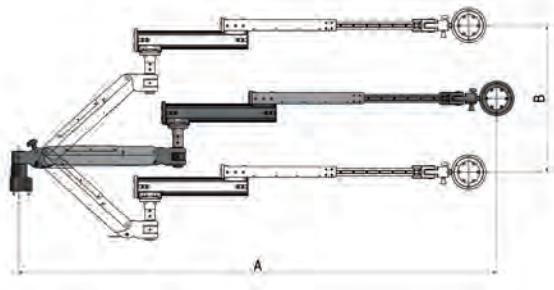
3arm Pictured
BP+RA+BM+N6
 Tool not included

Pick your Base Arm

Pick your Head Member

Radial Base Arm

BP + RA + BM



Arm Dimensions

Radial Base Arm	A (Maximum Reach) mm./inches	B (Vertical Distance) mm./inches
BP+RA+BM	2190/86,2"	670/26,4"

Orbital Attachment

N6 Pistol Style tool holder



T6 Pistol Style holder



Weight Range | Maximum Reach | Vertical Distance
0-44 lbs. | **86"** | **26"**



Damper Weight Range

Add the head weight to the tool weight.
 Look for the weight range desired in the table.

Example:
 Head N6 4.4 lbs
 Tool + 30.9 lbs
 35.3 lbs

Use damper:
 13.2 - 44.1



Load Range Min - lbs	
0	24.3
4.4	28.7
6.6	33.1
8.8	39.7
13.2	44.1

ACCESSORIES



Knee Table
RA0003A
 19 11/16" x 19 11/16" x 35 7/16"

Series				
1	2	3	4	6
•	•	Consult (according to weight)		



Small Table
U1000A
 27 1/2" x 27 1/2" x 28"

Series				
1	2	3	4	6
•	•	Consult (according to weight)		



Medium Table
U1102A
 34 1/2" x 34 1/2" x 28"

Series				
1	2	3	4	6
•	•	Consult (according to weight)		



Large Table
RA0006A
 43 5/16" x 33 7/16" x 33 7/16"

Series				
1	2	3	4	6
•	•	Consult (according to weight)		



Swing Beam
RA0035A
 39" x 10 1/2"

Series				
1	2	3	4	6
•	•	•	•	•



Small Clamp
RA0001A

5" x 2 1/2" capacity

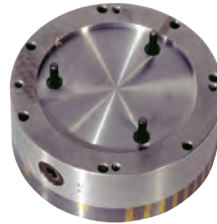
Series				
1	2	3	4	6
•	•			



Large Clamp
RA0002A

5" x 5" x 2 1/2" capacity

Series				
1	2	3	4	6
•	•	Consult (according to weight)		



Magnetic Support
RA0016A

9 13/16"

Series				
1	2	3	4	6
•	•	Consult (according to weight)		



Lifter
RA0012A

9 11/16"

Series				
1	2	3	4	6
•	•	•	Consult (according to weight)	



Column
RA0010A

13 3/4" x 13 3/4" x 29 1/2"

Series				
1	2	3	4	6
•	•	•	•	•



Trolley with Column
RA0007A

27.55" x 27.55" x 37"

Series				
1	2	3	4	6
•	•	Consult (according to weight)		



2000S Elevator
R76096A

57.1"

Series				
1	2	3	4	6
•	•	•	•	•



Rail
RA0045A



Beam
R15415A

Floor Rails & Beams

AVAILABLE UPON REQUEST

APPLICATIONS

GRINDING



ASSEMBLY



DRILLING



OPTICS & LASERS



APPLICATION VIDEOS

For more applications, visit 3arm on YouTube.

Scan to see more!



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Technical manufacturer's representatives.
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WHAT WE SELL**
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Customer Commitment

To work hard everyday to be regarded in the metal working marketplace as a supplier that is friendly, helpful and easy to do business with - EVERY DAY, EVERY TIME.

To offer innovative high quality solutions at a competitive price.

To be receptive & proactive in identifying solutions for our customers needs & requirements.



✧ Another Quality Product from ✧



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