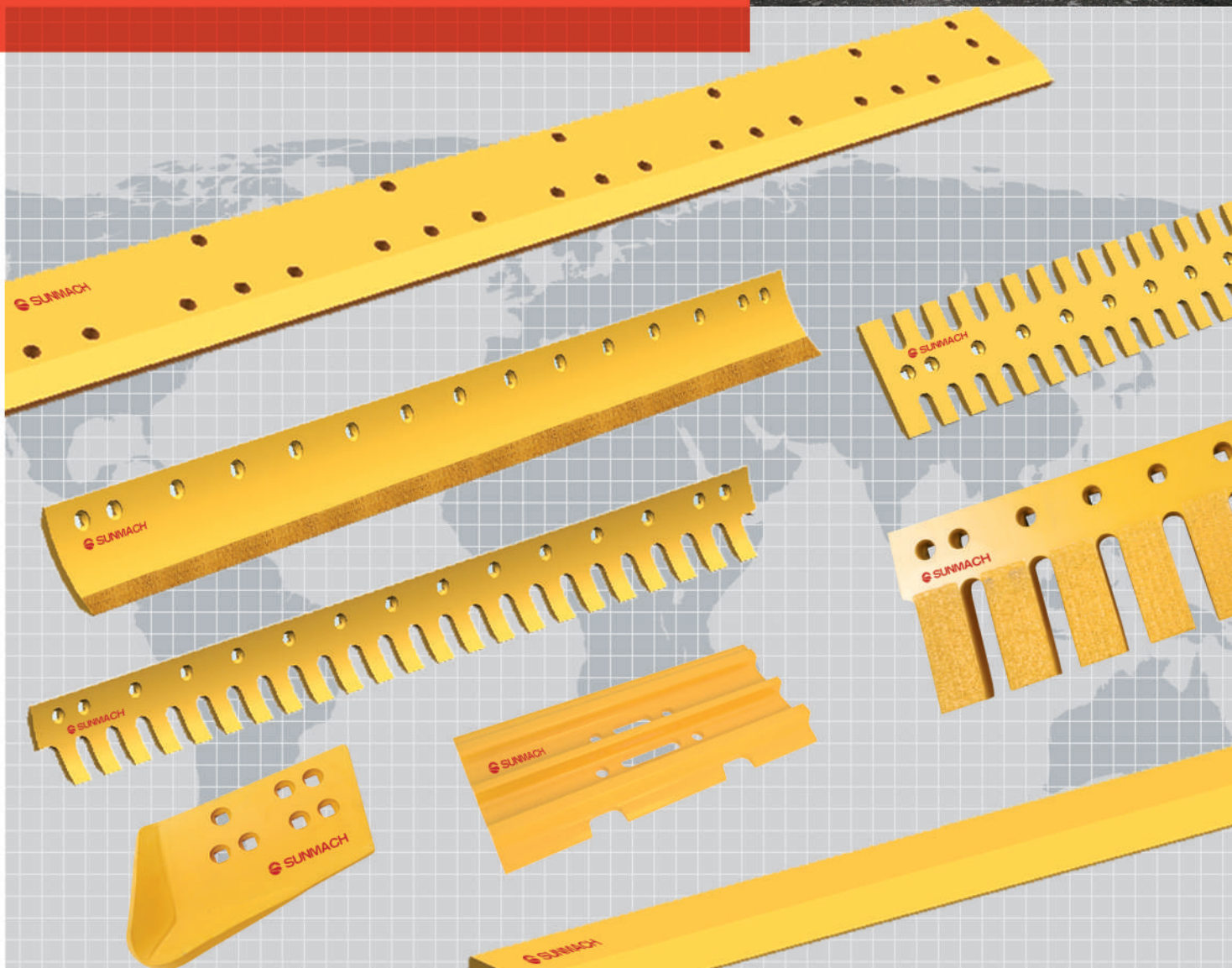


Leading Experts in Ground Engaging Tools for Mining & Construction



SHANDONG SUN WEARPARTS CO., LTD.

The Cutting Edge Company

INTRODUCTION

Shandong Sun Wearparts Co., Ltd (SUNMACH) is a pre-eminent engineering company focused on first-rate Ground Engaging Tools (G.E.T.).

