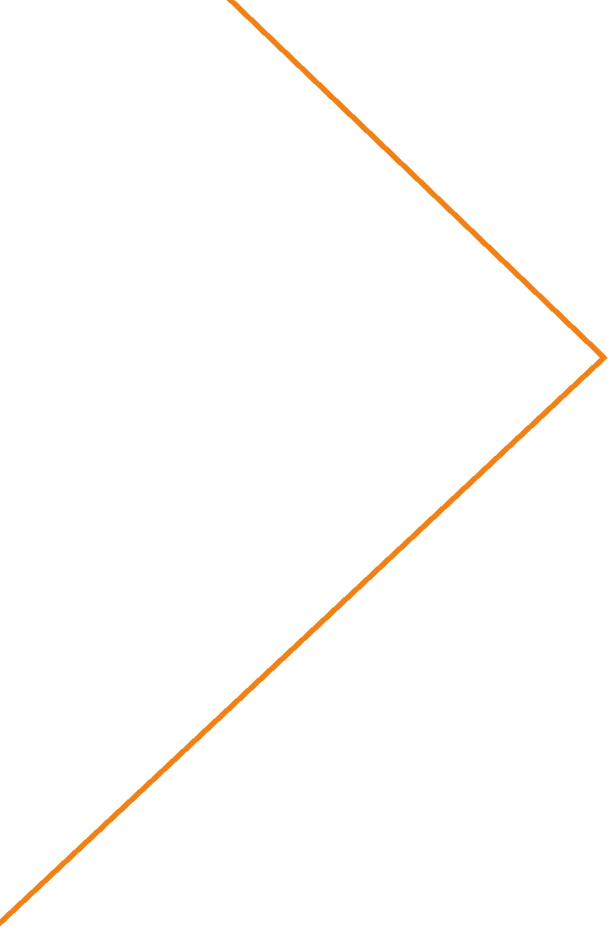




ADVANCED ERGONOMIC SOLUTIONS

MADE
IN 
ITALY

**ERGONOMIC
WORKSTATION
SOLUTIONS**



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Our Mission

Since 1995 we are present in the field of tightening accessories.

We develop and produce advanced ergonomic solutions and components for assembly and tightening phases on industrial processes.

In recent years, to meet market request about improving, ergonomics and traceability of production processes, we have been dedicated to **research and development of new technologies and materials** by developing high-tech products with competitive prices for our customers.

This business policy allow us to become **partner of the largest producers of assembly tools** and their **partner in joint planning** to development new products.

Today we offer:

- **Full range** of standard products
- **Custom-branded BNP products**
- **Customer's logo** with inclusion of the support **service in the design or co-design**



HIGH TECHNOLOGICAL
CONTENT



HEALTH OF THE PERSON



SIMPLICITY AND INTUITY



SOSTENIBILITY

What we provide

- Co-design collaboration
- Wide range of technologies
- Composite materials (carbon fiber) know-how
- Customized products and processes
- Experienced staff
- Responsive customer service

Which advantages do you have with our solutions?

Our products are made up with **innovative** and **high-performance mechanical materials**, **lighter** and exclusive **design** at the same. Their use makes it possible to increase the **productive efficiency** and the **respect of ergonomic principles on work environment**.

A great contribution to performances is given by large use of **carbon fiber**, which allows design of very light and resistant products.

During design phase, our solutions always meet following necessities:

- **Ergonomics** – the science that studies physical and cognitive interaction between man and objects in their context of use;
- **Lean Production** – philosophy based on the principle of zero waste on production processes;
- **Industry 4.0** – a new concept of manufacturing where new digital technologies become part of the production process management system;
- **Total quality** – a business system in which everything and everyone are involved in reaching customer satisfaction.

Benefits:

- **Ergonomics** – our value is the operator well-being;
- **Quality** – prevention from risk of making defective components;
- **Flexibility** – the adaptability to several customer necessities;
- **Efficiency** – a considerable reduction of time involved on the work cycle;
- **Technological innovation** – thinking and acting looking at the future for increasing competitiveness;
- **High usability** – an easy and user-friendly man-machine interface;
- **People involvement** – knowledge and awareness from the operator are basic requirements for the success of the system.

Introduction to AD.E.S.

Advanced ergonomic solutions

AD.E.S. is the merging of **ergonomics, technology and materials innovation** concepts with requirements of **flexibility** on business productivity, **efficiency** and production process **total quality**.

All these aspects are realized in “**advanced ergonomic solutions**”: ergonomic workstations assisted by integrated software, for assembling and hand tightening of components in line production of industrial processes.

The acronym **AD.E.S.** means a complete and **customizable** solution, including the possibility of **autonomous up-date** by the end user.
By this solution we meet company necessities in order on **cost-saving**.



What is AD.E.S. ?



An ergonomic and innovative workstation made with light and efficient materials, exclusive esthetic, customizable, adaptable and with expandable system on demand.

A solution that ensures production process total quality and allows increasing flexibility and business productivity, with components easily available on Italian territory for a Made in Italy product.

Components

- Torque reaction arms
- Handling system
- Ergonomic accessories
- Posix positioning system
- SMM Software
- Assembly equipment



Torque reaction arms

BRT 10 Torque Arms

(Max torque 10Nm)



Use

Torque reaction is perpendicular to arm axis

Included

Torque reaction arm
Tool holder

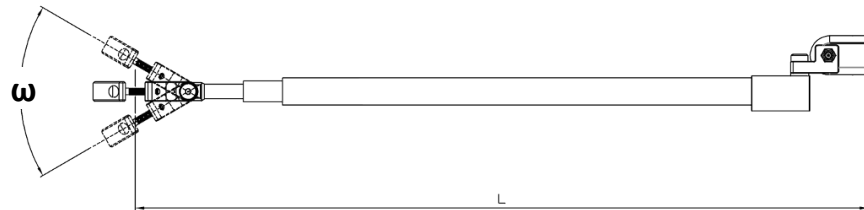
Not included

Balancer

Strengths

- Made of high-module carbon fiber
- High precision machining and aluminum alloy parts

Model Range



Model	Part number	Max torque		Min length		Max length		ω	Weight
		(Nm)	(f.lb)	(mm)	(in)	(mm)	(in)		
BRT10 1000	020.0001.000	10	7.38	495	19.49	1105	43.50	90	0.395
BRT10 1500	020.0002.000	10	7.38	665	26.18	1605	63.19	90	0.451

BRT Torque Arms

(Max torque 15 - 220 Nm)



Use

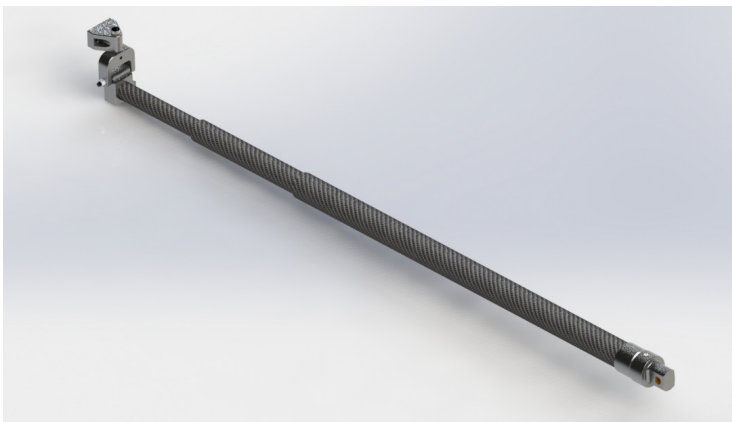
Torque reaction is perpendicular to arm axis

Included

Torque reaction arm

Not included

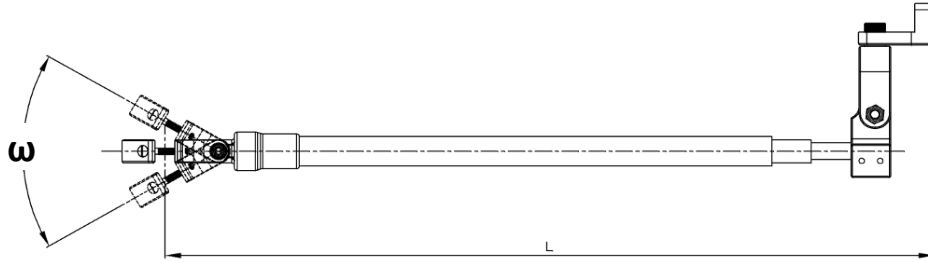
Tool holder (Pag. 18-23)
Accessories (Pag. 26)



Strengths

- Made of high-module carbon fiber
- High precision machining and aluminum alloy parts

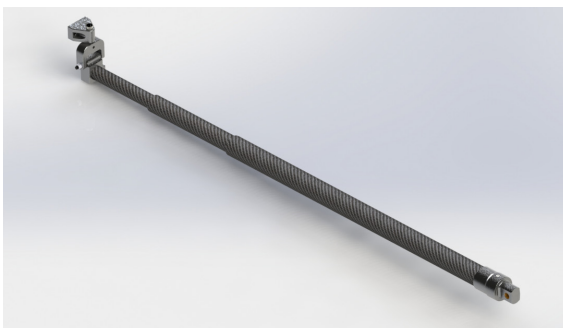
Model Range



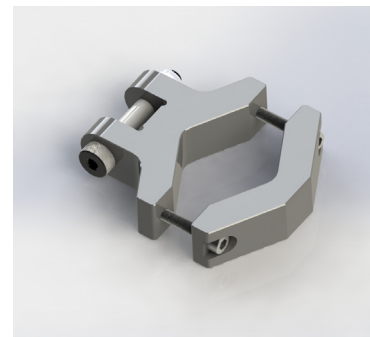
Model	Part number	Torque max		L min		L max		ω	Weight
		(Nm)	(f.lb)	(mm)	(in)	(mm)	(in)		
BRT15 1000	020.0003.000	15	11.06	486	19.13	1066	41.97	60	0.668
BRT15 1500	020.0004.000	15	11.06	646	25.43	1556	61.26	60	0.727
BRT15 2000	020.0005.000	15	11.06	806	31.73	2046	80.55	60	0.786
BRT40 1000	020.0006.000	40	29.50	486	19.13	1066	41.97	50	0.733
BRT40 1500	020.0007.000	40	29.50	646	25.43	1556	61.26	50	0.820
BRT40 2000	020.0008.000	40	29.50	806	31.73	2046	80.55	50	0.913
BRT40 2500	020.0009.000	40	29.50	986	38.82	2576	101.42	50	0.999
BRT80 1500	020.0010.000	80	59.00	658	25.91	1586	62.44	40	0.930
BRT80 2000	020.0011.000	80	59.00	828	32.60	2078	81.81	40	1.028
BRT80 2500	020.0012.000	80	59.00	998	39.29	2588	101.89	40	1.127
BRT150 1500	020.0013.000	150	110.63	668	26.30	1578	62.13	30	1.395
BRT150 2000	020.0014.000	150	110.63	838	32.99	1918	75.51	30	1.548
BRT150 2500	020.0015.000	150	110.63	1003	39.49	2248	88.50	30	1.720
BRT220 1500	020.0016.000	220	162.26	668	26.30	1578	62.13	20	1.585
BRT220 2000	020.0017.000	220	162.26	838	32.99	2088	82.20	20	1.775
BRT220 2500	020.0018.000	220	162.26	1003	39.49	2588	101.89	20	1.995

Proper order configuration

BRT with standard clamp



+



BRT-V Torque Arms

(Max torque 15 - 220 Nm)

Use

Torque reaction is perpendicular to arm axis

Included

Torque reaction arm

Not included

Tool holder (Pag. 18-23)

Balancer (Pag. 24)

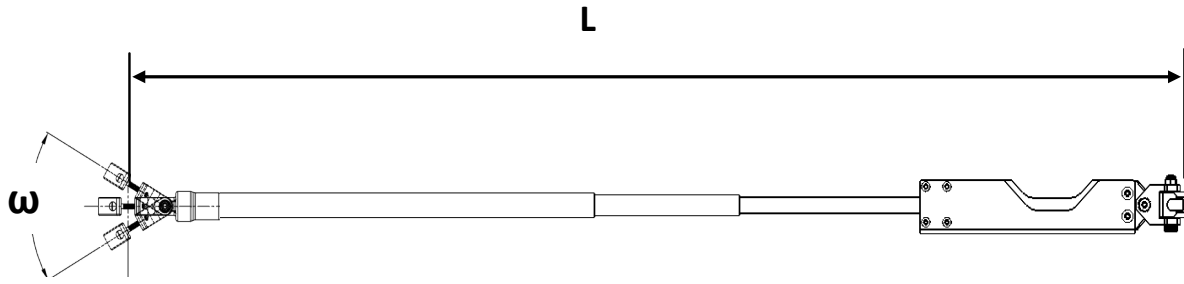
Accessories (Pag. 27)

Strengths

- Designed for 3 types of balancer, with weight range 0,4-14Kg
- Specific design for vertical installation only, with in-line balancer fixing



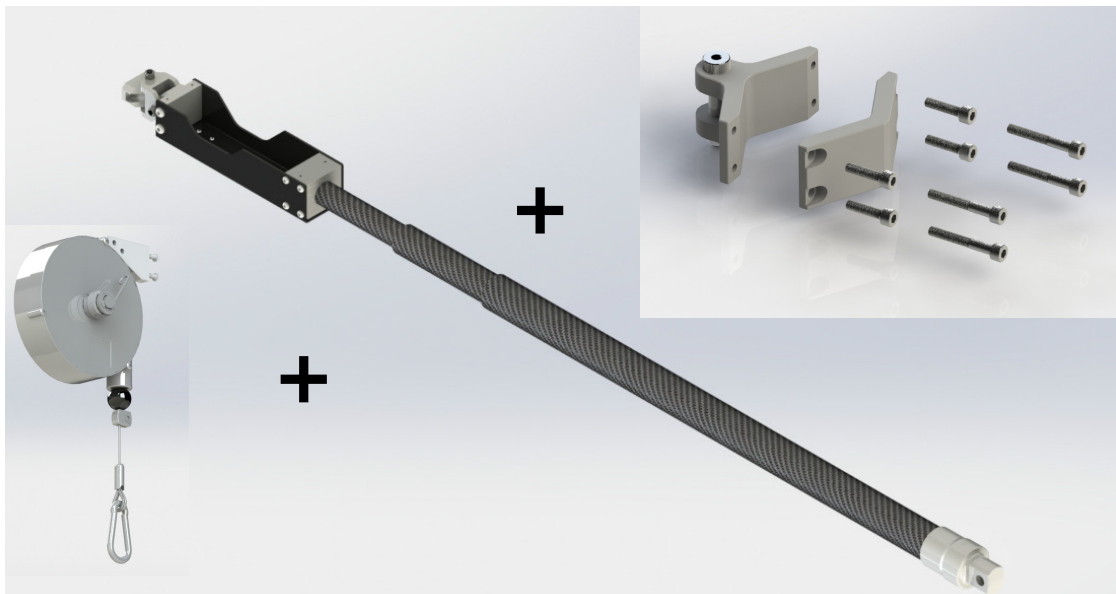
Model Range



Model	Part number	Max torque		min L		max L		ω	Weight to	Weight
		(Nm)	(f.lb)	(mm)	(in)	(mm)	(in)		balance	
BRT-V 15 1000	020.0101.000	15	11.06	777	30.59	1345	52.95	60	0.35	2.3
BRT-V 15 1500	020.0102.000	15	11.06	937	36.89	1835	72.24	60	0.4	2.4
BRT-V 15 2000	020.0103.000	15	11.06	1097	43.19	2325	91.53	60	0.45	2.5
BRT-V 40 1000	020.0104.000	40	29.50	777	30.59	1345	52.95	50	0.4	2.5
BRT-V 40 1500	020.0105.000	40	29.50	937	36.89	1835	72.24	50	0.45	2.6
BRT-V 40 2000	020.0106.000	40	29.50	1097	43.19	2325	91.53	50	0.55	2.7
BRT-V 40 2500	020.0107.000	40	29.50	1277	50.27	2855	112.4	50	0.6	2.8
BRT-V 80 1500	020.0108.000	80	59.00	949	37.36	1865	73.42	40	0.65	2.9
BRT-V 80 2000	020.0109.000	80	59.00	1119	40.05	2357	92.79	40	0.65	3.0
BRT-V 80 2500	020.0110.000	80	59.00	1289	50.75	2867	112.87	40	0.7	3.0
BRT-V 150 1500	020.0111.000	150	110.63	960	37.5	1957.5	77.07	30	0.9	3.1
BRT-V 150 2000	020.0112.000	150	110.63	1129	44.45	2357	92.79	30	1.0	3.3
BRT-V 150 2500	020.0113.000	150	110.63	1294	50.94	2862	112.68	30	1.2	3.5
BRT-V 220 1500	020.0114.000	220	162.26	960	37.5	1957.5	77.07	20	1.0	3.4
BRT-V 220 2000	020.0115.000	220	162.26	1129	44.45	2357	92.79	20	1.2	3.6
BRT-V 220 2500	020.0116.000	220	162.26	1294	50.94	2867	112.87	20	1.4	3.8

Proper order configuration

BRT-V arm with balancer kit and base clamp



BRT-P2 Torque Arms

(Max torque 15 - 220 Nm)

Use

- Torque reaction is perpendicular to arm axis
- Tool positioning detection on X-Y axis

Included

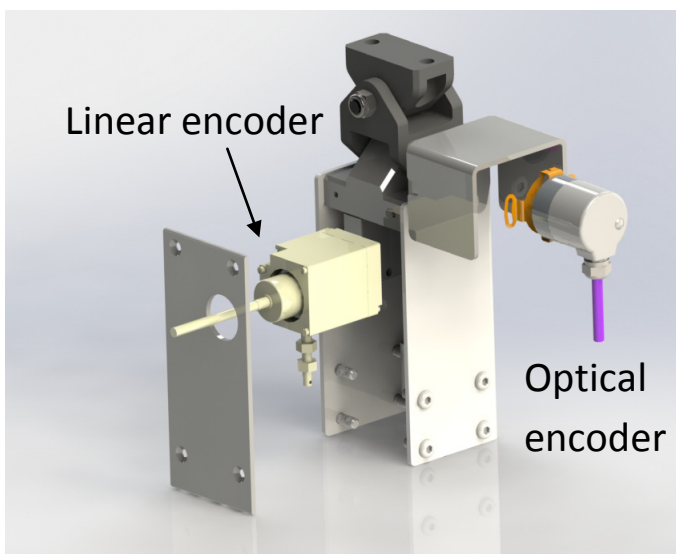
Torque arm
2 incremental encoders

Not included

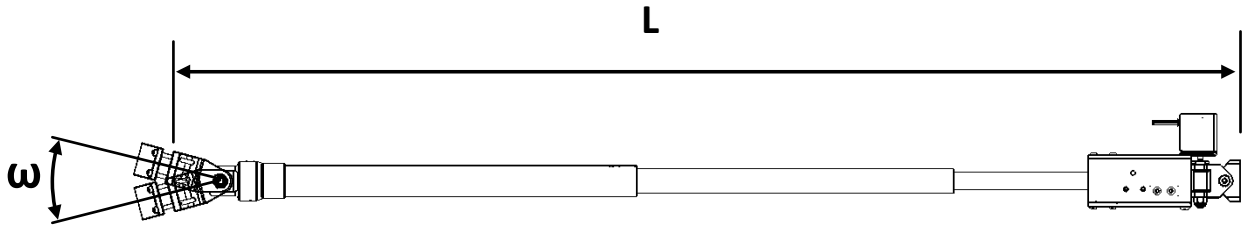
Posix device (Pag. 68)
Tool holder (Pag. 18-23)
Balancer (Pag. 25)
Accessories (Pag. 27)

Strengths

- Designed for BNP Posix positioning system
- Ensure the correct tightening sequence



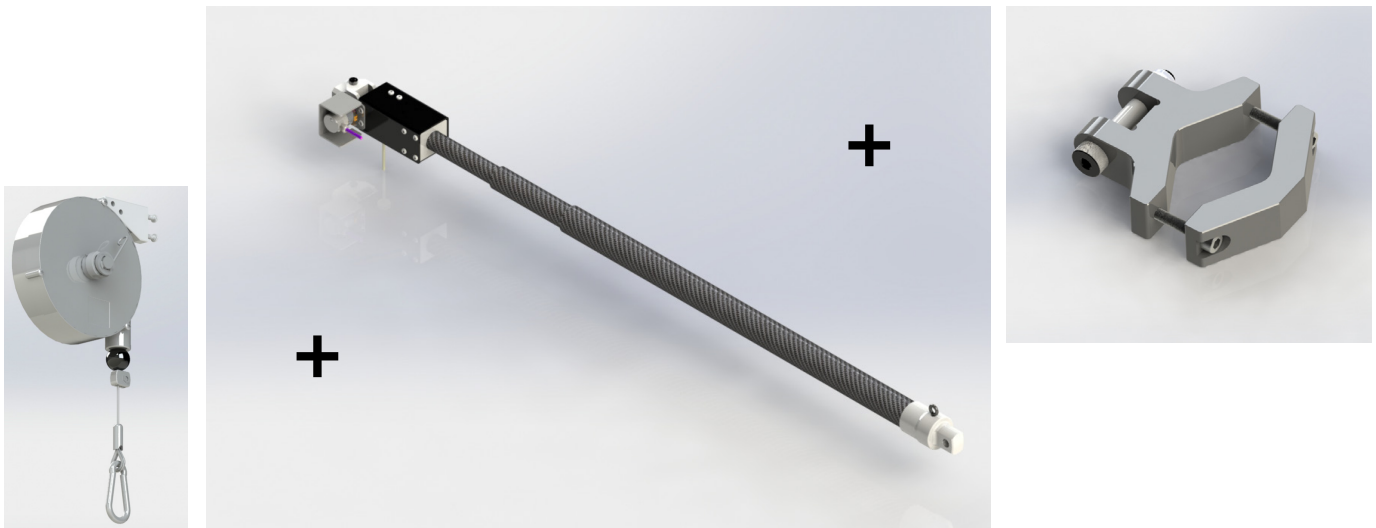
Model Range



Model	Part number	Max torque		min L		max L		ω	Weight to balance	Weight
		(Nm)	(f.lb)	(mm)	(in)	(mm)	(in)			
BRT-P2 15 1000	020.0301.000	15	11.06	647	25.47	1227	48.32	60	0.25	2.6
BRT-P2 15 1500	020.0302.000	15	11.06	803	31.61	1713	67.44	60	0.3	2.7
BRT-P2 15 2000	020.0303.000	15	11.06	977	38.48	2227	87.7	60	0.35	2.8
BRT-P2 40 1000	020.0304.000	40	29.50	647	25.47	1227	48.32	50	0.3	2.8
BRT-P2 40 1500	020.0305.000	40	29.50	803	31.61	1713	67.44	50	0.35	2.9
BRT-P2 40 2000	020.0306.000	40	29.50	977	38.48	2227	87.7	50	0.4	3.0
BRT-P2 40 2500	020.0307.000	40	29.50	1157	45.57	2737	107.75	50	0.45	3.2
BRT-P2 80 1500	020.0308.000	80	59.00	830	32.66	1757	69.17	40	0.5	3.0
BRT-P2 80 2000	020.0309.000	80	59.00	1000	39.3	2249	88.54	40	0.6	3.1
BRT-P2 80 2500	020.0310.000	80	59.00	1169	46.02	2760	108.66	40	0.75	3.2
BRT-P2 150 1500	020.0311.000	150	110.63	839	33.03	1749	68.86	30	1.0	3.5
BRT-P2 150 2000	020.0312.000	150	110.63	1009	39.72	2087	82.16	30	1.2	3.7
BRT-P2 150 2500	020.0313.000	150	110.63	1174	46.22	2419	95.23	30	1.45	3.85
BRT-P2 220 1500	020.0314.000	220	162.26	839	33.03	1749	68.86	20	1.1	3.6
BRT-P2 220 2000	020.0315.000	220	162.26	1009	39.72	2259	88.94	20	1.25	3.75
BRT-P2 220 2500	020.0316.000	220	162.26	1174	46.22	2760	108.66	20	1.5	4.1

