

2021

3arm[®]

america

Ergonomic Lift Assist Devices

3armamerica.com

Quick Start

WHAT TOOL DO YOU WANT TO HOLD?

TYPE:

MAKE:

MODEL:

ORIENTATION:

WEIGHT:

3D DRAWING OF THE TOOL (STP file):

WHAT ARE YOUR APPLICATION REQUIREMENTS?

HORIZONTAL REACH:

VERTICAL REACH:

MOUNTING ORIENTATION:
 BOTTOM TOP WALL

MOUNTING SOLUTIONS:
 TABLE ELEVATOR CLAMP
 BEAM COLUMN SWING
 RAIL MAGNET BALUSTRADE

BRAKES:
 NONE MANUAL BASE LOCK
 MANUAL MANUAL BASE + ARM
 PNEUMATIC TOOL TRIGGER ACTIVATED

TORQUE REQUIREMENTS:

NOTES:

Build Your Arm
online at 3armamerica.com

3arm[®] was designed by the Tecnospiro Machine Tool Company and are manufactured in a state-of-the-art facility about 40 miles west of Barcelona, Spain. The dynamic engineering staff continues to develop innovative manufacturing solutions. 3arm[®] ergonomic lift assist devices are the strongest, most dependable product of its kind available in the world marketplace today. 3arm[®] 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. IPT America has been the North American representative and importer since 2006.



Operations Center:
106 W. Ohio Avenue
Mt. Vernon, OH 43050
phone (740) 392-1549
fax (740) 392-0230

iptamerica.com

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

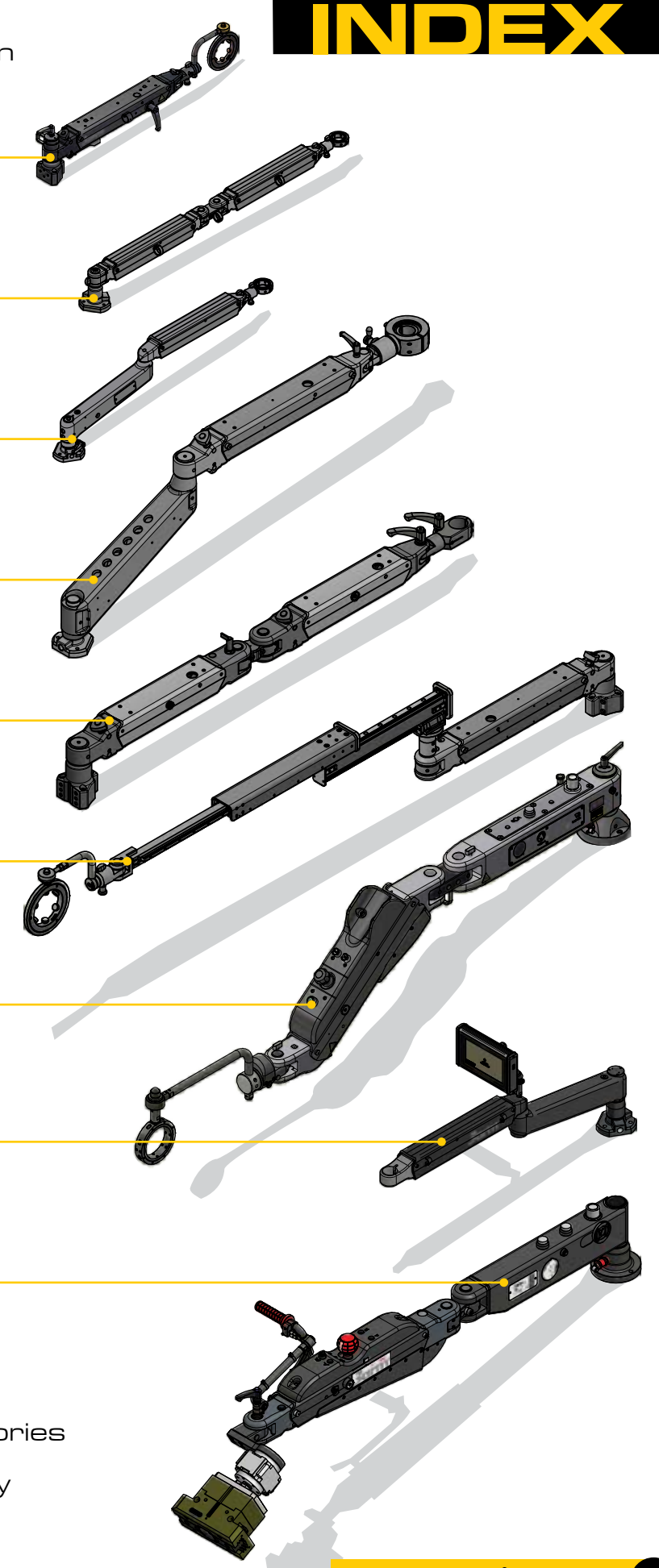
The durable closed-case design of 3arm[®] is able to absorb considerable force. Knowing your requirements for torque can help us determine the best 3arm[®] configuration.

SAFETY WARNING 3arm-America[®] products are engineered and manufactured with safety in mind. The 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.

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.

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INDUSTRIES SERVED



Machine Shops



Fabrication



Welding



Automotive



Assembly



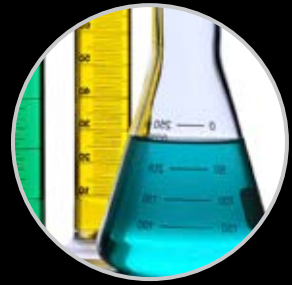
Aerospace



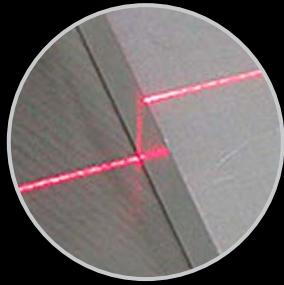
Medical



Mechanical



Chemical



Metrology



Painting



Construction



**Food
Processing**



Marine

Versatility and Productivity

3arm® has been designed to keep weightless any tool and device, including more than 30 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.

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 132 lbs, keeping the tool weightless, while eliminating possible damage caused by dropping the tool.
- A Simple Ergonomic Solution



REACH

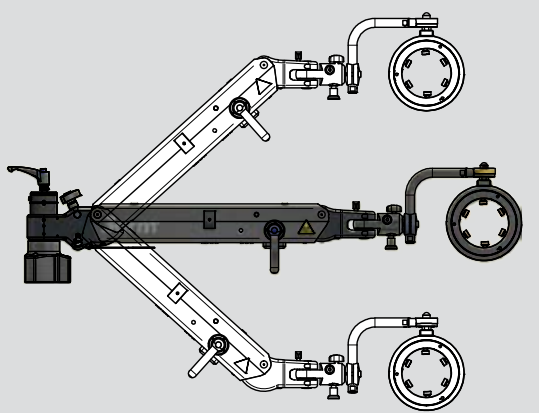
↑ VERT. | → HORZ.

44 in | **36 in**

MAX. up to **77 lbs**

TORQUE up to **650 Nm**

A single tilting arm for the most simple applications. Three different arm lengths with all brake and headmembers offering available.