SUNMACH is organized into three customer-facing businesses: Construction, Mining and Agriculture Machinery.



SUNMACH designs, develops, produces and sells wearparts for Construction and Mining industries. At present, SUNMACH is China's largest provider of G.E.T. Cutting Edges. Annually, more than 50000 tons' SUNMACH wearparts were produced at more than 25000sqm production space and delivered to over 100 countries.

SUNMACH's ceaseless effort and constant passion drives its expertise in material tribology and manufacturing. For both OEM (Original Equipment Manufacturer) and MRO (Maintenance, Repair and Overhaul) businesses, SUNMACH is always able to offer innovative, reliable and economical solutions. As a member of supply chain, SUNMACH serves major OEMs like XCMG, SHANTUI, and etc. With reliable OEM-quality products, SUNMACH is also able to provide customization service to manufacturers and industrial supply companies.



45#Steel 85mm SUN400B 50mm SUN450B 42mm SUN500B 23.5mm SUN550B 17mm SUN600B 8.5mm

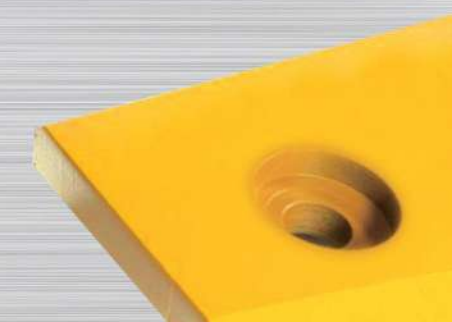
Application	Material	CARBON STEEL		BORON STEEL		
		SUN280C	SUN300C	SUN400B	SUN450B	SUN500B
Light Abrasion Applications e.g. mixed soil		●				
Medium Abrasion Applications e.g. sand			●			
High Abrasion Applications e.g. gravel,slag etc				●	●	
High Abrasion and High Impact Applications e.g. granite,limestone etc						●

Applicable ● Optimum

SUNMACH has been striving to provide top-quality wear parts to customers since its founding time. Now a full series of wear-resistant boron steel products with different grades has been developed in SUNMACH, each with their own unique characteristics.

For example, our SUN600B 8.5mm has the same service life as 80mm mild steel in the same wear conditions. And a thinner wear plate means less weight, higher efficiency and lower cost.

Now SUNMACH has realized the mass production of five boron & carbon steel products, and will do better in the future.



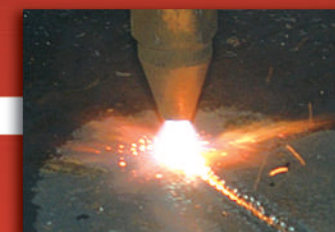
ISO9001 PRODUCTION PROCESS



1. Metal Production



2. Rolling



3. Profiling



4. Machining



8. Packaging



7. Painting



6. Shot Blasting



5. Heat Treatment

*The whole production process is in strict accordance with the ISO9001:2015 international quality management system.



PAGE 01
DOZER BLADES



PAGE 03
GRADER BLADES



PAGE 05
LOADER BLADES



PAGE 07
EXCAVATOR BLADES



PAGE 09
SCRAPER BLADES



PAGE 11
SNOW PLOWS



PAGE 13
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PAGE 15
RIPPER PRODUCTS



