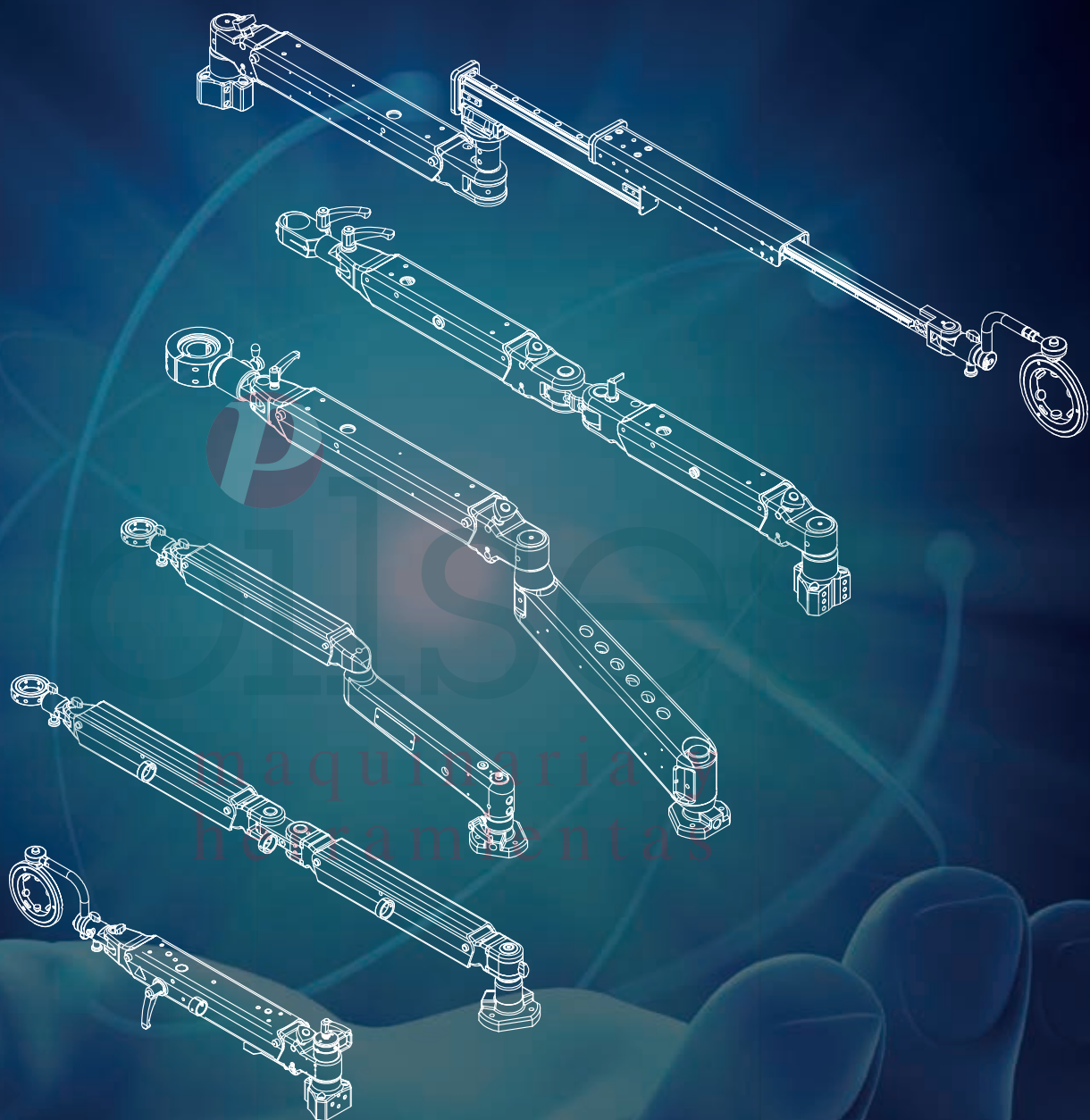


3arm®

 **pilses**®
maquinaria y
herramientas



ERGONOMIC SOLUTIONS

October 2021

Integrating a 3arm® solution

Each 3arm® is customized for your tool and application at the factory to optimize the arm for your process and achieve out-of-the-box performance.

QUESTIONS:

WHAT TOOL DO YOU WANT TO HOLD?

TYPE:

MAKE:

MODEL:

ORIENTATION:

WEIGHT:

TOOL DRAWING (3D STP):

WHAT ARE YOUR APPLICATION REQUIREMENTS?

HORIZONTAL REACH:

VERTICAL REACH:

MOUNTING ORIENTATION:
☐ FLOOR ☐ WALL ☐ CEILING

MOUNTING SOLUTIONS:
☐ MOBILE ☐ BEAM
☐ ELEVATOR ☐ COLUMN
☐ RAIL ☐ MAGNET

BRAKES:
☐ NOT REQUIRED
☐ MANUAL
☐ PNEUMATIC
☐ MANUAL LOCKING BASE
☐ TOOL TRIGGER ACTIVATED

TORQUE:

Head Member Design

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 base-mounted, ceiling-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. Check out our solutions system 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.

