

Ariac rivettatura





How to find a suitable hammer and bucking bar

The Atlas Copco riveting system includes vibration-damped hammers RRH and bucking bars RBB – as well as conventional riveting hammers RRN.

The vibration-damped riveting hammers – RRH – are available in different sizes, RRH04P, RRH06P, RRH08P, RRH10P and RRH12P.

Each size is available in “Trigger start” and “Push to start” models.

The conventional riveting hammer – RRN – is available in one size: RRN11P.

The number of blows and the power are critical factors which determine the strength of a riveted joint. A few powerful blows

are needed to fill out the hole and form a head when upsetting the rivet. The impact force is critical to some extent when working with aluminium alloys, as too many blows can embrittle the metal.

In terms of capacity, the tools overlap. The table on page 183 helps you to find the right tool for your particular application of riveting.

The vibration-damped bucking bars RBB are available in two versions – the simple spring damped – SP type and the air servo assisted SA type. There are three sizes RBB04, RBB10 and RBB16.

RIVETING HAMMERS

Vibration-damped

RRH is a unique series of riveting hammers incorporating completely revolutionary ergonomic advantages.

- **Versatile** – RRH can easily cope with rivets in diameters up to 12 mm.
- **Vibration-damped system** – An RRH vibration-damped riveting hammer, combined with an RBB vibration-damped bucking bar, offer an unbeatable system for riveting.
- **Adjustable power.**
- **Adjustable hand guard** – Support hand grip is vibration-damped.
- Now new models with trigger start for excellent handling. Pistol grip with rubber coating.



Model	Blows Hz	Nozzle		Piston dia		Stroke		Energy per blow		Weight		Air consumption		Hose size		Air inlet BSP	Ordering No.
		mm	in	mm	in	mm	in	J	ft lb	kg	lb	l/s	cfm	mm	in		
Riveting hammers with push start																	
RRH04P-01	66	10.0	0.4	15	0.6	40	1.6	2.0	1.5	1.0	2.2	3.7	6	6.3	1/4	1/4	8426 1109 07*
RRH04P-02	66	10.2	0.4	15	0.6	40	1.6	2.0	1.5	1.0	2.2	3.7	6	6.3	1/4	1/4	8426 1109 15*
RRH04P-12	66	10.2	0.4	15	0.6	40	1.6	2.0	1.5	1.0	2.2	3.7	6	6.3	1/4	1/4	8426 1109 25
RRH06P	36	10.2	0.4	15	0.6	102	4.0	6.0	4.4	1.3	2.9	9.0	19	10.0	3/8	1/4	8426 1110 04*
RRH08P	24	10.2	0.4	15	0.6	137	5.4	8.0	5.9	1.4	3.0	10.0	21	10.0	3/8	1/4	8426 1110 09
RRH10P	25	12.7	0.5	19	0.7	118	4.6	13.0	9.6	2.0	4.4	12.0	24	10.0	3/8	1/4	8426 1110 20*
RRH12P	20	12.7	0.5	19	0.7	153	6.0	16.0	11.8	2.1	4.6	13.0	28	10.0	3/8	1/4	8426 1110 47*
Riveting hammers with trigger start																	
RRH04P TS-12	66	10.2	0.4	15	0.6	40	1.6	2.0	1.5	1.0	2.2	3.7	6	6.3	1/4	1/4	8426 1109 27*
RRH06P TS	36	10.2	0.4	15	0.6	102	4.0	6.0	4.4	1.3	2.9	9.0	19	10.0	3/8	1/4	8426 1110 66*
RRH08P TS	24	10.2	0.4	15	0.6	137	5.4	8.0	5.9	1.4	3.0	10.0	21	10.0	3/8	1/4	8426 1110 68*
RRH10P TS	25	12.7	0.5	19	0.7	118	4.6	13.0	9.6	2.0	4.4	12.0	24	10.0	3/8	1/4	8426 1110 70*
RRH12P TS	20	12.7	0.5	19	0.7	153	6.0	16.0	11.8	2.1	4.6	13.0	28	10.0	3/8	1/4	8426 1110 72*

-01 means 10 mm short shank rivet set.

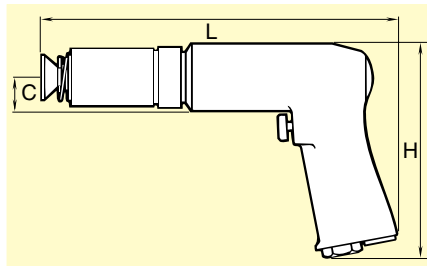
-02 means 10.2 mm short shank rivet set.

