

4B GROUP



ELEVATOR BOLTS

A Worldwide Manufacturer of
High Quality, Technologically Advanced
Material Handling & Electronic Components



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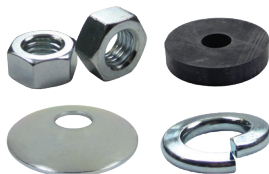
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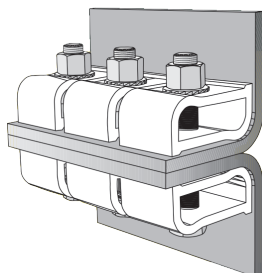
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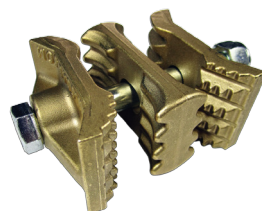
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Free Technical Support and Engineering Design Service - contact 4B or visit: www.go4b.com

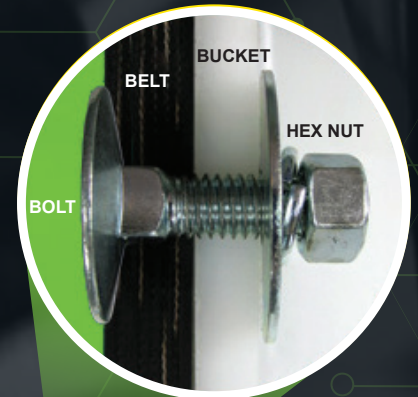


LEADING THE FIELD IN ELEVATOR BOLT DESIGN & MANUFACTURE

4B is the only original manufacturer of the most well known elevator bolt types - Reference 70™ Bolts, Euro Bolts, Fang Bolts, Easifit Bolts, Large Oval Washers. The internationally proven range of 4B elevator bolts for materials handling applications offers benefits including safety, durability, damage reduction and ease of use.

**WITH OVER 12 MILLION BOLTS PRODUCED
PER ANNUM, 4B IS THE WORLD'S LEADING
MANUFACTURER OF ELEVATOR BOLTS.**

**4B HAS LARGE NUMBER OF ELEVATOR
BOLTS AVAILABLE IN STOCK FOR
IMMEDIATE SHIPMENT.**



COLD FORGED FOR THE HIGHEST QUALITY

EURO BOLTS

STEEL / STAINLESS STEEL



- Manufactured to approx. DIN15237
- ISO grade 5.8 (exceeds DIN15237)
- Large bolt head diameter
- Fully threaded
- Available as zinc plated, self-colour or stainless

- Alternative choice of packings:
 - Bolt, hex nut & domed washer boxed/100
 - Bolt only, bulk packed in bags
- Bolt torque rating dependent on bucket & belt size



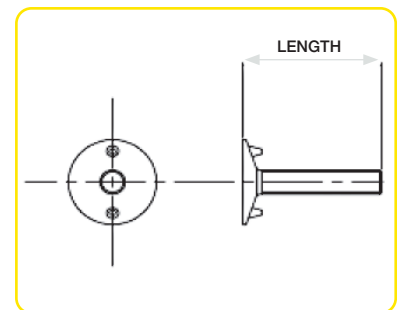
For steel buckets with recessed holes use:
Bolt, hexagon nut and large domed washer.



For steel buckets with flat holes use:
Bolt, hexagon nut and small flat washer.



For plastic buckets use:
Bolt, hexagon nut and large flat washer.