WARRANTY

3arm® 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.

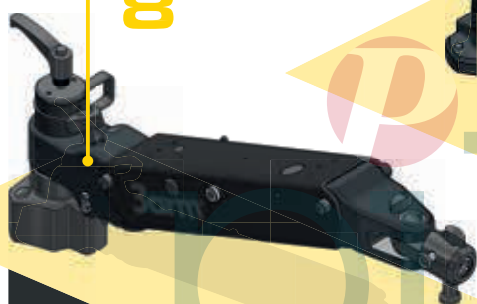
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Series 1

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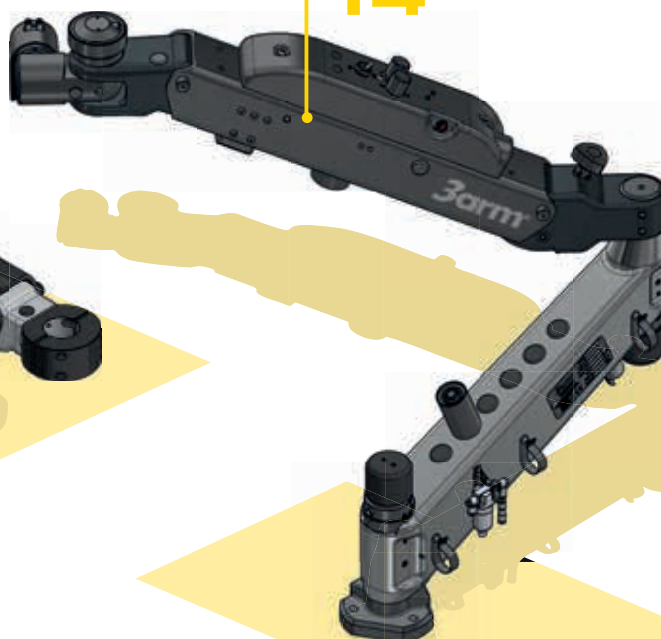
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Series 6
18



Series 7
20



Smart Arm
22

Head Members + Brakes **24**

Mounting Solutions **26**

Worker Injury **28**

Prevent the Problem **29**

INDUSTRIES SERVED



Automotive



Assembly



Mining



**Wind
Energy**



Construction



Aerospace

Versatility and Productivity

3arm® has been designed to keep weightless any tool and device up to 60kg (132 lbs), with different working areas, including more than 45 head systems and be fixed in any position according its accessories and having more than 1 million combinations available.

Ergonomic Safety

The weightlessness and the skill to absorb a considerable tool torque reaction depending on the headmember and the option to lock the arm in any position and movement helps to prevent the operator fatigue and injuries, giving them high work sensitivity and increasing 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 increasing productivity.
- Reduces operator fatigue and the chance of injury due to strain.
- Holds any tool up to 60 Kg, keeping the tool weightless, while eliminating possible damage caused by dropping the tool.



SERIES 0

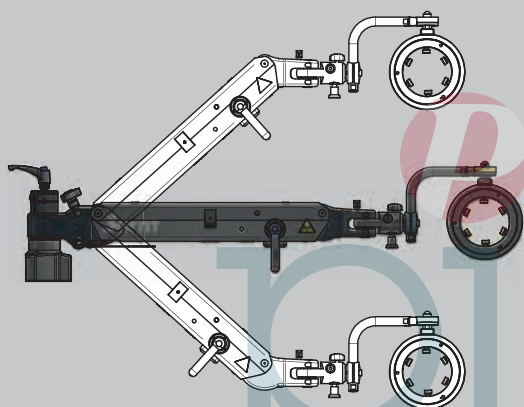
3arm® Solutions

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



REACH		MAX. up to	TORQUE up to
↑ VERT.	→ HORZ.		
1070 mm	925 mm	35 kg	650 Nm
42 in	36 in	77 lbs	479 ft-lb

A single tilting arm for the most simple applications. Three different arm lengths, all the brake options and headmembers offers versatility for any kind of tool.



	FLOOR MOUNTED / CEILING MOUNTED	REACH		MAX KG	REACH		MAX LBS
		VERT	HORZ		VERT	HORZ	
SN/ST DS	Extra Short Tilting	500	510	30	19,8	20	65
SN/ST BS	Short Tilting	669	625	35	26,3	24,3	77
SN/ST BM	Long Tilting	1070	925	19	44,5	36,4	41

COMPATIBLE HEAD MEMBERS

All

See Headmembers, pg 24

BRAKE OPTIONS

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

Pure
Simplicity
for holding
tools

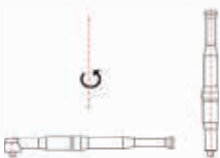
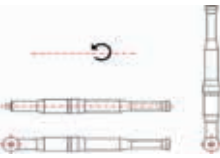