-12 means 10.2 mm stand shank rivet set.

* Available directly from stock.

DIMENSIONS (mm)

Model	L	H	C
RRH04-01	160	147	23
RRH04-02	160	147	23
RRH04-12	175	147	23
RRH06	225	147	24
RRH08P	244	147	24
RRH10P	264	150	27
RRH12P	299	150	27



Kits for conversion to trigger start operation

Model	Ordering No.
RRH04P-12	3520 0363 80
RRH06/08P	3520 0210 81
RRH10/12P	3520 0364 80

ACCESSORIES INCLUDED

- Hose fitting
- Flush set
- Open spring retainer

OPTIONAL ACCESSORIES

Blank and flush rivet sets, see page 183.

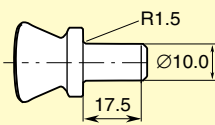
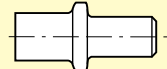
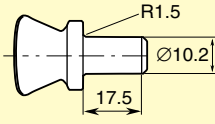
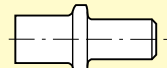
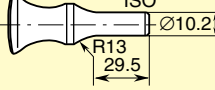
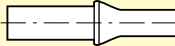
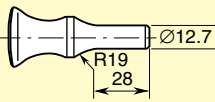
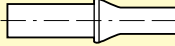
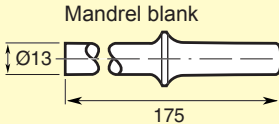
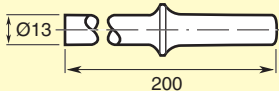
SELECTION GUIDE

Hammer model ^a	Nominal Max. Rivet Diameter Capacity						Bucking bar model required ^b	
	Dural		Steel		Titanium			
	mm	in	mm	in	mm	in		
RRH04	2- 5	3/32 - 3/16	1- 4	3/21 - 5/32			RBB04	RBB10
RRN11	2- 5	3/32 - 3/16	1- 4	3/32 - 5/32				
RRH06	4- 7	5/32 - 1/4	3- 6	1/8 - 1/4	2- 4	3/32 - 5/32	RBB10	RBB16
RRH08	5- 8	3/16 - 5/16	4- 7	5/32 - 1/4	3- 6	1/8 - 1/4	RBB10	RBB16
RRH10	5- 9	3/16 - 3/8	6- 8	1/4 - 5/16	4- 7	5/32 - 1/4	RBB16	
RRH12	8-11		7-10	1/4 - 3/8	6- 9	1/4 - 1/8	RBB16	

^a Hammer capacity depends on direct/indirect riveting as well as Panel density and stiffness.

^b Bucking bar capacity is dependent on dolly weight.

RIVET SETS. RRH and RRN

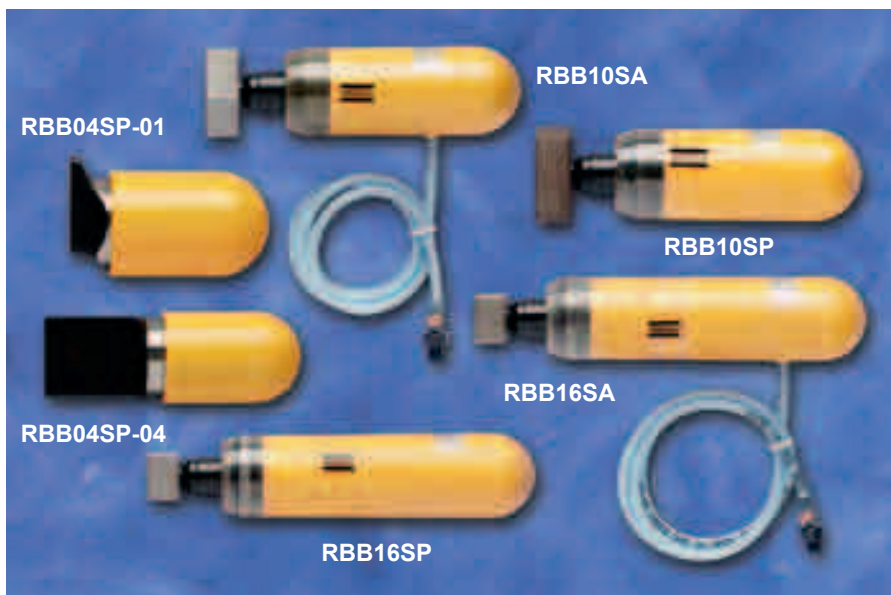
Hammer type	Model	Shank mm		Flush set Ordering No.		Blank rivet set Ordering No.
RRH04P-01 RRN11P-01	(-01)	10.0 spec		3085 0347 00		3006 0983 00
RRH04P-02 RRN11P-02	(-02)	10.2 spec		3085 0352 00		3085 0353 00
RRH04P-12 RRH06P RRH08P RRN18P RRN24P	(-12)	10.2 std		3085 0324 00		3085 0022 00
RRH10P/s RRH12P RRN34P		12.7 std		3085 0323 00		3085 0021 00
RRH04P-12 RRH06P RRH08P		10.2 std				3085 0212 00
RRH010P RRH12P		12.7 std				3085 0212 00