Bolt, hex nut, small washer (boxed/100) - weight Kg/100

REF.	HEAD Ø (mm)	MAX. BOLT TORQUE (Nm)	BOLT LENGTH (measured overall)									
			20 (mm)	22 (mm)	25 (mm)	30 (mm)	35 (mm)	40 (mm)	45 (mm)	50 (mm)	60 (mm)	70 (mm)
M6 ¹⁾	21	8	1.28	-	1.38	1.50	-	-	-	-	-	-
M7	23	13	1.82	1.94	2.10	2.16	2.22	-	-	-	-	-
M8	28 / 27 ²⁾	20	2.98	2.00	3.00	3.02	3.37	3.72	3.88	3.94	-	-
M10	35 / 31 ²⁾	36	-	-	5.42	5.43	5.44	5.84	6.02	6.18	-	-
M12 ¹⁾	42	65	-	-	-	-	-	9.24	-	4.96*	5.36*	5.60*

1) Not available in stainless steel

2) Stainless steel

* Weight Kg/50

Bolts Only (bulk packet) - weight Kg/packet

REF.	BOLT LENGTH (measured overall)										Qty
	20 (mm)	22 (mm)	25 (mm)	30 (mm)	35 (mm)	40 (mm)	45 (mm)	50 (mm)	60 (mm)	70 (mm)	
M6 ¹⁾	19.4	-	20.8	21.4	-	-	-	-	-	-	2000
M7	20.1	21.3	22	24.2	17.5*	-	-	-	-	-	1500
M8	10.1	11.1	11.3	12.3	13	13.7	14.3	14.9	-	-	500
M10	-	-	18.8	20	21	22.3	23.7	12.6**	-	-	500
M12 ¹⁾	-	-	-	-	15.9	16.7	17.7	18.7	20.8	23.2	250

1) Not available in stainless steel

* Packed in 1000's / ** Packed in 250's

REFERENCE 70 (REF 70)

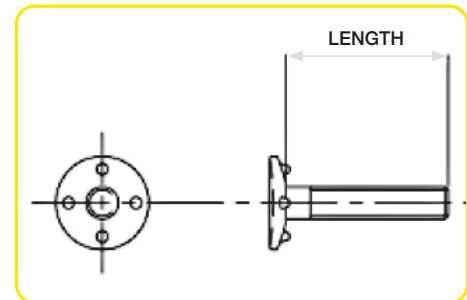


STEEL / STAINLESS STEEL



- Steel – ISO grade 5.8 (exceeds DIN 15237)
- Concave head with 4 lugs on the underside to prevent rotation when tightening
- Hexagon nut and small flat washer included

- Available in Whitworth thread or metric thread
- Zinc plated (self colour on special request)
- Bolt torque rating dependent on bucket & belt size



REF.	HEAD Ø (mm)	MAX. BOLT TORQUE (Nm)	BOLT LENGTH (measured from under the bolt head) Kg/100								
			1/2" 12 (mm)	3/4" 20 (mm)	1" 25 (mm)	1 1/4" 30 (mm)	1 1/2" 40 (mm)	13/4" 45 (mm)	2" 50 (mm)	2 1/4" 55 (mm)	2 1/2" 65 (mm)
1/4" BSW M6	17	5	1.04	1.18	1.24	1.48	1.56	-	-	-	-
5/16" BSW M8	23	10	-	2.08	2.38*	2.54*	2.90*	-	3.24	-	-
3/8" BSW M10	27	18	-	-	3.94	4.44*	4.80*	5.08*	5.36*	5.50	5.72
1/2" BSW M12	35	42	-	-	-	7.44	7.78	8.12	8.44	9.08	-

* Available in stainless steel

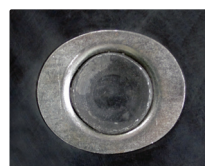


ACCESSORY - 4B LARGE OVAL WASHER

REF.	Ø	(mm)	Kg/100
LOW1	1/4" M6	33/45	1.44
LOW2	5/16" M8*	37/50	2.22
LOW3	3/8" M10*	45/57	2.90
LOW4	1/2" M12*	53/63	3.94

ZINC-PLATED STEEL/STAINLESS STEEL

- Use with Ref 70™ bolts in heavy duty applications
- Locates over 4 lugs on bolt head, increasing effective bolt head size and bolt holding
- Belt must be thick enough to absorb the washer and / or the bucket belt holes should be recessed
- Not recommended on pulley diameters of less than 20" (500mm)
- Fit the longest part of the oval across the belt width