SINGLE FOR SIMPLE APPLICATIONS

3arm®



Compact and precise with great maneuverability

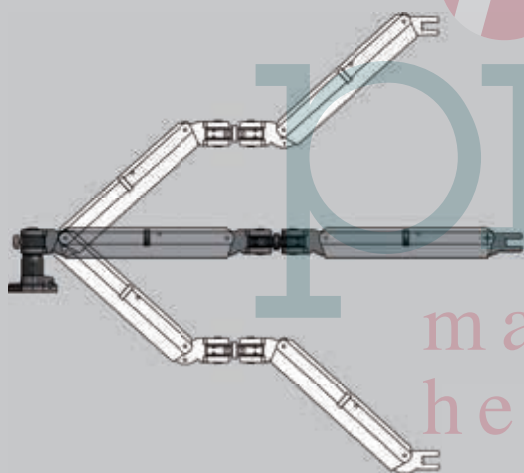
TORQUE RECOMMENDATIONS

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

SERIES 1

REACH		MAX. up to
↑ VERT.	→ HORZ.	
1070 mm	1123 mm	10 kg
44 in	43 in	22 lbs

Series 1 arms are capable of the most difficult operations and positions required. The innovative connections between the parts of the arm allow completely free movement of rolling up, down and sideways



ORIENTATION

1PL1DS	Floor Mounted
1AS1DS	Ceiling Mounted

COMPATIBLE HEAD MEMBERS

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

See Headmembers, pg 24

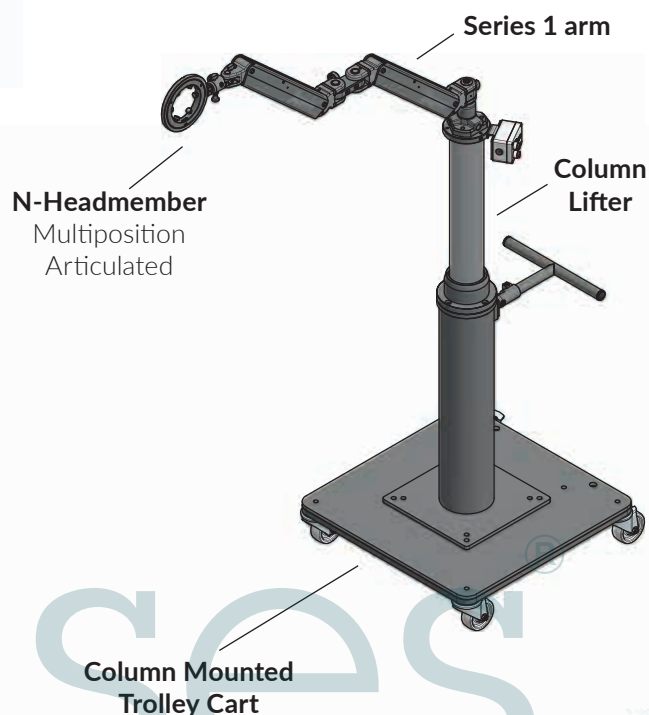
BRAKE OPTIONS

L00 No brakes

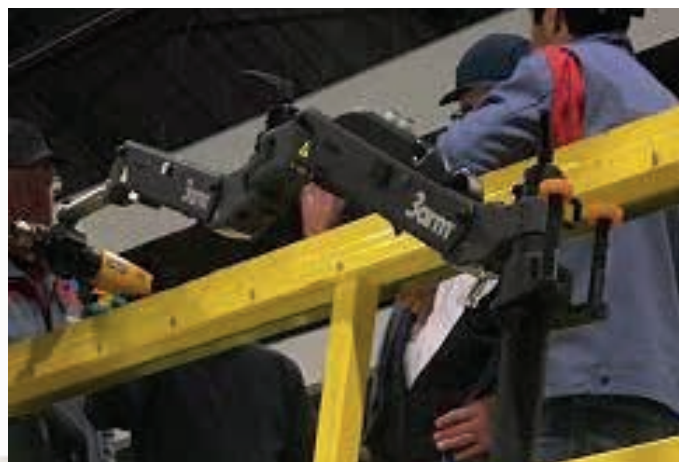
L50 Manual locking base

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**



Light and nimble with great vertical reach

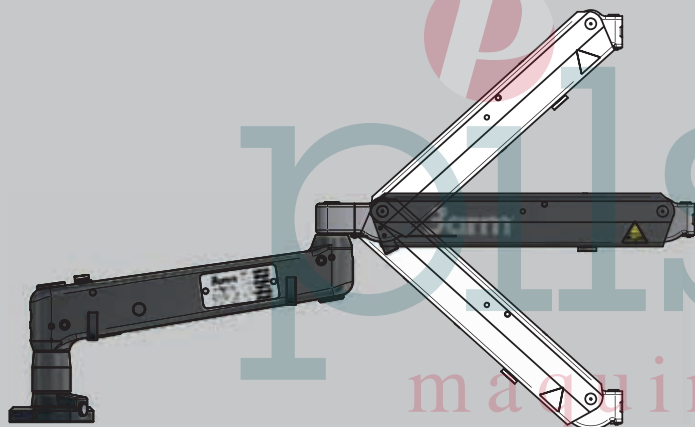
polises®
maquinaria y
herramientas

**Dual
Tilting Arms Add
Extra Vertical
Reach**

SERIES 2

REACH		MAX. up to 10 kg	TORQUE up to 120 Nm
↑ VERT.	→ HORZ.		
530 mm	860 mm		
22 in	34 in	22 lbs	88 ft-lb

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.