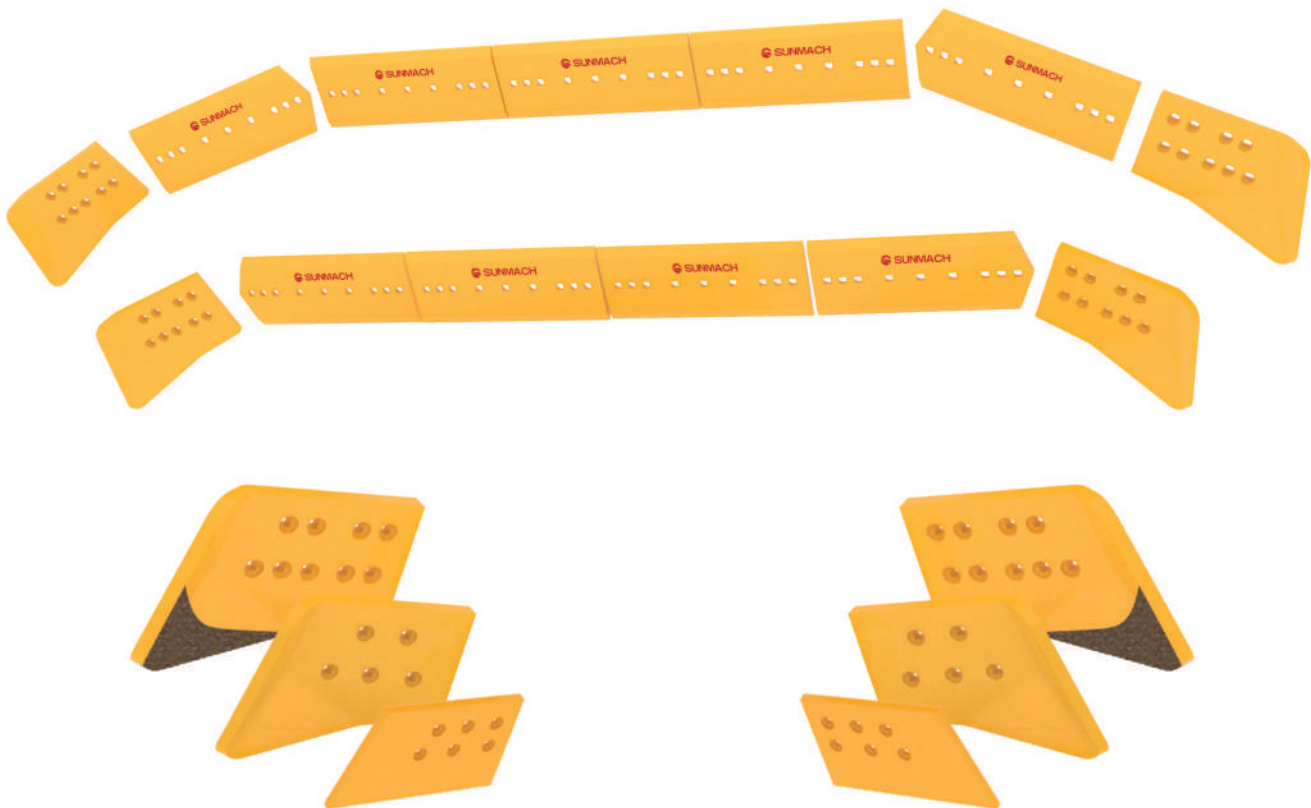
PAGE 17
TEETH PRODUCTS



PAGE 19
SPROCKETS & SEGMENTS



DOZER BLADES



LATERAL BLADES



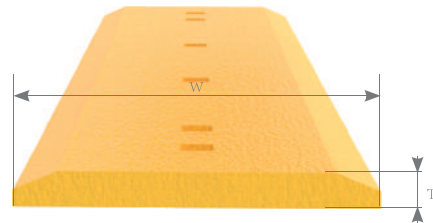
END BITS



CENTER BLADES



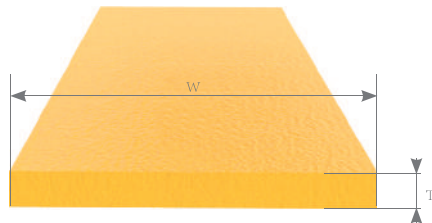
CARBIDE FACING BLADES



DOUBLE BEVEL

DIMENSION	SIZE RANGE (mm)
W	≤ 600
T	≤ 100

*Custom size configurations available on request.