NOTE: Bolt head and oval washer installed behind belt as shown

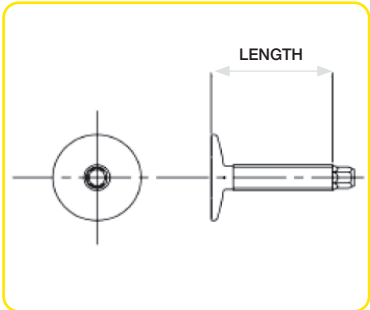
* Available in stainless steel

EASIFIT BOLTS

STEEL / STAINLESS STEEL



- Supplied with small washer and nylon insert locknut
- Shank formed with hexagon tip. Special tool grips this hexagon, stopping bolt rotation while simultaneously driving the self-locking nut on (or off) in one easy operation
- Speeds fitting and removal of bolts
- Improves elevator safety
- Reduces belt damage caused by standard bolts
- UNF thread
- Bolt torque rating dependent on bucket & belt size



			BOLT LENGTH (measured from top of the head to end of the thread) Kg/100					
REF.	HEAD Ø (mm)	MAX. BOLT TORQUE (Nm)	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"
1/4" UNF	25	12	1.82	1.88*	2.04	-	-	-
5/16" UNF	30	25	2.84*	3.02*	3.24	3.48	3.68	-
3/8" UNF	32	46	-	4.56	4.70*	5.10*	5.50	5.90

Standard zinc plated, self colour and stainless options on request - Stainless bolts are "special". Please check stock and delivery situation before ordering.

Easifit elevator bolts require a specialized ratchet. The ratchet has been designed to grip the hexagon tip, holding the bolt in place while the nut is tightened. The ratchet is available in either a standard hand model or in a pneumatic air version.



Easifit Installation
Video & Pneumatic
Ratchet Demo

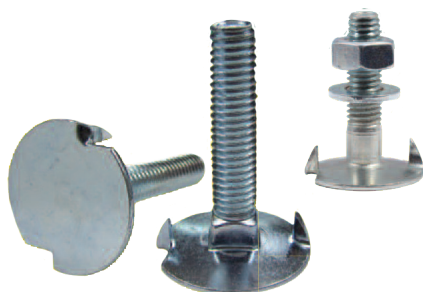
Scan the QR Code



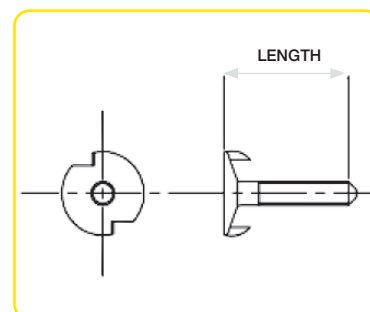
FANG BOLTS



STEEL



- Unique Design – fangs bite into belt, locking bolt in place while nut is tightened
- Eases fitting and removal of nut
- Large bolt head diameter = maximum resistance to pull through
- Flat bolt head – pulls fully flush into belt - reduces risk of rip out of bolt due to head protruding from back of belt
- Suitable for recessed or non recessed bolt holes
- Ideal for CC-S buckets
- Bolt torque rating dependent on bucket & belt size



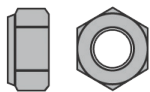
REF.	HEAD Ø (mm)	MAX. BOLT TORQUE (Nm)	BOLT LENGTH (measured overall) Kg/100						
			20 (mm)	25 (mm)	30 (mm)	35 (mm)	40 (mm)	45 (mm)	80 (mm)
M6	25	11	1.56	1.82	-	-	-	-	-
M8	30	27	-	2.76	2.02	-	3.24	-	-
M10	27	47	-	-	4.90	5.12	5.34	5.56	-