ORIENTATION

B	Floor Mounted
BE	Elevating Base
BS	Ceiling Mounted

COMPATIBLE HEAD MEMBERS

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

See Headmembers, pg 24

BRAKE OPTIONS

L00 No brakes

L50 Manual locking base

**An Excellent
Assembly
Solution for
Small Work
Areas**

THE PERFECT BALANCE ... IN YOUR WORK



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



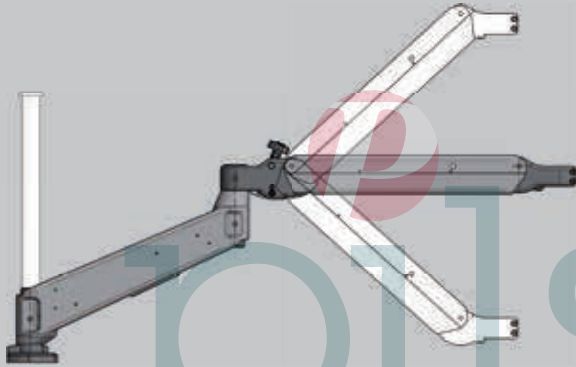
TORQUE RECOMMENDATIONS

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

SERIES 3

REACH		MAX. up to 35 kg	TORQUE up to 650 Nm
↑ VERT.	→ HORZ.		
1070 mm	1725 mm		
42 in	68 in	77 lbs	479 ft-lb

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.



FLOOR MOUNTED/CEILING MOUNTED		REACH mm		MAX Kg	REACH in		MAX LBS
		VERT	HORZ		VERT	HORZ	
A/PSBS	Short Radial + Short Tilting	669	1075	35	26.3	41.7	77
A/PSBM	Short Radial + Long Tilting	1070	1375	19	44.5	53.5	40
A/PLBS	Long Radial + Short Tilting	669	1432	35	26.3	55.9	77
A/PLBM	Long Radial + Long Tilting	1070	1733	19	44.5	67.6	40

ELEVATING BASE

PEBS	Elevating Radial + Short Tilting	1080	1125	35	26.3	43.7	77
PEBM	Elevating Radial + Long Tilting	1519	1425	19	44.5	55.8	40

BRAKE OPTIONS

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

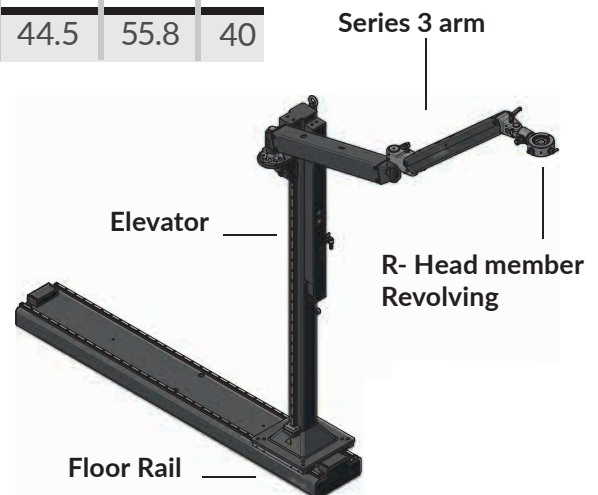
See Brakes, pg 24

COMPATIBLE HEAD MEMBERS

ALL

See Headmembers, pg 24

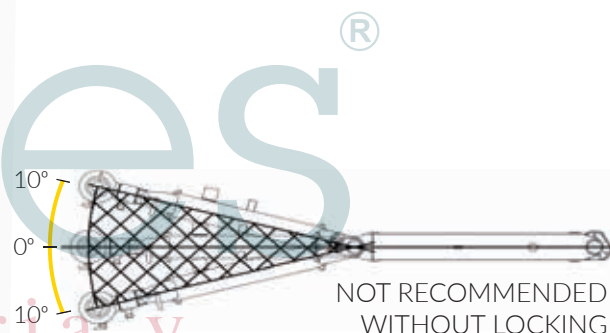
The
Workhorse
of the 3arm®
Series



THE CAPABILITY TO ... CARRY THE WEIGHT



Long reach and the ability to carry the heaviest loads



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

3arm® Solutions

The Floor Rail plus the Elevator provides a big working area for your application.