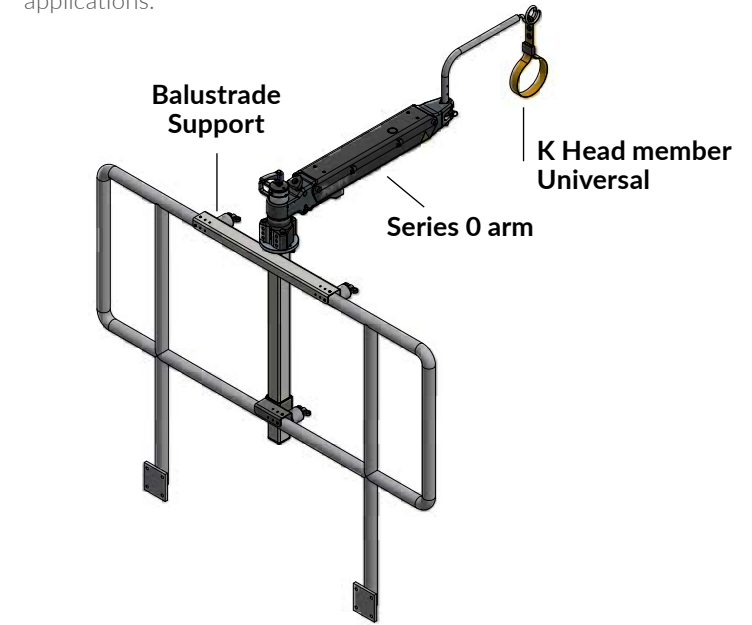
STARTING AT:
\$3,740

ARM BOTTOM MOUNT		REACH		MAX LBS
		VERT	HORZ	
SNDS	Extra Short Tilting	19.8	20	65
SNBS	Short Tilting	26.3	24.3	77
SNBM	Long Tilting	44.5	36.4	41

TOP MOUNT				
STDS	Extra Short Tilting	19.8	20	65
STBS	Short Tilting	26.3	24.3	77
STBM	Long Tilting	44.5	36.4	41

COMPATIBLE HEAD MEMBERS	BRAKE OPTIONS
All	L00 No brakes
<i>See Headmembers, pg 24</i>	L11 Manual
	L22 Pneumatic
	L50 Manual Locking Base
	L92 Tool Trigger Activated
	<i>See Brakes, pg 24</i>

3arm Solutions
A Series 0 arm configured with a balustrade support for lifters is a perfect solution for construction and electrical applications.



GET AN ARM UP

Simplicity and strength for holding tools



Series 0 Pictured: SNBS+K0+L00

TORQUE RECOMMENDATIONS

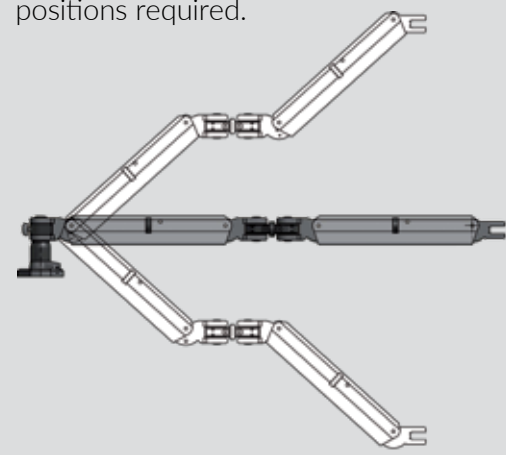
Work	Head Member	Max. Torque	
		Nm	ft-lbs
	VERTICAL		
	B0: Stationary Flat with Ring	650	479
	E0: Flat Articulated with Ring	120	88
	R0: Revolving	300	221
	HORIZONTAL		
	B0: Stationary Flat with Ring	250	184
	E0: Flat Articulated with Ring	120	88
	R0: Revolving	250	184
	ANY ANGLE		
	E0: Flat Articulated with Ring	120	88
	R0: Revolving	200	147

REACH

↑ VERT. 44in | → HORZ. 43in

MAX. up to 22 lbs

Series 1 arms are capable of the most difficult operations and positions required.



STARTING AT:
\$5,814

ARM EDP	ORIENTATION
1SN1DS	Bottom Mounted
1AM1DS	Top Mounted

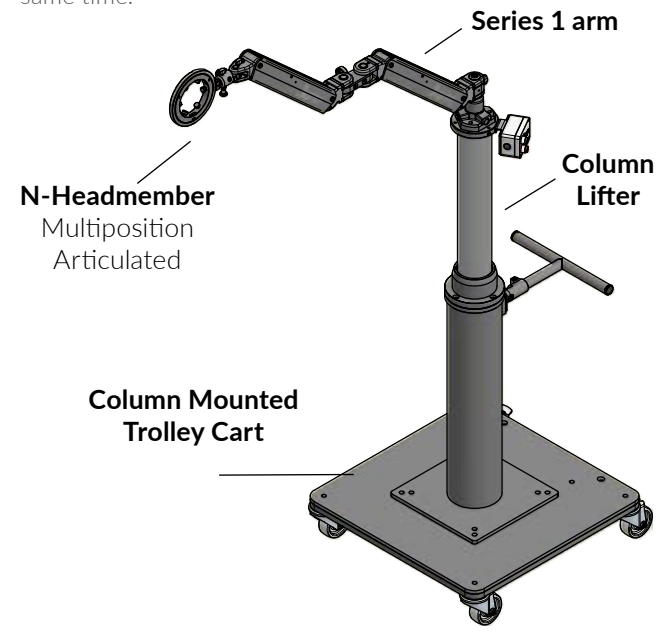
COMPATIBLE HEAD MEMBERS
B, BA, C, E, EA, F, G, K, L, LB, N, T, U, Q, Z
See Headmembers, pg 24

BRAKE OPTIONS
L00 None
L50 Manual Locking Base
See Brakes, pg 24

8 740-392-1549

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.



COME AT IT
FROM ANY
DIRECTION



Series 1 Pictured:
1SN1DS+T1+L00

Dual tilting arms add extra vertical reach



Light and nimble with great vertical reach

THE PERFECT BALANCE IN YOUR WORK

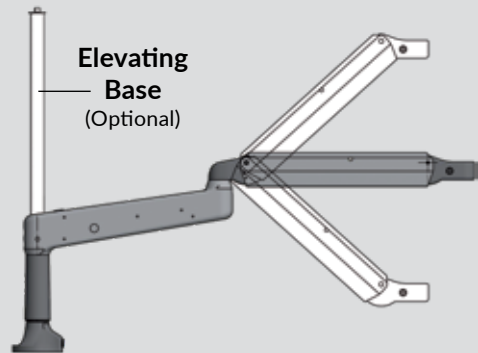
REACH

↑ VERT. **22in** → HORZ. **34in**

MAX. up to **22lbs**

TORQUE up to **120 Nm**

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.