UNIFORM

DIMENSION	SIZE RANGE (mm)
W	≤ 600
T	≤ 100

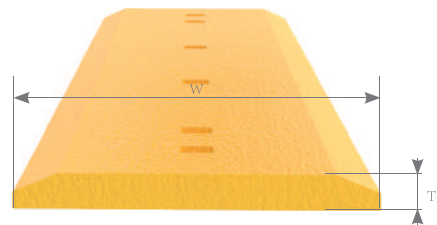
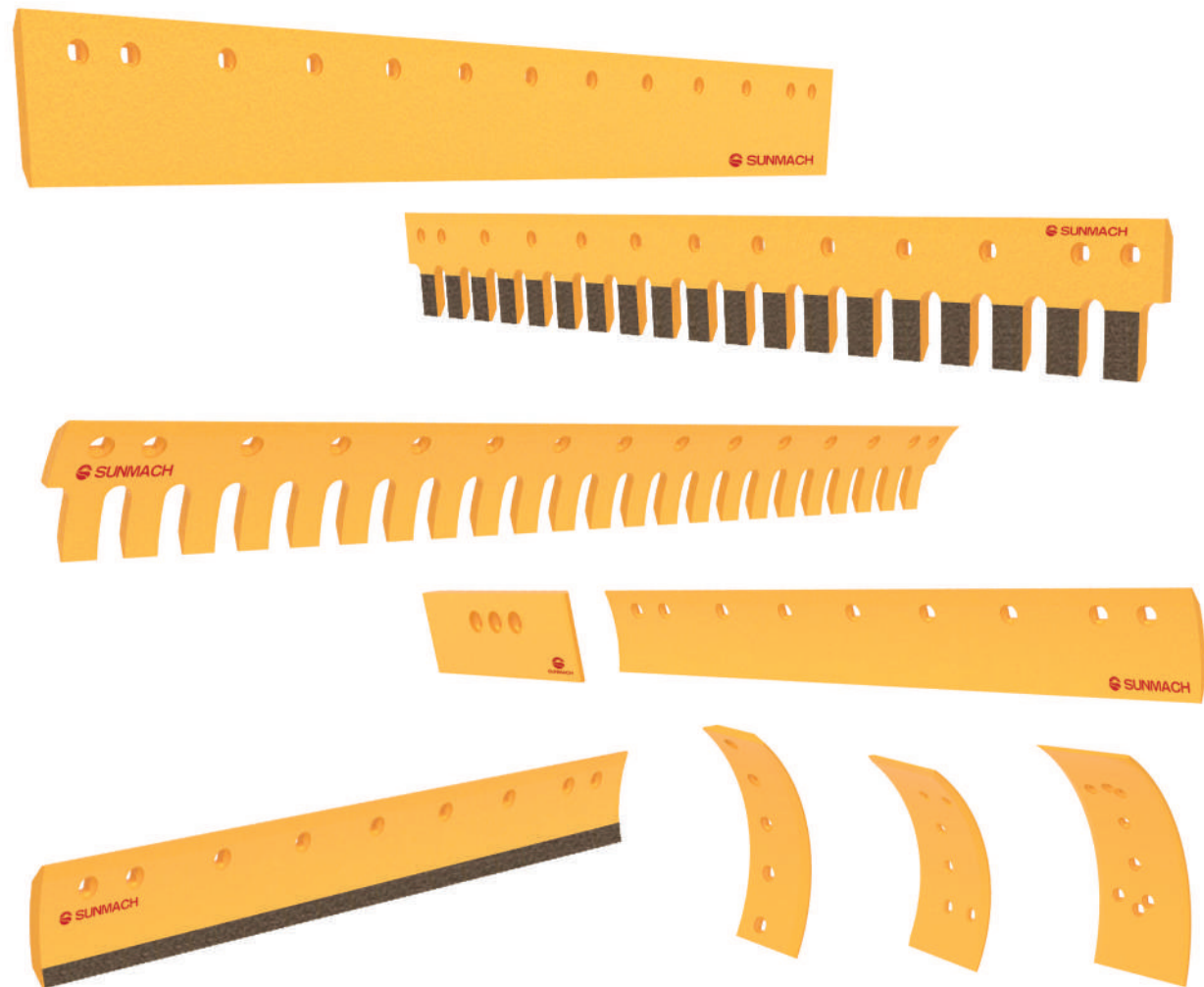
*Custom size configurations available on request.