Proper order configuration

BRT-P2 arm with balancer kit and base clamp



BRT-P3 Torque Arms

(Max torque 15 - 220 Nm)

Use

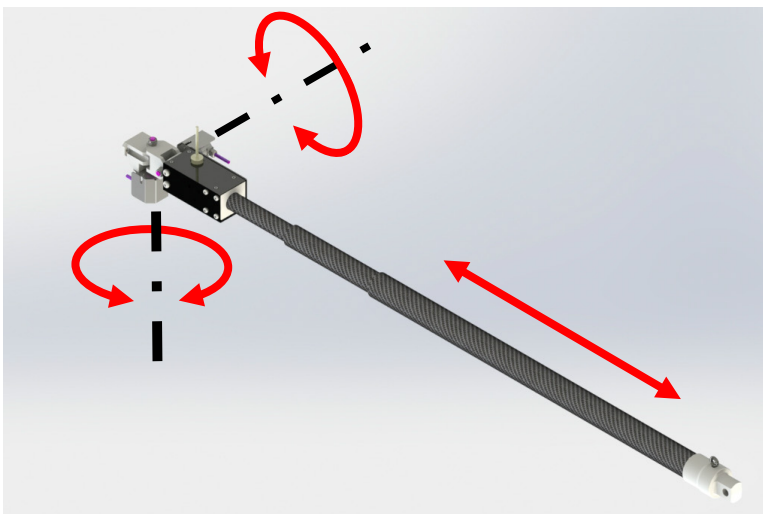
- The same of BRT-P2 arm, but with encoder in addition.
- Positioning detection of tool on X-Y-Z axis

Included

Torque arm
3 incremental encoders

Strengths

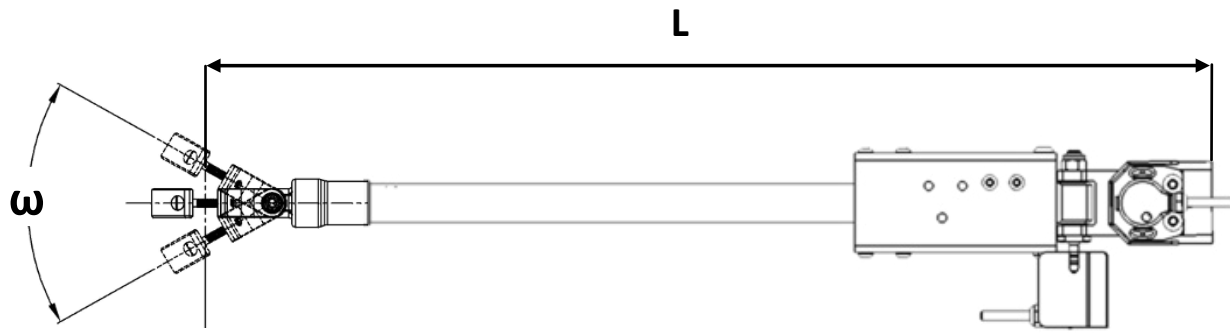
- Designed for BNP Posix device
- Ensures the correct tightening sequence
- Detects the tool position also when assembly components are not in a fix position, for example when there isn't a fixing clamp.



Not included

Posix device (Pag. 68)
Tool holder (Pag. 18-23)
Balancer (Pag. 25)
Accessories (Pag. 27)

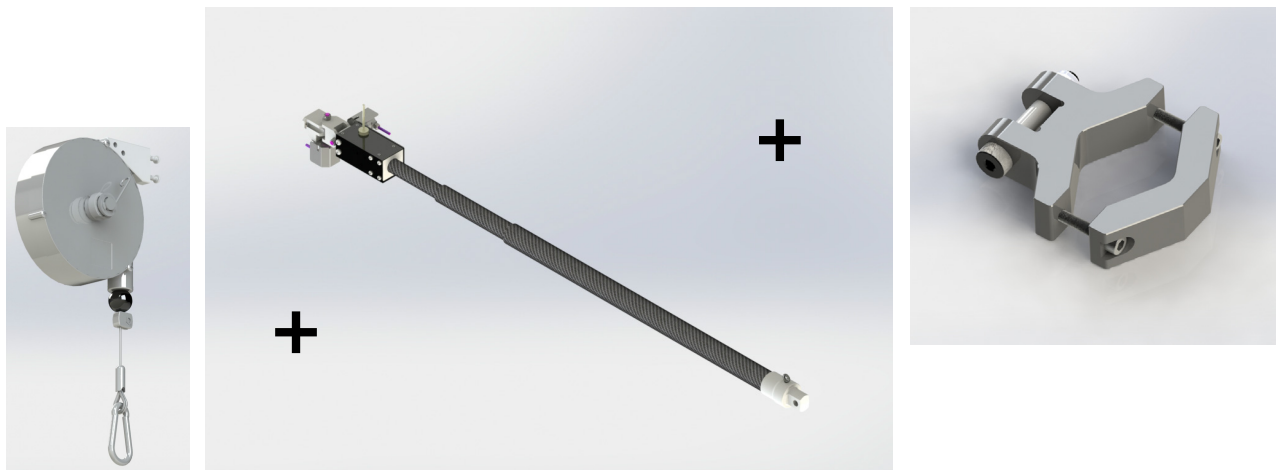
Model Range



Model	Part number	Max torque		min L		max L		ω	Weight to balance	Weight
		(Nm)	(f.lb)	(mm)	(in)	(mm)	(in)			
BRT-P3 15 1000	020.0401.000	15	11.06	647	25.47	1227	48.32	60	0.25	3.0
BRT-P3 15 1500	020.0402.000	15	11.06	803	31.61	1713	67.44	60	0.3	3.1
BRT-P3 15 2000	020.0403.000	15	11.06	977	38.48	2227	87.7	60	0.35	3.2
BRT-P3 40 1000	020.0404.000	40	29.50	647	25.47	1227	48.32	50	0.3	3.2
BRT-P3 40 1500	020.0405.000	40	29.50	803	31.61	1713	67.44	50	0.35	3.3
BRT-P3 40 2000	020.0406.000	40	29.50	977	38.48	2227	87.7	50	0.4	3.4
BRT-P3 40 2500	020.0407.000	40	29.50	1157	45.57	2737	107.75	50	0.45	3.6
BRT-P3 80 1500	020.0408.000	80	59.00	830	32.66	1757	69.17	40	0.5	3.4
BRT-P3 80 2000	020.0409.000	80	59.00	1000	39.3	2249	88.54	40	0.6	3.5
BRT-P3 80 2500	020.0410.000	80	59.00	1169	46.02	2760	108.66	40	0.75	3.6
BRT-P3 150 1500	020.0411.000	150	110.63	839	33.03	1749	68.86	30	1.0	3.9
BRT-P3 150 2000	020.0412.000	150	110.63	1009	39.72	2087	82.16	30	1.2	4.1
BRT-P3 150 2500	020.0413.000	150	110.63	1174	46.22	2419	95.23	30	1.45	4.2
BRT-P3 220 1500	020.0414.000	220	162.26	839	33.03	1749	68.86	20	1.25	4.2
BRT-P3 220 2000	020.0415.000	220	162.26	1009	39.72	2259	88.94	20	1.5	4.3
BRT-P3 220 2500	020.0416.000	220	162.26	1174	46.22	2760	108.66	20	1.7	4.5

Proper order configuration

BRT-P3 arm with balancer kit and base clamp



Tool Holders

THB Series

Use

Universal tool clamping

Included

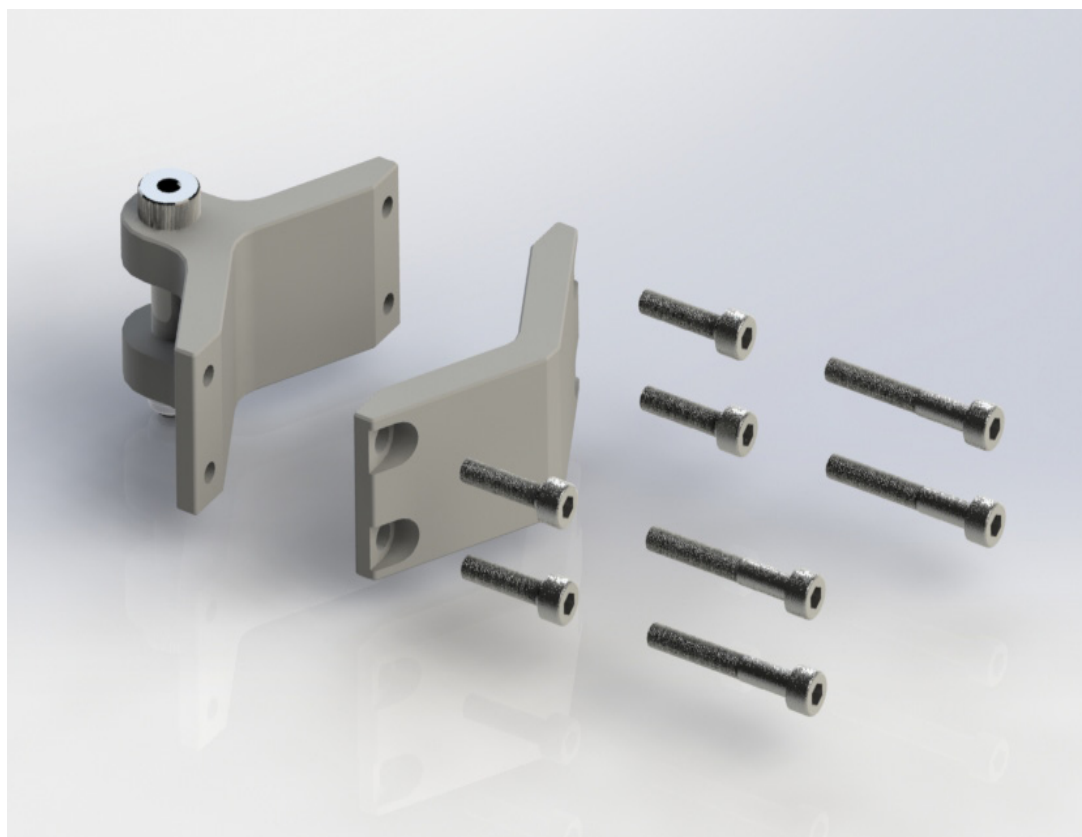
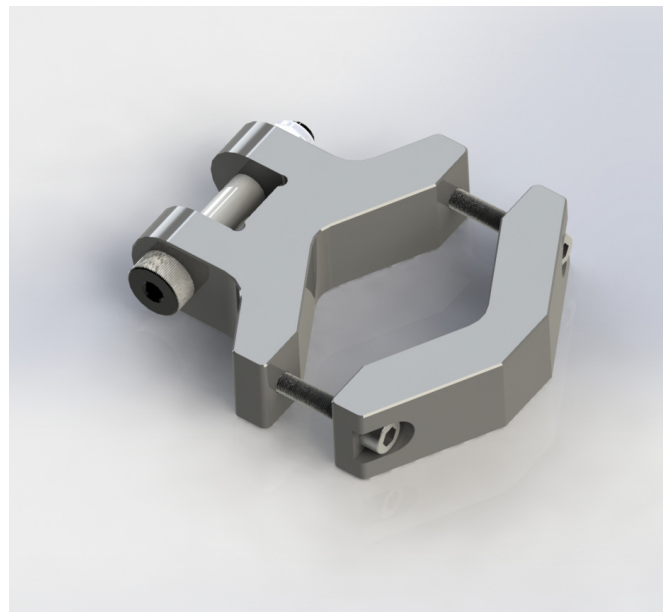
Tool holder with screws

Not included

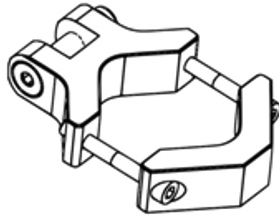
Torque arm

Strengths

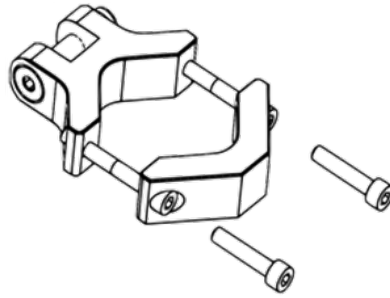
- Designed for BRT/ BRT-V/ BRT-P2/ BRT-P3
- Secure tool fixing



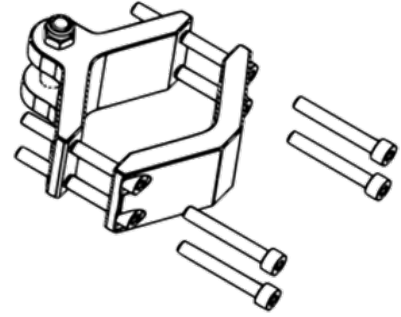
Model Range



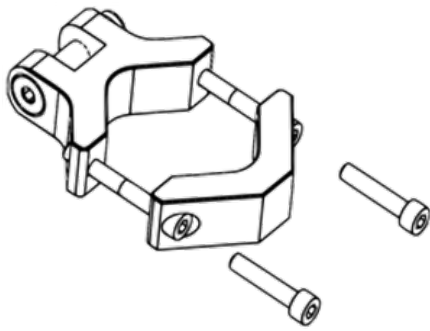
①



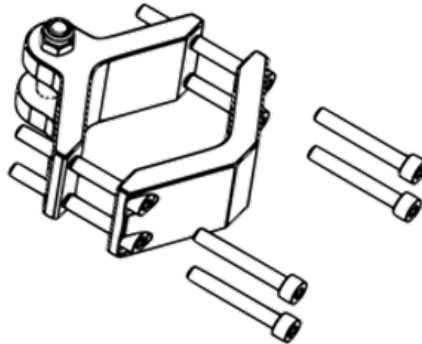
②



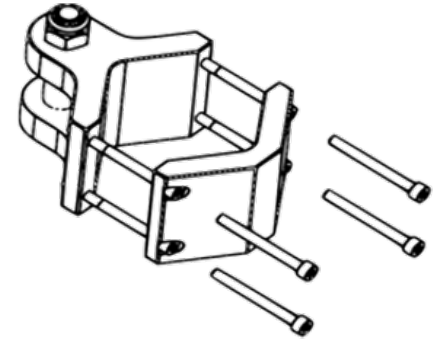
③



④



⑤



⑥

Ref.	Part number	Description	Tool grip (mm)		Weight (Kg)	Application
			Ømin	Ømax		
1	-	Base tool holder	26,5	44	0.20	BRT 10 (*)
2	070.0001.000	Base tool holder 2 screws	27	45	0.20	BRT/BRT-V/BRT-P 15
3	070.0002.000	Base tool holder 4 screws	27	45	0.35	BRT/BRT-V/BRT-P 15
4	070.0009.000	Base tool holder 2 screws	30	60	0.30	BRT/BRT-V/BRT-P 40-80
5	070.0015.000	Base tool holder 4 screws	30	60	0.45	BRT/BRT-V/BRT-P 40-80
6	070.0003.000	Base tool holder	40	70	0.70	BRT/BRT-V/BRT-P 150-220

(*)Included into BRT10 arm as standard

Tool Holders

THBI Series

Use

Universal tool clamping with multiple position

Included

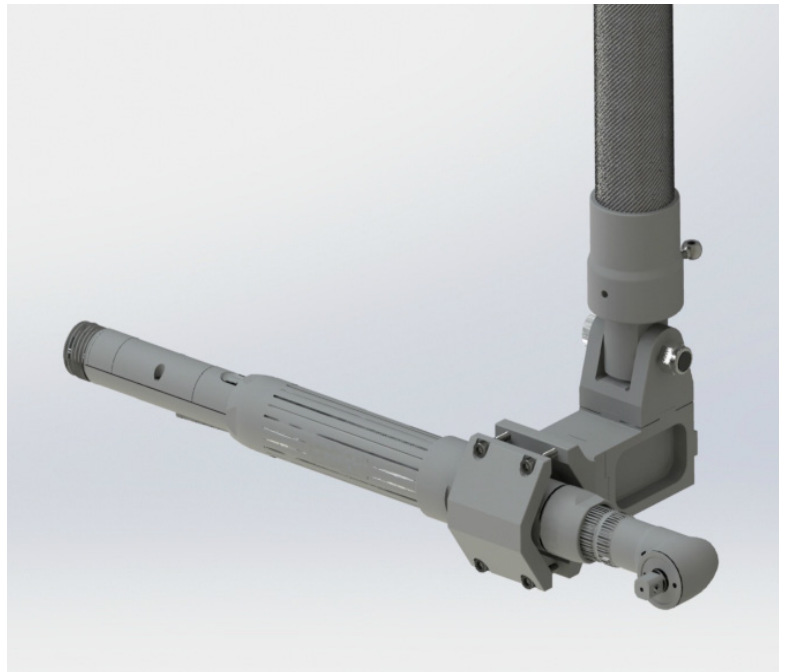
Components: interface, extension, clamp

Not included

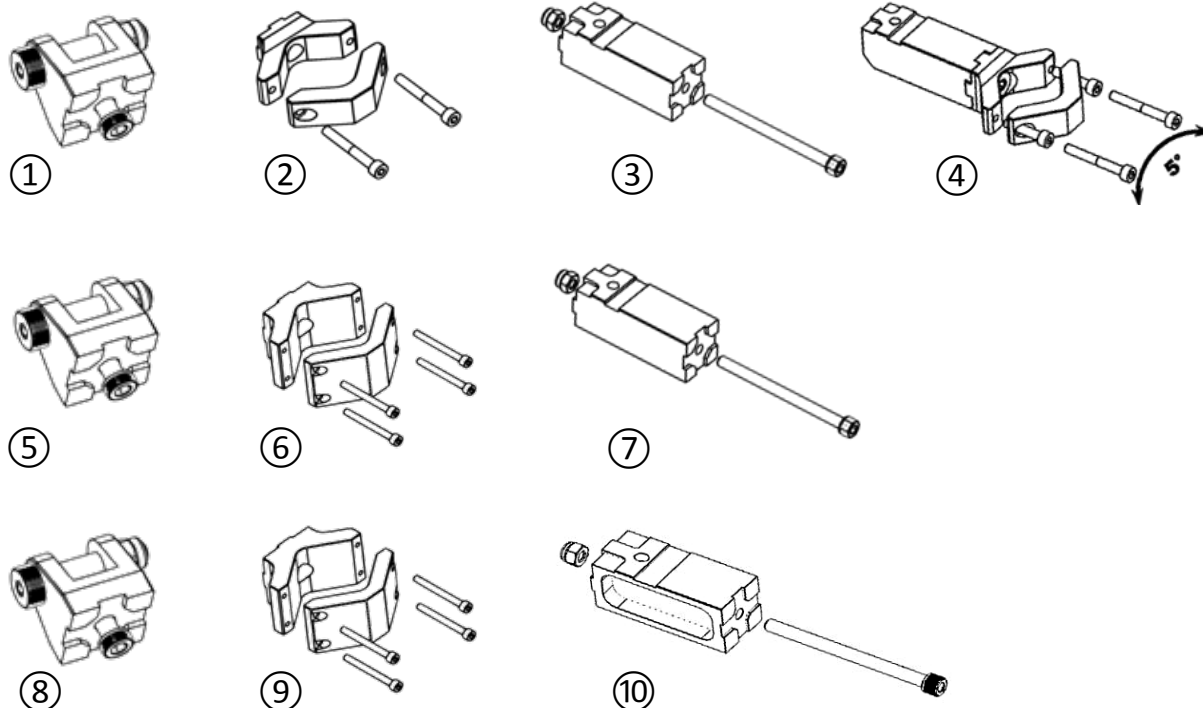
Torque arm

Strengths

- Designed for BRT/ BRT-V/ BRT-P/ BRT-P2/ BRT-P3 arms
- Multiple configuration of tool holder



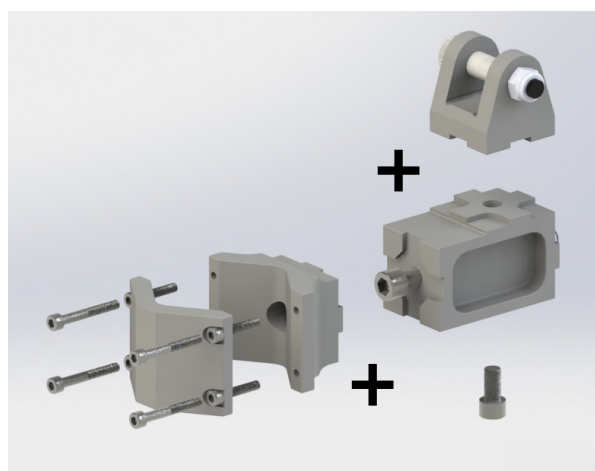
Model Range



Ref.	Part number	Description	Tool grip (mm)		Weight (Kg)	Application
			Ømin	Ømax		
1	070.0006.000	Interface	n/a	n/a	0.1	BRT/BRT-V/BRT-P 15
2	070.0007.000	Multi-position tool holder	27	45	0.1	BRT/BRT-V/BRT-P 15
3	070.0008.000	Extension L=90mm	n/a	n/a	0.2	BRT/BRT-V/BRT-P 15
4	070.0013.000	Tool holder with 5-degrees-freedom-X-axis	27	45	0.25	BRT/BRT-V/BRT-P 15
5	070.0014.000	Interface	n/a	n/a	0.2	BRT/BRT-V/BRT-P 40-80
6	070.0016.000	Multi-position tool holder	27	45	0.5	BRT/BRT-V/BRT-P 40-80
7	070.0017.000	Extension L=120 mm	n/a	n/a	0.4	BRT/BRT-V/BRT-P 40-80
8	070.0010.000	Interface	n/a	n/a	0.3	BRT/BRT-V/BRT-P 150-220
9	070.0011.000	Multi-position tool holder	40	70	0.5	BRT/BRT-V/BRT-P 150-220
10	070.0012.000	Extension L=120mm	n/a	n/a	0.45	BRT/BRT-V/BRT-P 150-220