STARTING AT: \$2,900

ARM EDP	BASE
BB	Bottom Mounted
BE	Elevating Base
BA	Top Mounted
BX	Top Mount w/ Elevating base

COMPATIBLE HEAD MEMBERS
B, BA, C, E, EA, F, G, H, K, L, LB, N, T, U, Q, Z

See Headmembers, pg 24

BRAKE OPTIONS

- L00** None
- L50** Manual Locking Base

See Brakes, pg 24



Series 2 Pictured: BB+G2+L00

The perfect solution for small work areas



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



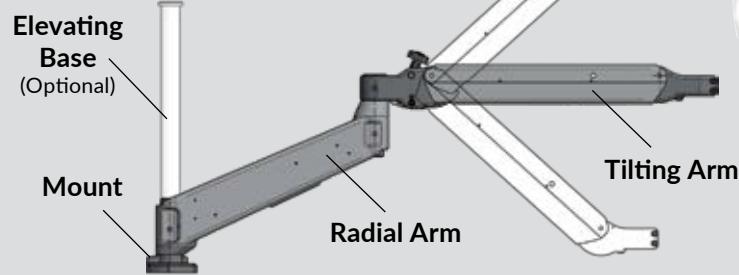
TORQUE RECOMMENDATIONS

Work	Head Member	MAX. TORQUE	
		Nm	ft-lbs
	VERTICAL		
	B2: Stationary Flat with Ring	120	88
	E2: Flat Articulated with Ring	60	44
	HORIZONTAL		
	B2: Stationary Flat with Ring	90	66
	E2: Flat Articulated with Ring	60	44
	ANY ANGLE		
	E2: Articulated Flat + Ring	60	44

THE CAPABILITY TO CARRY THE WEIGHT

REACH
 ↑ VERT. 44 in | → HORZ. 67 in
 MAX. up to 77 lbs | TORQUE up to 650 Nm

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.



STARTING AT: \$5,400

ARM	BOTTOM MOUNTED	REACH		MAX LBS
		VERT	HORZ	
PSBS	Short Radial + Short Tilting	27.8	41.7	77
PSBM	Short Radial + Long Tilting	44.5	53.5	41
PLBS	Long Radial + Short Tilting	27.8	55.9	77
PLBM	Long Radial + Long Tilting	44.5	67.6	41
TOP MOUNTED				
ASBS	Short Radial + Short Tilting	27.8	41.7	77
ASBM	Short Radial + Long Tilting	44.5	53.5	41
ALBS	Long Radial + Short Tilting	27.8	55.9	77
ALBM	Long Radial + Long Tilting	44.5	67.6	41
ELEVATING BASE				
PEBS	Elevating Radial + Short Tilting	27.8	43.7	77
PEBM	Elevating Radial + Long Tilting	44.5	55.8	41

COMPATIBLE HEAD MEMBERS

ALL

See Headmembers, pg 24

BRAKE OPTIONS

- L00 None
- L11 Manual
- L22 Pneumatic
- L50 Manual Locking Base
- L51 Base & Tilting Arm Brakes
- L92 Tool Trigger Activated

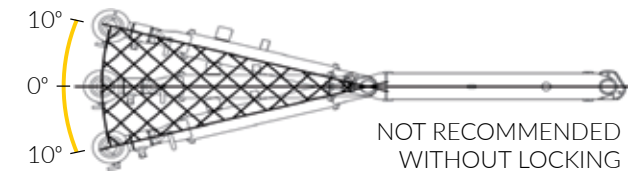
See Brakes, pg 24



Series 3 Pictured: PSBM+U3+L50

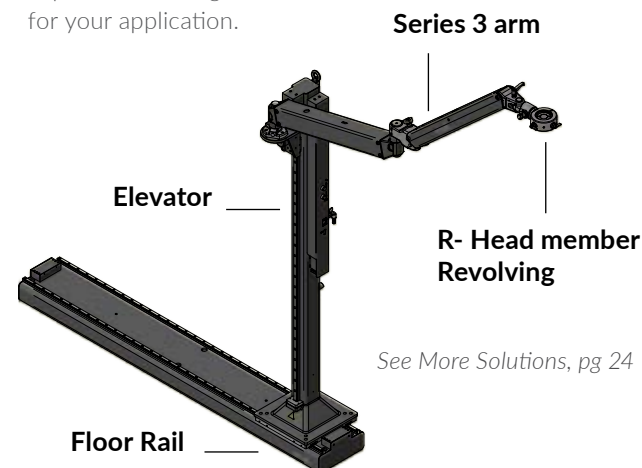


Long reach and the ability to carry the heaviest loads



3arm Solutions

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



See More Solutions, pg 24

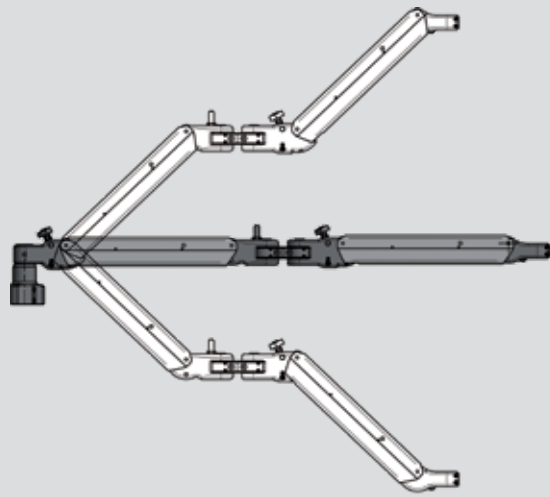
TORQUE RECOMMENDATIONS

Work	Head Member	MAX. TORQUE	
		Nm	ft-lbs
	VERTICAL		
	B3: Stationary Flat with Ring	650	479
	E3: Flat Articulated with Ring	120	88
	R3: Revolving	300	221
	HORIZONTAL		
	B3: Stationary Flat with Ring	250	184
	E3: Flat Articulated with Ring	120	88
	R3: Revolving	250	184
	ANY ANGLE		
	E3: Flat Articulated with Ring	120	88
	R3: Revolving	200	147

*Series 3 - LOCKING RECOMMENDED

REACH		MAX. up to 53 lbs	TORQUE up to 300 Nm
↑ VERT. 52 in	→ HORZ. 57 in		

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



STARTING AT:
\$8,159

ARM EDP	DESCRIPTION	REACH		MAX LBS
		VERT	HORZ	
DS	Bottom Mount, Short Arm	40	48	43
DM	Bottom Mount, Long Arm	52	57.5	53
ADS	Top Mount, Short Arm	40	48	43
ADM	Top Mount, Long Arm	52	57.5	53

COMPATIBLE HEAD MEMBERS

ALL

See Headmembers, pg 24

BRAKE OPTIONS

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

See Brakes, pg 24

THE RIGHT ANGLE

MAKES ALL THE DIFFERENCE



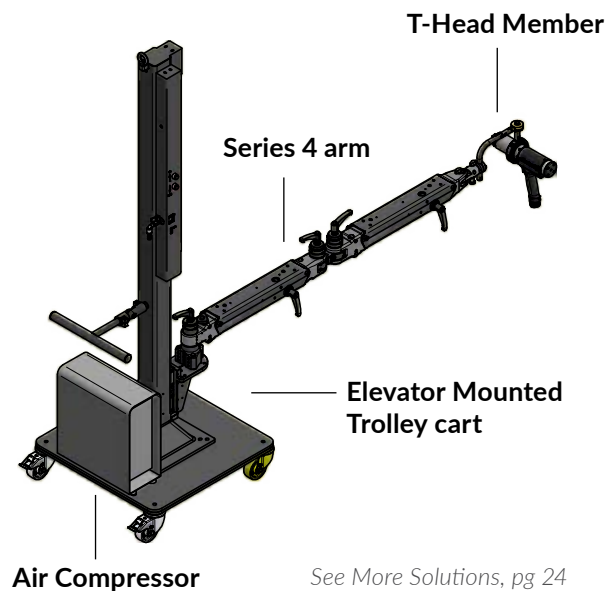
Series 4 Pictured:
DM+R4+L92



Extended vertical reach with uncompromised strength

3arm Solutions

A Trolley Elevator plus the Compressor makes your application fully mobile.



