

Forged Chains & Sprockets

for the toughest applications



www.go4b.com

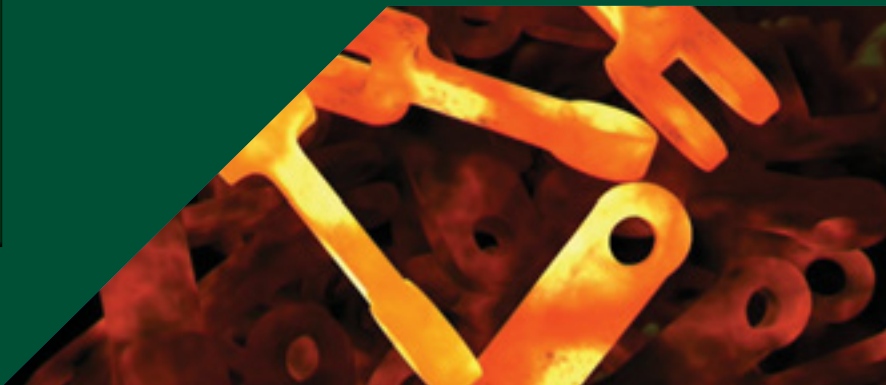
Forged Chain Links & Pins

Bolt 'n' Go Chain & Flight System

Sprockets

Trailers

Accessories



BETTER BY DESIGN

DROP FORGED CHAIN



www.go4b.com

Standard Link



4B's drop forged chain is made of special heat treated alloy steel, case hardened to Rockwell C57 - C62 with a ductile core hardness of Rockwell C40.

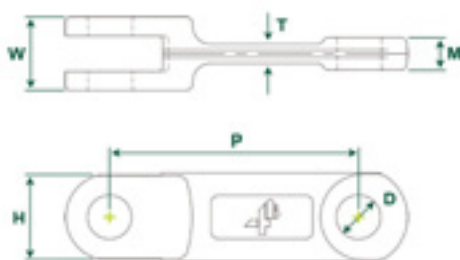
4B's superior heat treatment technique provides the optimum chain link with a more resilient ductile core for shock resistance, and an extremely hard exterior surface for superior wear resistance.

4B's drop forged chain is backed by an international network of companies with over 120 years of experience, and a global team of engineers and sales professionals that can provide you with practical solutions for all your material handling applications.