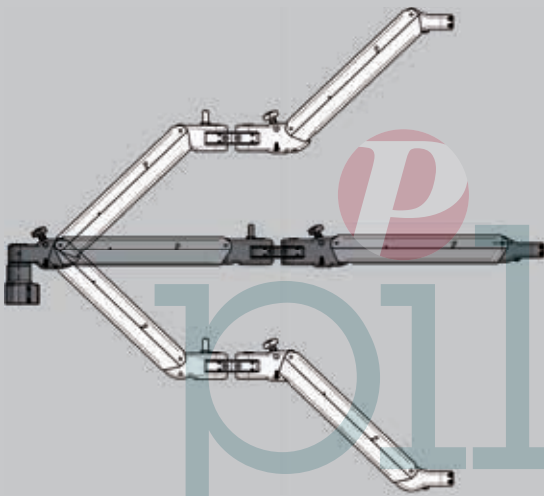
See More Solutions, pg 26

*Series 3 - LOCKING RECOMMENDED

SERIES 4

REACH		MAX. up to	TORQUE up to
↑ VERT.	→ HORZ.		
1340 mm	1555 mm	24 kg	300 Nm
52 in	57 in	53 lbs	220 ft-lb

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.



FLOOR MOUNTED / CEILING MOUNTED		REACH mm		MAX Kg	REACH in		MAX LBS
		VERT	HORZ		VERT	HORZ	
A/DS	Short Arm	1020	1220	21	40	48	43
A/DM	Long Arm	1340	1555	24	52	57.5	53

COMPATIBLE HEAD MEMBERS

ALL

See Headmembers, pg 24

BRAKE OPTIONS

L00 No brakes

L11 Manual

L22 Pneumatic

L50 Manual Locking Base

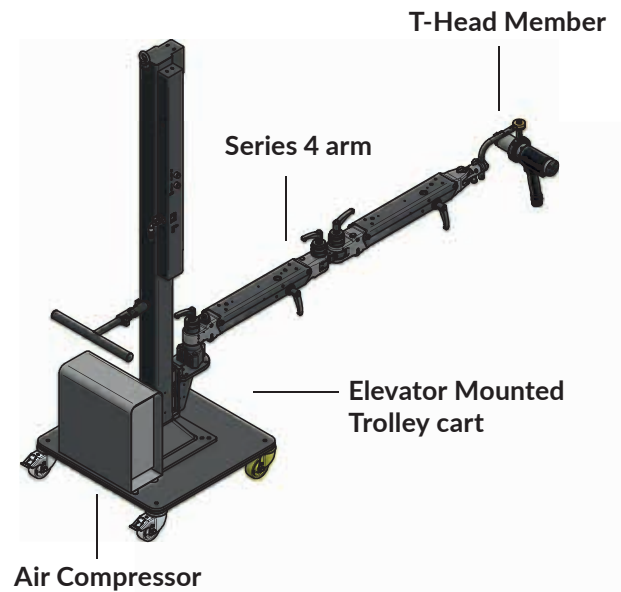
L92 Tool Trigger Activated

See Brakes, pg 24

3arm® Solutions

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

See More Solutions, pg 24



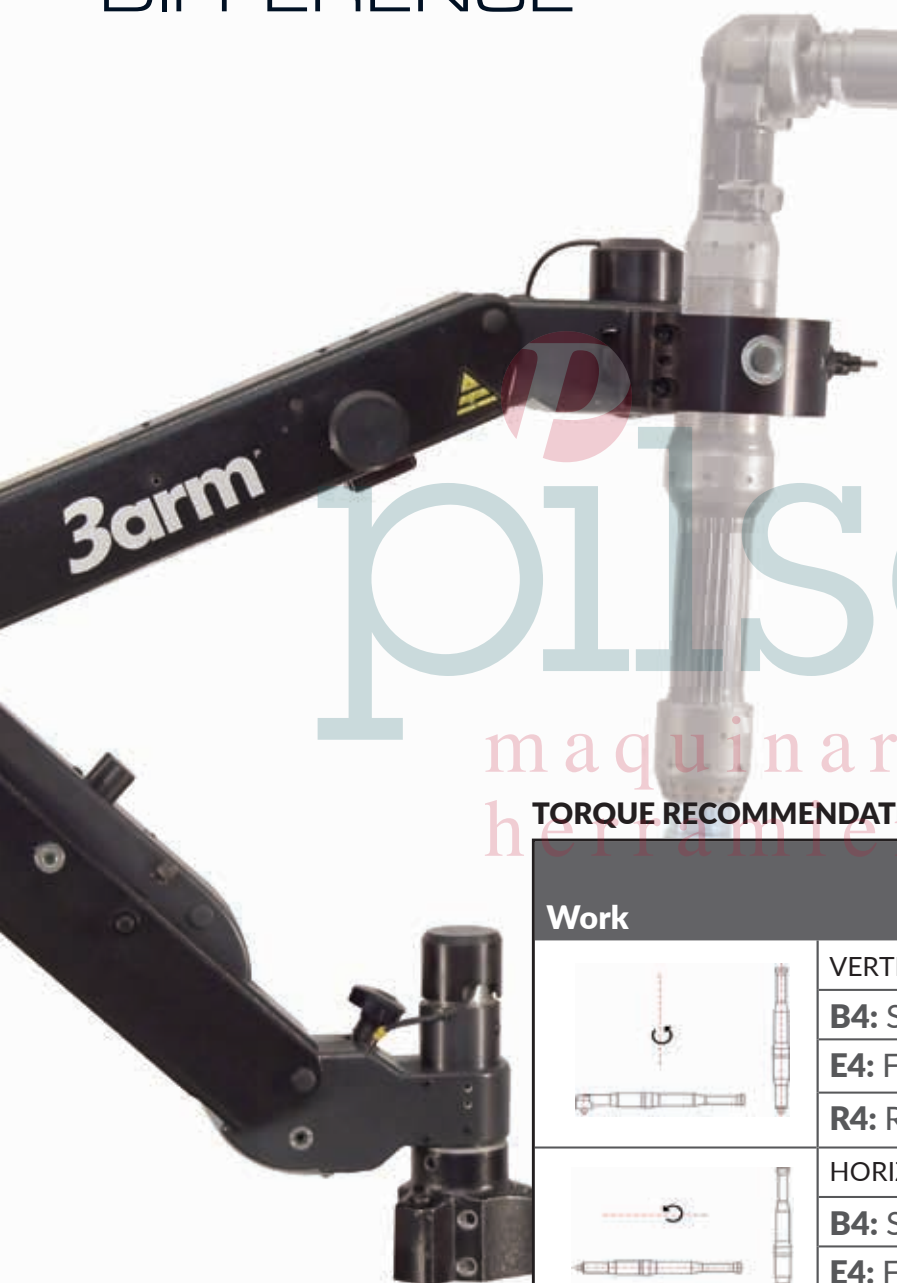
**Dual Tilting
Arms Expand
the Range of
Movement**