See More Solutions, pg 24

TORQUE RECOMMENDATIONS

Work	Head Member	MAX. TORQUE	
		Nm	ft-lbs
	VERTICAL		
	B4: Stationary Flat with Ring	300	221
	E4: Flat Articulated with Ring	120	88
	HORIZONTAL		
	B4: Stationary Flat with Ring	250	184
	E4: Flat Articulated with Ring	120	88
	ANY ANGLE		
	E4: Flat Articulated with Ring	120	88
	R4: Revolving	200	147

*Series 4 - LOCKING REQUIRED

REACH

↑ VERT. **26 in** → HORZ. **82 in**

MAX. **up to 40 lbs**

TORQUE **up to 300 Nm**

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 arm allows the user to work on hard to reach areas comfortably, quickly and safely. Built for a wide variety of applications.

EVERYTHING WITHIN REACH

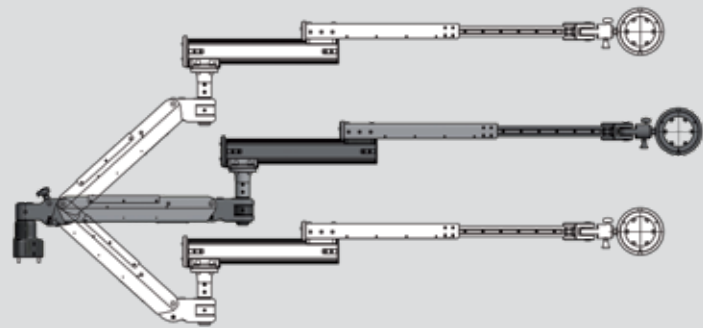


Extended horizontal reach



Series 6 Pictured: BPRASM+T6+L00

Get your tool into tight spaces safely



STARTING AT:
\$9,656

ARM EDP		REACH		MAX LBS
		VERT	HORZ	
BPRASC	Short	26	68	40
BPRASM	Long	26	82	22

- COMPATIBLE HEAD MEMBERS
- ALL**
- See Headmembers, pg 24
- BRAKE OPTIONS
- L00** None
 - L22** Pneumatic
 - L92** Tool Trigger Activated
- See Brakes, pg 24

TORQUE RECOMMENDATIONS

Work	Head Member	Max. Torque	
		Nm	ft-lbs
	VERTICAL		
	B6: Stationary Flat with Ring	300	221
	E6: Flat Articulated with Ring	120	88
	R6: Revolving	300	221
	HORIZONTAL		
	B6: Stationary Flat with Ring	250	184
	E6: Flat Articulated with Ring	120	88
	R6: Revolving	250	184
	ANY ANGLE		
	E6: Flat Articulated with Ring	120	88
	R6: Revolving	200	147

*Series 6 - LOCKING REQUIRED

HEAVY BALANCING LIFTING POWER

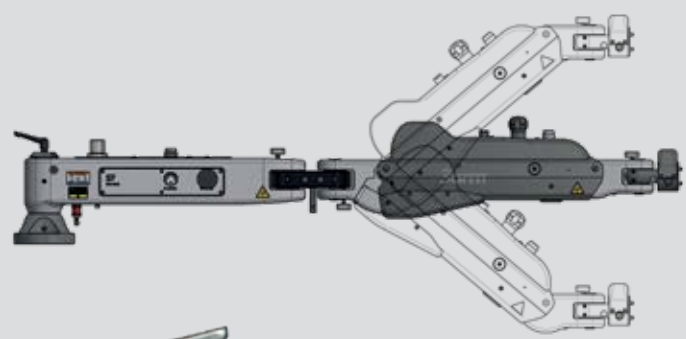
REACH

↑ VERT. **27 in** → HORZ. **65 in**

MAX. up to **132 lbs**

TORQUE up to **885 Nm**

Ergonomic and optimized arm for the most heavy duty power tools in the market. Features brake locking system and a range of headmembers that offer solutions for a wide variety of applications.



Series 7 Pictured:
7PS+U7+L11

For the heaviest and most demanding tools



TORQUE RECOMMENDATIONS

Work	Head Member	Max. Torque	
		Nm	ft-lbs
	VERTICAL		
	B7: Stationary Flat with Ring	1200	885

STARTING AT:
\$18,748

ORIENTATION

7PS	Floor Mounted
7AS	Ceiling Mounted

COMPATIBLE HEAD MEMBERS

B, BA, E, EA, J, L, LB, K, Q, U, Z

See Headmembers, pg 24

BRAKE OPTIONS

L50	Manual Locking base
L11	Manual
L22	Pneumatic
L92	Tool Trigger Activated

See Brakes, pg 24



Compact arm for big solutions

ENCODER

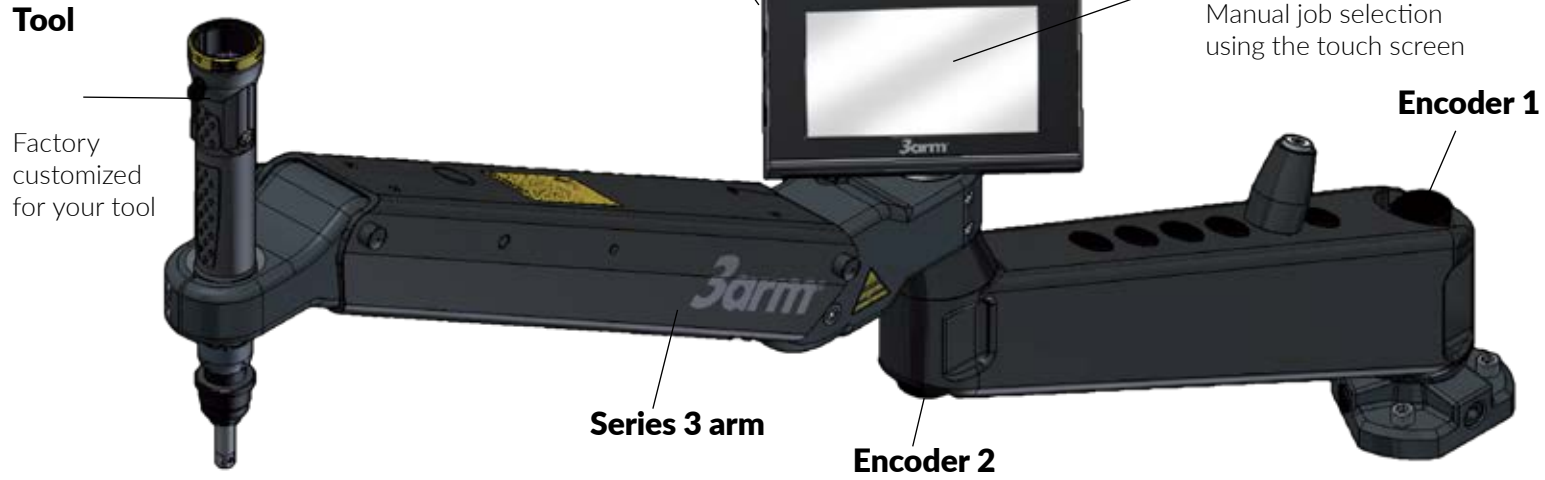
Precision programming of jobs that define fastening position and sequence.