Proper order configuration

Multi-position tool holder with interface and extension



Tool Holders

THR Series

Use

Tool clamping with rotation on tool axis

Included

- Tool holder with fixing screws
- Tool adaptor (to be ordered by size)

Not included

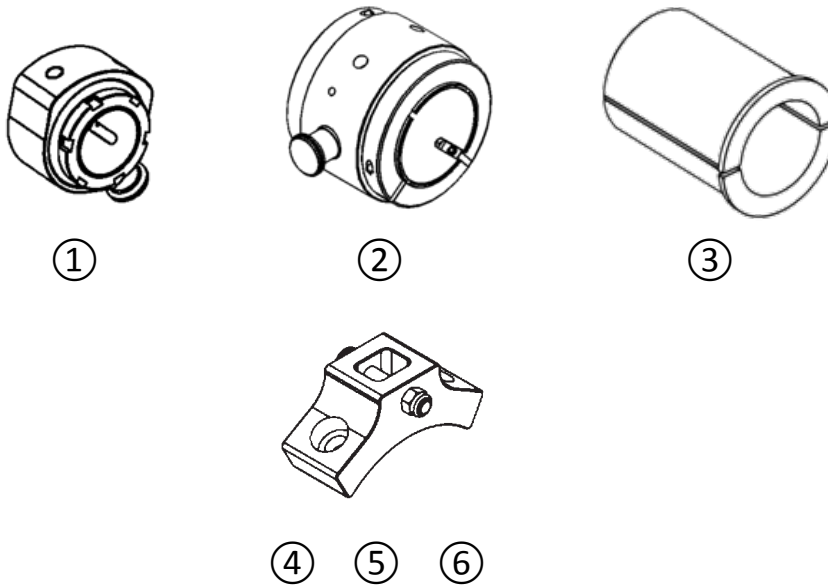
- Interface (see table pag 23)
- Torque arm

Strengths

- Designed for all BNP torque arms
- Allows multiple position tightening



Model Range



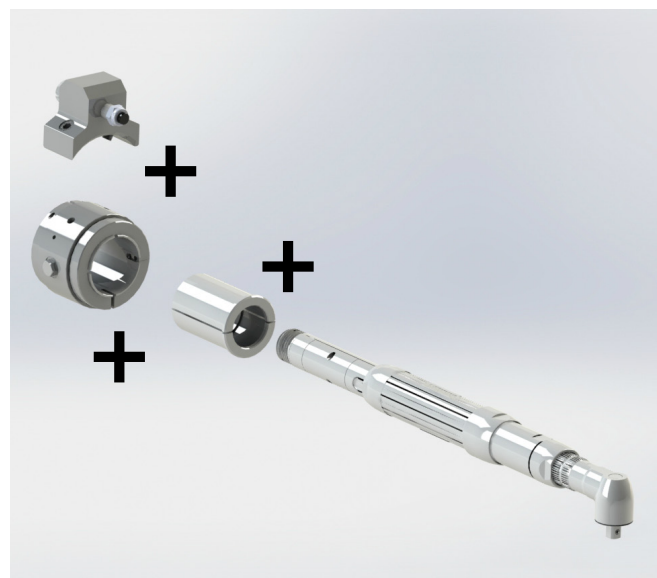
Ref.	Part number	Description	Tool grip (mm)		Weight (Kg)	Application
			Ømin	Ømax		
1	070.0004.000	Swivel tool holder	20	35	0.45	All arms 15÷80 Nm
2	070.0005.000	Swivel tool holder	40	55	0.10	BRT (all) 15÷150, BRV 15÷80
3	(*)	Adaptor	30 (*)	57 (*)	0.37	All arms
4	070.0018.000	Interface	n/a	n/a	0.20	BRT /BRT-V/ BRT-P 15
5	070.0019.000	Interface	n/a	n/a	0.30	BRTV 40-80
6	070.0020.000	Interface	n/a	n/a	0.55	BRTV 150

(*) provided to measure, within diameter limits indicated for each model of tool holder

IMPORTANT: Customer must provide the tool grip diameter when places the order.
The tool adaptor will be supplied according to above dimension.

Proper order configuration

Tool holder with interface and extension.



Balancer

Balancer kit for BRT-V arms

Use

Adaptation of balancer for BRT-V

Included

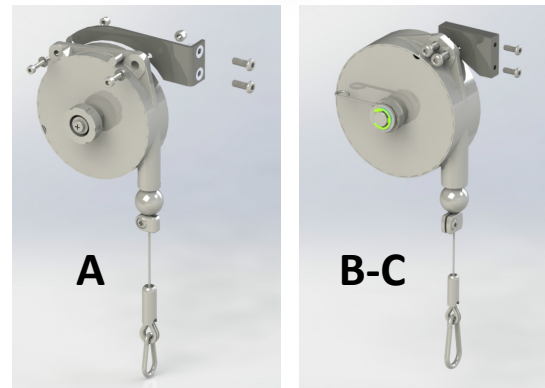
Bracket and balancer

Not included

Torque arm

Strengths

Balancer cable in protected position



Model Range

Model	Part number	Bracket type	Wire length	Weight range
			(mm)	(kg)
Balancer kit 9311	070.0168.000	A	1600	0.4-1
Balancer kit 9312	070.0169.000	A	1600	1-2
Balancer kit 9313	070.0170.000	A	1600	2-3
Balancer kit 9320	070.0171.000	B	2000	1-2
Balancer kit 9321	070.0172.000	B	2000	2-4
Balancer kit 9322	070.0173.000	B	2000	4-6
Balancer kit 9323	070.0174.000	B	2000	6-8
Balancer kit 9336	070.0175.000	C	2500	2-4
Balancer kit 9337	070.0176.000	C	2500	4-6
Balancer kit 9338	070.0177.000	C	2500	6-8
Balancer kit 9339	070.0178.000	C	2500	8-10
Balancer kit 9340	070.0179.000	C	2500	10-14
Balancer kit 9346	070.0180.000	C	2500	2-4
Balancer kit 9347	070.0181.000	C	2500	4-6
Balancer kit 9348	070.0182.000	C	2500	6-8
Balancer kit 9349	070.0183.000	C	2500	8-10
Balancer kit 9350	070.0184.000	C	2500	10-14

Balancer

Balancer kit for BRT-P arms

Use

Adaptation of balancer for BRT-P

Included

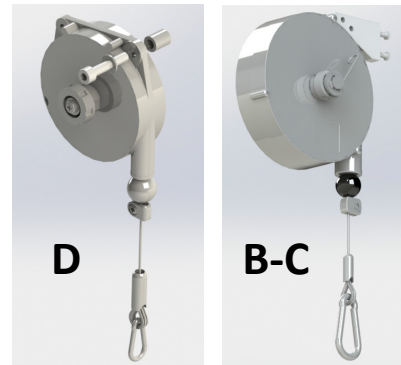
Bracket and balancer

Not included

Torque arm

Strengths

Easy installation and replacement



Model Range

Model	Part number	Bracket type	Wire length	Weight range
			(mm)	(kg)
Balancer kit 9311	070.0185.000	D	1600	0.4-1
Balancer kit 9312	070.0186.000	D	1600	1-2
Balancer kit 9313	070.0187.000	D	1600	2-3
Balancer kit 9320	070.0188.000	B	2000	1-2
Balancer kit 9321	070.0189.000	B	2000	2-4
Balancer kit 9322	070.0190.000	B	2000	4-6
Balancer kit 9323	070.0191.000	B	2000	6-8
Balancer kit 9336	070.0192.000	C	2500	2-4
Balancer kit 9337	070.0193.000	C	2500	4-6
Balancer kit 9338	070.0194.000	C	2500	6-8
Balancer kit 9339	070.0195.000	C	2500	8-10
Balancer kit 9340	070.0196.000	C	2500	10-14
Balancer kit 9346	070.0197.000	C	2500	2-4
Balancer kit 9347	070.0198.000	C	2500	4-6
Balancer kit 9348	070.0199.000	C	2500	6-8
Balancer kit 9349	070.0200.000	C	2500	8-10
Balancer kit 9350	070.0201.000	C	2500	10-14

Accessories

Balancer bracket kit for BRT

Use

Adaptation of balancer for BRT

Included

Bracket

Not included

Balancer

Torque arm

Strengths

- Easy installation
- Balancer cable in protected position



1



2



Model Range

Model	Part number	Balancer adaptability
Bracket Kit 1	0080.00.00.01	9311-9312
Bracket Kit 2	0080.00.00.02	9336

Accessories

Balancer bracket kit for BRT-V and BRT-P

Use

Allow installation on BRT-V and BRT-P arms

Included

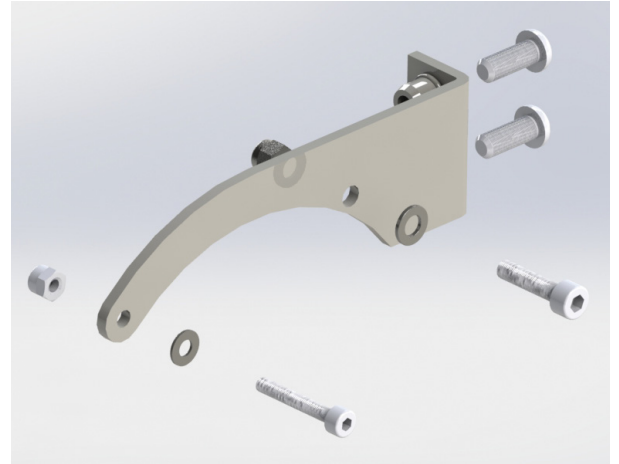
Bracket and small components

Not included

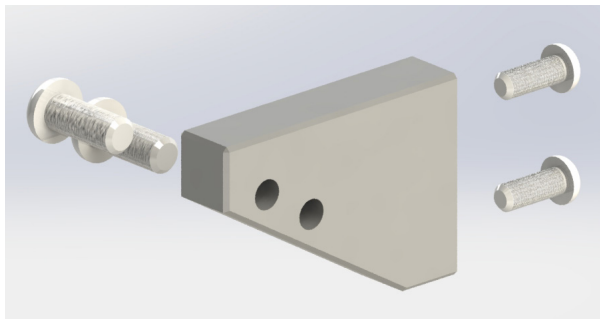
Balancer

Strengths

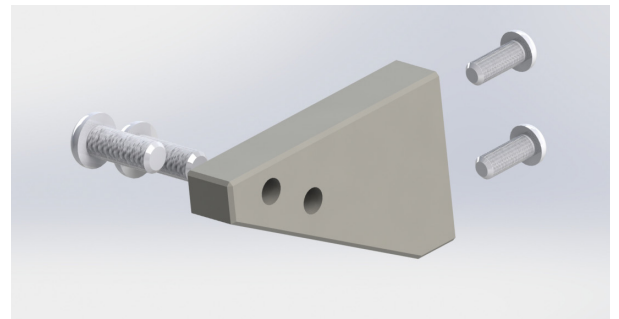
- Easy installation
- Allow customer to use own balancers(*)



A



B



C

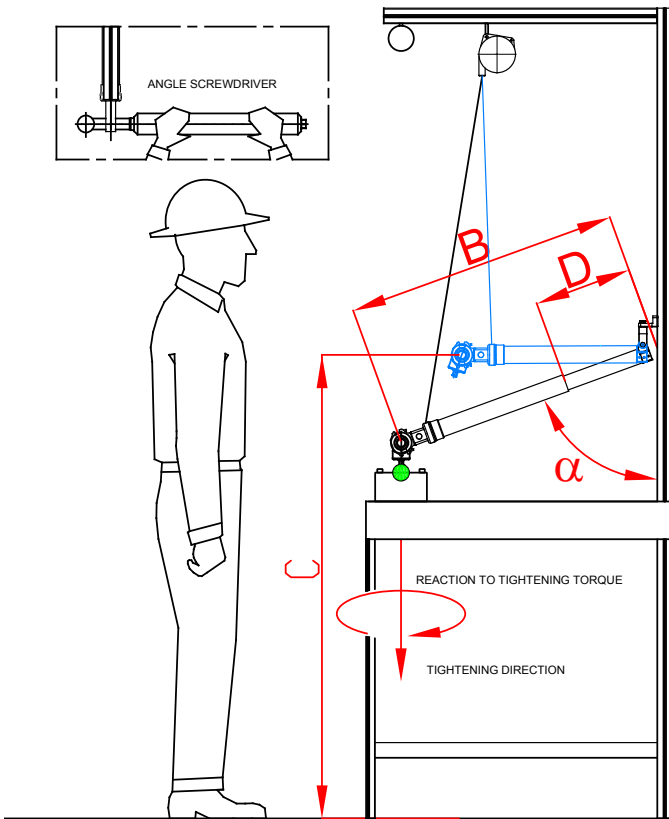
(*)Before ask to BNP about compatible balancer models

Model Range

Model	Part number	Balancer adaptability
Bracket Kit A	070.1000.000	9311-9312-9313
Bracket Kit B	070.1001.000	9320-9321-9322-9323
Bracket Kit C	070.1002.000	9336-9337-9338-9339-9340-9346-9347-9348-9349-9350

Arm application Hints

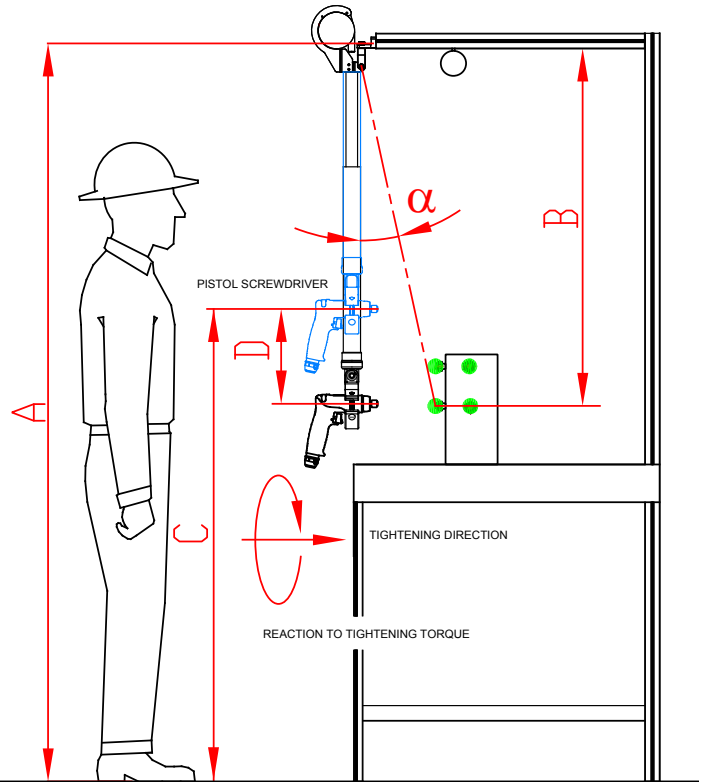
TYPE 1 LAYOUT - WORKSTATION
BRT TORQUE REACTION ARMS



● : TIGHTENING POINT

Arm application Hints

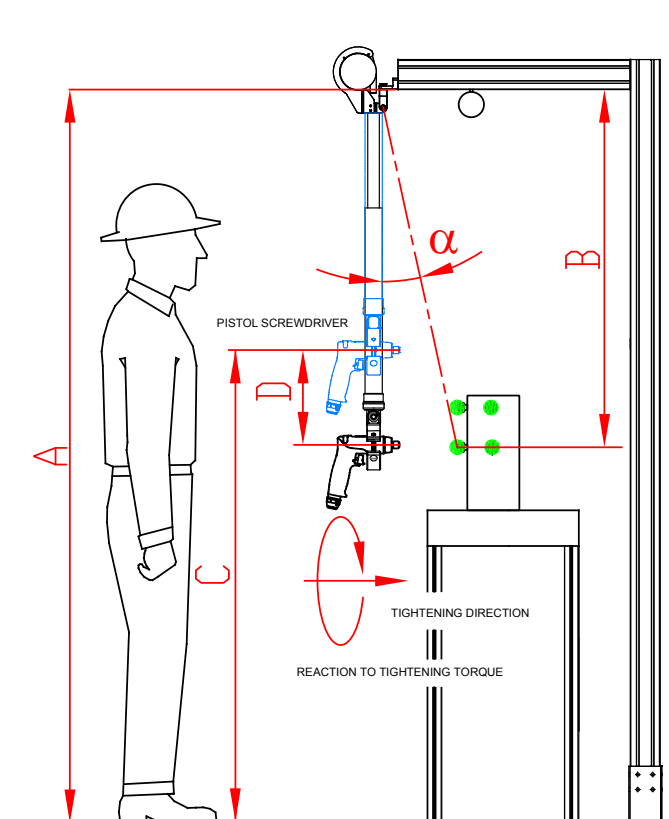
TYPE 2 LAYOUT - WORKSTATION
BRT-V VERTICAL TORQUE REACTION ARMS



● : TIGHTENING POINT

Arm application Hints

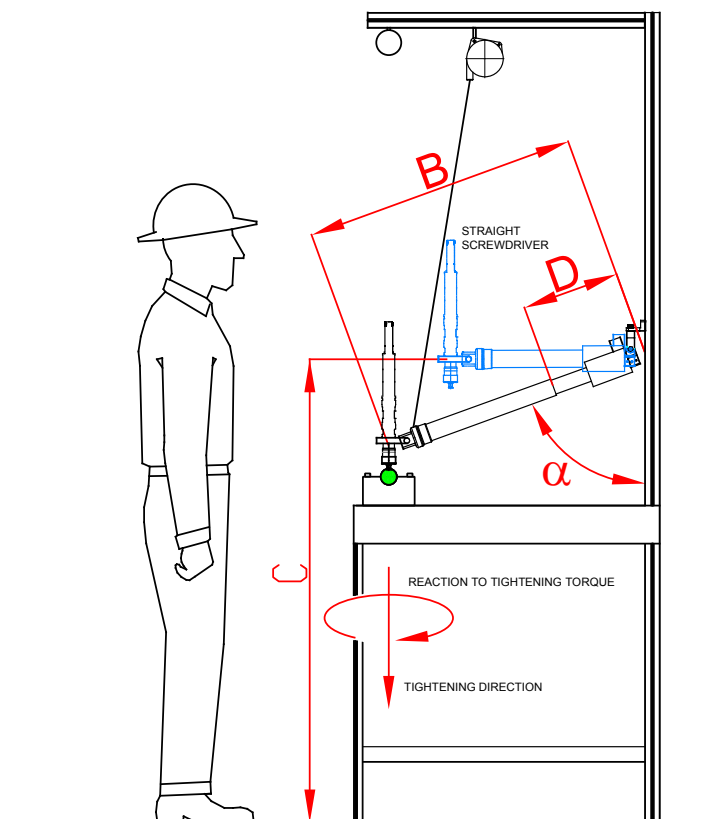
TYPE 2 LAYOUT - FLOOR MOUNT
BRT-V VERTICAL TORQUE REACTION ARMS



● : TIGHTENING POINT

Arm application Hints

TYPE 3 LAYOUT - WORKSTATION
BRT P2-P3 TORQUE REACTION ARMS



● : TIGHTENING POINT

Anti-rotation torque reaction arms

BRV Torque arms

(Max torque 15 - 80 Nm)

Use

Torque reaction is parallel to arm axis.
Anti-rotation system.