Standard zinc plated, self colour on request



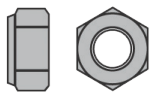
BOLTS ACCESSORIES

**METRIC NYLON INSERT
SELF LOCKING NUT
(DIN 985)**



Ref.	Ø	Kg/100
NY06	M6	0.15
NY07	M7	0.20
NY08	M8	0.48
NY10	M10	1.10
NY12	M12	1.50

**BSW NYLON INSERT
SELF LOCKING NUT
(P-TYPE)**



Ref.	Ø	Kg/100
NY1	1/4"	0.44
NY2	5/16"	0.76
NY3	3/8"	0.97
NY4	1/2"	2.72

**HEXAGON LOCKNUTS
(HALF NUTS)**



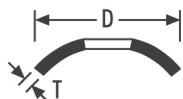
Ref.	Ø	Kg/100
HN2	5/16" BSW	0.34
HN3	3/8" BSW	0.54
HNM8	M8	0.48
HNM10	M10	0.90

EASIFIT HAND TOOL



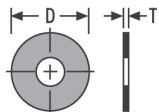
Ref.	Ø
EFHT1	1/4"
EFHT2	5/16"
EFHT3	3/8"

**DOMED WASHER THIN
(NOT DIN) STAINLESS
STEEL 304 ONLY**



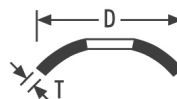
Ref.	Ø	D	T	Kg/100
DW06 304S	M6	25	1.0	0.45
DW08 304S	M8	32	1.0	0.65
DW10 304S	M10	40	1.0	1.50

**STAINLESS FENDER/
REPAIR WASHER (MUD-
GUARD WASHER)**



Ref.	Ø	D	T	Kg/100
FW1S	M6	25	1.5	0.50
FW2S	M8	30	1.5	0.70
FW3S	M10	30	1.5	0.92

**DOMED WASHER DIN
15237 MILD STEEL**



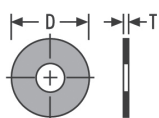
Ref.	Ø	D	T	Kg/100
DW06	M6/M7	25	1.5	0.60
DW08	M8	32	1.5	0.90
DW10	M10	40	2.0	1.80
DW12	M12	50	2.0	2.70

EASIFIT AIR TOOL



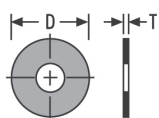
Ref.	Ø
EFAT1	1/4"
EFAT2	5/16"
EFAT3	3/8"
EFAT4	1/2"

RUBBER WASHER



Ref.	Ø	D	T	Kg/100
RW2	M8	25	5	0.18
RW3	M10	30	5	0.28

**STEEL FENDER/REPAIR
WASHER (MUDGUARD
WASHER)**



Ref.	Ø	D	T	Kg/100
FW1	M6	25	1.5	0.35
FW2	M8	25	1.5	0.81
FW3	M10	30	1.5	0.79
FW4	M12	38	1.5	1.24

**SINGLE COIL
SPRING WASHER**



Ref.	Ø	Kg/100
SP1	M8 / 5/16"	0.02
SP2	M10 / 3/8"	0.04

**SHAKE PROOF LOCK
WASHER**



Ref.	Ø	Kg/100
SHM1	M6	0.02
SHM2	M8	0.03
SHM3	M10	0.04



BELT FASTENERS

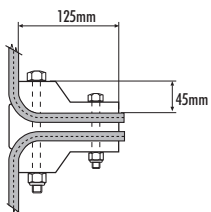
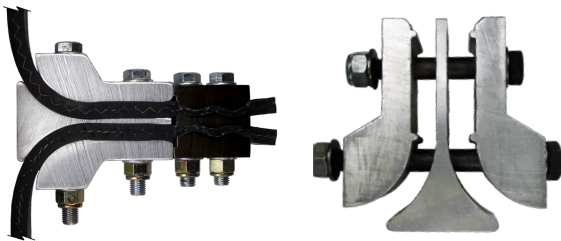


4B BC CLAMP

The **Braime Clamp (BC)** series of heavy-duty belt splices securely fastens belting on larger bucket elevators. As the originator of this proven style of belt clamp, 4B designed it from three pieces of extruded aluminium including a center wedge section to minimize belt wear.