REACH

↑ VERT. 42 in

→ HORZ. 68 in

MAX. up to 77 lbs



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



STARTING AT: \$9,396

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, BA, C, E, EA
See Headmembers, pg 24

- 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

MANIPULATOR

REACH

↑ VERT. 28in

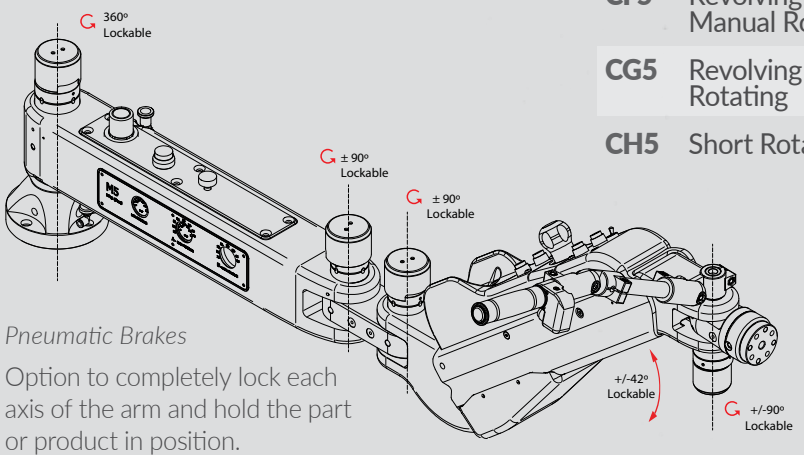
→ HORZ. 65in

MAX. up to 110 lbs

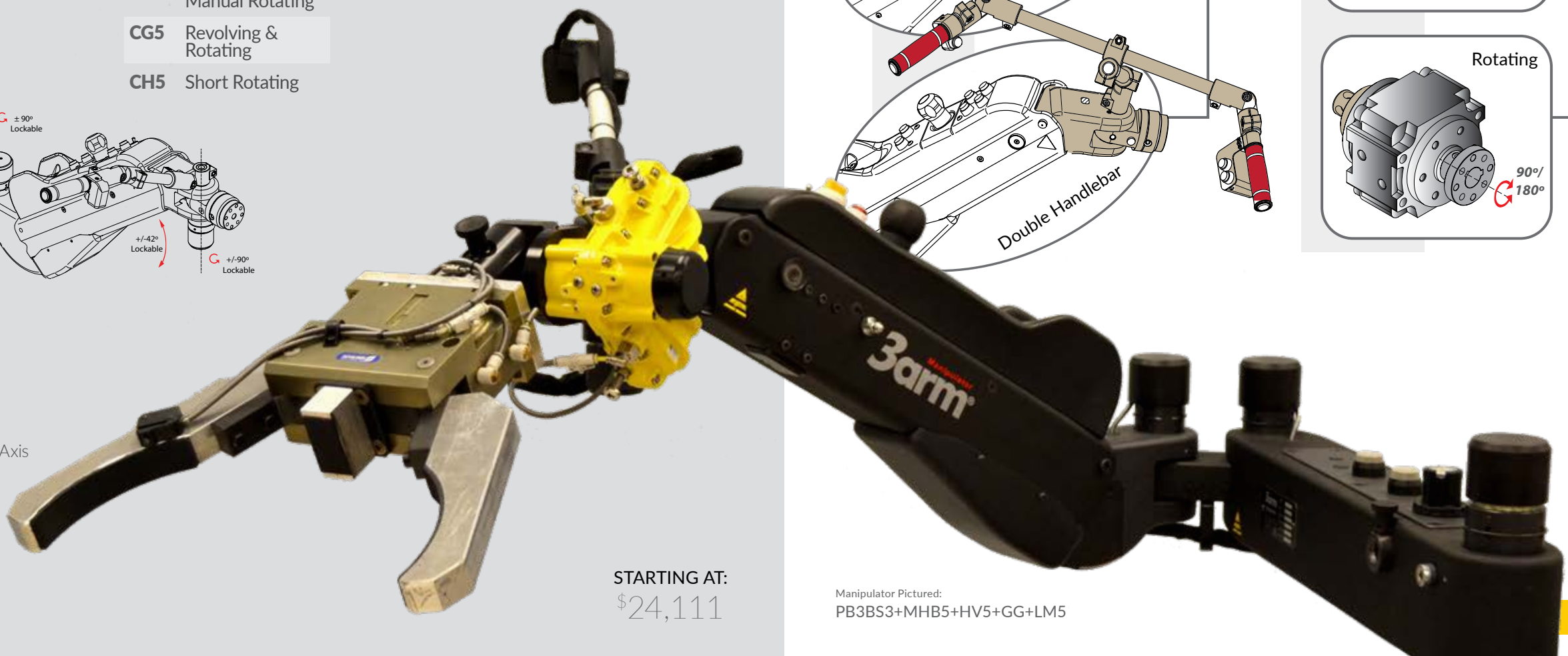
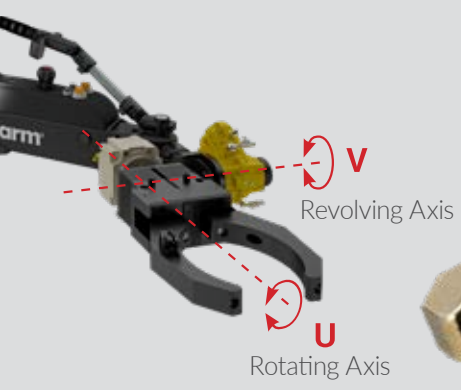
PICK & PLACE

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.

MOUNT	HANDLE	HEAD STYLE	GRIPPING SYSTEM	BRAKES
PB3BS3 Base	MHB5 Handlebar	HH5 Horizontal	GG Gripper	L00 None
PT3BS3 Top	MVT5 Vertical	HM5 Manual Rotating	GM Magnet	LM5 Pneumatic Brakes
	MBA5 Basic	HV5 Revolving	GV Vacuum	
	MDH5 Double Handlebar	HR5 Rotating	GC Custom	
		CD5 Vertical		
		CF5 Revolving & Manual Rotating		
		CG5 Revolving & Rotating		
		CH5 Short Rotating		



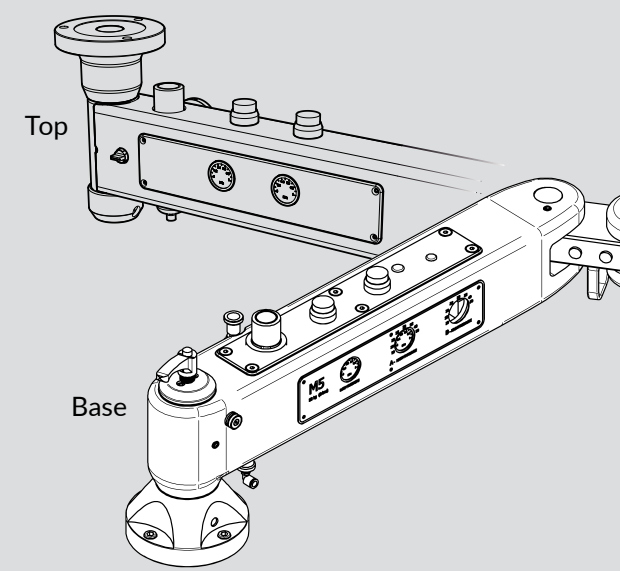
Pneumatic Brakes
Option to completely lock each axis of the arm and hold the part or product in position.