Included

Torque arm

Not included

Tool holder (Pag. 32-35)

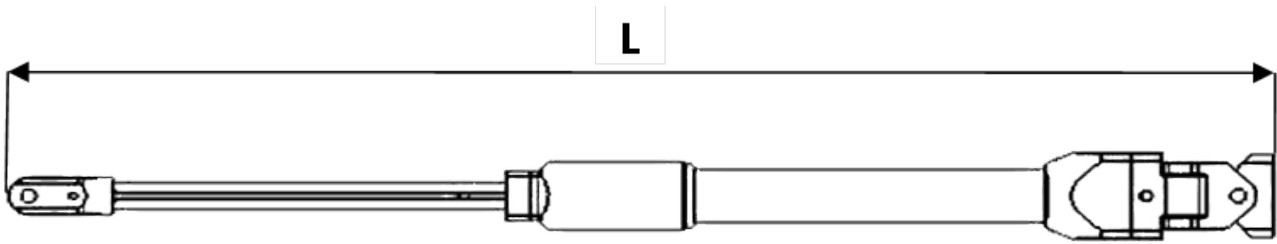
Accessories (Pag. 36)

Strengths

- Special "torsion" carbon fiber design
- Smooth sliding with ball splined shaft



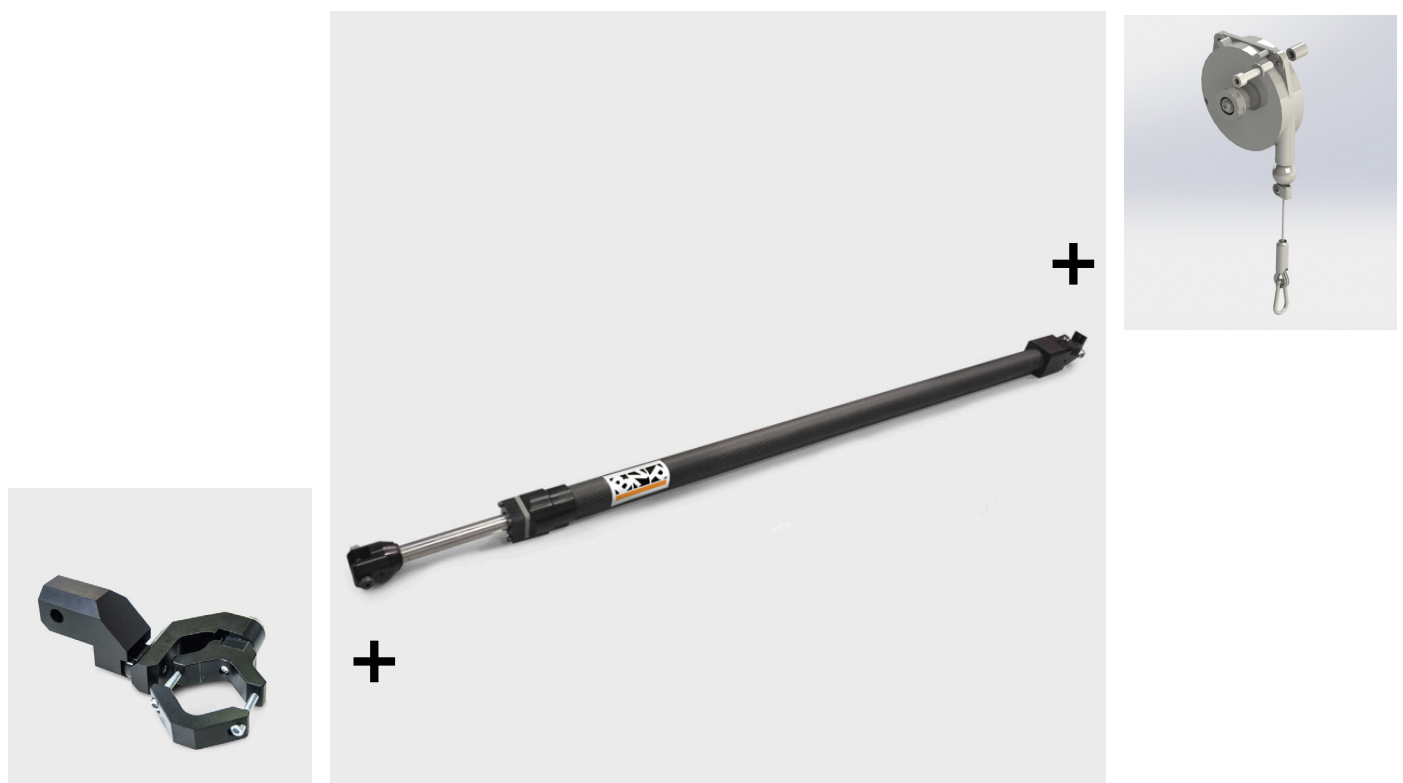
Model Range



Model	Part number	Max torque		Max L		Stroke		Weight (Kg)	Weight to balance (Kg)
		(Nm)	(f.lb)	(mm)	(in)	(mm)	(in)		
BRV15-600/150	030.0001.000	15	11.06	600	23.62	150	5.90	1	0.35
BRV15-800/300	030.0002.000	15	11.06	800	31.49	300	11.81	1.2	0.5
BRV40-600/150	030.0003.000	40	29.50	600	23.62	150	5.90	1.9	0.7
BRV40-850/300	030.0004.000	40	29.50	850	33.46	300	11.81	2.25	1
BRV40-1500/600	030.0005.000	40	29.50	1500	59.05	600	23.62	3	1.6
BRV80-900/300	030.0006.000	80	59.00	900	35.43	300	11.81	3.3	1.5
BRV80-1500/600	030.0007.000	80	59.00	1500	59.05	600	23.62	4.35	2.5
BRV80-2100/900	030.0008.000	80	59.00	2100	82.67	900	35.43	5.35	3.4

Proper order configuration

BRV arm with balancer kit and straight tool clamp



Tool holder

Swivel THR Series

Use

Tool clamping with rotation on tool axis

Included

- Tool holder body with screws
- Tool adaptor (to be order by size)

Not included

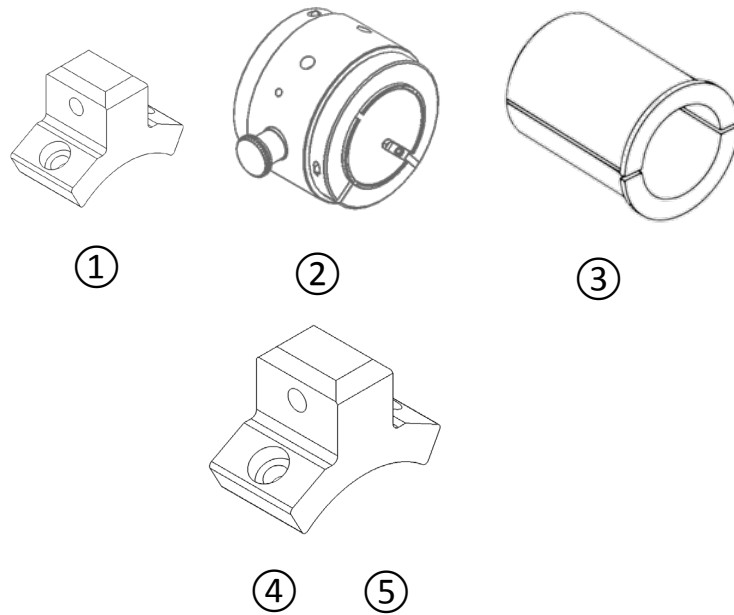
- Interface (see table pag 33)
- Torque arm

Strengths

- Designed for all BNP torque arms
- Allows multiple position tightening



Model Range



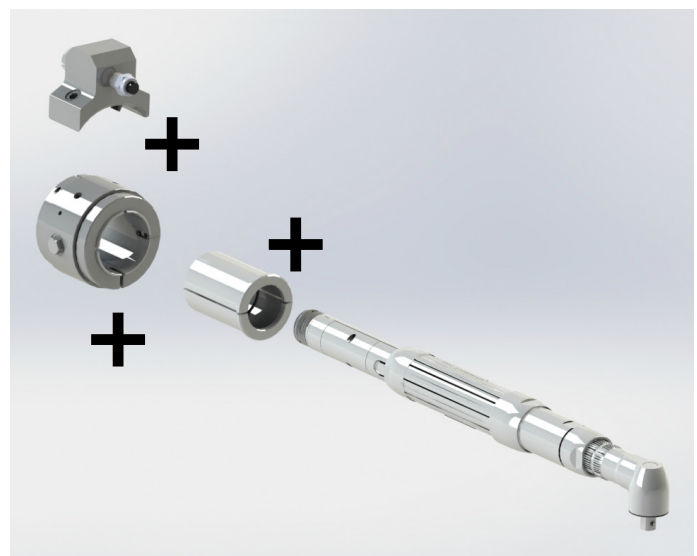
Ref.	Part number	Description	Tool grip(mm)		Weight (Kg)	Application
			Ømin	Ømax		
1	070.0004.000	Swivel tool holder	20	35	0.45	All arms 15÷80 Nm
2	070.0005.000	Swivel tool holder	40	55	0.10	BRT (all) 15÷150, BRV 15÷80
3	(*)	Adaptor	30 (*)	57 (*)	0.37	All arms
4	070.0103.000	Interface	n/a	n/a	0.36	BRV 40-80
5	070.0113.000	Interface	n/a	n/a	0.51	BRTV 40-80

(*) provided to measure, within the diameter indicated for each model of tool-holder

IMPORTANT: The customer must provide tool grip diameter when place the order.
Tool adaptor will be supplied according to above dimension.

Proper order configuration

Tool holder with interface and extension



Tool holder

TH-BRV Series

Use

Universal tool clamping for anti-rotation arms

Included

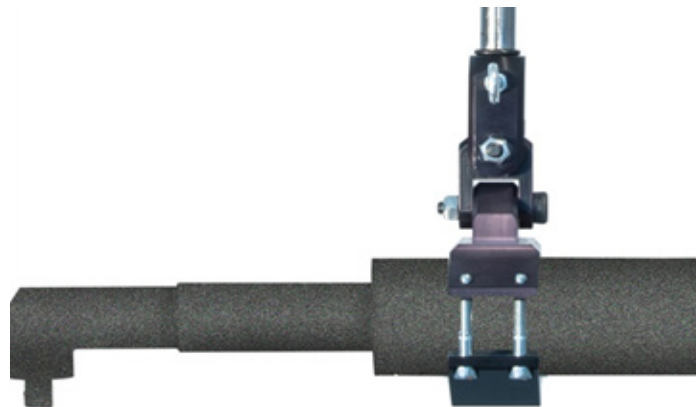
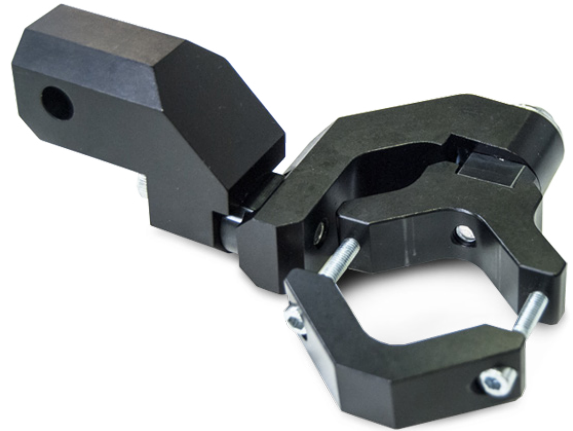
Tool holder with screws

Not included

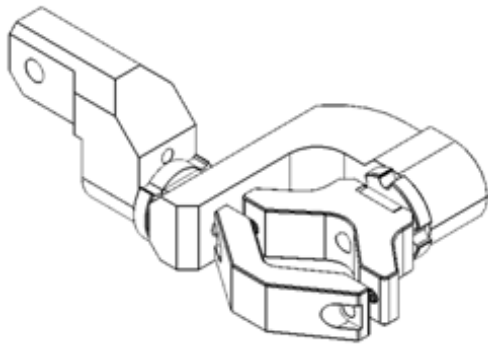
Torque arm

Strengths

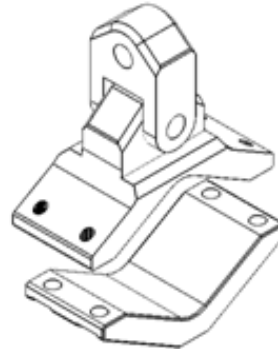
Designed for BRV/BRV-SA arms



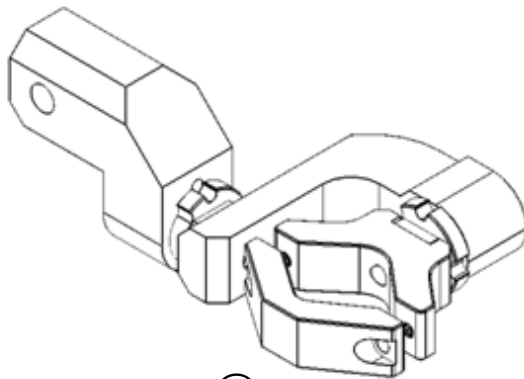
Model Range



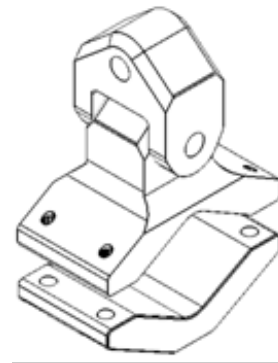
①



②



③



④

Ref.	Part number	Description	Tool grip (mm)		Width grip (mm)	Weight (Kg)	Application
			Ømin	Ømax			
1	070.0101.000	Straight tool holder	27	45	18	0.60	BRV 15
2	070.0102.000	Straight tool holder	30	60	33.5	0.30	BRV 15
3	070.0111.000	Straight tool holder	27	45	18	0.65	BRV 40
4	070.0112.000	Angle tool holder	31	65	47	0.66	BRV 40-80

Accessories

Balancer kit for BRV arms

Use

Adaptation of balancer for BRV

Included

Bracket and balancer

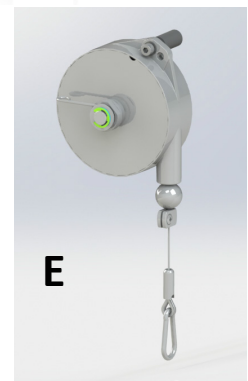
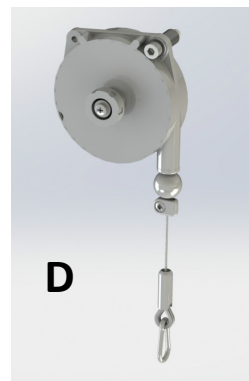
Not included

Torque arm

Strengths

Easy installation and replacement

Easy balancer changing

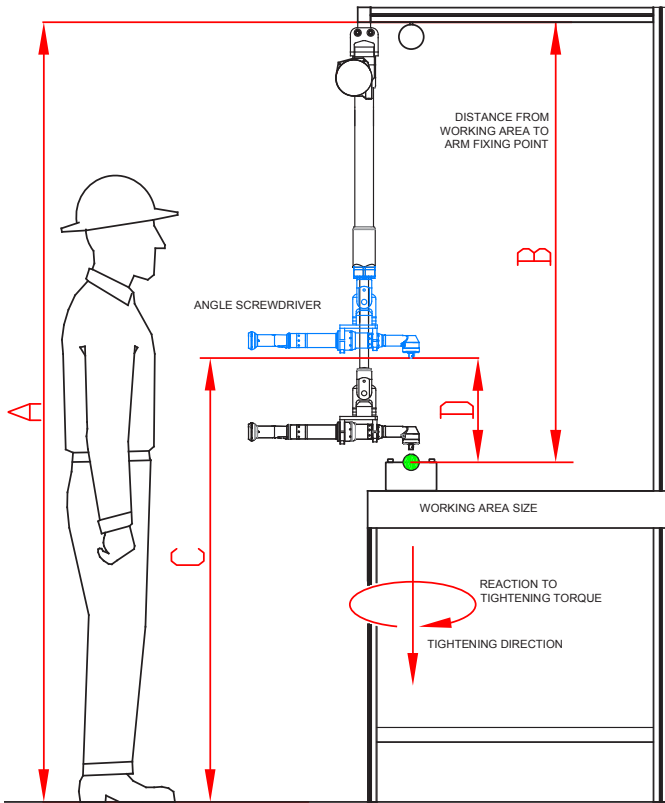


Model Range

Model	Part number	Bracket	Wire length	Weight range
			(mm)	(kg)
Balancer kit 9311	070.0151.000	D	1600	0.4-1
Balancer kit 9312	070.0152.000	D	1600	1-2
Balancer kit 9313	070.0153.000	D	1600	2-3
Balancer kit 9320	070.0154.000	E	2000	1-2
Balancer kit 9321	070.0155.000	E	2000	2-4
Balancer kit 9322	070.0156.000	E	2000	4-6
Balancer kit 9323	070.0157.000	E	2000	6-8
Balancer kit 9336	070.0158.000	E	2500	2-4
Balancer kit 9337	070.0159.000	E	2500	4-6
Balancer kit 9338	070.0160.000	E	2500	6-8
Balancer kit 9339	070.0161.000	E	2500	8-10
Balancer kit 9340	070.0162.000	E	2500	10-14
Balancer kit 9346	070.0163.000	E	2500	2-4
Balancer kit 9347	070.0164.000	E	2500	4-6
Balancer kit 9348	070.0165.000	E	2500	6-8
Balancer kit 9349	070.0166.000	E	2500	8-10
Balancer kit 9350	070.0167.000	E	2500	10-14

Arm application Hints

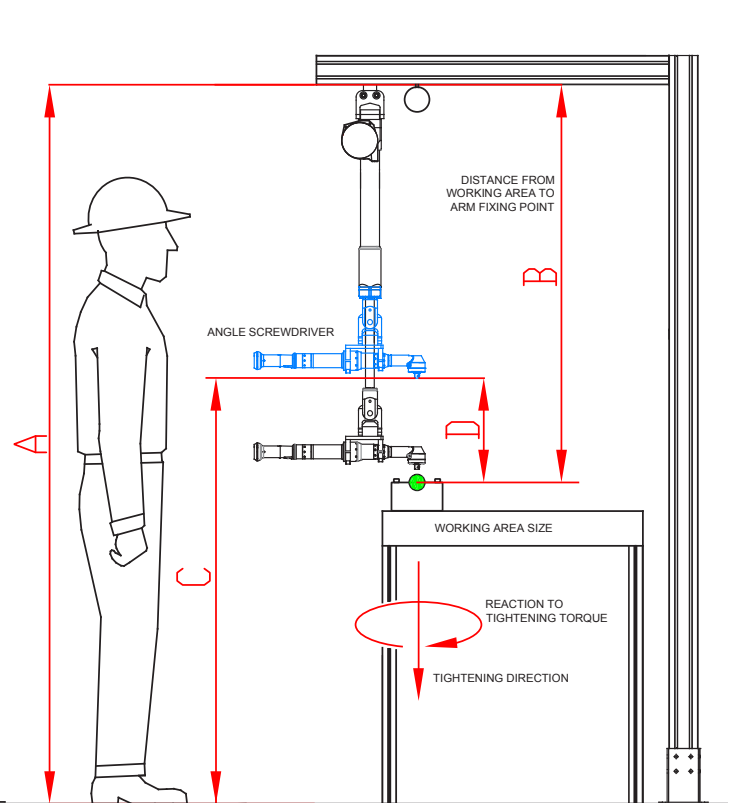
TYPE 4 A LAYOUT - WORKSTATION
BRV ANTI-ROTATION TORQUE ARM



● : TIGHTENING POINT

Arm application Hints

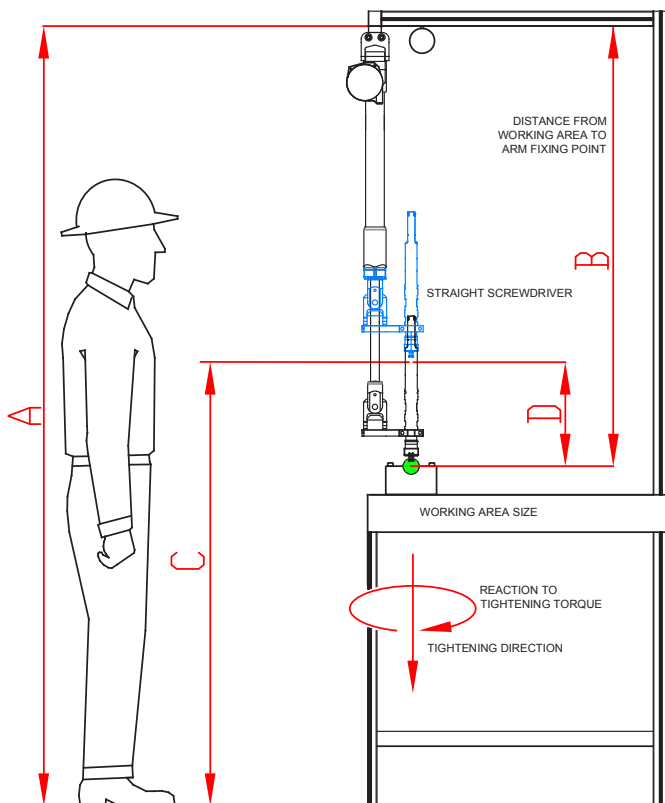
TYPE 4 A LAYOUT - FLOOR MOUNT
BRV ANTI-ROTATION TORQUE ARM



● : TIGHTENING POINT

Arm application Hints

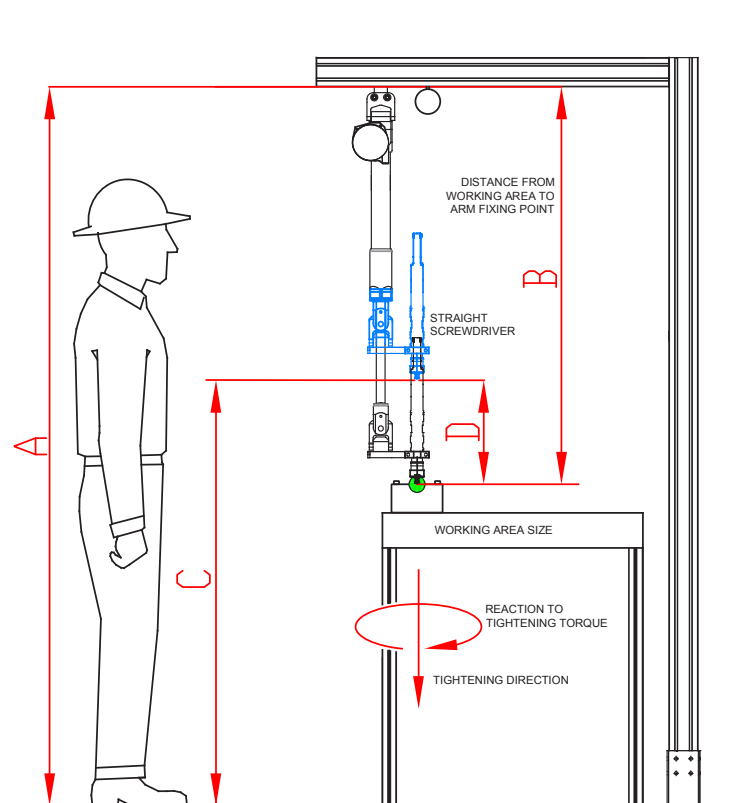
TYPE 4 B LAYOUT - WORKSTATION
BRV ANTI-ROTATION TORQUE ARM



● : TIGHTENING POINT

Arm application Hints

TYPE 4 B LAYOUT - FLOOR MOUNT
BRV ANTI-ROTATION TORQUE ARM



● : TIGHTENING POINT



SA-80 articulated support

SA-80 Articulated support



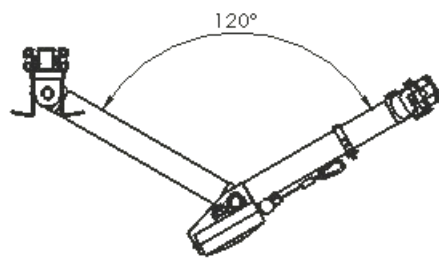
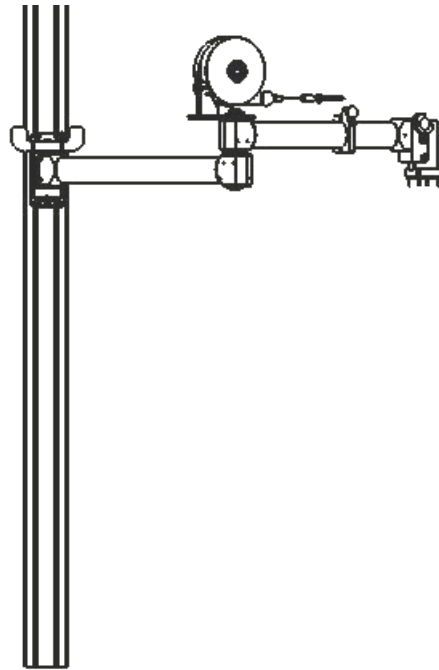
SA-80 carbon fiber articulated support by BNP allows torque reaction arm installation when suspended structures above the workplace are not available. Can be interfaced with BRV-SA anti-rotation torque reaction arms and in addition also with special arms on demand. Besides, the "P" version is equipped on 3 encoders for use with Posix system.