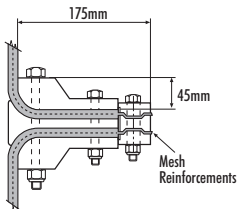
The BC1 and BC2 can be used on textile belts. All BC Clamps can be used on steel web belting.

The BC2, BC3 and BC4 versions incorporate an additional three piece machined steel vise grip section designed to ride above the aluminium base clamp and secure the steel cords within a steel web belt.



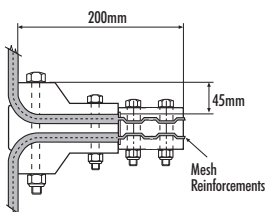
BC1*

- Belt Strength - 1,400 kN/m
- Weight - 31.6 Kgs/m
- Size - Bolt M16



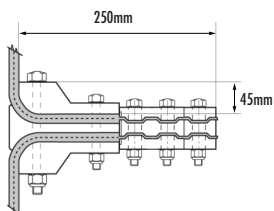
BC2

- Belt Strength - 1,600 kN/m
- Weight - 56.5 Kgs/m
- Size - Bolt M16



BC3

- Belt Strength - 2000 kN/m
- Weight - 71 Kgs/m
- Size - Bolt M16



BC4

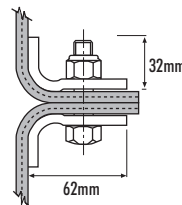
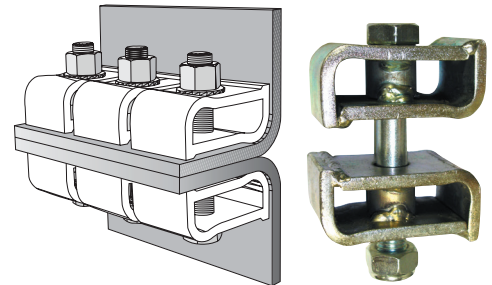
- Belt Strength - 2,500 kN/m
- Weight - 96 Kgs/m
- Size - Bolt M16

*For textile belts, use only BC1.

4B SUPERGRIP SYSTEM

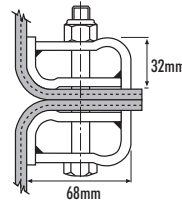
- Easy to fit modular system of 50mm segments
- 4 versions available for belts up to 1250 kN/m without thickness limitation
- Each assembly comprises 2 half joints, high tensile bolt & self-locking nut
- With standard nylon nuts - max temp. 80° C, for temp. 80° C+ specify Philidas nuts
- Available in stainless steel

Example of joint using 3 Supergrips on a belt of 150 to 195mm wide.
25mm minimum belt projection for all sizes.