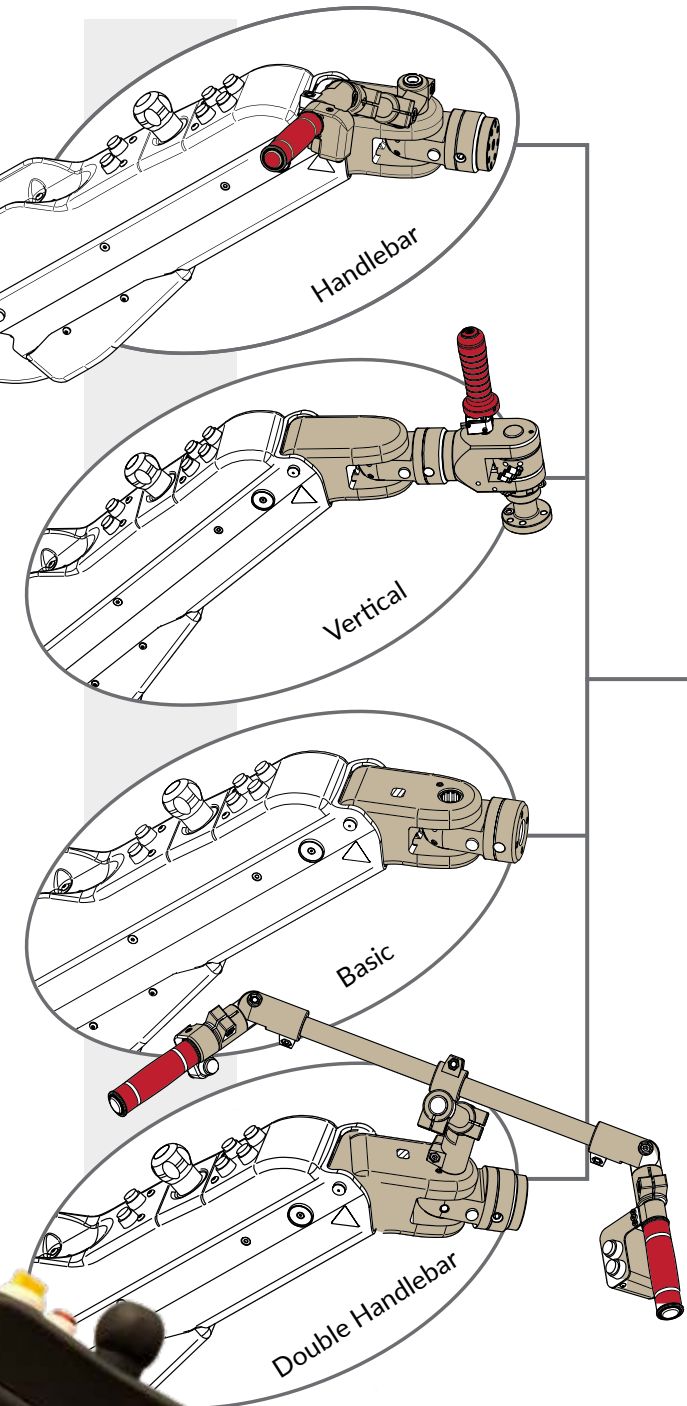
STARTING AT:
\$24,111

Manipulator Pictured:
PB3BS3+MHB5+HV5+GG+LM5

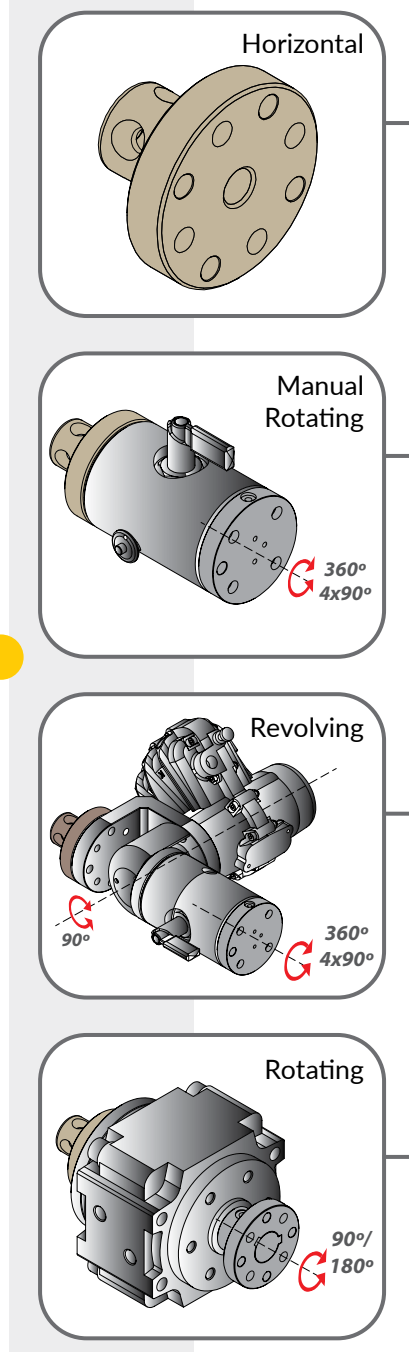
MOUNT



HANDLE



HEAD STYLE



GRIPPING SYSTEM



Build Your Arm
online at
3armamerica.com

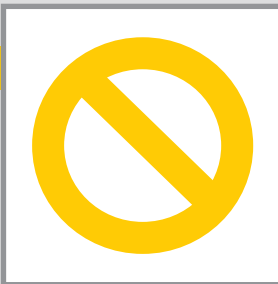
HEAD MEMBERS

 B Vertical Flat	 BA Vertical with Ring	 C Vertical Adjustable	 E Flat Articulated	 EA Flat Articulated with Ring	 F Articulated Adjustable	 G Quick Change	 H Heavy-Duty Applications
 J Magnetic Articulated Drill	 K Universal Strap	 LA Vertical Pneumatic Ball and Socket	 M Constant Pressure Support	 N Multiposition Articulated	 P Double Articulated Flat	 Q Heavy-Duty Multiposition Articulated	 RA Swing Revolver
 RB Revolver Pistol	 RC Vertical & Horizontal	 R Revolver	 SN Giraffe Multiposition	 SQ Heavy-Duty Giraffe Multiposition	 SR Giraffe Revolver	 T Multiposition Articulated Pistol	 U Heavy-Duty Multiposition Articulated Pistol
 Z Fork							<p>Ask us about a custom toolholding solution. </p>

BRAKES

L00

No Brakes



Brakes are not required and may not be recommended in some applications.

L11

Manual Brakes



Manually set and release brakes by turning a handle.

L22

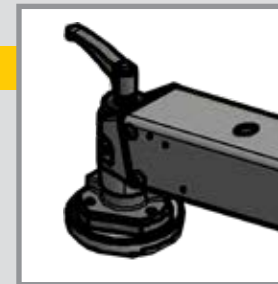
Pneumatic Brakes



Brakes are set and released using a toggle switch.

L50

Manual Locking Base



Manually set and release brake by turning a handle at base only.

L51

Base Brake & Tilting Arm Brake



Manually set and release brakes by turning separate handles at the base and tilting arm.

L92

Tool Trigger Activated



Pneumatic brakes that are activated by using the tool trigger. (Compatible DC Tool required)

MOUNTING SOLUTIONS

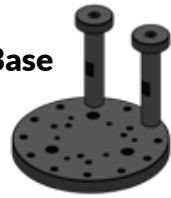


Large Clamp
RA0002A
5" x 5" x 2 1/2"
capacity



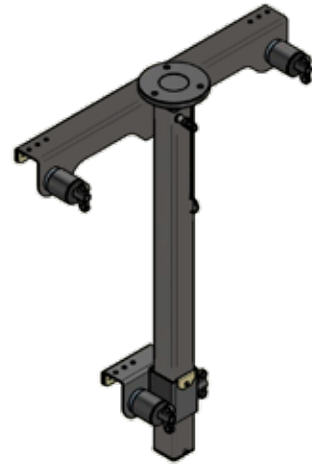
Radial Extension
RA0188A
19" x 2.7"

Arm Limiting Base
RA00104A



Swing Beam
RA0035A
39" x 10 1/2"

Add reach to your build with a Swing Beam



Balustrade Support
RCL108500A
22.75" x 28.5"

We will engineer the perfect solution for your application

Our experts will ensure your 3arm® build is properly balanced with your accessory.

