

# 3arm<sup>®</sup>

america



ERGONOMIC  
SOLUTIONS | 2015  
Catalog



**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**

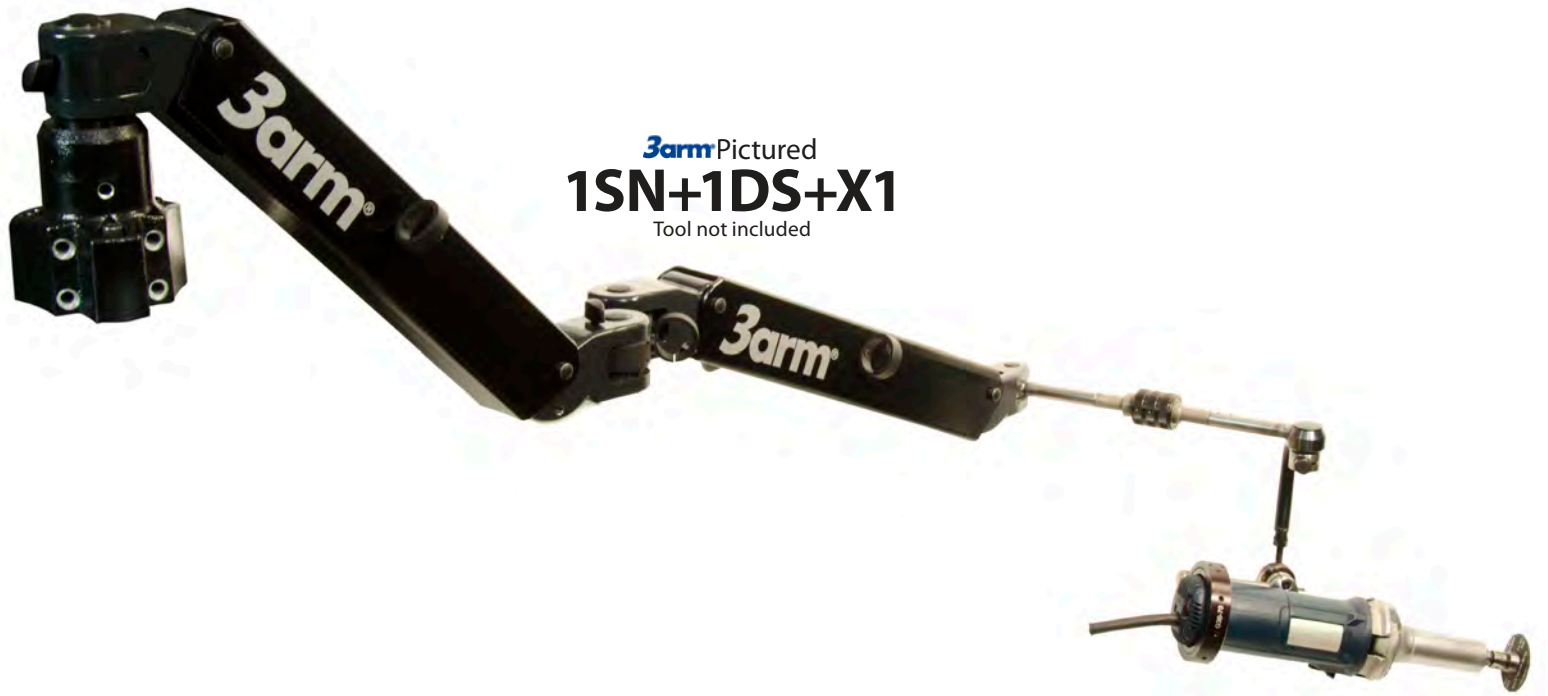
- Manual brakes
- Pneumatic brakes
- Without brakes

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

- Bottom
- Top
- Adjustable height base

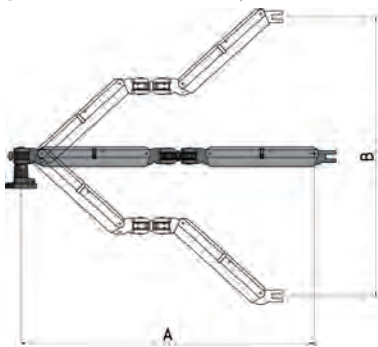
**Contact us and we'll engineer a solution for you!**