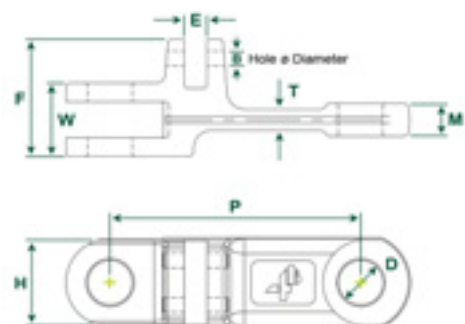


Chain Link	4B102NA	4B125NA	4B142NA	4B142HA	4B150NA	4B160NA	4B175NA	4B200NA	4B216NA	4B250NA	4B260NA
Minimum Breaking Load	180 kN 40,400 lb	200 kN 44,900 lb	300 kN 67,500 lb	450 kN 101,000 lb	300 kN 67,500 lb	350 kN 78,700 lb	520 kN 117,500 lb	600 kN 135,000 lb	600 kN 135,000 lb	700 kN 158,000 lb	700 kN 158,000 lb
Case Hardness	Rockwell C57-C62	Rockwell C57-C62	Rockwell C57-C62	Rockwell C57-C62	Rockwell C57-C62	Rockwell C57-C62	Rockwell C57-C62	Rockwell C57-C62	Rockwell C57-C62	Rockwell C57-C62	Rockwell C57-C62
Case Depth	0.5 mm	0.6 mm	0.7 mm	0.7 mm	0.7 mm	0.8 mm	1.0 mm	1.0 mm	1.0 mm	1.0 mm	1.0 mm
Core Hardness	Rockwell C40	Rockwell C40	Rockwell C40	Rockwell C40	Rockwell C40	Rockwell C40	Rockwell C40	Rockwell C40	Rockwell C40	Rockwell C40	Rockwell C40
Weight (Per Link)	0.38 kg	0.70 kg	1.08 kg	1.76 kg	1.20 kg	1.30 kg	2.73 kg	2.85 kg	3.66 kg	4.26 kg	5.38 kg
Bolt 'N' Go Compatible	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No
Dimensions											
P	102 mm	125 mm	142 mm	142 mm	150 mm	160 mm	175 mm	200 mm	216 mm	250 mm	260 mm
H	36 mm	35 mm	50 mm	50 mm	49 mm	44.5 mm	60 mm	60 mm	75 mm	75 mm	75 mm
T	7 mm	10 mm	12 mm	16.5 mm	13 mm	13 mm	16 mm	18 mm	19 mm	18 mm	21 mm
W	28 mm	36 mm	42 mm	62 mm	36 mm	42 mm	72 mm	68 mm	59 mm	70 mm	71 mm
M	12 mm	15 mm	18.7 mm	28.5 mm	15 mm	19.5 mm	22 mm	30 mm	26 mm	32 mm	31 mm
D	14 mm	16 mm	25 mm	25 mm	25 mm	20 mm	30 mm	30 mm	35 mm	32 mm	32 mm
F	—	—	—	—	—	—	—	—	—	—	—
E	—	—	—	—	—	—	—	—	—	—	—
B	—	—	—	—	—	—	—	—	—	—	—

Links and pins are available in all grades of stainless steel



Standard Link



Double Link

DOUBLE & TRIPLE LINKS

Double Link



Triple Link



Triple Configuration



4B's double and triple links are forged with the same quality, strength and durability as our standard links.

Widths to 3.7m

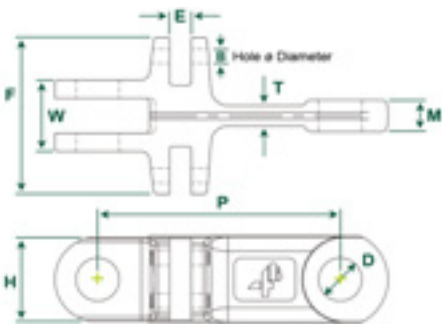


4B142DNA | 4B142DHA | 4B142TNA | 4B142THA | 4B175DNA

300 kN 67,500 lb	450 kN 101,000 lb	300 kN 67,500 lb	450 kN 101,500 lb	520 kN 117,500 lb
Rockwell C57-C62	Rockwell C57-C62	Rockwell C57-C62	Rockwell C57-C62	Rockwell C57-C62
0.7 mm	0.7 mm	0.7 mm	0.7 mm	1.0 mm
Rockwell C40	Rockwell C40	Rockwell C40	Rockwell C40	Rockwell C40
1.37 kg	2.00 kg	1.67 kg	2.32 kg	3.17 kg
No	No	No	No	No

Dimensions

142 mm	142 mm	142 mm	142 mm	175 mm
50 mm	50 mm	50 mm	49 mm	60 mm
12 mm	16 mm	12 mm	16 mm	16 mm
42 mm	62 mm	42 mm	62 mm	72 mm
18.7 mm	28 mm	18.7 mm	28.5 mm	22 mm
25 mm	25 mm	25 mm	25 mm	30 mm
67 mm	87 mm	92 mm	112 mm	96 mm
13 mm	13 mm	13 mm	13 mm	17 mm
8.5 mm	8.5 mm	8.5 mm	8.5 mm	10.5 mm



Triple Link

WELDED FLIGHTS & PINS



www.go4b.com

FREE Engineering Design Service
- Contact 4B

TYPICAL WELDED FLIGHT ATTACHMENTS



Square Bar Flight



Flat Bar Flight



Paddle Flight



U Flight



Closed U Flight



Closed U Flight with Filler Plates



00 Flight



00 Flight with Filler Plates



Return Cups

Note:
Custom flights are available, based on customer specifications.

STANDARD PIN OPTIONS

Note: Clamps, roll pins, hex bolts and lock nuts must not be re-used. Install one time and discard after use.