THE RIGHT ANGLE ...

MAKES ALL THE
DIFFERENCE



Extended vertical reach with uncompromised strength



polises®

maquinaria y
herramientas

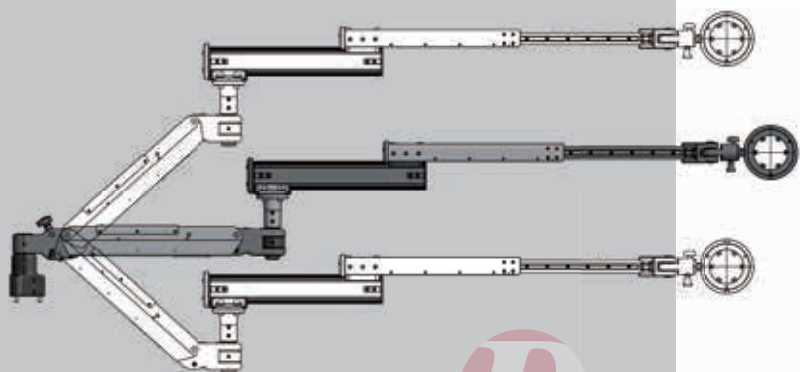
TORQUE RECOMMENDATIONS

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

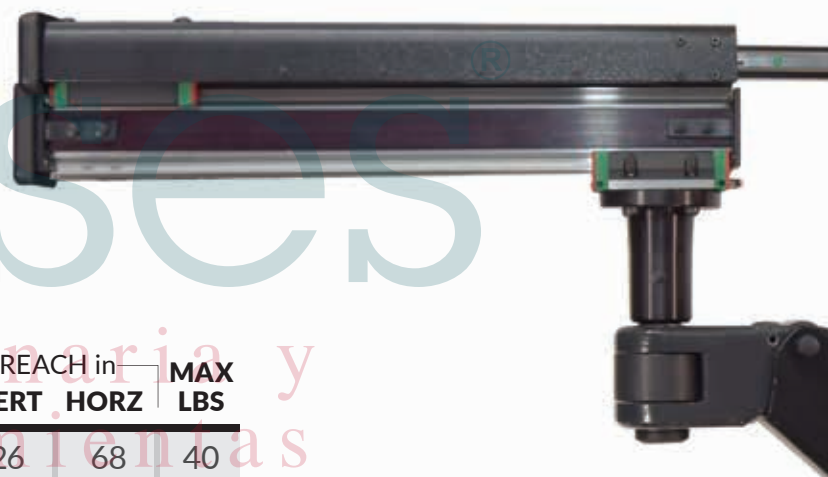
*Series 4 - LOCKING REQUIRED

SERIES 6

REACH		MAX. up to 18 kg	TORQUE up to 300 Nm
↑ VERT.	→ HORZ.		
669 mm	2095 mm		
26 in	82 in	40 lbs	220 ft-lb



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.



FLOOR MOUNTED/ CEILING MOUNTED		REACH mm		MAX Kg	REACH in		MAX LBS
		VERT	HORZ		VERT	HORZ	
SC	Short Arm	669	1747	18	26	68	40
SM	Long Arm	669	2095	10	26	82	22

DESCRIPTION

BPRASC Series 6 Short

BPRASM Series 6 Long

COMPATIBLE HEAD MEMBERS

SC: ALL SM: N, T only

See Headmembers, pg 24

BRAKE OPTIONS

V800 V1200

L00 No brakes

L22 Pneumatic

L92 Tool trigger Activated

Get Your
Tool into
Tight Spaces
Safely

EVERYTHING ... WITHIN REACH



Extended horizontal reach spans more than 2M.