Strengths of carbon fiber SA-80

- Radius: max 1000 mm
- Payload: max 10 kg
- Torque: 80 NM
- "P" version for Posix system

Model Range



Model range for basic version

Model	Part number	Max torque (Nm)	Max R (mm)	Weight range (Kg)	Weight (Kg)
SA80-600	090.0401.000	80	600	10	0.75
SA80-800	090.0402.000	80	800	10	0.78
SA80-1000	090.0403.000	80	1000	10	0.80

Model range for Posix system

Model	Part number	Max torque (Nm)	Max R (mm)	Weight range (Kg)	Weight (Kg)
SA80-P-600	090.0501.000	80	600	10	0.88
SA80-P-800	090.0502.000	80	800	10	0.91
SA80-P-1000	090.0503.000	80	1000	10	0.93

BRV-SA series

(Max torque 15 - 80 Nm)

Use

Torque reaction is parallel to arm axis

Included

Torque arm

Not included

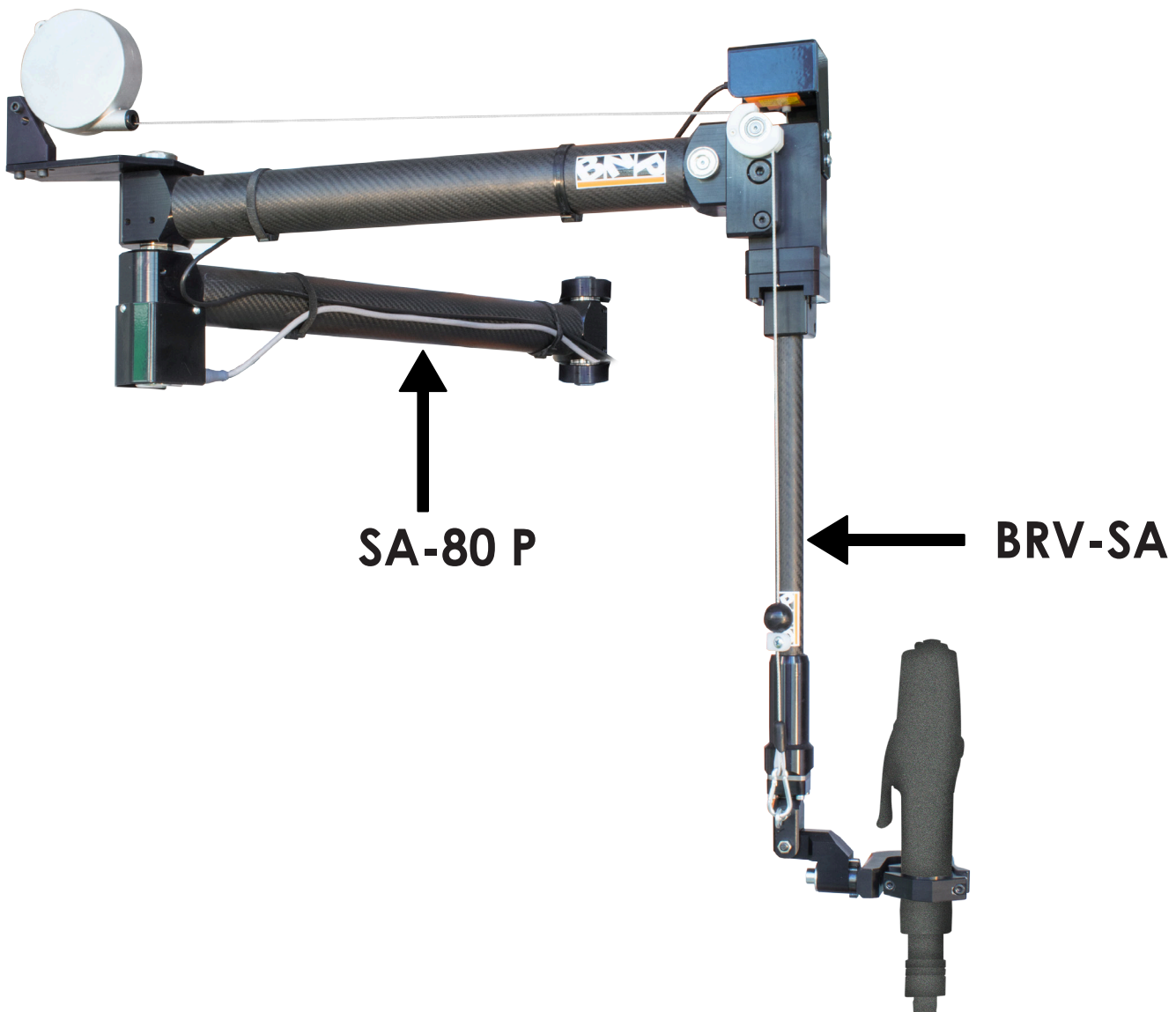
SA articulated support (Pag. 39)

Tool holder (Pag. 34-35)

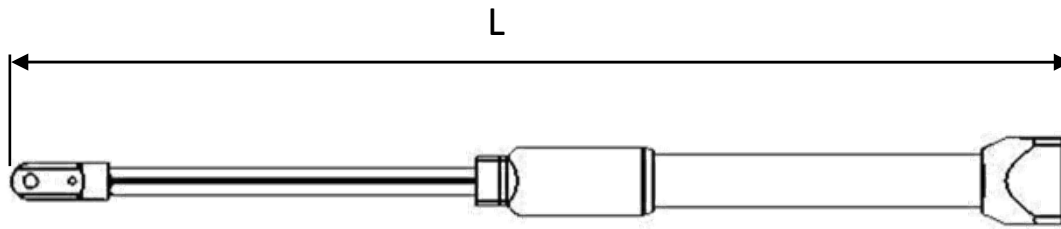
Accessories (Pag. 36)

Strengths

Special "torsion" carbon fiber design



Model range

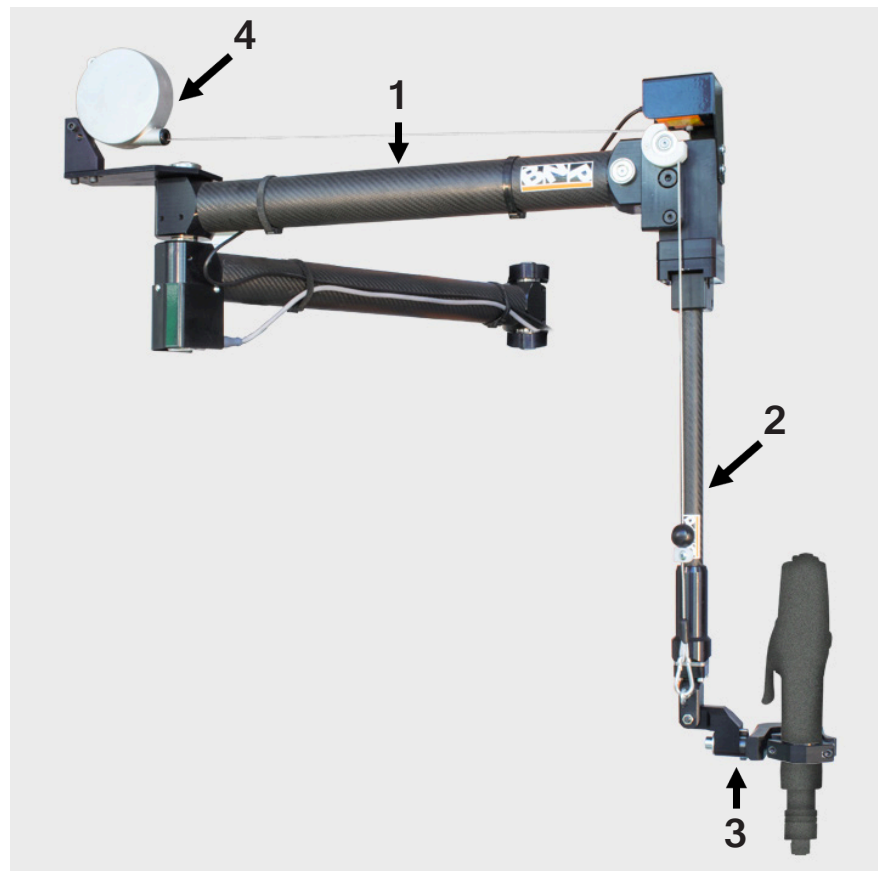


Model	Part number	Max torque		Max L		Stroke		Weight
		(Nm)	(f.lb)	(mm)	(in)	(mm)	(in)	
BRV15-SA-450/150	030.0101.000	15	11.06	510	20.08	150	5.90	0.9
BRV15-SA-500/300	030.0102.000	15	11.06	710	27.95	300	11.81	1.1
BRV40-SA-450/150	030.0103.000	40	29.50	510	20.08	150	5.90	1.5
BRV40-SA-500/300	030.0104.000	40	29.50	760	29.92	300	11.81	1.9
BRV40-SA-1450/600	030.0105.000	40	29.50	1410	55.51	600	23.62	2.5
BRV80-SA-850/300	030.0106.000	80	59.00	810	31.89	300	11.81	2.9
BRV80-SA-1450/600	030.0107.000	80	59.00	1410	55.51	600	23.62	3.9

Proper order configuration

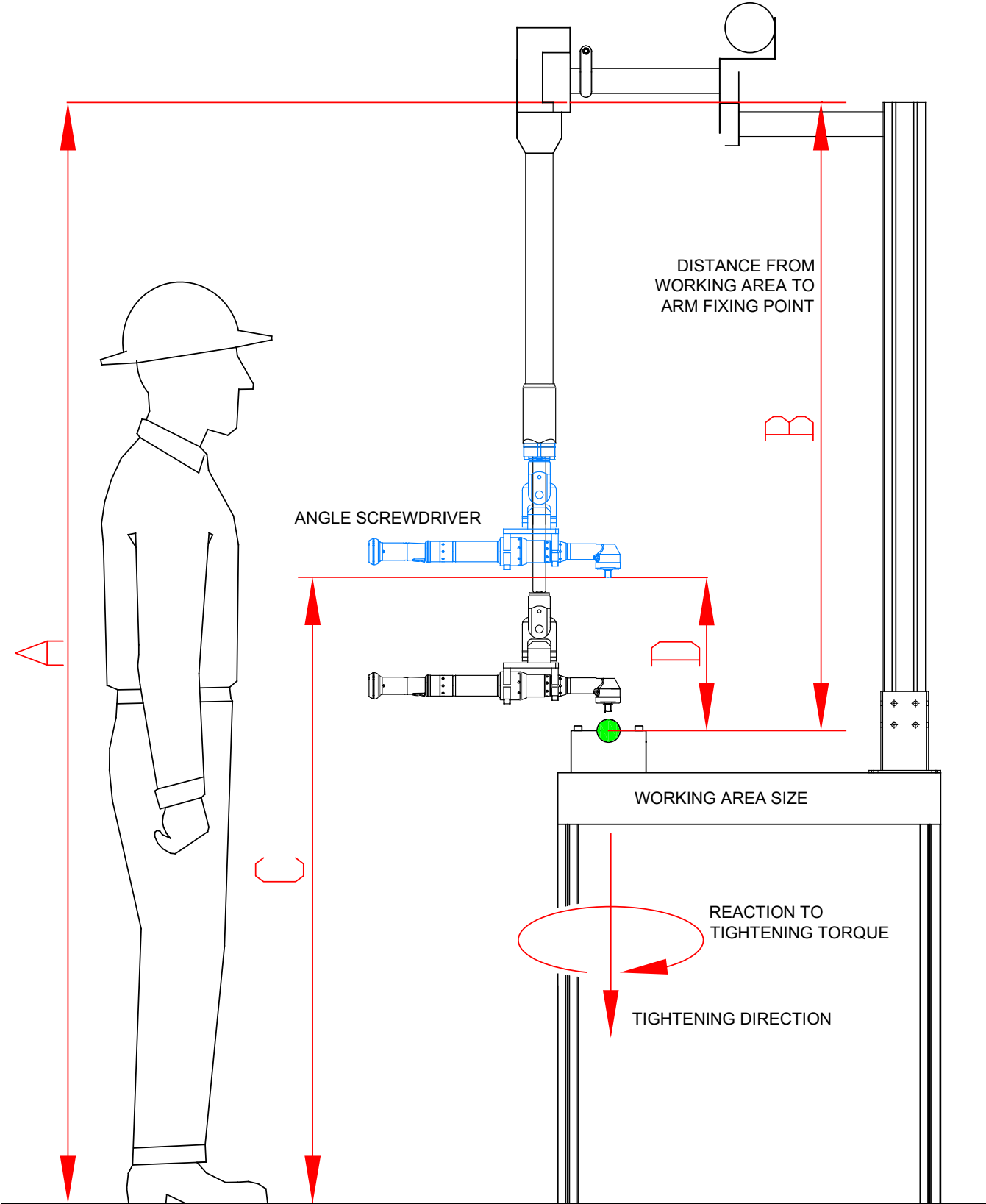
BRV-SA with SA articulated support, balancer kit and straight tool clamp

- 1 SA-80-P
- 2 BRV-SA
- 3 Tool clamp
- 4 Balancer kit



Arm application Hints

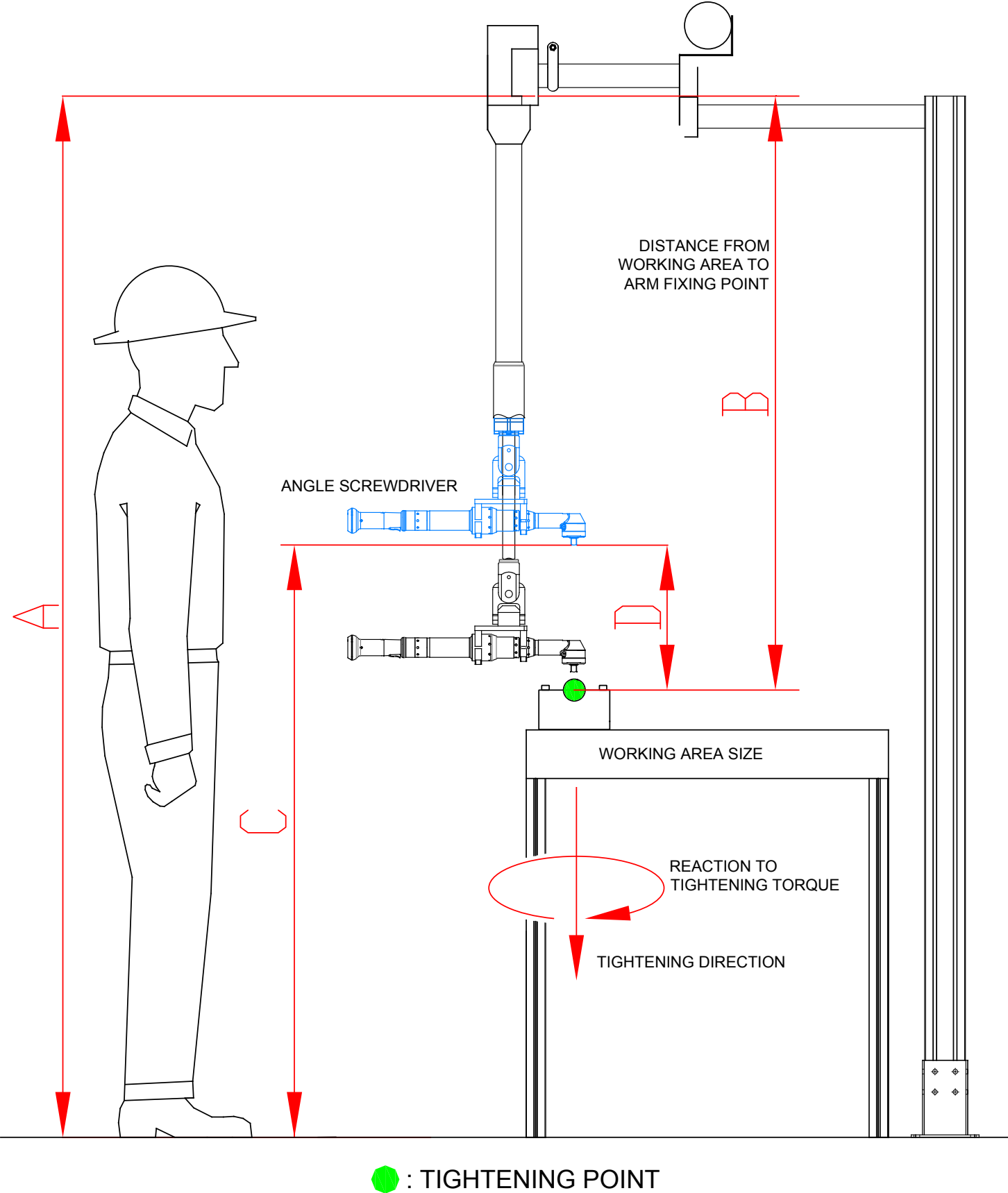
TYPE 5 LAYOUT WORKSTATION
SA - 80 ARTICULATED-SUPPORT



● : TIGHTENING POINT

Arm application Hints

TYPE 5 LAYOUT WORKSTATION - FLOOR MOUNT
SA - 80 ARTICULATED-SUPPORT



Orthogonal torque reaction arms

BRF series

(Max torque 10 - 80Nm)

Use

Folded arm which allows orthogonal tightening to workbench plane

Included

Torque arm with tool holder

Not included

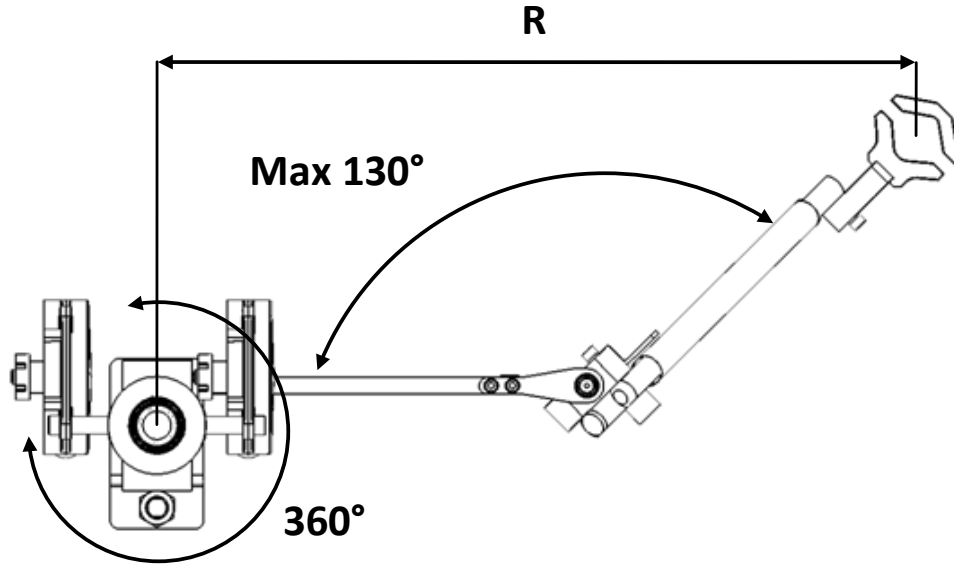
- Pneumatic downward assistance kit only for 15-40-80Nm (Pag. 53)
- Encoder kit (axis X-Y-Z) only for 15-40-80Nm (Pag. 51)
- Balancer (Pag. 50)
- Posix (Pag. 68)

Strengths

- Front arm made of carbon fiber
- Front arm can be positioned at 0°-22.5°-45° (fix positions)



Model Range



Model	Part number	Max torque		Min R		Max R		Max weight tool (Kg)	Weight to balance (Kg)
		(Nm)	(f.lb)	(mm)	(in)	(mm)	(in)		
BRF10-450	040.0001.000	10	7.38	382	15.04	450	17.71	1.5	2.0
BRF10-600	040.0002.000	10	7.38	532	20.95	600	23.62	1.5	2.1
BRF15-450	040.0003.000	15	11.06	382	15.04	450	17.71	4.0	3.0
BRF15-600	040.0004.000	15	11.06	532	20.95	600	23.62	4.0	3.2
BRF40-600	040.0005.000	40	29.50	532	20.95	600	23.62	5.0	3.7
BRF40-800	040.0006.000	40	29.50	732	28.82	800	31.50	5.0	4.0
BRF80-800	040.0007.000	80	59.00	732	28.82	800	31.50	6.0	7.0
BRF80-1000	040.0008.000	80	59.00	932	36.70	1000	39.37	6.0	7.3

BRL series

(Max torque 10 - 80Nm)

Use

Linear arm which allows orthogonal tightening to workbench plane

Included

Torque arm with tool holder

Not included

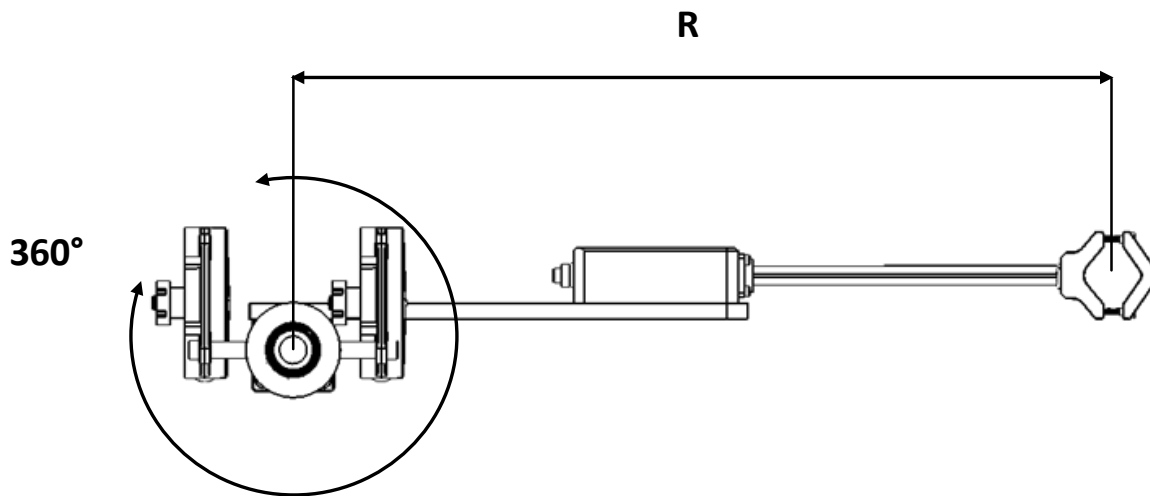
- Pneumatic downward assistance kit only for 15-40-80Nm (Pag. 53)
- Encoder kit (axis X-Y-Z) for models 15-40-80Nm (Pag. 52)
- Balancer (Pag. 50)
- Posix (Pag. 68)

Strengths

The linear sliding arm is made with single shaft sliding on roller bearing



Model Range



Model	Part number	Max torque		Min R		Max R		Max weight tool (Kg)	Weight to balance (Kg)
		(Nm)	(f.lb)	(mm)	(in)	(mm)	(in)		
BRL10-450	040.0101.000	10	7.38	230	9.00	450	17.71	1.5	2.0
BRL10-750	040.0102.000	10	7.38	380	14.90	750	29.52	1.5	2.4
BRL15-450	040.0103.000	15	11.06	260	10.23	450	17.71	4.0	3.0
BRL15-750	040.0104.000	15	11.06	380	14.90	750	29.52	4.0	3.5
BRL40-600	040.0105.000	40	29.50	380	14.90	600	23.62	5.0	4.0
BRL40-900	040.0106.000	40	29.50	530	20.86	900	35.43	5.0	4.5
BRL80-800	040.0107.000	80	59.00	430	16.92	800	31.50	6.0	6.4
BRL80-1400	040.0108.000	80	59.00	670	26.37	1400	55.11	6.0	8.0