Forged Head Pin,
Collar and Roll Pin

Forged Head Pin and
One Clamp

Plain Pin and Two
Clamps

Bolt 'N' Go Hollow Pin,
Bolt, Washers and Nut

BOLT 'N' GO™



www.go4b.com

Forged Chain

The Bolt 'N' Go flight system is a revolutionary assembly method for drop forged chain. Link and flight assembly is made easy by using a standard bolt and mechanical lock nut with a high strength, heat treated hollow pin. There are no circlips and no intricate assembly is required. There is no welding of flights, no need to remove chain from the conveyor for installation, and no issues with strength. Just bolt the links and the flights together. It's easy, simple and reliable!

USA Pat. 7,080,728
Canadian Pat. 2,548,660
Mexican Pat. 272,056
Other Patents Pending



Bolt 'N' Go Link



Product Videos –
www.go4b.co.uk/uk/chains-and-sprockets.asp

Bolt 'N' Go System



Detailed View of Bolt 'N' Go
Showing Assembly Method

BOLT 'N' GO™

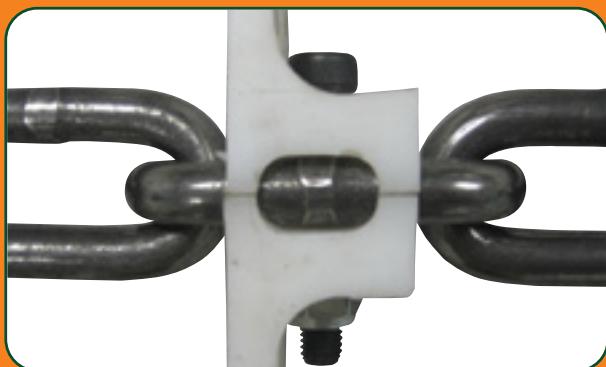
Round Link Chain

Easy flight assembly by using a standard bolt and nut, connecting the flights directly to the link. The chain can be supplied in a coil together with the bolt-on flights already assembled.



Round Link Chain with Bolt 'n' Go Flights

Bolt 'N' Go - Round Link Chain
Size 13 x 65mm



FREE Engineering Design Service - Contact 4B

ACCESSORIES

For more details please visit
www.go4b.com



NYLON FLIGHTS FOR SCRAPER CHAINS



'L' Shape with 1
fixing hole



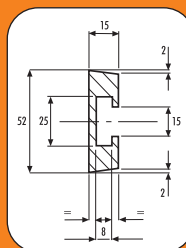
'L' Shape with 2
fixing holes



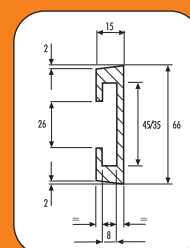
'T' Shape with 2
fixing holes

- Easy to install or replace, cutting down installation and maintenance costs
- Eliminates the need for a bottom liner in the conveyor
- Reduces conveyor noise.

NYLON FLIGHT SLEEVES FOR 102 NA CHAIN and 142 NA CHAIN



102 NA



142 NA



ROUND LINK CHAIN



ON DEMAND
Separate datasheets available

MISCELLANEOUS CONVEYOR CHAIN



ON DEMAND
Separate datasheets available

SPROCKETS



www.go4b.com



4B sprockets and trailers are manufactured from high grade heat treated steel to a minimum hardness of 57 HRC. Each piece is machined to size with appropriate bore and keyway specific to each customer's application. Most sizes are in stock and ready to ship from 4B's extensive inventory.