APPLICABLE MATERIALS

Application \ Material	CARBON STEEL		BORON STEEL		
	SUN280C	SUN300C	SUN400B	SUN450B	SUN500B
Light Abrasion Applications e.g. mixed soil	●				
Medium Abrasion Applications e.g. sand		●			
High Abrasion Applications e.g. gravel, slag etc.			●	●	
High Abrasion and High Impact Applications e.g. granite, limestone etc.					●

■ Applicable ● Optimum

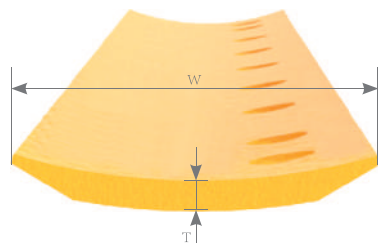
GRADER BLADES



DOUBLE BEVEL

DIMENSION	SIZE RANGE (mm)
W	≤ 600
T	≤ 100

*Custom size configurations available on request.



CURVED DOUBLE BEVEL

SECTION	W (mm)	" T " range (mm)
SC110X	152	12.7 → 12.9
SC120X	203.2	12.7 → 25.4
SC130X	330	30 → 45

*Custom size configurations available on request.

APPLICABLE MATERIALS

Application	Material	CARBON STEEL		BORON STEEL		
		SUN280C	SUN300C	SUN400B	SUN450B	SUN500B
Light Abrasion Applications e.g. mixed soil		●				
Medium Abrasion Applications e.g. sand			●			
High Abrasion Applications e.g. gravel, slag etc.				●	●	
High Abrasion and High Impact Applications e.g. granite, limestone etc.						●

■ Applicable ● Optimum

DOUBLE BEVEL FLAT BLADES



DOUBLE BEVEL CURVED BLADES



SERRATED BLADES



FLAT PLATES



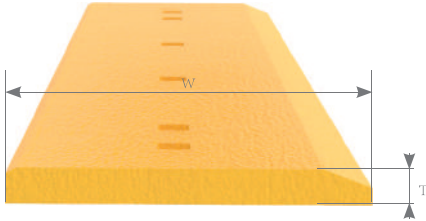
CARBIDE FACING BLADES



OVERLAYS



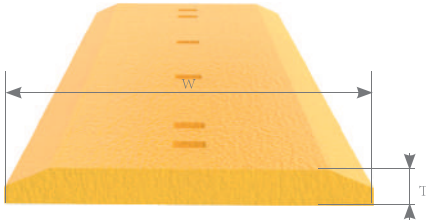
LOADER BLADES



SINGLE BEVEL

DIMENSION	SIZE RANGE (mm)
W	≤ 600
T	≤ 100

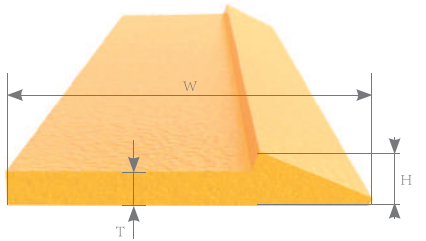
*Custom size configurations available on request.



DOUBLE BEVEL

DIMENSION	SIZE RANGE (mm)
W	≤ 600
T	≤ 100

*Custom size configurations available on request.



HALF ARROW

SECTION	W (mm)	T (mm)	H (mm)
SH1001	101	11	21
SH1002	151	16	32
SH1003	203	19	32
SH1004	203	19	32
SH1005	254	29	58
SH1006	254	40	69

*Custom size configurations available on request.