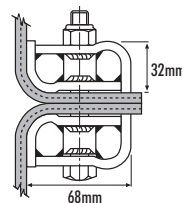
SUPERGRIP NO.1

- Belt Strength - 500kN/m max.
- Weight - 0.5Kgs
- M14 Bolts



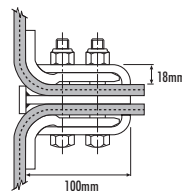
SUPERGRIP NO.2

- Belt Strength - 630kN/m max.
- Weight - 0.8Kgs
- M14 Bolts



SUPERGRIP NO.3

- Belt Strength - 800kN/m max.
- Weight - 0.85Kgs
- M14 Bolts



SUPERGRIP NO.4

- Belt Strength - 1000 & 1250kN/m max.
- Weight - 1.83Kgs
- M16 Bolts

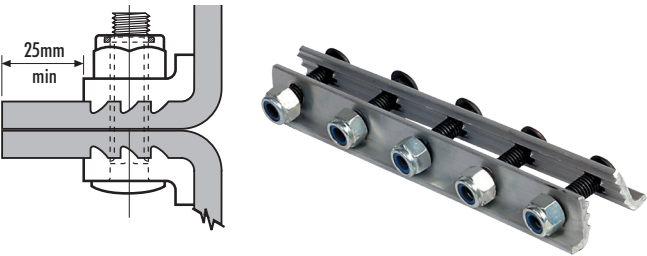
Bespoke belt clamps available for belts over 1250kN/m. Contact 4B's technical department.

BELT FASTENERS

4B GRIPWELL

LIGHT DUTY FASTENER

- For elevator belts up to 630 kN/m and up to 7.0mm max. thickness
- Vise grip between serrated jaws
- For longer joints use 2 fasteners of equal length per joint. e.g. 2 x 150mm Gripwell fasteners for a 300mm wide belt

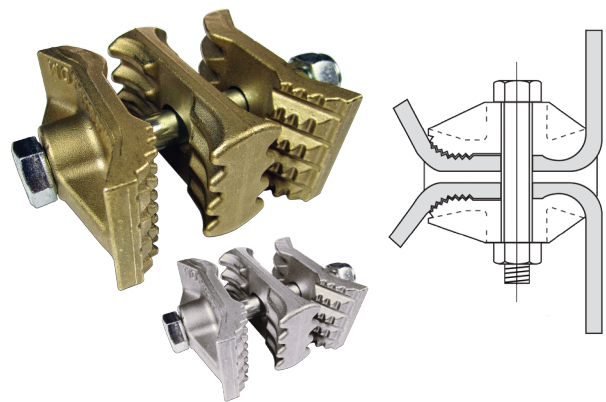


Belt Width (mm)	Actual Length (mm)	Bolt Holes (mm)	ø (mm)	Centres (mm)
50	45	2	8.0	25
65	57	2	8.0	33
75	70	2	8.0	43
90	83	3	8.0	2x28
100	96	3	8.0	2.33
115	109	3	8.0	2x42
125	122	4	8.0	3x32
140	134	4	8.0	3x36
150	147	4	8.0	3x40
165	160	5	8.0	4x33
175	172	5	8.0	4x36
200	198	6	8.0	5x34
225	223	6	8.0	5x40
250	248	7	8.0	6x37
275	273	7	8.0	6x41
300	299	8	8.0	7x39

4B VISE SPLICE

4B Vise Splices are mechanical splices for use on most PVC and rubber elevator belts. Each splice unit is made of three pieces. The outside plates have two different gripping areas. The ribbed gripping area is mounted towards the face of the belt. The opposite end has a series of both longitudinal and axial teeth. The center plate is symmetrical and cannot be improperly installed around its elongated center hole.

The splice functions by using the tension supplied by the belting. This tension on the belt ends pulls the outer plates apart, and forces gripping pressure towards the teeth on the splice unit. The greater the belt tension, the more pressure is exerted on the gripping teeth at the forward end of the splice.



Features

- For belts 1000 to 1400 kN/m tensile strength
- Use on PVC and rubber belting
- Non-sparking (non-ferrous version)
- Each splice accommodates 50mm of belt width

Non-ferrous

- Non-ferrous metal (bronze colour)
- For belts of up to 1400 kN/m tensile strength
- Non-sparking, non-corroding and non-rusting
- 1.33 kgs
- Up to 260°C

Ferrous

- Ferrous metal (silver colour)
- For belts of up to 1000 kN/m tensile strength
- 1.18 kgs
- Up to 315°C



 **ELEVATOR
BOLT
PRODUCTION**



A Worldwide Manufacturer

4B catalogues also available:

- Electronics
- Elevator Buckets
- Elevator Belting
- Forged Chains



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