BUCKING BARS

Vibration-damped

An efficient riveting system consists of vibration-damped bucking bars together with vibration-damped riveting hammers.

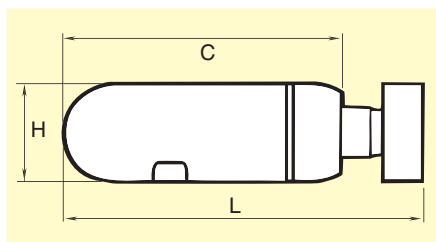
- **Self-adjustable** – RBB10SA and RBB16SA feature a self-adjusting damping system which requires a compressed air supply. RBB04SP, RBB10SP and RBB16SP use a spring as damping element and consequently do not require an air supply.
- **Flexible** – The bucking bars can be fitted with several different interchangeable dolly configurations via a quick change retainer for maximum flexibility.
- **Cramped spaces** – Mini bucking bars RBB04SP are ideal for work in confined spaces. The large mass types -04, -05 will in most applications set the rivet faster than the smaller models.



DIMENSIONS (mm)

Model	L	H	C
RBB10SA/SP	165	49	140
RBB16SA/SP	200	49	198

Dollies other than standard, see page 185.



Model	Weight		Diameter		Air consumption		Ordering No.
	kg	lb	mm	in	l/s	cfm	
Bucking bars with standard dolly^a							
RBB10SA	1.3	2.9	48	2.0	0.5	1.1	8426 9101 77
RBB10SP	1.1	2.4	48	2.0	–	–	8426 9101 74
RBB16SA	1.9	4.2	48	2.0	0.5	1.1	8426 9101 78
RBB16SP	1.7	3.7	48	2.0	–	–	8426 9101 76
Bucking bars without dolly and rod							
RBB10SA-U	1.0	2.2	48	2.0	0.5	1.1	8426 9101 73
RBB10SP-U	0.9	2.0	48	2.0	–	1.1	8426 9101 86
RBB16SA-U	1.7	3.7	48	2.0	0.5	1.1	8426 9101 75
RBB16SP-U	1.5	3.3	48	2.0	–	–	8426 9101 94
Mini bucking bars							
RBB04SP-01	0.8	1.8	46	1.8	–	–	8426 9101 10*
RBB04SP-02	0.8	1.8	46	1.8	–	–	8426 9101 11
RBB04SP-03	0.8	1.8	46	1.8	–	–	8426 9101 12
RBB04SP-04	1.3	2.9	46	1.8	–	–	8426 9101 13*
RBB04SP-05	1.4	3.1	46	1.8	–	–	8426 9101 14

^a Standard dolly assy (3085 0335 93).

* Available directly from stock.