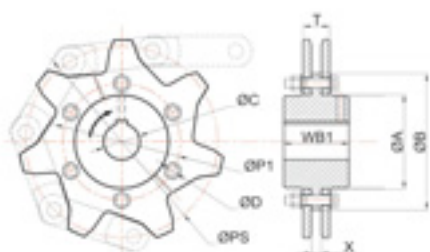
SPROCKETS

Chain Link

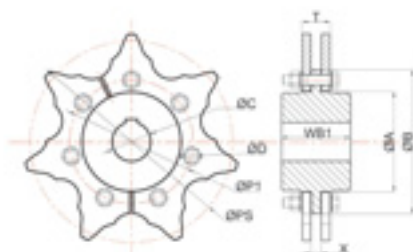
No. of Teeth	ØPS (mm)	ØP1 (mm)	ØA (mm)	ØB (mm)	ØC (mm) Max.	ØD (mm)	N No. of Holes	T (mm)	X (mm)	WB1 (mm)
--------------	----------	----------	---------	---------	--------------	---------	----------------	--------	--------	----------

4B102NA	6	204.0	—	105.0	135.0	70	—	—	30	10	83
	7	235.1	146.0	108.0	173.0	70	M12	6	30	10	83
	8	266.5	170.0	144.0	196.0	85	M12	6	30	10	83
	9	298.2	200.0	174.0	232.0	105	M12	6	30	10	83
	10	330.1	241.3	179.0	264.0	105	M12	8	30	10	83
4B142NA	6	284.0	168.3	136.5	190.5	85	M12	6	46	16	112
	7	327.3	200.0	162.0	234.0	105	M16	6	46	16	112
	8	371.1	241.3	187.3	282.0	115	M20	8	46	16	127
	9	415.2	285.8	240.0	330.0	150	M20	8	46	16	127
	10	459.5	285.8	240.0	330.0	150	M20	8	46	16	127
	11	504.0	368.3	310.0	419.0	170	M20	8	46	16	150
	12	548.6	415.0	345.0	465.0	170	M20	8	46	16	150
	13	593.4	470.0	380.0	521.0	170	M20	8	46	16	150
	14	638.1	470.0	380.0	546.0	170	M20	10	46	16	150
4B142HA	7	327.3	200.0	162.0	234.0	105	M16	6	69	19	127
	8	371.1	241.3	187.3	282.0	115	M20	8	69	19	150
	9	415.2	285.8	240.0	330.0	150	M20	8	69	19	150
	10	495.5	285.8	240.0	330.0	150	M20	8	69	19	150
	11	504.0	368.3	310.0	419.0	170	M20	8	69	19	150
	12	548.6	415.0	345.0	465.0	170	M20	8	69	19	150
	13	593.4	470.0	380.0	520.0	170	M20	8	69	19	180
	14	638.1	470.0	380.0	546.0	170	M20	10	69	19	180

Standard Sprocket (Shown with Hub)



Wear Reversible Sprocket (Shown with Hub)



Sprocket and Trailer Inventory



TRAILERS



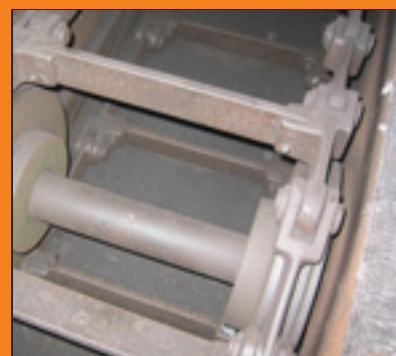
www.go4b.com



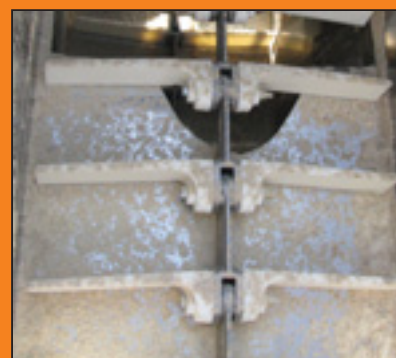
FREE
Engineering Design Service
- Contact 4B

