Each 3arm® is customized for your tool and application. We optimize the arm for your process so it’s ready to work, right out of the box.

Head Member Configuration
Determine the tools you need to use with your 3arm®. This will also help you select a head member based on the type of application and necessary orientations. To ensure proper fit a 3D STP file of the tool is required.

Balanced Design
Tool weight is key to determining which arm will suit your application. All of our arms are precision calibrated at the factory to balance the weight of the tool.

Great Reach
A 3arm® can be bottom mounted, top mounted or wall mounted. You can easily add precision reach by applying a rail, make it mobile with a trolley or add vertical reach with a mounting column. See more on page 24.

Integrated Braking
Tool trigger braking of the arm is available. Effortlessly position your tool, stop it in place, release trigger and float it to the next job. (Brakes are necessary for certain applications)

Handling Force
The durable closed-case design of 3arm® is able to absorb considerable force. Knowing your requirements for torque can help us determine the best 3arm® configuration.

SAFETY WARNING 3arm America® products are engineered and manufactured with safety in mind. The tool load 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.

WARRANTY 3arm America® arms carry a full one year warranty of the arm against manufacturer defects. The warranty does not cover any damage caused by overloads, improper use and handling, and using the arm for anything other than its intended use. Our warranty covers labor and parts during the one year period.
3arm® has been designed to keep weightless any tool and device, including more than 29 head systems. Allowing the tool to be fixed in any position according to its accessories. We have more than 1 million configurations available to suit any application.

**Versatility and Productivity**

- Allows the full range of motion required to complete any task efficiently and safely.
- Permits use of heavy tools more accurately.
- Eliminates tool weight, providing not only an ergonomic benefit, but also increased productivity and precision.
- Reduces operator fatigue and the chance of injury due to strain.
- Holds any tool up to 77 lbs, keeping the tool weightless, while eliminating possible damage caused by dropping the tool.

**Ergonomic Safety**

The weightlessness and strength to absorb considerable tool torque reaction, and the option to lock the arm in any position and movement, helps prevent operator fatigue and injury, giving them high work sensitivity and increased productivity.

**The 3arm® Solution**

- Allows the full range of motion required to complete any task efficiently and safely.
- Permits use of heavy tools more accurately.
- Eliminates tool weight, providing not only an ergonomic benefit, but also increased productivity and precision.
- Reduces operator fatigue and the chance of injury due to strain.
- Holds any tool up to 77 lbs, keeping the tool weightless, while eliminating possible damage caused by dropping the tool.

**A Simple Ergonomic Solution**

**INDUSTRIES SERVED**

- Machine Shops
- Fabrication
- Welding
- Automotive
- Assembly
- Aerospace
- Medical
- Mechanical
- Chemical
- Metrology
- Painting
- Construction
- Food Processing
- Marine

**Solution**

- The 740-392-1549

3armamerica.com
### A Series 0 Arm Configured with a Balustrade Support for Lifting

A Series 0 arm configured with a balustrade support for lifting is a perfect solution for construction and electrical applications. The arm is designed for holding tools and is compatible with all brake and headmembers. It offers pure simplicity for holding tools.

#### Specifications

- **Reach (Vert, Horz):**
  - Extra Short Tilting: 19.8 in, 20 in
  - Short Tilting: 26.3 in, 24.3 in
  - Large Tilting: 44.5 in, 36.4 in

- **Max. lbs:**
  - Extra Short Tilting: 65 lbs
  - Short Tilting: 77 lbs
  - Large Tilting: 43 lbs

### Torque Recommendations

<table>
<thead>
<tr>
<th>Work</th>
<th>Head Member</th>
<th>Max. Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VERTICAL</td>
<td>Nm</td>
</tr>
<tr>
<td></td>
<td>B3: Stationary Flat with Ring</td>
<td>650</td>
</tr>
<tr>
<td></td>
<td>E3: Flat Articulated with Ring</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>R3: Revolving</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>HORIZONTAL</td>
<td>Nm</td>
</tr>
<tr>
<td></td>
<td>B3: Stationary Flat with Ring</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>E3: Flat Articulated with Ring</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>R3: Revolving</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>ANY ANGLE</td>
<td>Nm</td>
</tr>
<tr>
<td></td>
<td>E3: Flat Articulated with Ring</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>R3: Revolving</td>
<td>200</td>
</tr>
</tbody>
</table>

---

**3arm Solutions**

A Series 0 arm configured with a balustrade support for lifting is a perfect solution for construction and electrical applications.

---

**Pure simplicity for holding tools**

---

**Series 0 Pictured:** SNBS+K0+L00

---

**BRAKE OPTIONS**

- L00: No brakes
- L11: Manual
- L22: Pneumatic
- L50: Manual Locking Base
- L92: Tool Trigger Activated

See Brakes, pg 22
Series 1 arms are capable of the most difficult operations and positions required.