Vertical Reach

Additional sizes available

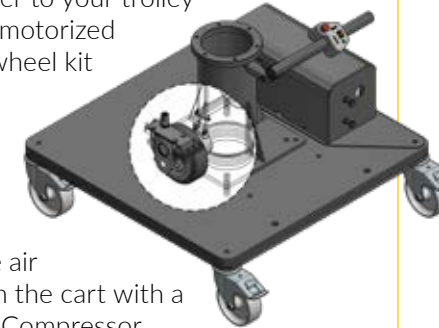


Trolley with Column
RA0007A
27.55" x 27.55" x 37"

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

Electric Wheel
RKA116500

Add power to your trolley with the motorized electric wheel kit



Bring the air supply on the cart with a Portable Compressor

Portable Air Compressor
RNH10290 (SIL 50)



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

Achieve extreme vertical reach with an Elevator

Elevator
R76100A
57.1"



Lifter
RA0012A
19.4"

Add even more vertical reach to your Column

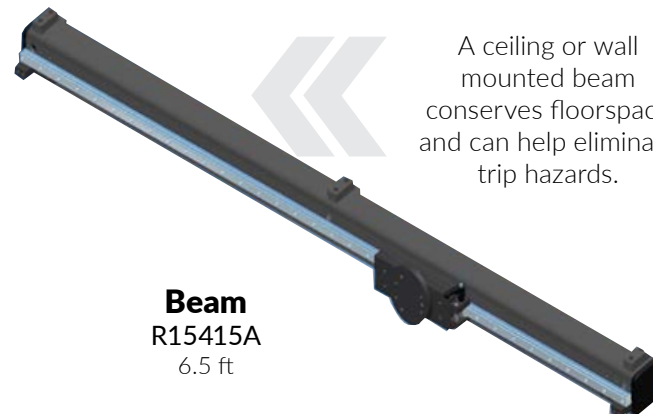


More Reach



Rail
RA0045A
6.5 ft

Easily add dependable reach to your arm.



Beam
R15415A
6.5 ft

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

Mobile Work Space

Additional sizes available



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



Large Table
RA0006A
43 5/16" 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

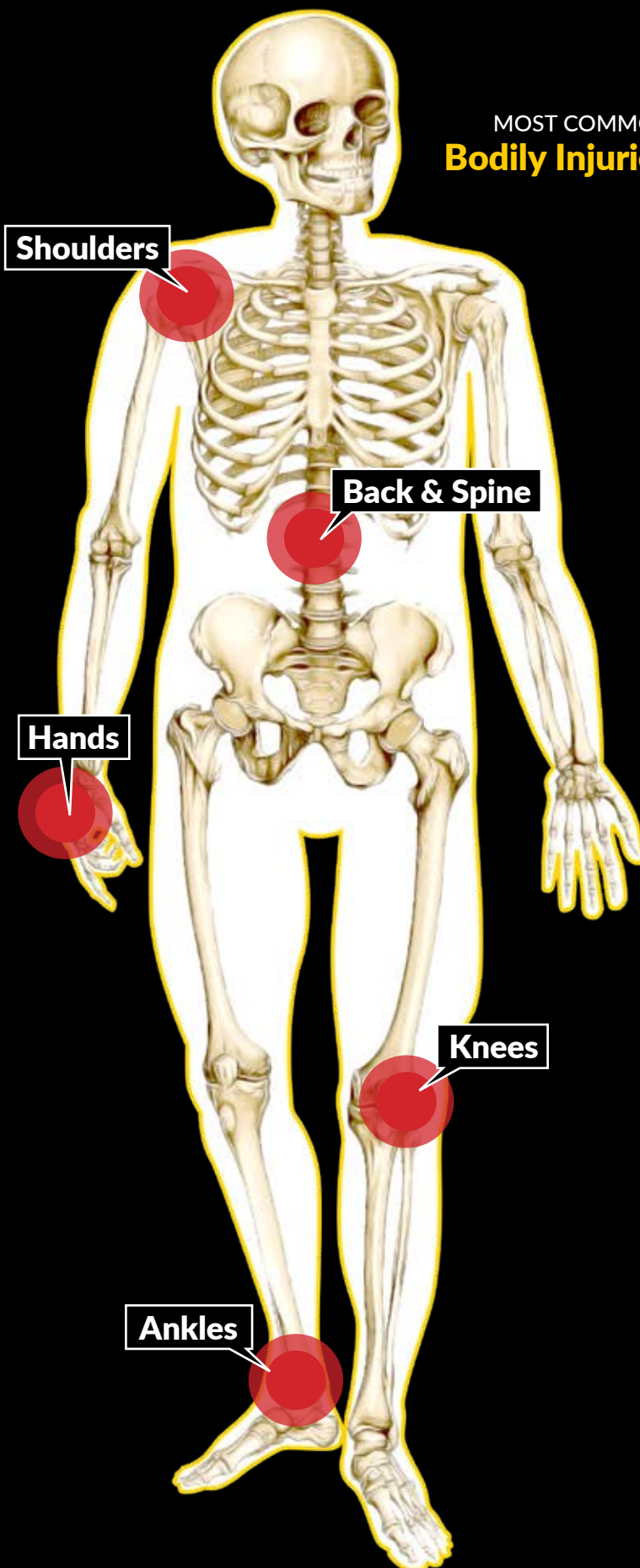


Repetitive Motions



Struck, Cut or Caught by Equipment

MOST COMMON Bodily Injuries



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

3arm®

The Cost of Workplace Injuries in Manufacturing

Are you dealing with a shortage of skilled labor? Like many manufacturers you probably have a highly skilled but older workforce, so it's imperative to keep those workers happy, healthy and operational as long as possible. Injuries can sideline an effective worker, slow down production, affect product quality and hinder the transfer of knowledge to the next generation.

Injuries on the job cost businesses and their employees a significant amount of money, even if the injury doesn't seem serious, such as a strain, sprain, soreness and general pain. According to the U.S. Bureau of Labor Statistics (BLS), private industry employers reported 2.8 million nonfatal workplace injuries and illnesses in 2019. Of those, manufacturing accounted for 15 percent of all private industry nonfatal injuries and illnesses.

Industrial lift assist solutions by 3arm America can help increase safety and productivity in manufacturing workplaces by preventing injuries and increasing employee well-being, and thereby positively impacting your bottom line.

The Most Common Types of Injuries

The BLS reports over 50 percent of non-fatal occupational injuries resulting in missed work are caused by musculoskeletal disorders (MSDs), sometimes called "ergonomic injuries," and cuts, lacerations and fractures caused by accidents. The most common areas affected by these injuries are the shoulders, back, hands, knees and ankles.

Routine tasks performed over time can create pain and injury. In fact, overexertion and repetitive motion are the primary causes of MSDs. These injuries occur when the workers use muscles, tendons and ligaments to perform tasks with heavy tools or in awkward positions. Repeatedly lifting a heavy tool can also cause accidents, such as contusions or fractures.