NOW AVAILABLE
Segmental Star and Self
Cleaning Trailers

APPLICATION PHOTOS



Typical Double Strand Chain
Application



Feed Mill Application using
Bolt 'N' Go Chain with Nylon Flights



UHMW Paddles on "T" Plate Flights –
Drive End



UHMW Paddles & Return Buckets –
Tail End

TRAILERS

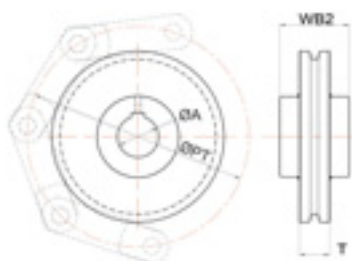
Chain Link	Max Shaft Dia. ØA (mm)	Pitch Circle Dia. ØPT (mm)	Hub Width Dia.* (mm)		Rim Width Dia. T (mm)
			Smooth WB2	Segmental WB3	
4B102NA	65	204.0	57	83	35
	65	235.1	57	83	35
	65	266.5	57	83	35
	65	298.2	57	83	35
	65	330.1	57	83	35
4B142NA	85	284.0	74	112	45
	85	327.3	74	112	45
	85	371.1	77	127	45
	115	415.2	77	127	45
	115	459.5	77	127	45
	115	504.0	105	150	45
	115	548.6	105	150	45
	115	593.4	120	150	45
	115	638.1	120	150	45
4B142HA	115	327.3	110	127	75
	115	371.1	110	150	75
	115	415.2	110	150	75
	115	459.5	120	150	75
	140	504.0	120	150	75
	140	548.6	120	150	75
	140	593.4	120	150	75
	140	638.1	140	150	75

* Smooth and segmental trailers have different hub widths as noted (WB2 & WB3).

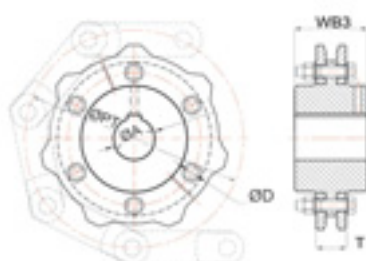
– 4B offers any bore size to suit your requirements, consult with our engineers for recommended shaft diameter.

– 216NA and 260NA sizes are available, contact 4B for more information.

Smooth Trailer



Segmental Star Trailer (Shown with Hub)



4B BRAIME ELEVATOR COMPONENTS

Headquarters
Hunslet Road
Leeds LS10 1JZ
UK
Tel: +44 (0) 113 246 1800
Fax: +44 (0) 113 243 5021
Email: 4b-uk@go4b.com

4B SETEM

9 Route de Corbie
80800 Lamotte Warfusée
FRANCE
Tel: +33 (0) 3 22 42 32 26
Fax: +33 (0) 3 22 42 37 33
Email: 4b-france@go4b.com

4B COMPONENTS

729 Sabrina Drive
East Peoria, IL 61611-3578
USA
Tel: 309-698-5611
Fax: 309-698-5615
Email: 4b-usa@go4b.com

4B DEUTSCHLAND

9 Route de Corbie
F-80800 Lamotte Warfusée
FRANCE
Tel: +49 (0) 700 2242 4091
Fax: +49 (0) 700 2242 3733
Email: 4b-deutschland@go4b.com

4B ASIA PACIFIC

12/6 Moo 7, Bang Na Trad,
K.M 17 Bangplee, Samutprakarn 10540
THAILAND
Tel: 00 662 750 9602
Fax: 00 662 750 9601
Email: 4b-asiapacific@go4b.com

4B SUDAMERICA

Paraguay 610, Piso 15,
C1057AAH, Buenos Aires,
ARGENTINA
Tel: (54) 11 4115-6999
Fax: (54) 11 4313-0505
Email: 4b-sudamerica@go4b.com

4B AFRICA

PO Box 1489
Jukskei Park
Johannesburg 2153
SOUTH AFRICA
Tel: +27 (0) 11 708 6114
Fax: +27 (0) 11 708 1654
Email: 4b-africa@go4b.com

4B AUSTRALIA

Unit 3
24 Rodwell Street
Archerfield
Queensland 4108
AUSTRALIA
Tel: +61 (0) 7 3277 4429
Fax: +61 (0) 7 3277 4123
Email: 4b-australia@go4b.com



BETTER BY DESIGN



Please contact us on: +44 (0) 113 246 1800
4b-uk@go4b.com

4B catalogues also available:

- Elevator Buckets
- Elevator Belting
- Bolts & Fasteners
- Electronics



www.go4b.com