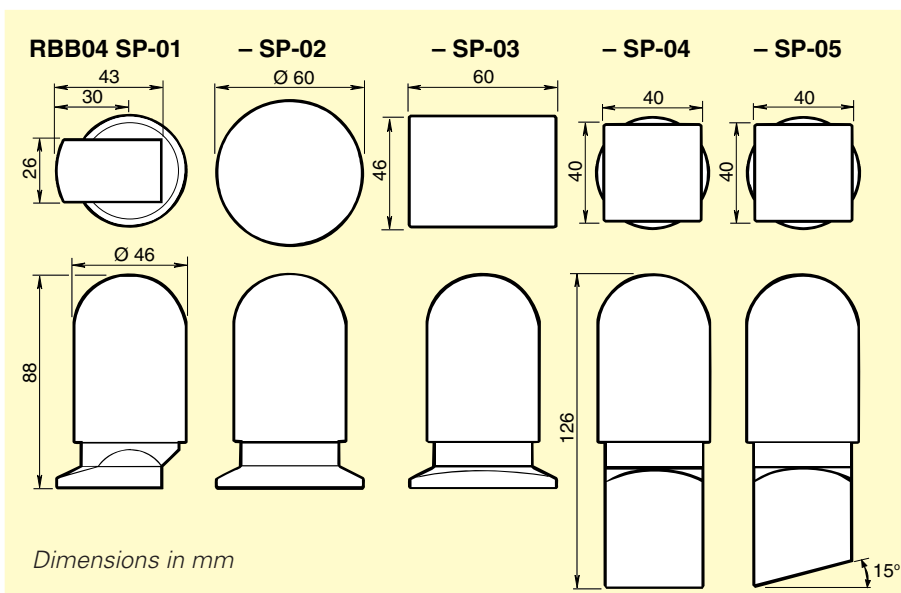
ACCESSORIES INCLUDED

All SA-models Hose and hose fitting
All 10/16 models Plastic cover

OPTIONAL ACCESSORIES

Designation	Ordering No.
Rod 5 mm	3085 0365 03
Rod 50 mm	3085 0365 04
Rod 100 mm	3085 0365 05
Plastic cover for	
RBB10SA	3520 0317 00
RBB10SP	3520 0315 00
RBB16SA	3520 0318 00
RBB16SP	3520 0316 00

Dollies other than standard, see page 185.



