

R32 button cross drill bit and coupling sleeve for drifting

This series of R32 button cross drill bits and coupling sleeves is mainly used for top hammer drilling operations, typically in combination with hydraulic rock drills. The top hammer drill bits are connected to the drill rod via threads to perform drilling work.

Product Overview

This page mainly introduces the R32 threaded button bit, R32 threaded cross bit, and coupling sleeve, which are widely used in tunneling jumbo drilling tools.

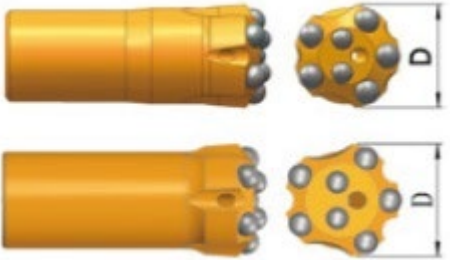
Technical Specifications of the R32 Threaded Button Bit

- **Connection thread:** R32
- **Head material:** Tungsten carbide
- **Bit body material:** High-strength alloy steel
- **Flushing grooves:** Distributed along the bit for cuttings removal and cooling
- **Head design:** Spherical buttons
- **Diameter:** 43 mm, 45 mm, 51 mm, etc.




- **Gauge button angle:** 30 degrees and 35 degrees
- **Gauge buttons:** 5 x 10 mm, 6 x 10 mm, etc.
- **Center buttons:** 2 x 9 mm, 2 x 10 mm, etc.
- **Weight:** 0.6 kg to 1.0 kg
- **Head manufacturing process:** Hot-mounting technique
- **Other manufacturing processes:** Full carburizing heat treatment, high-frequency treatment, and phosphating treatment

Thread bit, Button	D (mm)	D (inch)	Buttons Gauge	Buttons Centre	Gauge button angle	Thread	Order number	Weight (kg)
Button	43	1 11/16	5 x 10 mm	2 x 9 mm	30 degree	R32	B173- 4307- 5403	0.6


Thread bit, Button	D (mm)	D (inch)	Buttons Gauge	Buttons Centre	Gauge button angle	Thread	Order number	Weight (kg)
	45	1 3/4	5 x 11 mm	2 x 9 mm	30 degree	R32	B173- 4507- 5403	0.7
	48	1 7/8	5 x 11 mm	2 x 9 mm	35 degree	R32	B173- 4807- 5405	0.8

Thread bit, Button	D (mm)	D (inch)	Buttons Gauge	Buttons Centre	Gauge button angle	Thread	Order number	Weight (kg)
	51	2	5 x 11 mm	2 x 10 mm	35 degree	R32	B173- 5107- 5405	1.2
	45	1 3/4	5 x 11 mm	2 x 9 mm	30 degree	R32	B173- 4507- 5463	0.7


Thread bit, Button	D (mm)	D (inch)	Buttons Gauge	Buttons Centre	Gauge button angle	Thread	Order number	Weight (kg)
	48	1 7/8	5 x 11 mm	2 x 9 mm	35 degree	R32	B173- 4807- 5465	0.8
	51	2	5 x 11 mm	2 x 10 mm	35 degree	R32	B173- 5107- 5465	1.2

Thread bit, Button	D (mm)	D (inch)	Buttons Gauge	Buttons Centre	Gauge button angle	Thread	Order number	Weight (kg)
Button 	45	1 3/4	6 x 10 mm	2 x 9 mm	35 degree	R32	B173- 4508- 5405	0.7
	48	1 7/8	6 x 10 mm	2 x 9 mm	40 degree	R32	B173- 4808- 5404	0.8

Thread bit, Button	D (mm)	D (inch)	Buttons Gauge	Buttons Centre	Gauge button angle	Thread	Order number	Weight (kg)
	51	2	6 x 11 mm	2 x 10 mm	40 degree	R32	B173- 5108- 5404	1.2
Button	43	1 11/16	6 x 10 mm	3 x 8 mm	30 degree	R32	B173- 4309- 5403	0.6

Thread bit, Button	D (mm)	D (inch)	Buttons Gauge	Buttons Centre	Gauge button angle	Thread	Order number	Weight (kg)
	45	1 3/4	6 x 10 mm	3 x 9 mm	30 degree	R32	B173- 4509- 5403	0.7
	48	1 7/8	6 x 10 mm	3 x 9 mm	35 degree	R32	B173- 4809- 5405	0.8

Thread bit, Button	D (mm)	D (inch)	Buttons Gauge	Buttons Centre	Gauge button angle	Thread	Order number	Weight (kg)
	51	2	6 x 11 mm	3 x 9 mm	35 degree	R32	B173- 5109- 5405	1.0
Button	48	1 7/8	6 x 10 mm	3 x 9 mm	30 degree	R32	B173- 4809- 5463	0.8

Thread bit, Button	D (mm)	D (inch)	Buttons Gauge	Buttons Centre	Gauge button angle	Thread	Order number	Weight (kg)
	51	2	6 x 10 mm	3 x 9 mm	35 degree	R32	B173- 5109- 5465	1.0

Technical Specifications of the R32 Threaded Cross Drill Bit

- **Connection thread:** R32
- **Head material:** Embedded tungsten carbide buttons
- **Bit body material:** High-strength alloy steel
- **Flushing grooves:** Distributed along the bit for the removal of waste cuttings and fluids, cooling medium
- **Head design:** Cross type
- **HxT:** 12 x 8 mm, 16 x 10 mm

Thread bit, Insert	D (mm)	D (inch)	Insert H x T	Thread	Order number	Weight (kg)
Cross 	43	1 11/16	12 x 8 mm	R32	B158-4312-5410	0.8
	45	1 3/4	12 x 8 mm	R32	B158-4512-5410	0.9
	48	1 7/8	12 x 8 mm	R32	B158-4812-5410	0.9

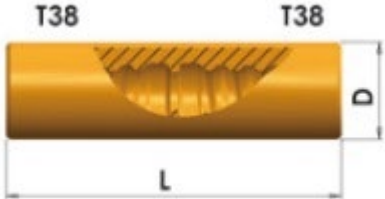
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Thread bit, Insert	D (mm)	D (inch)	Insert H x T	Thread	Order number	Weight (kg)
	51	2	16 x 10 mm	R32	B158-5116-5410	1.1

- **Diameter:** 43 mm, 51 mm, etc.
- **Weight:** 0.8 kg to 1.1 kg

Technical Specifications of the Coupling Sleeve

- **Type:** Middle stop
- **Thread connection:** T38 and R38
- **Length:** 170 mm and 190 mm
- **Diameter:** 55 mm
- **Material:** Forged high-strength alloy steel
- **Manufacturing process:** Full carburizing heat treatment
- **Weight:** 1.8 kg and 2.0 kg

Coupling sleeve	L (mm)	L (inch)	D (mm)	D (inch)	Thread	Order number	Weight (kg)
Middle stop	170	6 11/16	55	2 5/32	R38	B302-5517-5656	1.8
	190	7 1/2	55	2 5/32	T38	B302-5519-7676	2.0