Balancer

Use

Adaption of balancer for all BRT arms

Included

Balancer

Not included

Bracket

Strengths

Relieves the tool weight



Model Range

Model	Part number	Wire length	Weight range
		(mm)	(kg)
Balancer 9311	070.0901.000	1600	0.4-1
Balancer 9312	070.0902.000	1600	1-2
Balancer 9313	070.0903.000	1600	2-3
Balancer 9320	070.0904.000	2000	1-2
Balancer 9321	070.0905.000	2000	2-4
Balancer 9322	070.0906.000	2000	4-6
Balancer 9323	070.0907.000	2000	6-8
Balancer 9336	070.0908.000	2500	2-4
Balancer 9337	070.0909.000	2500	4-6
Balancer 9338	070.0910.000	2500	6-8
Balancer 9339	070.0911.000	2500	8-10
Balancer 9340	070.0912.000	2500	10-14
Balancer 9346	070.0913.000	2500	2-4
Balancer 9347	070.0914.000	2500	4-6
Balancer 9348	070.0915.000	2500	6-8
Balancer 9349	070.0916.000	2500	8-10
Balancer 9350	070.0917.000	2500	10-14

Accessories

Encoder kit for BRF

Use

Detection of X-Y axis (+Z for 3 encoder version) by Posix device

Included

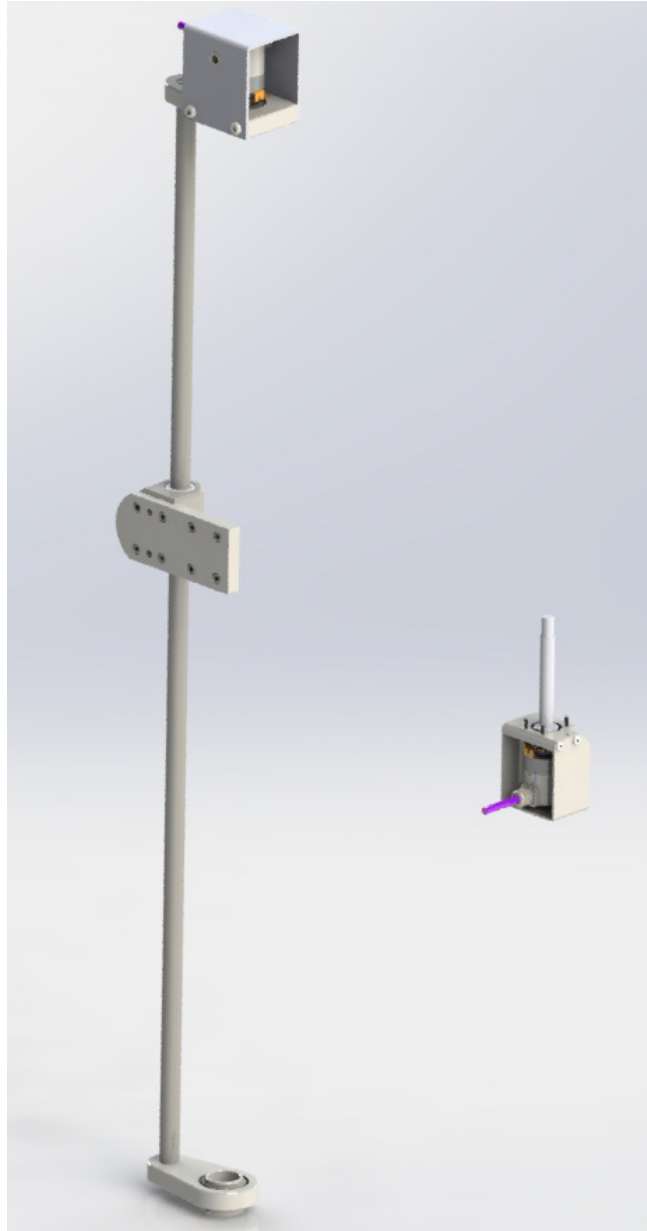
- 2 / 3 encoder
- Anti-rotation system

Not included

BRF torque arm

Strengths

Ensure sequential control monitoring by Posix device



Model Range

Model	Part number	Application	Encoder N.
Encoder kit BRF 15-40	040.0301.000	BRF 15-40	2
Encoder kit BRF 80	040.0302.000	BRF 80	2
3 Encoder kit BRF 15-40	040.0303.000	BRF 15-40	3
3 Encoder kit BRF 80	040.0304.000	BRF 80	3

Accessories

Encoder kit for BRL

Use

Detection of X-Y axis (+Z for 3 encoder version) by Posix device

Included

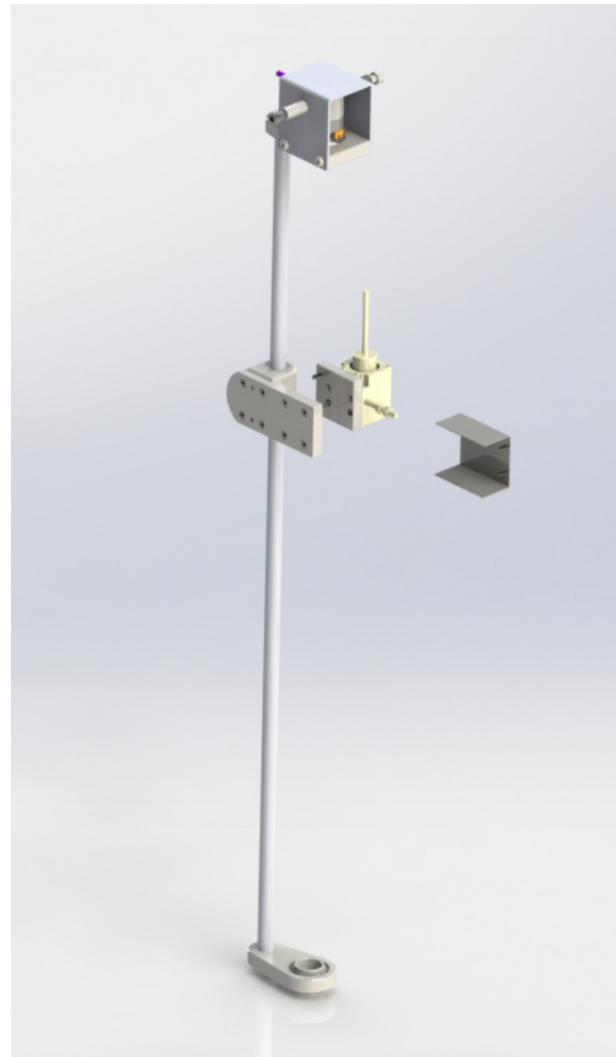
- 2 / 3 Encoder
- Anti-rotation system

Not included

BRL torque arm

Strengths

Ensure sequential control monitoring by Posix device



Model Range

Model	Part number	Application	Encoder N.
Encoder kit BRL 15	040.0351.000	BRL 15	2
Encoder kit BRL 40	040.0352.000	BRL 40	2
Encoder kit BRL 80	040.0353.000	BRL 80	2
3 Encoder kit BRL 15	040.0354.000	BRL 15	3
3 Encoder kit BRL 40	040.0355.000	BRL 40	3
3 Encoder kit BRL 80	040.0356.000	BRL 80	3

Accessories

Pneumatic downward assistance kit for BRF-BRL

Use

Supplies additional push force of the operator hand, especially for tightening with self tapping screw

Included

Pneumatic brake, pushing cylinder, pneumatic circuit components, brackets

Not included

BRF torque arm

Strengths

- Reduces operator stress in case of tightening with self-forming screws
- Increases assembly quality

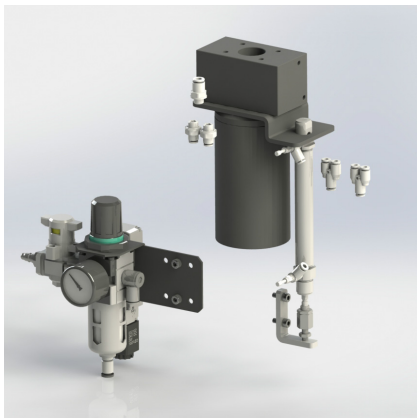


Model Range

Model	Part number	Push force (Kgs)	Application
KIT AS BR15-40	040.0201.000	5	BRF - BRL15-40
KIT AS BR 80	040.0202.000	9	BRF - BRL 80

Configuration type 1

BRL arm with downward assistance kit and balancers



+

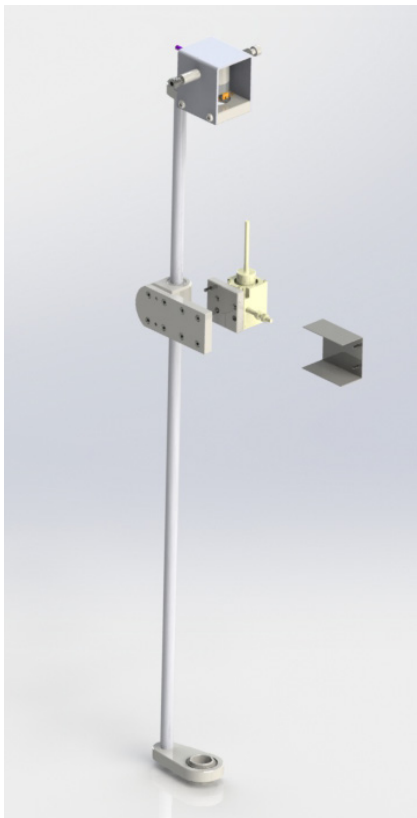


+



Configuration type 2

BRF arm with encoder kit and balancers



+

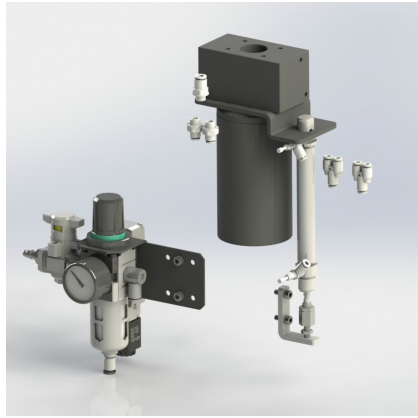


+



Configuration type 3

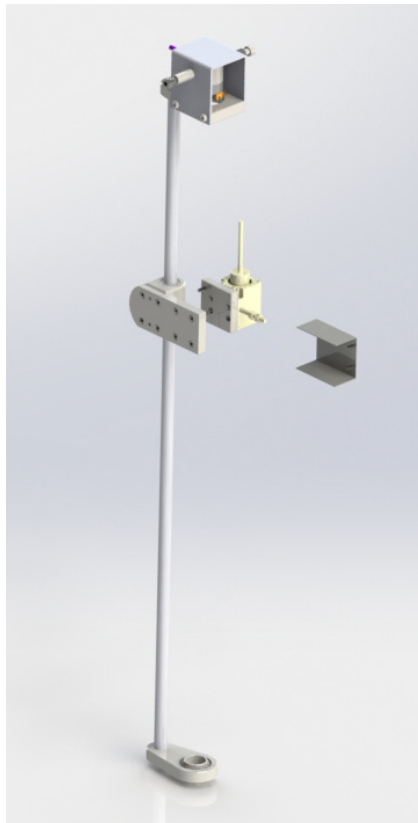
BRL arm with downward assistance kit, encoder kit and balancers



+



+

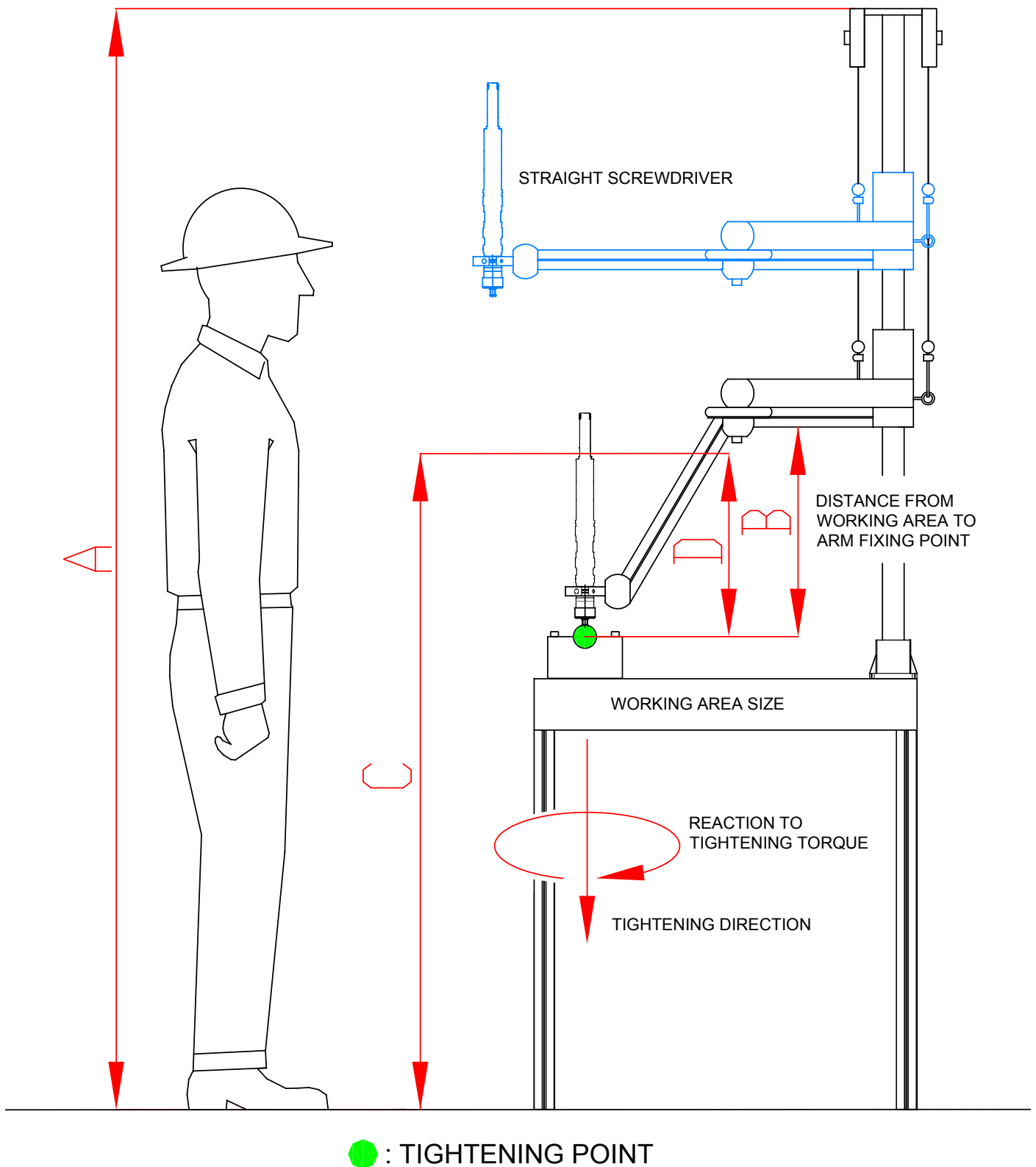


+



Arm application Hints

TYPE 6 LAYOUT - WORKSTATION
BRF-BRL ORTHOGONAL TORQUE ARM



Zero G torque reaction arms

Zero G

The new ZeroG carbon fiber arm (zero gravity) is the result of an innovative design for maximum performance.

All features related to maneuverability, reaction efficiency and safety has been enhanced to the highest level.

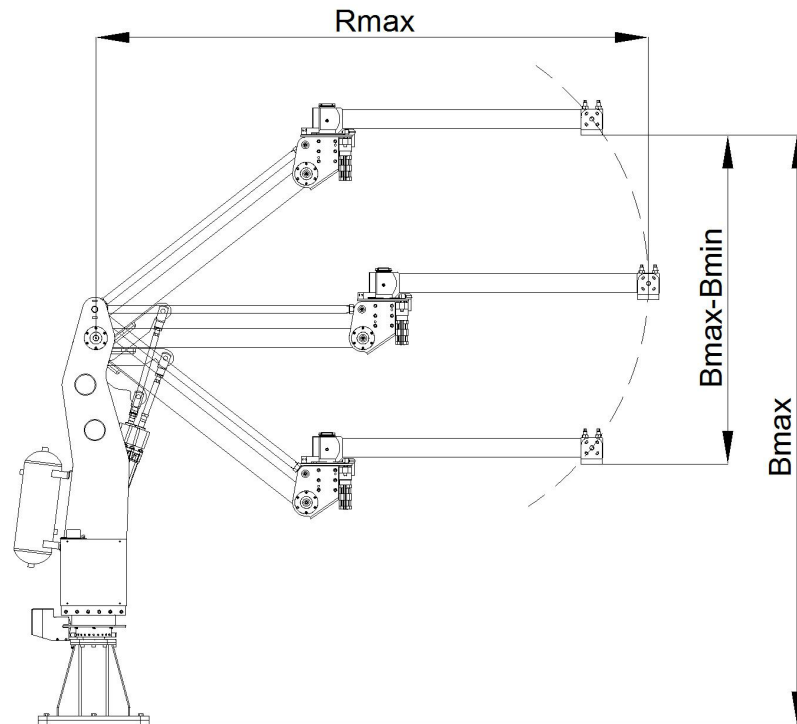
Maximum load capacity allows you to handle heavy tools.



Strengths of ZeroG new range

- Pneumatic balancing
- Radius: max 2500mm
- Weight range: max 70Kgs
- Max torque: 500Nm
- Handling effort: below 39N
- Floor and ceiling installation

Model range and size



Floor installation model range

Model	Part number	Max torque (Nm)	B max (mm)	Bmax-Bmin (mm)	R max (mm)	Weight range (Kg)	Weight (Kg)
ZeroG 250-1500	050.0001.000	250	2240	870	1500	55	215
ZeroG 250-2000	050.0002.000	250	2400	1185	2000	45	225
ZeroG 250-2500	050.0003.000	250	2555	1490	2500	35	235
ZeroG 500-1500	050.0201.000	500	2390	870	1500	70	255
ZeroG 500-2000	050.0202.000	500	2545	1185	2000	60	265
ZeroG 500-2500	050.0203.000	500	2700	1490	2500	50	275

Ceiling installation model range

Model	Part number	Max torque (Nm)	B max (mm)	Bmax-Bmin (mm)	R max (mm)	Weight range (Kg)	Weight (Kg)
ZeroG-S 250-1500	050.0051.000	250	2220	870	1500	55	195
ZeroG-S 250-2000	050.0052.000	250	2380	1185	2000	45	205
ZeroG-S 250-2500	050.0053.000	250	2535	1490	2500	35	215
ZeroG-S 500-1500	050.0251.000	500	2370	870	1500	70	240
ZeroG-S 500-2000	050.0252.000	500	2525	1185	2000	60	230
ZeroG-S 500-2500	050.0253.000	500	2680	1490	2500	50	250

Accessories

ZeroG encoder kit

Use

Detection axis X-Y by Posix device

Strengths

The kit includes the provision of 3 incremental encoders and related cables and brackets for connection to the Posix device. Can be integrated with tool custom droppers.



Model range

Model	Part number
ZeroG Encoder Kit	055.0302.000

Base extensions

Use

The base extension allows adjustment of the torque arm ZeroG height

Strengths

Steel construction



Model Range

Model	Part number
Base extension L250	055.0004.000
Base extension L500	055.0005.000
Base extension L1000	055.0006.000

Tool-holder droppers

Use

The tool-holder dropper allows a correct positioning of tool and can be integrated with electromagnetic brakes to allow axial rotation.

Custom droppers are available only on demand and are customized on customer needs.