Examples of a MSD may include pinched nerves, carpal or tarsal tunnel syndrome, sprains, strains and other connective tissue disorders, resulting from overexertion or bodily reaction. Using an ergonomic solution like a 3arm lift assist device, which renders tools weightless, can prevent many of these injuries from occurring.

The Cost of Musculoskeletal Disorders in the US

The statistics can be surprising when looking at the days employees miss from work due to MSDs. In 2018, of all the cases of Days Away From Work due to injuries, approximately 30 percent were due to MSDs. However, over 60 percent of worker injuries are potentially preventable.

That's a significant percentage that can potentially be prevented with targeted solutions such as ergonomic equipment and tools.

SAVE AN ARM AND A LEG

An investment in an ergonomic lift assist device may seem hefty until you calculate the cost of an injury to just one of your employees. The US Department of Labor provides an online calculator through their OSHA "Safety Pays" program. Employers can use the calculator to assess the impact of occupational injuries and illnesses on their profitability. Using the company's profit margin, the average costs of an injury or illness, and an indirect cost multiplier, the calculator projects the amount of sales a company would need to generate to cover those costs.

Total Costs for Injury for a company with a 3% Net Profit Margin

We'll use examples of the direct and indirect costs of two scenarios on a company with a 3% profit margin:

1 A repetitive motion injury such as carpal tunnel

2 An accident that causes a fracture

As you can see, the combined costs are hefty and the sales to cover total costs are staggering.

	CARPAL TUNNEL	FRACTURE
Estimated Direct Costs	\$30,963.00	\$54,856.00
Estimated Indirect Costs	\$34,923.00	\$6,341.00
Combined Total Cost of Injury	\$65,886.00	\$115,197.00
Additional Sales to cover Indirect Costs	\$1,134,100.00	\$2,011,386.00
Additional Sales to cover Total Costs	\$2,165,100.00	\$3,839,900.00

OSHA estimates that just one carpal tunnel claim can cost a company almost thirty-one thousand dollars in direct expenses and another thirty-four thousand in indirect expenses. That's an easy justification for investing in an industrial lift assist device by 3arm.

Working Without Industrial Lift Assist Equipment Can Be Harmful

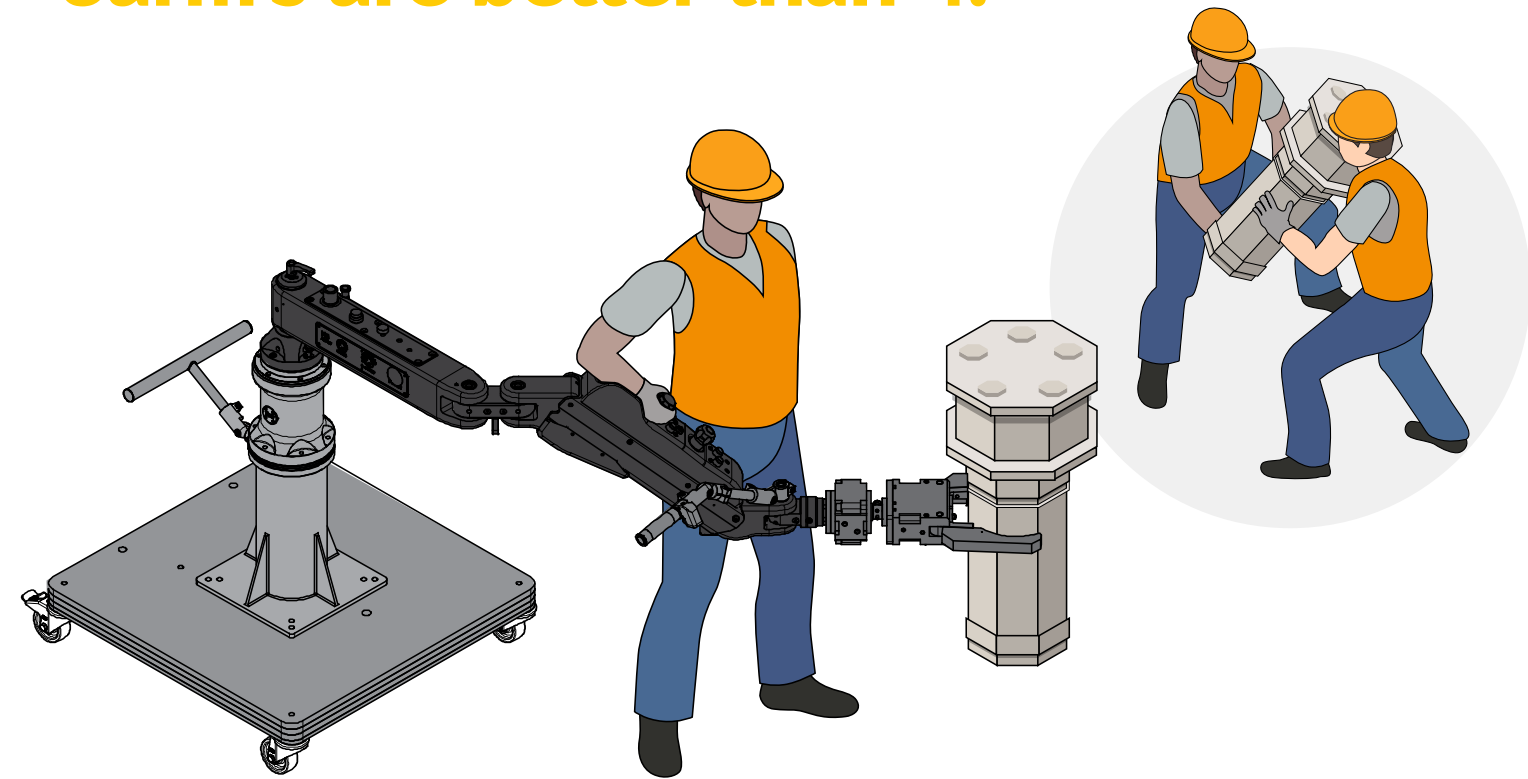
Performing any type of work with heavy tools, conducting tasks in awkward positions, or doing repetitive tasks without ergonomic aid has many negative ramifications on employee safety:

- Reduced Safety** Operator fatigue can result in accidents and injuries to employees. Inattention to tool placement or misplacement of tools can result in damage to expensive tools and the products they are working on.
- Long-term Injuries** Operators can develop physical damage over time due to the repetitive motions and the possible associated torque from using tools such as pneumatic impact wrenches.
- Increased Costs** Employee injuries, damaged tools and products, inconsistent quality and inefficient processes result in additional workers' compensation claims, as well as increased scrap, takt time and expenses.
- Employee Turnover** Employees who are exposed to injuries and safety issues will eventually leave to find better employment, taking industry knowledge with them.
- Recruitment** Potential new employees will take note of the physical demand required. They are more likely to take a position that includes the aid of an ergonomic lift assistance device like 3arm.
- Team Morale** You know how important your team's morale is for productivity. So it's easy to see how the assistance of 3arm can also lift morale providing a quick boost to productivity and job satisfaction.

SOURCES: Occupational injuries and illnesses resulting in musculoskeletal disorders (MSDs) (bls.gov), <https://www.bls.gov/iif/soii-charts-2018.pdf>, <https://www.bls.gov/news.release/pdf/osh.pdf>

The social distancing solution for industry. We can help you keep your team safe.

3arm's are better than 4.



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

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IPT America

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.