# SERIES 1



## 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



Weight Range | Maximum Reach | Vertical Distance  
**0-22 lbs.** | **44"** | **42"**

## 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

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

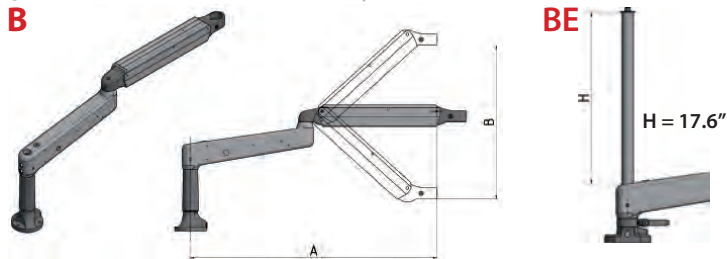


## SERIES 2



### Pick your Base Arm

#### Bottom Radial Base Arm



#### Arm Dimensions

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

### Pick your Head Member

#### 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



Weight Range  
0-13 lbs.

Maximum Reach  
34"

Vertical Distance  
22"

## 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

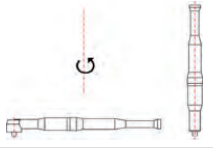
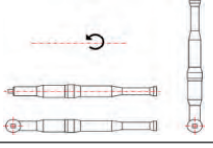
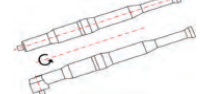
### Use damper:

7.7 - 13.2

B + Head Type

A1	B1
	
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
	<b>Vertical</b>		
	B2: Stationary Flat + Ring	120	88
	E2: Articulated Flat + Ring	60	44
	<b>Horizontal</b>		
	B2: Stationary Flat + Ring	90	66
	E2: Articulated Flat + Ring	60	44
	<b>Any Angle</b>		
	E2: Articulated Flat + Ring	60	44

## SERIES 3

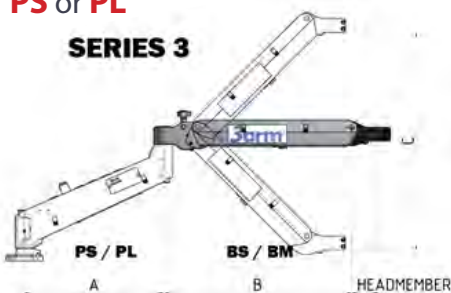


3arm Pictured  
**PS+BS+R3+L92**  
Tool not included

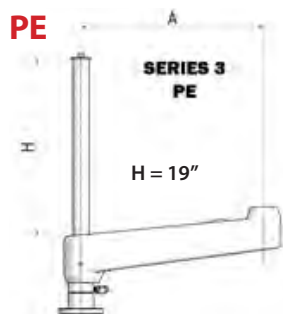
### Pick your Base Arm

#### Bottom Radial Base Arm

**PS** or **PL**



**PE**

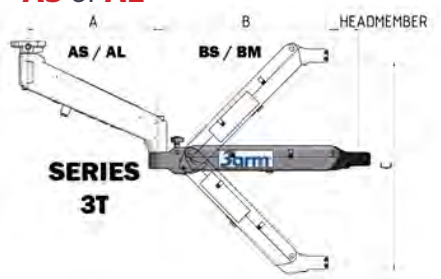


#### Arm Dimensions

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"

#### Top Radial Base Arm

**AS** or **AL**



#### 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"

### Pick your Tilt Arm

#### Vertical Tilt Arm

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

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





Weight Range  
**0-77 lbs.**

Maximum Reach  
**68"**

Vertical Distance  
**42"**

**3arm** Pictured  
**AS+BM+A3+L11**

## Pick your Head Member

### 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



## Pick your Brakes

### Brakes

**L00** None

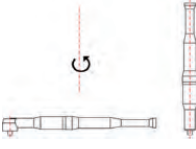
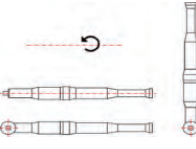
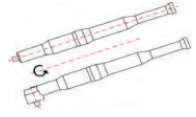
**L11** Manual