Series 1 Pictured: 1SN1DS+T0

**3arm Solutions**
A Trolley Column with Lifter can add the mobility needed for your application and add even more vertical reach at the same time.

**Light and nimble with great vertical reach**

**Dual tilting arms add extra vertical reach**

**REACH**
- **VERT.** 44 in
- **HORZ.** 43 in
- **MAX.** up to 22 lbs

**Series 1**

**3armamerica.com**
The perfect solution for small work areas

A combination radial arm and tilting arm, each capable of 360° rotation. Two arms of different length give you the ability to reach separate working areas. A range of headmembers options offer solutions for a wide variety of tools and devices.

**Series 2 Pictured:** BE+G2

**Elevating Base (Optional)**

**VERT. HORZ. REACH**
- VERT: 22 in
- HORZ: 34 in
- MAX: up to 22 lbs
- TORQUE: up to 120 Nm

A compact multi-purpose arm for use when brakes are not required.

---

**TORQUE RECOMMENDATIONS**

<table>
<thead>
<tr>
<th>Work</th>
<th>Head Member</th>
<th>MAX. TORQUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERTICAL</td>
<td>B2: Stationary Flat with Ring</td>
<td>120 Nm (88 ft-lbs)</td>
</tr>
<tr>
<td></td>
<td>E2: Flat Articulated with Ring</td>
<td>60 Nm (44 ft-lbs)</td>
</tr>
<tr>
<td>HORIZONTAL</td>
<td>B2: Stationary Flat with Ring</td>
<td>90 Nm (66 ft-lbs)</td>
</tr>
<tr>
<td></td>
<td>E2: Flat Articulated with Ring</td>
<td>60 Nm (44 ft-lbs)</td>
</tr>
<tr>
<td>ANY ANGLE</td>
<td>E2: Articulated Flat + Ring</td>
<td>60 Nm (44 ft-lbs)</td>
</tr>
</tbody>
</table>
The most popular 3arm® due to versatility. Features “turning & tilting” brake locking systems (pneumatic or manual) allowing the operator to immobilize the arm, in a fixed position, on all axes simultaneously or separately.

**3arm® Solutions**

A Floor Rail plus an Elevator provide expanded working area for your application.

**Series 3**

THE CAPABILITY TO ...

CARRY THE WEIGHT

**THE WORKHORSE OF THE 3ARM® SERIES**

Long reach and the ability to carry the heaviest loads

**TOP MOUNTED**

<table>
<thead>
<tr>
<th>ARM</th>
<th>BOTTOM MOUNTED</th>
<th>REACH</th>
<th>MAX. LBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSBS</td>
<td>Short Radial + Short Tilting</td>
<td>27.8</td>
<td>41.7</td>
</tr>
<tr>
<td>PSBM</td>
<td>Short Radial + Long Tilting</td>
<td>44.5</td>
<td>53.5</td>
</tr>
<tr>
<td>PLBS</td>
<td>Long Radial + Short Tilting</td>
<td>27.8</td>
<td>55.9</td>
</tr>
<tr>
<td>PLBM</td>
<td>Long Radial + Long Tilting</td>
<td>44.5</td>
<td>67.6</td>
</tr>
</tbody>
</table>

**ELEVATING BASE**

<table>
<thead>
<tr>
<th>ELEVATING BASE</th>
<th>REACH</th>
<th>MAX. LBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevating Radial + Short Tilting</td>
<td>27.8</td>
<td>43.7</td>
</tr>
<tr>
<td>Elevating Radial + Long Tilting</td>
<td>44.5</td>
<td>55.8</td>
</tr>
</tbody>
</table>

**COMPATIBLE HEAD MEMBERS**

- PSBS
- PSBM
- PLBS
- PLBM
- ASBS
- ASBM
- ALBS
- ALBM
- PEBS
- PEBM

**BRAKE OPTIONS**

- L00 None
- L11 Manual
- L22 Pneumatic
- L50 Manual Locking Base
- L92 Tool Trigger Activated