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

SERIES 7

REACH		MAX. up to 60 kg	TORQUE up to 1200 Nm
↑ VERT.	→ HORZ.		
707 mm	1670 mm		
27 in	65 in	132 lbs	885 ft-lb

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.



ORIENTATION

7 PS	Floor Mounted
7 AS	Ceiling Mounted

COMPATIBLE HEAD MEMBERS


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

See Headmembers, pg 24

BRAKE OPTIONS

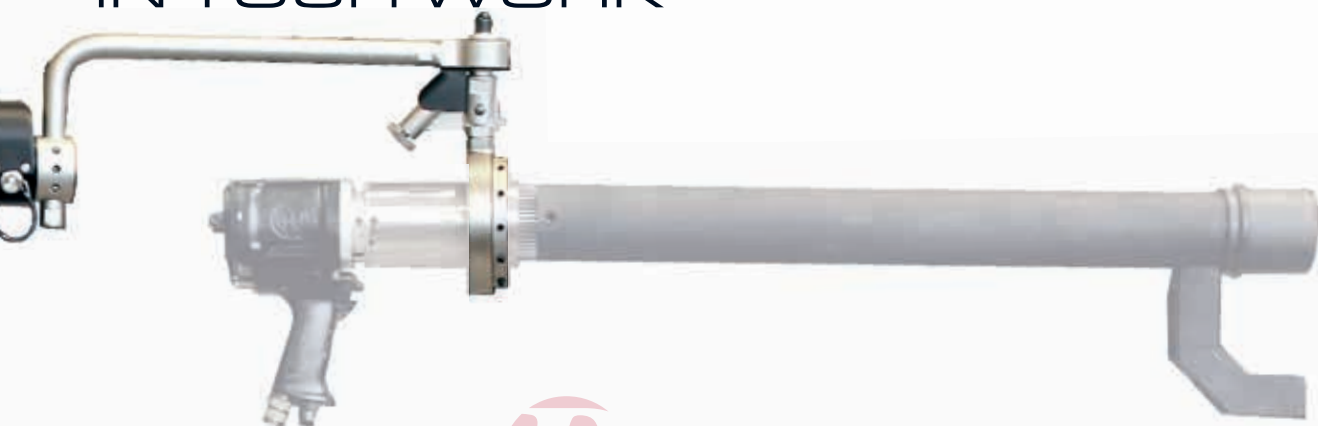
L50 Manual Locking base
L11 No brakes
L22 Pneumatic
L92 Tool trigger Activated

For the applications with the most demanding tools

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

POWERFUL BALANCE

IN YOUR WORK




pilses®
maquinaria y
herramientas

Compact arm for big solutions



THE ENCODER

SmartControl

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

REACH		MAX.	TORQUE
↑ VERT.	→ HORZ.		
1070 mm	1725 mm	up to 35 kg	up to 650 Nm
42 in	55 in	77 lbs	479 ft-lb

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 70 fastening positions

Tool

Factory customized for your tool

Touch Screen

Manual job selection using the touch screen

Encoder 1

Series 3 arm

Encoder 2

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

DESCRIPTION

BS/BB2+L80	Series 2 Base
A/PSBS+L80	Series 3, Short + Short
A/PSBM+L80	Series 3, Short + Long
A/PLBS+L80	Series 3, Long + Short
A/PLBM+L80	Series 3, Long + Long