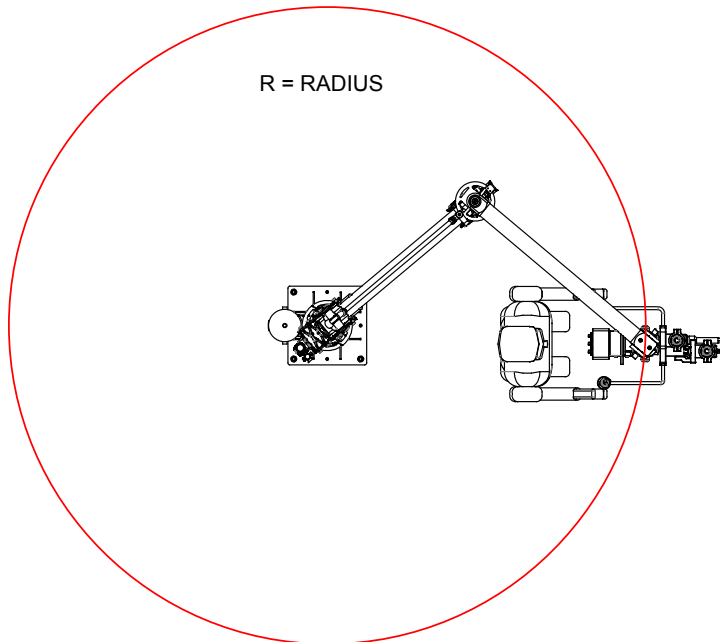
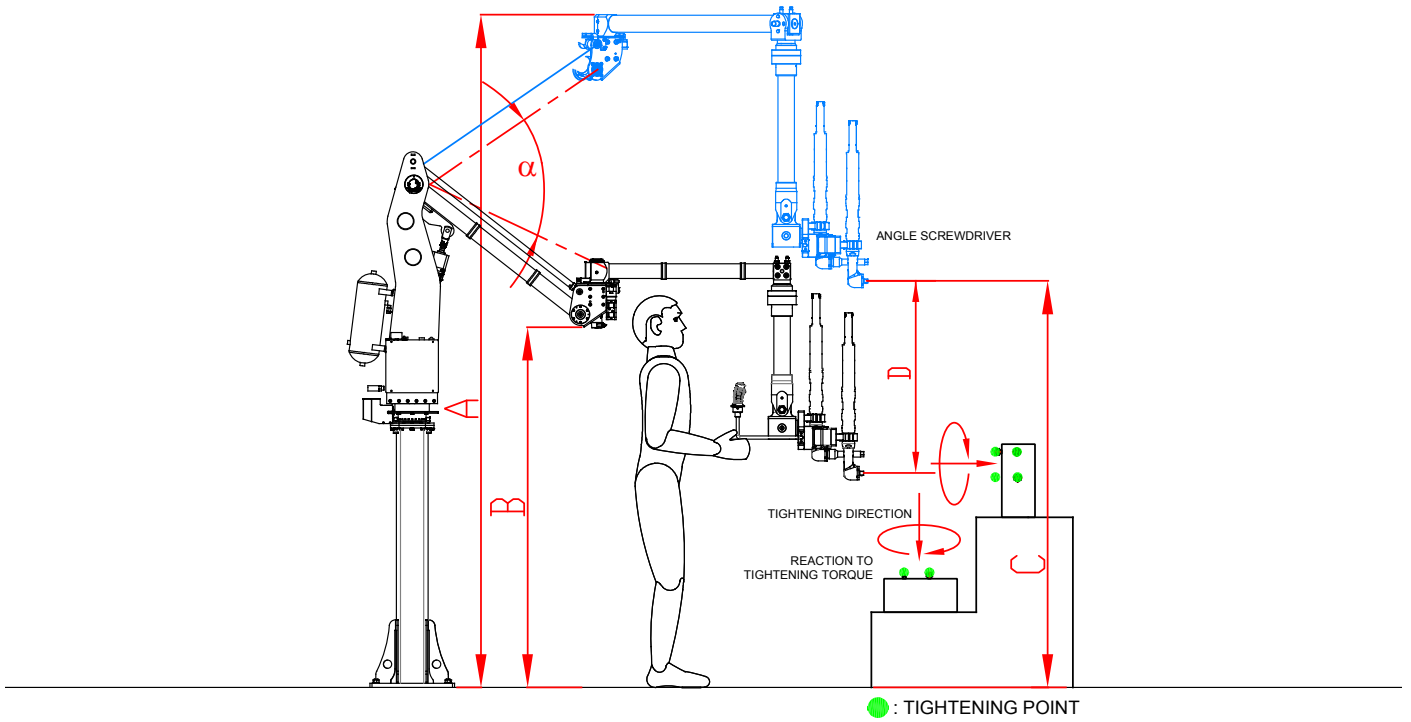
Strengths

Carbon fiber extension with tool-holder interface



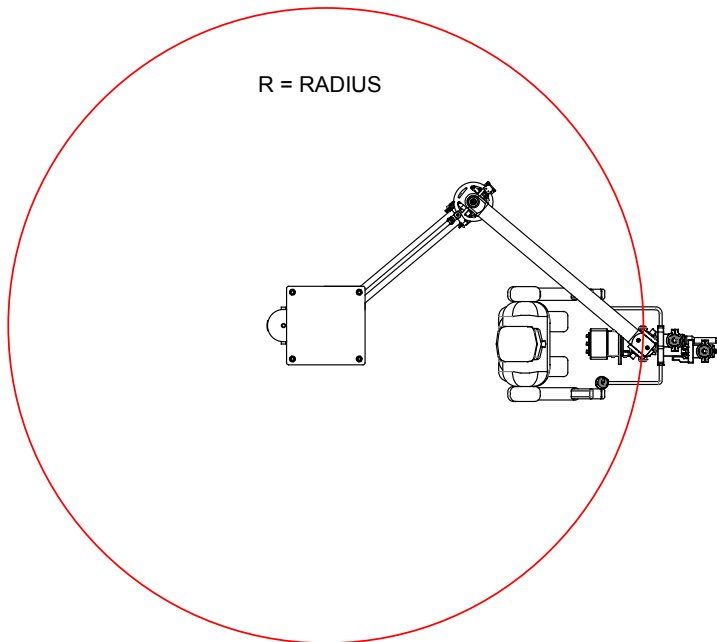
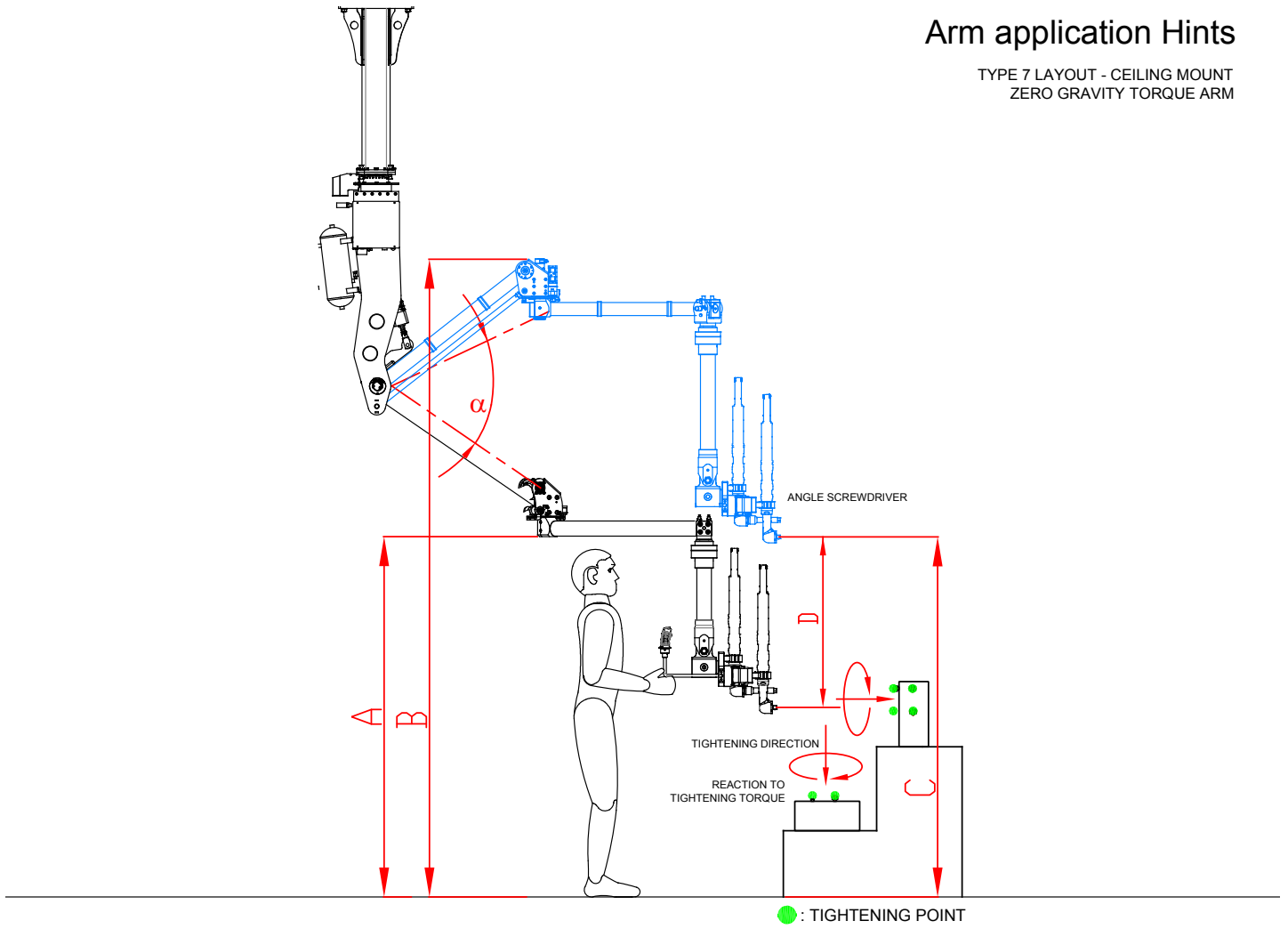
Arm application Hints

TYPE 7 LAYOUT - FLOOR MOUNT
ZERO GRAVITY TORQUE ARM



Arm application Hints

TYPE 7 LAYOUT - CEILING MOUNT
ZERO GRAVITY TORQUE ARM





Ergonomic accessories

Accessories

Mini Tool Holster

Use

Keeping of handle tools

Included

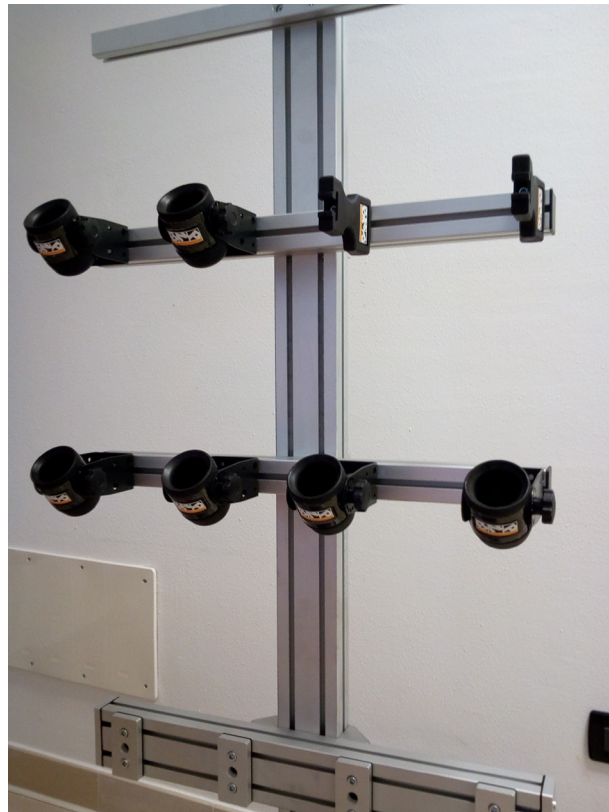
Holster with bracket

Not included

Power tool

Strengths

- Easy installation
- Protects the power tool body
- Real carbon fiber bezel



Model Range

Model	Part number	Max tool diameter (mm)
Mini Tool Holster	0007.08	42

Accessories

Twin Holder

Use

Keeping of handle tools

Included

Holder pair and screws

Not included

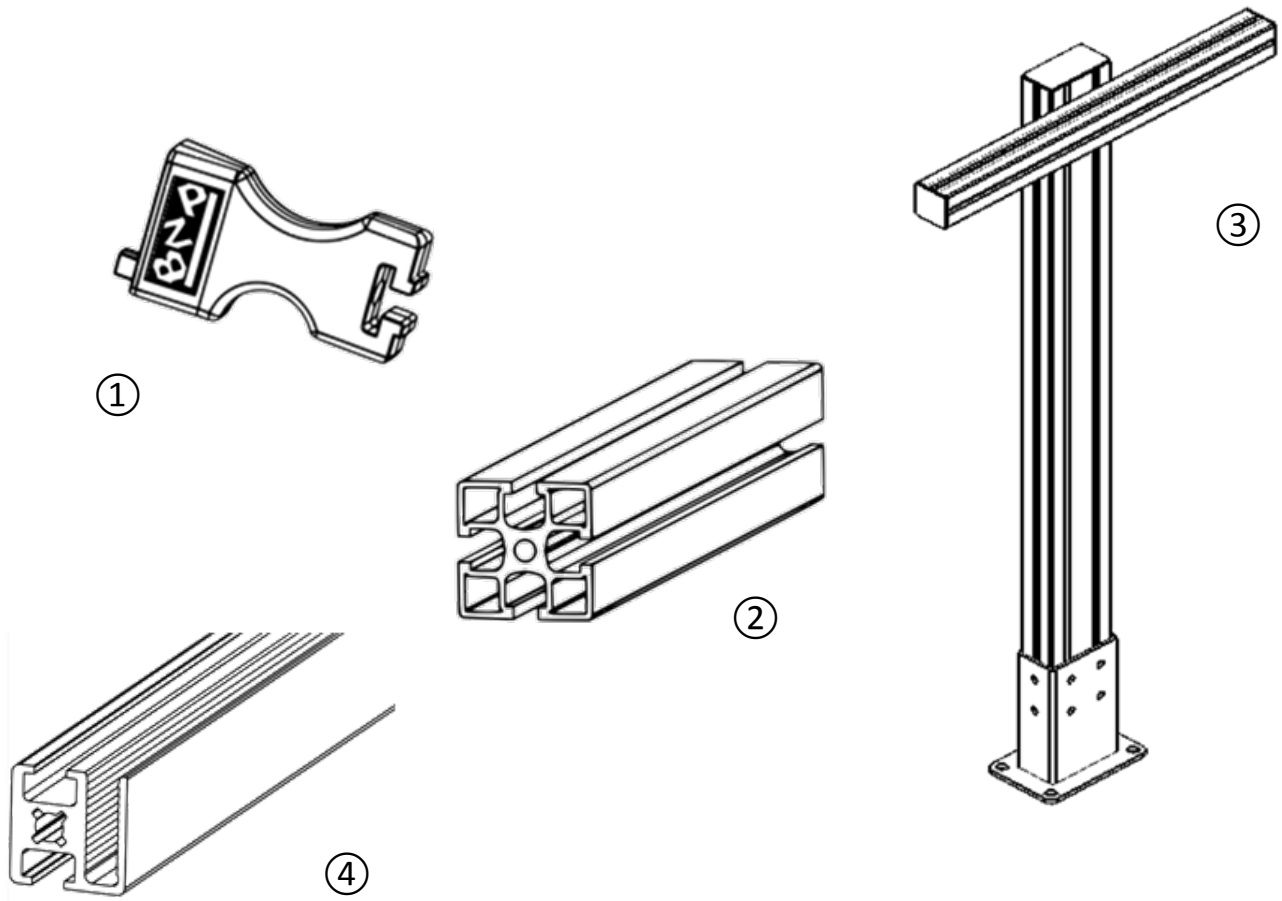
Aluminum rail and aluminum stand available on demand

Strengths

- Multi-position features.
- Designed for fitting on aluminum profiles with 8mm slots.



Gamma



Ref.	Part number	Q.ty	Tool diameter	Description
			(mm)	
1	0007.20	1	42 to 70	Twin Holder pair
2	0007.20.03	1 (*)	n/a	Rail 45 x 45 L=500
3	0007.20.04	1 (*)	n/a	Stand H=1000 with rail
4	0007.20.05	1 (*)	n/a	Box holder profile L=500

(*) also available with special dimensions upon request



Posix Arm positioning system

POSIX

Torque arm positioning system

Use

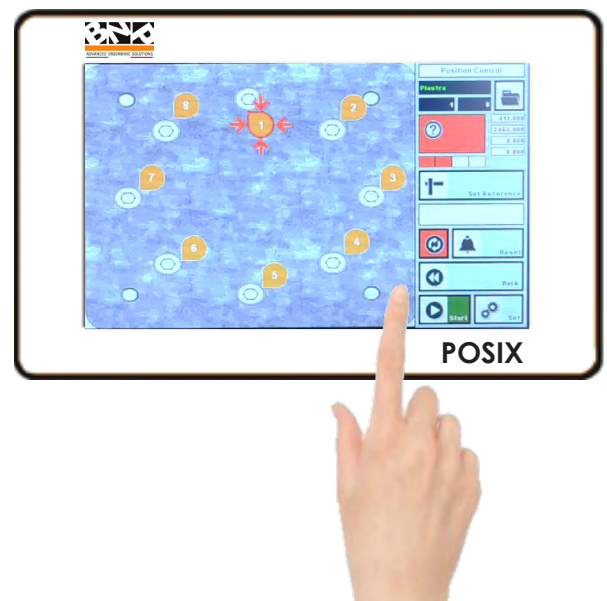
Detection on tool position during assembly process

Not included

Torque arm

Strengths

- HMI with TFT 7 "WIDE LCD touch screen 262K colors
- Supports up to 4 incremental encoders
- Can store up to 500 sequences of tightening
- Communication with control unit of screwdrivers via digital I/O
- Intuitive and easy programming
- Support with CAD/Photo Preview of real component
- Can be interfaced with SMM® software on PC
- Designed for BNP BRT-P, BRF, BRL, SA, ZeroG, E-ZeroG
- Can be interfaced with various brands of control units for screwdrivers



Model

Posix

Part number

060.0001.000

POSIX PRO

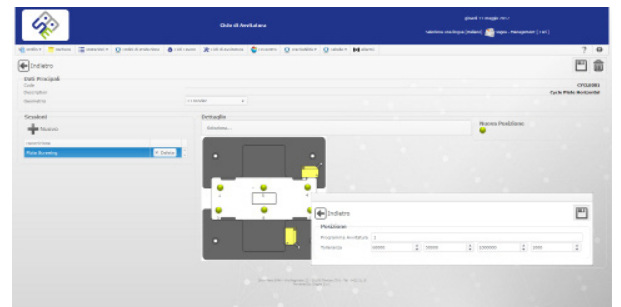
Torque arm positioning system

Use

The same functions as Posix

Additional features

- Visualization of work phases, multilingual instructions and graphic reproductions of the workbench and components to be assembled
- Detailed instructions for each phase (pdf, video, images,)
- Barcode print and detection
- Operator recognition
- Model identification
- Locking/unlocking management
- Screwdriver management
- Torque arms and encoders management
- Data communication with control unit
- Socket tray management
- "Pick to Light" system
- ERP interface

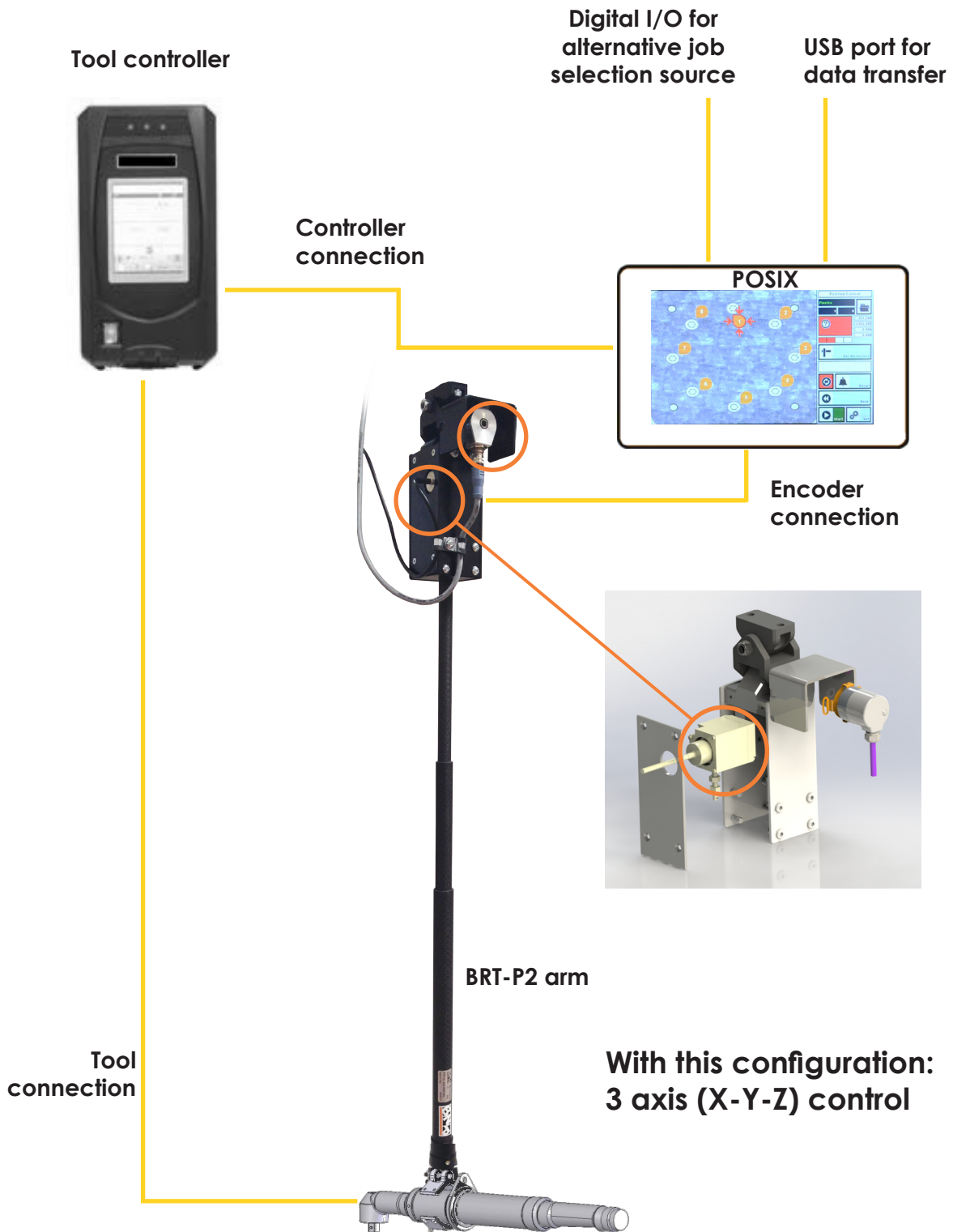


Model	Part Number
Posix Pro Software	060.0002.000
Hardware	Codice
Control unit with PLC (*)	n/a