See Headmembers, pg 22

See Brakes, pg 22

**TORQUE RECOMMENDATIONS**

<table>
<thead>
<tr>
<th>WORK</th>
<th>HEAD MEMBER</th>
<th>VERTICAL MAX. TORQUE</th>
<th>HORIZONTAL MAX. TORQUE</th>
<th>ANY ANGLE MAX. TORQUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical</td>
<td>B3: Stationary Flat with Ring</td>
<td>650 Nm</td>
<td>479 ft-lbs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E3: Flat Articulated with Ring</td>
<td>120 Nm</td>
<td>88 ft-lbs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R3: Revolving</td>
<td>300 Nm</td>
<td>221 ft-lbs</td>
<td></td>
</tr>
<tr>
<td>Horizontal</td>
<td>B3: Stationary Flat with Ring</td>
<td>250 Nm</td>
<td>184 ft-lbs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E3: Flat Articulated with Ring</td>
<td>120 Nm</td>
<td>88 ft-lbs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R3: Revolving</td>
<td>250 Nm</td>
<td>184 ft-lbs</td>
<td></td>
</tr>
<tr>
<td>Any Angle</td>
<td>E3: Flat Articulated with Ring</td>
<td>120 Nm</td>
<td>88 ft-lbs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R3: Revolving</td>
<td>200 Nm</td>
<td>147 ft-lbs</td>
<td></td>
</tr>
</tbody>
</table>

*Series 3 - Locking Recommended*
The innovative connections between the parts of the arm allow completely free movement of rolling up, down and sideways. Capable of reaching the most difficult positions or work with weightless precision.

Dual tilting arms expand the range of movement

**Series 4**

**DESCRIPTION**

**VERT. HORZ. REACH**

- **MAX. LBS**
  - **52** in: **48**
  - **57** in: **43**

**TORQUE**

- **up to 53 lbs**
- **up to 300 Nm**

**MAX. TORQUE**

**ADOR**

**VERTICAL**

- **B4**: Stationary Flat with Ring: **300** Nm, **221** ft-lbs
- **E4**: Flat Articulated with Ring: **120** Nm, **88** ft-lbs
- **R4**: Revolving: **300** Nm, **221** ft-lbs

**HORIZONTAL**

- **B4**: Stationary Flat with Ring: **250** Nm, **184** ft-lbs
- **E4**: Flat Articulated with Ring: **120** Nm, **88** ft-lbs
- **R4**: Revolving: **250** Nm, **184** ft-lbs

**ANY ANGLE**

- **E4**: Flat Articulated with Ring: **120** Nm, **88** ft-lbs
- **R4**: Revolving: **200** Nm, **147** ft-lbs

*Series 4 - LOCKING REQUIRED*
An extendable arm with ball linear guideways attached to a pendulum base arm, both capable of 360° rotation. A compact arm that offers versatility for any type of tool. The telescopic top arm allows the user to work on hard to reach areas comfortably, quickly and safely. Built for a wide variety of applications.

**SERIES 6**

**VERT. HORZ. REACH**

<table>
<thead>
<tr>
<th>ARM ED</th>
<th>VERT</th>
<th>HORIZ.</th>
<th>MAX LBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPRASC</td>
<td>26</td>
<td>68</td>
<td>40</td>
</tr>
<tr>
<td>BPRASM</td>
<td>26</td>
<td>82</td>
<td>22</td>
</tr>
</tbody>
</table>

**COMPATIBLE HEAD MEMBERS**

- **BPRASC:**
  - ALL
- **BPRASM:**
  - N, T

**BRAKE OPTIONS**

- **L00:** None
- **L22:** Pneumatic
- **L92:** Tool Trigger Activated

See Headmembers, pg 22

See Brakes, pg 22

**TORQUE RECOMMENDATIONS**

<table>
<thead>
<tr>
<th>Work</th>
<th>Head Member</th>
<th>Max. Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VERTICAL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B6: Stationary Flat with Ring</td>
<td>300 221</td>
</tr>
<tr>
<td></td>
<td>E6 Flat Articulated with Ring</td>
<td>120 88</td>
</tr>
<tr>
<td></td>
<td>R6: Revolving</td>
<td>300 221</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HORIZONTAL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B6: Stationary Flat with Ring</td>
<td>250 184</td>
</tr>
<tr>
<td></td>
<td>E6 Flat Articulated with Ring</td>
<td>120 88</td>
</tr>
<tr>
<td></td>
<td>R6: Revolving</td>
<td>250 184</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ANY ANGLE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E6 Flat Articulated with Ring</td>
<td>120 88</td>
</tr>
<tr>
<td></td>
<td>R6: Revolving</td>
<td>200 147</td>
</tr>
</tbody>
</table>

*Series 6 - LOCKING REQUIRED*
**ENCODER**

Precision programming of jobs that define fastening position and sequence.