COMPATIBLE HEADMEMBERS

B, BA, C, E, EA

See Headmembers, pg 22

Quickly and easily
create new sequences

Increase productivity
and safety

Adaptable headmember
for a wide variety of tools



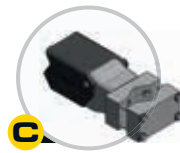
HEAD MEMBERS



B
Vertical
Flat



BA
Vertical with
Ring



C
Vertical
Adjustable



G
Quick
Change



H
Heavy-Duty
Applications



J
Magnetic
Articulated
Drill



K
Universal
Strap



M
Constant
Pressure
Support



N
Multiposition
Articulated



P
Double
Articulated
Flat



Q
Heavy-Duty
Multiposition
Articulated



SN
Giraffe
Multiposition



SQ
Heavy-Duty
Giraffe
Multiposition

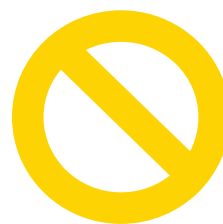


SR
Giraffe
Revolver

BRAKES

L00

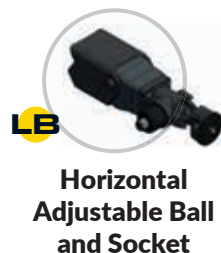
No Brakes



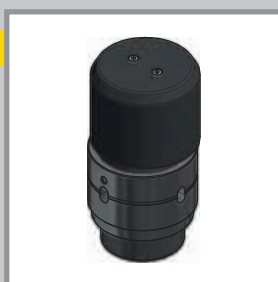
L11

Manual
Brakes

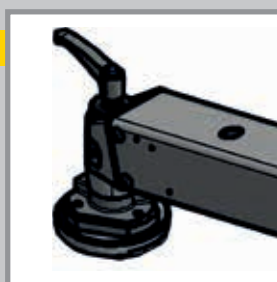




L22
Pneumatic Brakes



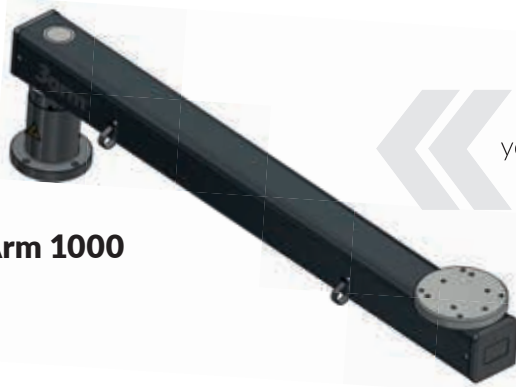
L50
Manual Locking Base



L92
Pneumatic, brakes activated from the tool trigger



MOUNTING SOLUTIONS



Extension Arm 1000
1000 mm

Add reach to
your build with a
Swing Beam



Bae Rotation Limiter



**Extension
Arm 500**
500 mm



**Balustrade
Support**

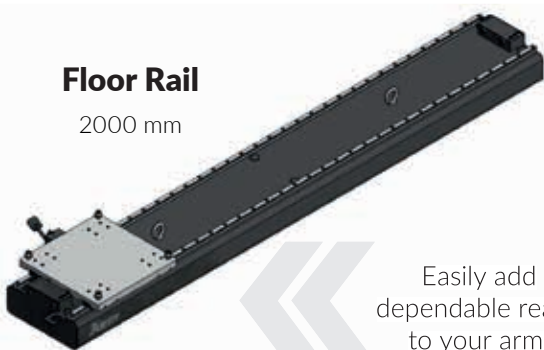
**We will engineer the perfect solution
for your application**

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

More Reach

Floor Rail

2000 mm



Easily add
dependable reach
to your arm.

Linear Guide

2000 mm



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

Custom sizes available



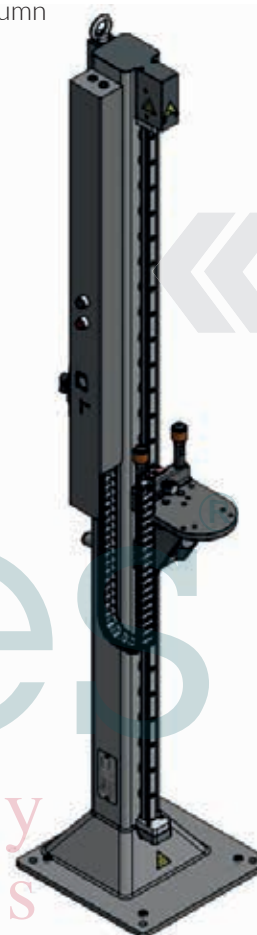
Mounting Column

From 200 to 1700 mm



Trolley with Column

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



Acheive extreme vertical reach with an Elevator

Elevator

1500 mm
2000 mm
2500 mm



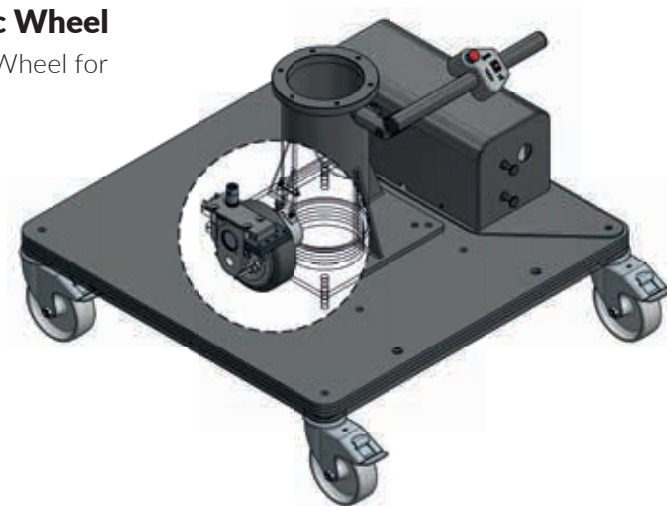
Lifter

300 / 500 / 750 mm

Add even more vertical reach to your Column

Electric Wheel

Electric Wheel for trolleys



Manufacturing Industry Worker INJURY

SOURCE: U.S. BUREAU OF LABOR STATISTICS

MOST COMMON

Type of Injury



Sprains and Strains



Cuts and Lacerations



Fractures

MOST COMMON

Cause of Injury



Overexertion



Repetitive Motions



Struck, Cut or Caught by Equipment

MOST COMMON

Bodily Injuries

Shoulders

Back

Hands

Knees

Ankles