**L22** Pneumatic

**L50** Manual Lock at Base

**L92** Brakes lock by tool trigger

# SERIES 3

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



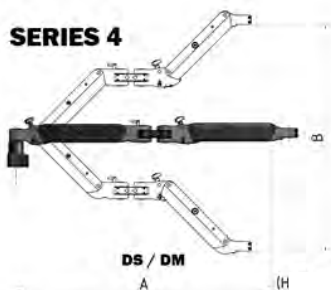
3arm Pictured  
**DS+N4+L00**  
Tool not included

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

### Pick your Base Arm

Radial Base Arm  
**DS or DM**

**SERIES 4**



### Arm Dimensions

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

### Pick your Head Member

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



0-33lbs

33lbs +  
\*depending  
on arm  
capacity

### Pick your Brakes

Brakes

**L00** None

**L22** Pneumatic

**L92** Brakes lock by tool trigger

Weight Range | Maximum Reach | Vertical Distance  
**0-53 lbs.** | **58"** | **54"**

## 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  $\pm 11$  lbs  
 15.4 lbs

### Use damper:












11 - 19.8 or  
 11 - 22

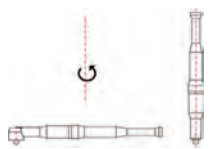
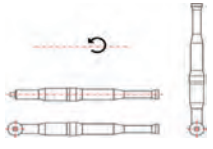
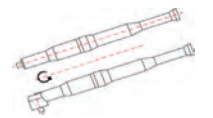
DM + Head Type

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

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

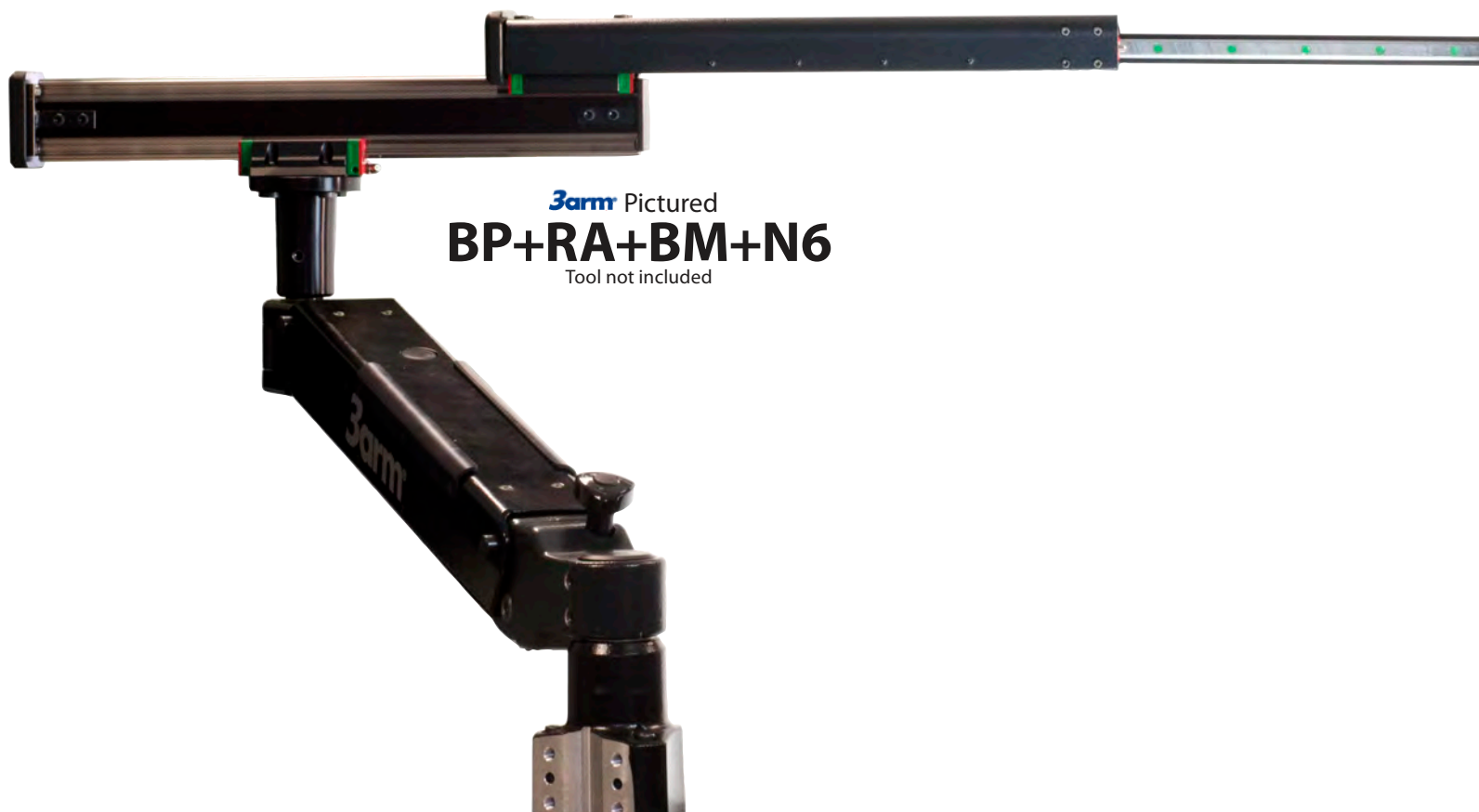
<b>2.2 lbs</b>	<b>C4</b> 	<b>D4</b> 	<b>E4</b> 	<b>L4</b> 	<b>M4</b> 
<b>4.4 lbs</b>	<b>F4</b> 	<b>J4</b> 	<b>N4</b> 		
<b>6.6 lbs</b>	<b>G4, H4, X4</b> 	<b>T4, U4</b> 			
<b>8.8 lbs</b>	<b>R4</b> 				