(*) For hardware components see pag. 82-83

INSTALLATION SCHEME 1

BRT-P2 arm + POSIX



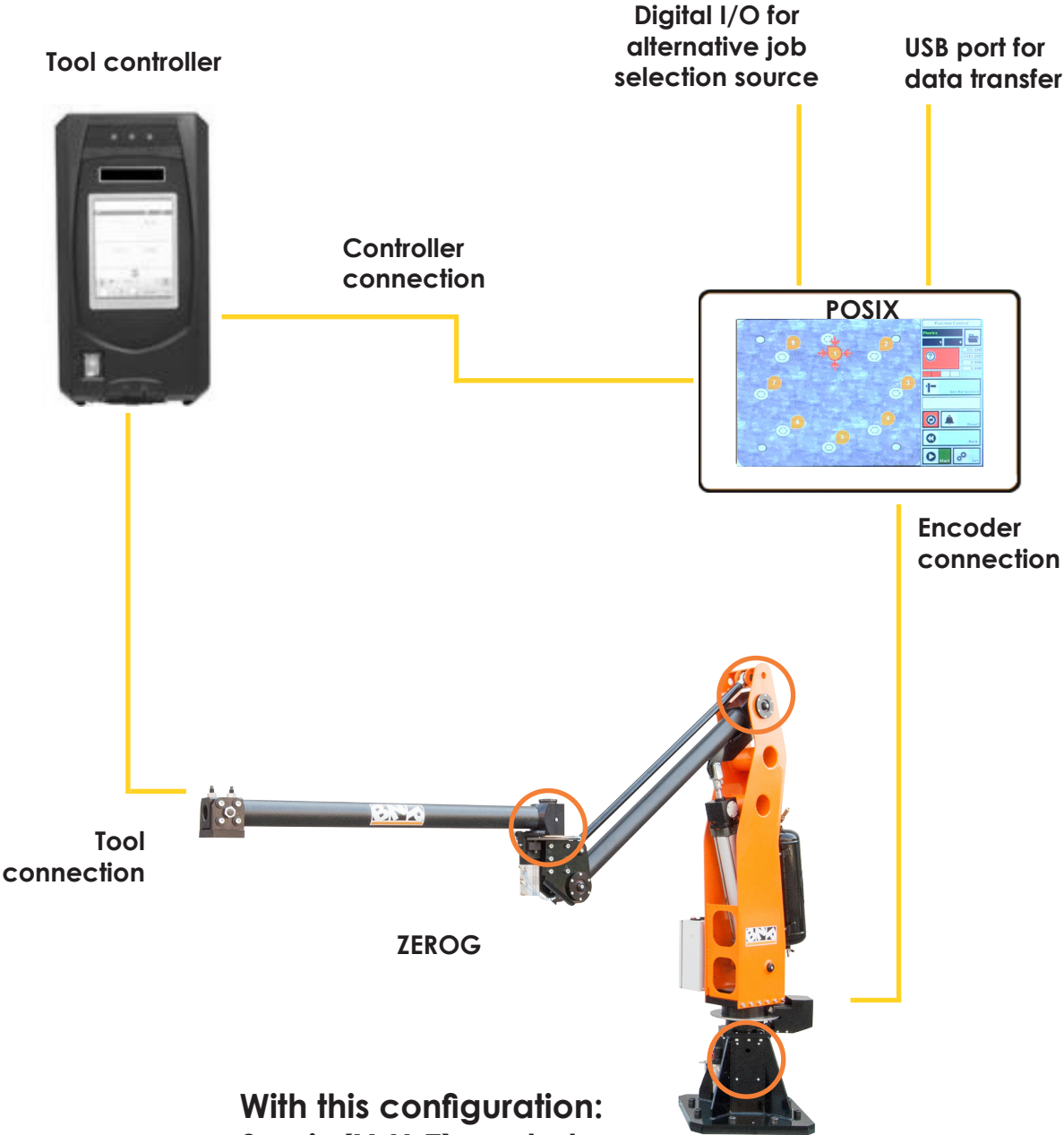
INSTALLATION SCHEME 2

BRF arm + POSIX



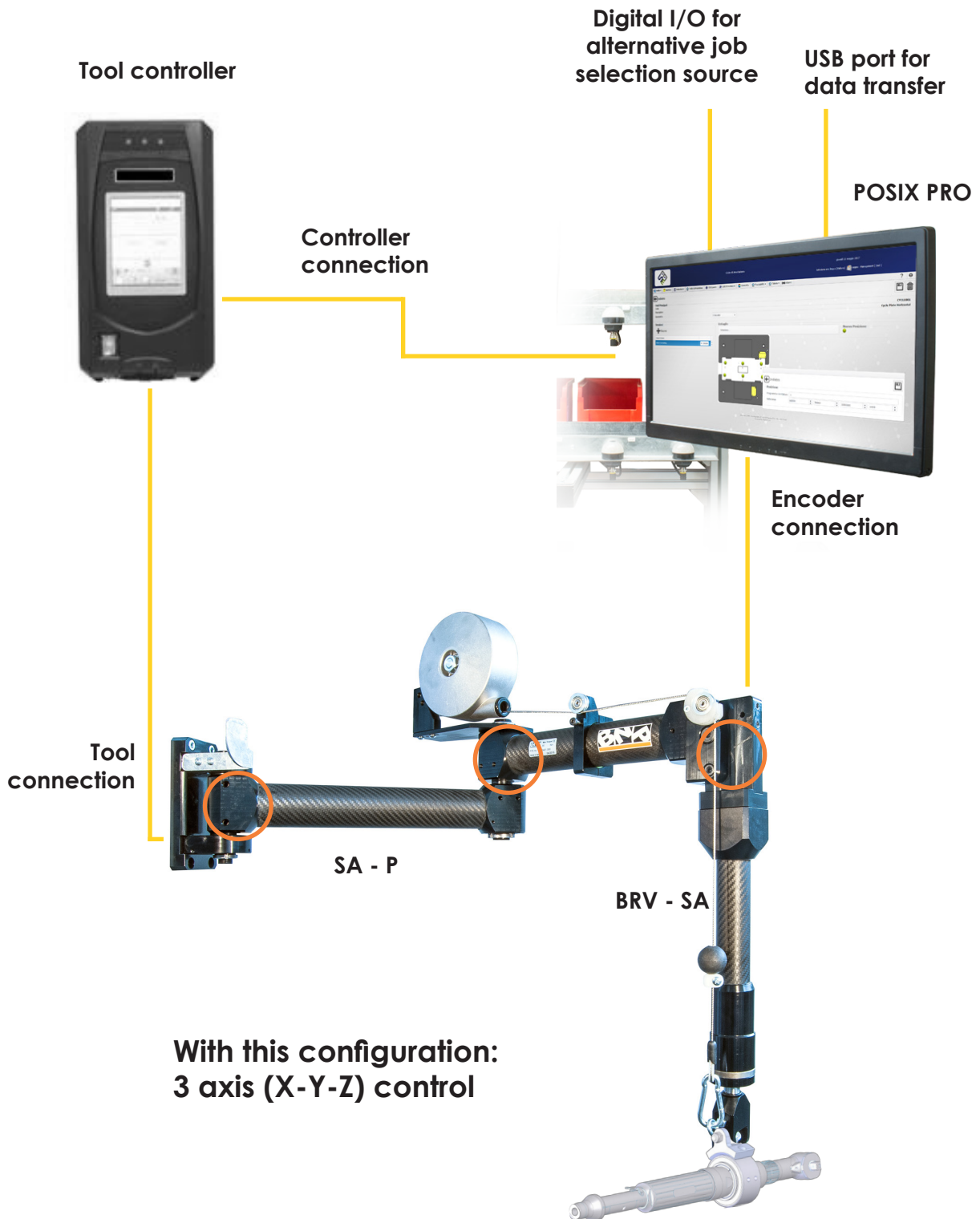
INSTALLATION SCHEME 3

ZEROG + POSIX



INSTALLATION SCHEME 4

BRV-SA + SA-P + POSIX



INSTALLATION SCHEME 5

ZEROG + POSIX PRO





SMM

Process configuration software

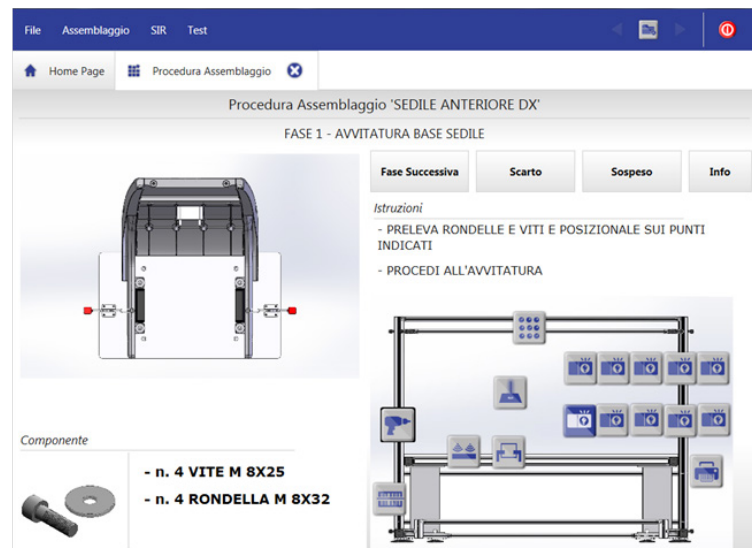
SMM Smart Manufacturing Manager

A software platform for managing and efficiently controlling hand or semi-automatic assembly processes, which requires human-machine interaction, ensuring high-precision and total quality.

The software allows customer configuring processes in user-friendly way, allows ergonomic parameters adjustment of assembly workstation in compliance with anthropometric features of operator, improving human psychophysical well-being and increasing process efficiency.

Process architecture:

The software is based on a web platform, therefore is usable from any stations with a web connection.



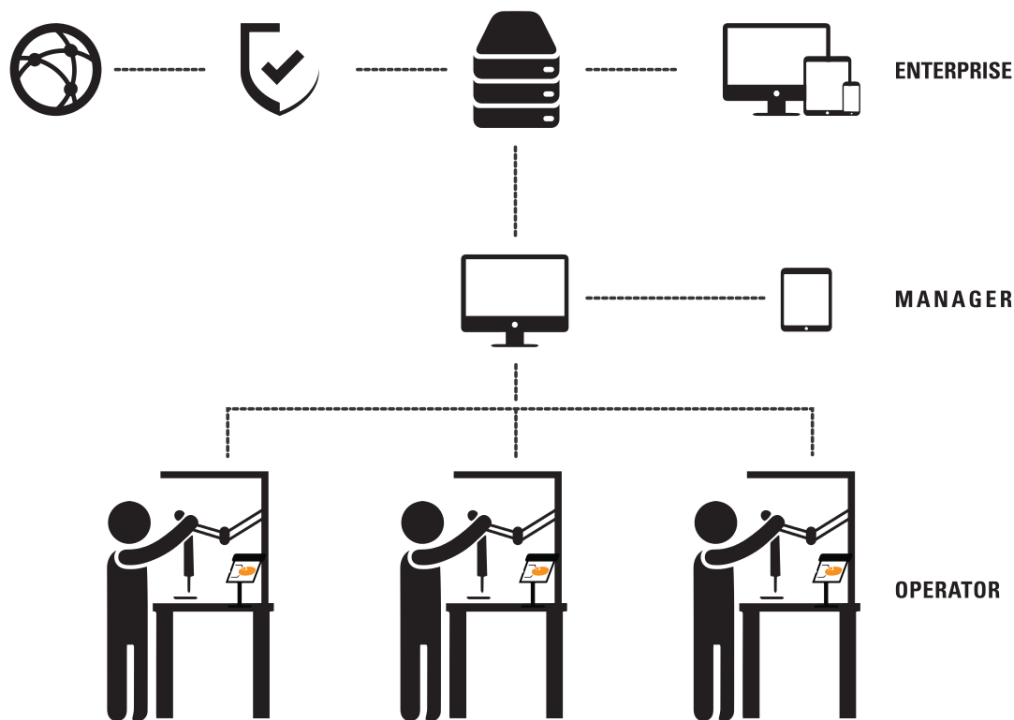
The system consists of 3 parts:

- MANAGER MODULE (used of process manager)
- OPERATOR MODULE (interface part with in-line operator)
- CONNECTOR MODULE (allows MANAGER MODULE and OPERATOR MODULE linking).





















Process architecture:

Depending on necessities can be used: industrial PC, Tablet, touch Monitor, Power unit with PLC.





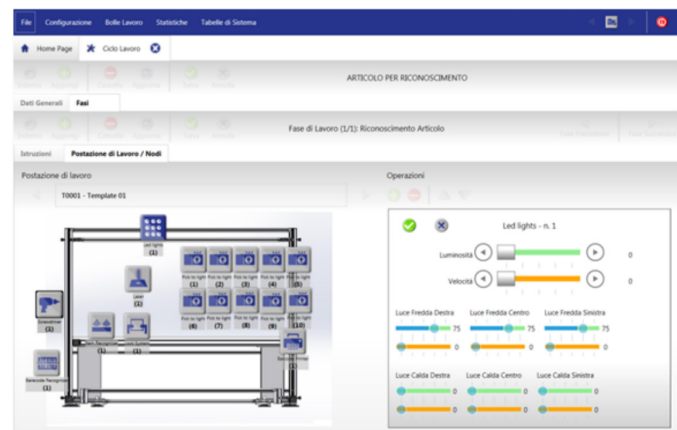
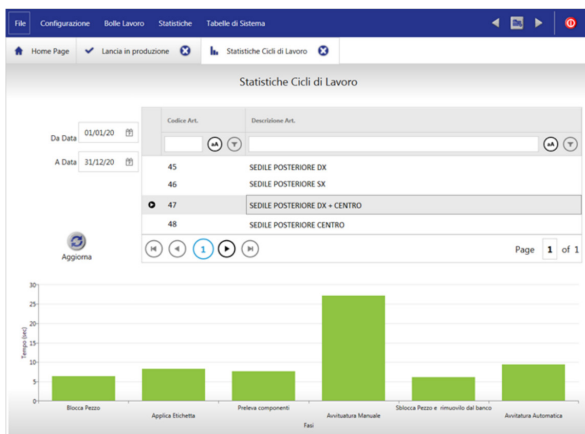
Tools managed:

-  Work plane height adjustment system
-  Dynamic light system
-  Positioning system through torque arms with encoders
-  Electronic screwdrivers
-  Socket tray change
-  Electronic handling systems
-  Collaborative robot
-  Riveters and Pull-inserts with electronic controlling
-  Welding pins and threaded inserts
-  Fluid dispensing system (oil, grease, silicone)
-  Electronic presses with control of force and working dimensions
-  "Pick to light" system
-  Set up: model detection and locking/unlocking functions
-  Badge reader for operator identification
-  Labels printers, laser markers
-  Label sensors, data matrix
-  Vision systems
-  Sensors
-  Component counters
-  Conveyor systems

MANAGER MODULE

For production and process managers, it allows:

- Configuration of workstations with all tools involved in the various phases
- Configuration of phases for each work cycle including multilingual instructions and uploaded images
- Configuration of behaviors of each tool on workstation in relation to the work phase
- Production start up of a particular work cycle on one or more stations
- Real-time monitoring of data flow
- Diagnostics and alarms management
- Data recording and viewing of related statistics
- ERP Interface
- Preexisting equipment management



Description

Part number

MANAGER LICENSE

060.0100.000

CONNECTOR LICENSE 1 WORKSTATION

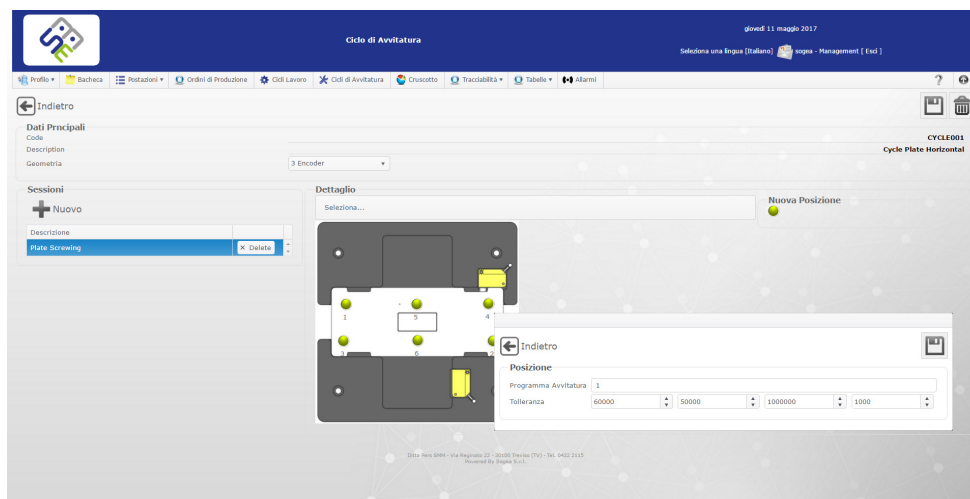
060.0100.001

OPERATOR MODULE

Guides the operator in the various production phases by coordinating tools of each location and ensuring quality and traceability of productive process.

The operator module allows:

- Changing ergonomic parameters related on operator's workstation
- Control of the correct execution of the work phases by blocking the functionality of the various tools if the operation is not performed in the correct way
- Displaying work phases with multilingual instructions
- Viewing detailed instructions for each phase (pdf, video, images)



There are 4 types of OPERATOR module based on required features:

- BASIC SMM
- ADVANCED SMM
- PRO SMM
- POSIX PRO (see pag. 68)

BASIC SMM

Included features

- Visualization of work phases, with multilingual instructions and graphics reproduction of workbench and components to be assembled
- Possible consultation of detailed instructions for each phase (pdf, video, images)
- Barcode printing and detection
- Operator recognition
- Identification of model to be assembled

Software	Part number
BASIC SMM 1 WORKSTATION (*)	060.0101.000

(*) Not included supply of hardware components (see pag. 83-84)

ADVANCED SMM

Included features

- Ergonomic adjustment of operator parameters (workplane height, dynamic lighting)
- Visualization of work phases with multilingual instructions, graphic reproduction of workbench and components to be assembled
- Possible consultation of detailed instructions for each phase (pdf, video, images)
- Barcode printing and detection
- Operator recognition
- Identification of model to be assembled
- Locking / unlocking set up of the component to be assembled
- Electronic screwdrivers management
- Torque arms and encoders management
- Data function by control unit of tightening (via Open Control)
- Change socket tray manager
- "Pick to light" system
- Fluid dispensing system management
- Electronic press system management
- Laser markers management

Software	Part number
ADVANCED SMM 1 WORKSTATION	060.0102.001

Hardware	Part number
Control unit with PLC (*)	n/a

(*) Not included supply of hardware components (see pag. 83-84)

PRO SMM

Included features

The same of Advanced version:

- Collaborative robot management
- Intelligent handling systems management

Software	Part number
PRO SMM 1 WORKSTATION	060.0103.001

Hardware	Part number
Control unit with PLC (*)	n/a

(*) Not included supply of hardware components (see pag. 83-84)

Components of control unit with PLC

PERSONAL COMPUTER	PART NUMBER
PC Basic - for online workstation (*) Intel Celeron or Aton Quad Core Processor - 4GB RAM - 64GB SSD - 2x gigabit network cards - 2x video out ports - USB 3.0 & 2.0 ports	060.0200.001
PC Pro - for offline workstation (**) Intel Core i5 Processor - 8GB RAM - 120GB SSD - 2x gigabit network cards - 2x video out ports - USB 3.0 & 2.0 ports	060.0200.002

(*) Can be used only with Operator Module. Not suitable for Operator + Manager module combination (see pag. 85-86)

(**) Can be used for Operator + Manager module combination (see pag. 85-86)

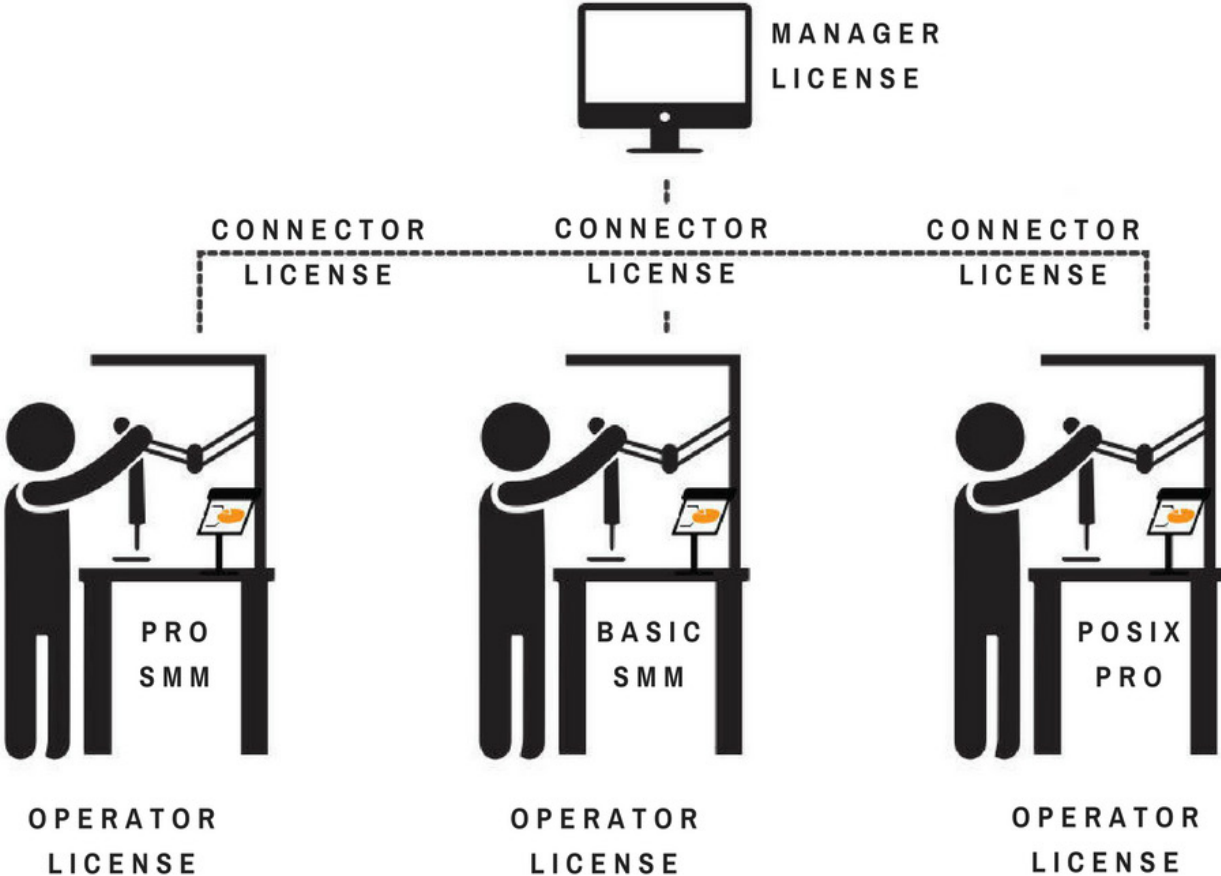
MONITOR	PART NUMBER
Touch Screen Monitor 17 Basic Resolution 1280x1024 – VGA out – USB connection	060.0201.001
Touch Screen Monitor 21,5 Basic Resolution 1920x1080 - VGA, HDMI & DVI-D out - Optical Touch, can be used with gloves - USB connection	060.0201.002
Touch Screen Monitor 24 Basic Resolution 1920x1080 - VGA, HDMI & DVI-D out - Optical Touch, can be used with gloves - USB connection	060.0201.003
Touch Screen Monitor 17 Pro Resolution 1280x1024 - VGA & DVI out - Resistive, can be used with gloves - USB connection	060.0201.004
Touch Screen Monitor 21,5 Pro Resolution 1280x1024 - VGA & DVI out - Resistive, can be used with gloves - USB connection	060.0201.005

ACCESSORIES	PART NUMBER
Barcode reader WIRED USB 1D Multi-use handheld reader with linear imager technology -1D mono-dimensional bar codes - USB connection	060.0202.001
Barcode reader WIRELESS 1D Multi-use handheld reader with linear imager technology cordless STAR - 1D mono-dimensional bar codes - USB connection	060.0202.002
Fix Barcode reader WIRED USB 1D Fix omni-directional reader - 1D mono-dimensional bar codes - USB connection	060.0202.003
Barcode reader RFID RFID badge reader for 13,56MHz technology	060.0202.004
Switch 8 ways gigabit Basic CISCO Switch managed gigabit - VLAN	060.0202.005
Additional WIFI Module For use on collaborative cells without access to customer's LAN connection	060.0202.005

PRINTERS	PART NUMBER
Zebra ZT230 8DOT USB Printer, with parallel and network ports without film peeler Thermal transfer - 8DOT 203dpi	060.0203.001
Zebra mid-range GT800 8DOT USB Printer, with parallel and network ports without film peeler Thermal transfer - 8DOT 203dpi	060.0203.002
ZEBRA mid-range GT800 8DOT USB Printer, with parallel and network ports with film peeler Thermal transfer - 8DOT 203dpi	060.0203.003

ARCHITECTURE EXAMPLES

WORK STATION ONLINE



ARCHITECTURE EXAMPLES

WORK STATION OFFLINE



OPERATOR
LICENSE



OPERATOR
LICENSE



OPERATOR
LICENSE

REMARKS: product characteristics may be changed by BNP without notice in advance

BNP 2017 CATALOGUE

REV.n.0

Approved by the Company's Board of Directors

APPROVED: GM - Carlo Pettenon

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