**USB Connection**
- Import/Export BMP images and jobs
- Internal memory for up to 30 jobs, and 50 fastening positions

**Touch Screen**
- Manual job selection using the touch screen

**Versatile**
- Additional programs previously created to add or modify fastening positions and modify the precision parameters and programming of torque (the fastening sequence cannot be edited)
- Possibility of working with up to 7 different fastening programs in the same job
- Communication with the tool controller to select the different fastening programs (I/O)
- Communication with the tool controller to enable or block the functioning of the tool (I/O)
- Communication with the tool controller to receive the correct/incorrect fastening signal (I/O)
- Counting of parts remaining to complete the current job and parts completed
- Configuration in 3 languages (Spanish, English and French)
- Possibility of password protection for the system
- Possibility of inlaying a representative BMP image into the jobs
- Identifier (overprinted message) of jobs finished correctly

**SmartControl**

Encoder SmartControl system integration available on Series 2 and 3 3arm®

- Quickly and easily create new sequences
- Increase productivity and safety
- Adaptable headmember for a wide variety of tools

**Series 3 arm**

- Factory customized for your tool

**ARM STYLE**
- BB2L+L80  | Series 2 Base
- PSBS+L80  | Series 3, Short + Short
- PSBM+L80  | Series 3, Short + Long
- PLBS+L80  | Series 3, Long + Short
- PLBM+L80  | Series 3, Long + Long

**COMPATIBLE HEADMEMBERS**
- A, B, BR, C, D, E

See Headmembers, pg
The Manipulator can be equipped with a variety of specialty gripping tools. It is engineered to manually handle, center and set loads of up to 110 lbs in a weightless condition, in any direction. The Manipulator aids the operator in precise ergonomic work handling, effortlessly and safely.
BRAKES

<table>
<thead>
<tr>
<th>L00</th>
<th>L11</th>
<th>L22</th>
<th>L50</th>
<th>L51</th>
<th>L92</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Required</td>
<td>Manual Brakes</td>
<td>Pneumatic Brakes</td>
<td>Manual Locking Base</td>
<td>Base Brake &amp; Tilting Arm Brake</td>
<td>Tool Trigger Activated</td>
</tr>
<tr>
<td>No Brakes</td>
<td>Manually turned handle</td>
<td></td>
<td>Handle at base only</td>
<td></td>
<td>Pneumatic, activated through the tool</td>
</tr>
</tbody>
</table>

740-392-1549
We will engineer the perfect solution for your application
Our experts will ensure your 3arm® build is properly balanced with your accessory.

More Reach

Easily add dependable reach to your arm.

 Easily add reach to your build with a Swing Beam

Add reach to your build with a Swing Beam

A ceiling or wall mounted beam conserves floorspace and can help eliminate trip hazards.

A ceiling or wall mounted beam conserves floorspace and can help eliminate trip hazards.

A ceiling or wall mounted beam conserves floorspace and can help eliminate trip hazards.

Mobile Work Space

Custom sizes available

Custom sizes available

Custom sizes available

Vertical Reach

Custom sizes available

Custom sizes available

Custom sizes available

Achieve extreme vertical reach with an Elevator

Add mobility and reach by mounting your 3arm® on a Trolley with Column

Add even more vertical reach to your Column

Add reach to your build with a Swing Beam

Add reach to your build with a Swing Beam

Add reach to your build with a Swing Beam

Mounting Column

RA0010A
13 3/4" x 13 3/4" x 29 1/2"

Trolley with Column

RA0007A
27.55" x 27.55" x 37"

Lifter

RA0012A
19.4"

Medium Table

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

Large Table

RA0006A
43 1/4" x 33 7/16" x 33 7/16"
**Manufacturing Industry Worker INJURY**

**SOURCE:** U.S. BUREAU OF LABOR STATISTICS

**MOST COMMON Type of Injury**
- Sprains & Strains
- Cuts & Lacerations
- Fractures

**MOST COMMON Cause of Injury**
- Overexertion
- Repetitive Motions
- Struck, Cut or Caught by Equipment

**MOST COMMON Bodily Injuries**
- Shoulders
- Back & Spine
- Hands
- Knees
- Ankles

**IF INJURY NECESSITATES Missed Work**
- 25% MISS 31 DAYS OR MORE
- MEDIAN MISSED 7 DAYS
- ONLY 16% MISSED 1 DAY OR FEWER

**THE COST of Worker Injury**

**EMPLOYERS SPEND MORE THAN $2000 ANNUALLY PER EMPLOYEE**

**MORE THAN 60% OF WORKER INJURY IS POTENTIALLY PREVENTABLE**

**APPLYING Ergonomics**
- Weightload is taken off of the worker
- Worker can be more productive with less strain
- Eliminate the most common causes of worker injury

**WORKER Safety**
- Worker’s limbs are kept at a safe distance from hazards
- Get the tool into tight spaces, while keeping workers safe.
- Eliminate the high costs of worker injury

**SAVE AN ARM AND A LEG**

**3armamerica.com**
Our Customer Commitment

To work hard everyday to be regarded in the 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 customer's needs & requirements.

Another Quality Product from