Dimensions in mm

ACCESSORIES

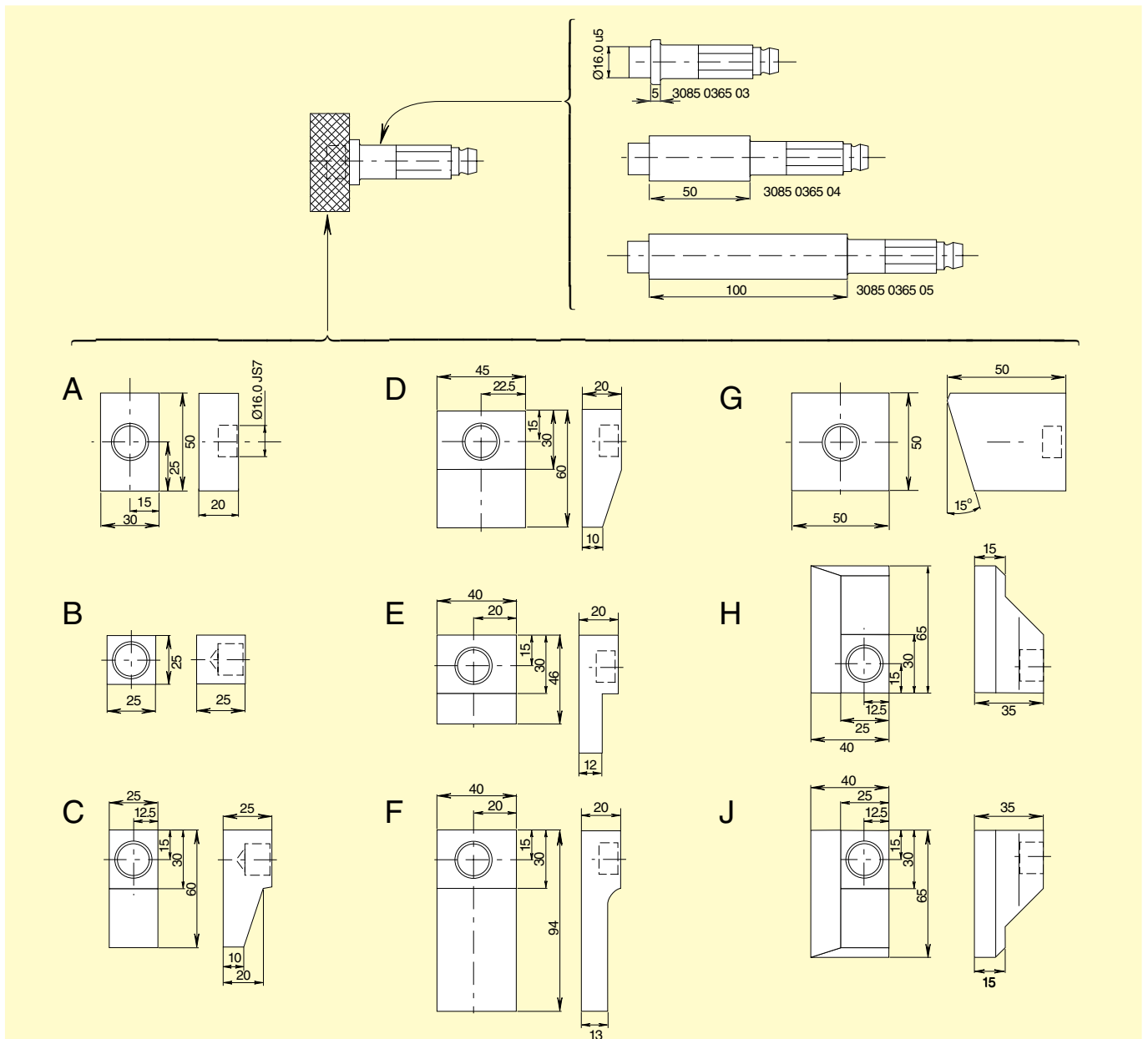
Dollies for RBB10 and RBB16, all models

Dolly type	Weight		Ordering No. With rod 5 mm	Weight		Ordering No. With rod 50 mm	Weight		Ordering No. With rod 100 mm
	kg	lb		kg	lb		kg	lb	
A	0.37	0.8	3085 0335 93 ^a	0.47	1.0	3085 0335 94	0.67	1.5	3085 0335 95
B	0.25	0.55	3085 0363 93	0.35	0.8	3085 0363 94	0.55	1.3	3085 0363 95
C	0.36	0.8	3085 0364 93	0.46	1.0	3085 0364 94	0.66	1.5	3085 0364 95
D	0.43	0.9	3085 0337 93	0.53	1.2	3085 0337 94	0.73	1.6	3085 0337 95
E	0.35	0.8	3085 0339 93	0.45	1.0	3085 0339 94	0.65	1.5	3085 0339 95
F	0.57	1.3	3085 0336 93	0.67	1.5	3085 0336 94	0.87	1.9	3085 0336 95
G	1.00	2.2	3085 0338 93	1.10	2.4	3085 0338 94	1.30	2.9	3085 0338 95
H	0.62	1.4	3085 0340 93	0.72	1.6	3085 0340 94	0.92	2.0	3085 0340 95
J	0.62	1.4	3085 0341 93	0.72	1.6	3085 0341 94	0.92	2.0	3085 0341 95

^a Standard dolly assy.

Other than Atlas Copco's dollies can also be used and press fitted onto a rod. Please see rod (i.e. hole) specification in the below drawing. Custom design dollies are recommended to be manufactured locally and fitted on to Atlas Copco rods.

DIMENSIONAL DRAWING of dollies available



RIVETING HAMMERS

Conventional type

For riveting in confined spaces we recommend our RRN11 riveting hammer.

- **RRN11** – is the smallest riveting hammer available on the market, with unique accessibility.
- **Adjustable** – The RRN11 has a built-in adjustment knob with which you can set the power for different rivet materials and sizes.
- **Controllable** – The trigger is easily operated and provides excellent control.



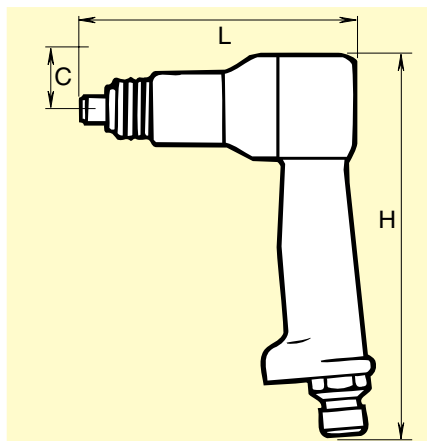
Model	Blows Hz	Nozzle		Piston dia		Stroke		Energy per blow		Weight		Air consumption		Hose size		Air inlet BSP	Ordering No.
		mm	in	mm	in	mm	in	J	ft lb	kg	lb	l/s	cfm	mm	in		
Riveting hammers																	
RRN11P-01	66	10.0	0.4	15	0.6	40	1.6	2.0	1.5	1.2	2.6	3.4	7.2	6.3	1/4	1/8	8426 1101 05*
RRN11P-02	66	10.2	0.4	15	0.6	40	1.6	2.0	1.5	1.2	2.6	3.4	7.2	6.3	1/4	1/8	8426 1101 13*

-01 means 10 mm short shank rivet set.
-02 means 10.2 mm short shank rivet set.

* Available directly from stock.

DIMENSIONS (mm)

Model	L	H	C
RRN11P	100	170	23



ACCESSORIES INCLUDED

- RRN11P**
Hose fitting and retainer
Blank rivet set
Retainers for blank and flush rivet set

OPTIONAL ACCESSORIES

Blank and flush rivet sets, see page 183.