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

\*\*S4 -REQUIRED LOCKING



## SERIES 6



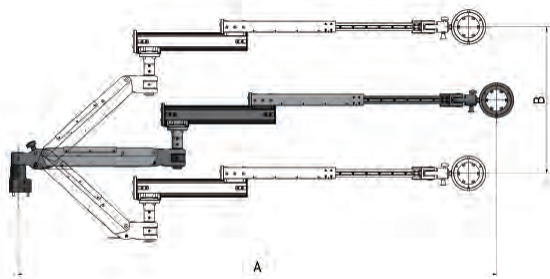
3arm Pictured  
**BP+RA+BM+N6**  
Tool not included

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



**4.4  
lbs**



**6.6lbs**



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 <sup>11</sup>/<sub>16</sub>" x 19 <sup>11</sup>/<sub>16</sub>" x 35 <sup>7</sup>/<sub>16</sub>"

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



Small Table  
**U1000A**  
27 <sup>1</sup>/<sub>2</sub>" x 27 <sup>1</sup>/<sub>2</sub>" x 28"

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



Medium Table  
**U1102A**  
34 <sup>1</sup>/<sub>2</sub>" x 34 <sup>1</sup>/<sub>2</sub>" x 28"

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



Large Table  
**RA0006A**  
43 <sup>5</sup>/<sub>16</sub>" x 33 <sup>7</sup>/<sub>16</sub>" x 33 <sup>7</sup>/<sub>16</sub>"

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



Swing Beam  
**RA0035A**  
39" x 10 <sup>1</sup>/<sub>2</sub>"

Series				
1	2	3	4	6
•	•	•	•	•



Small Clamp  
RA0001A

5" x 2 1/2" capacity

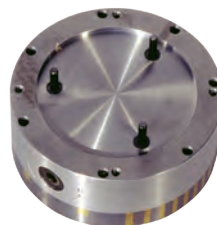
Series				
1	2	3	4	6
•	•			



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

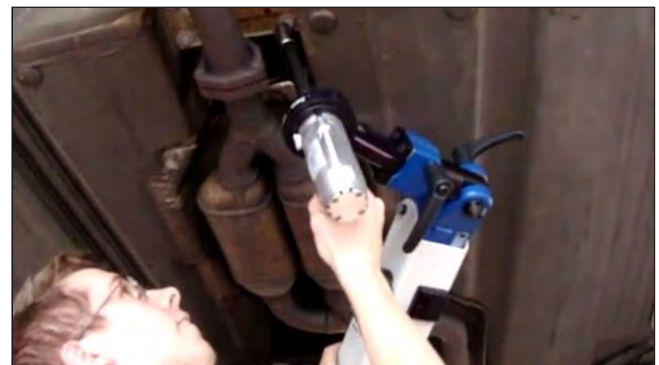
## OPTICS & LASERS



Scan to see  
more!

## APPLICATION VIDEOS

For more applications, visit 3arm on YouTube.





# Applifast.



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