SINGLE BEVEL EDGES



DOUBLE BEVEL EDGES



HALF ARROW EDGES



SPADE EDGES



SEGMENTS



HEEL PLATES

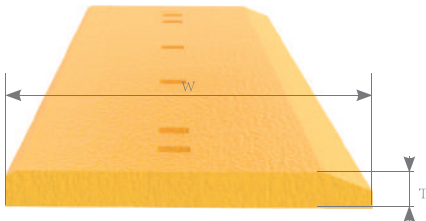
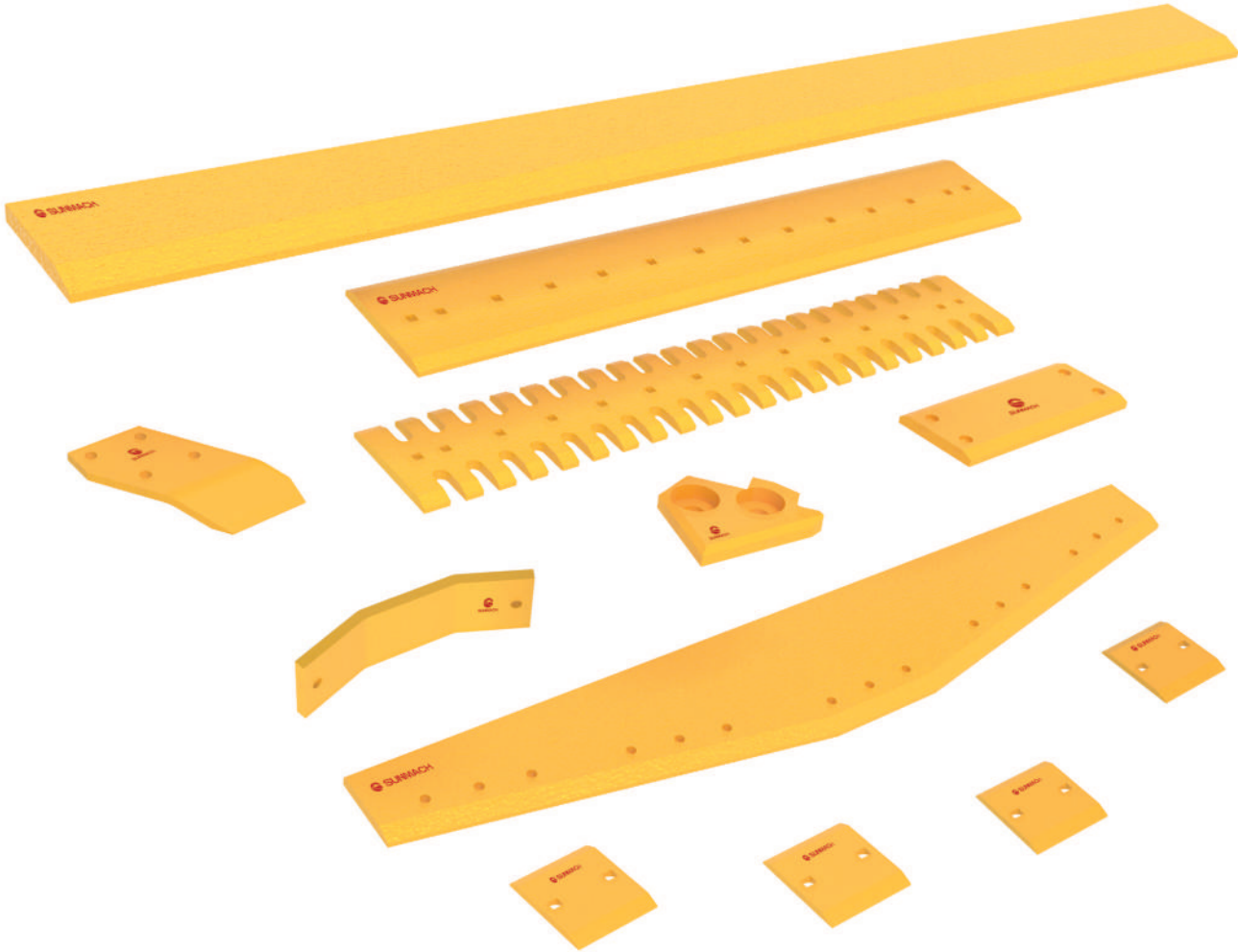


APPLICABLE MATERIALS

Application \ Material	CARBON STEEL	BORON STEEL		
	SUN300C	SUN400B	SUN450B	SUN500B
Light Abrasion Applications e.g. mixed soil				
Medium Abrasion Applications e.g. sand	●			
High Abrasion Applications e.g. gravel, slag etc.		●	●	
High Abrasion and High Impact Applications e.g. granite, limestone etc.				●

■ Applicable ● Optimum

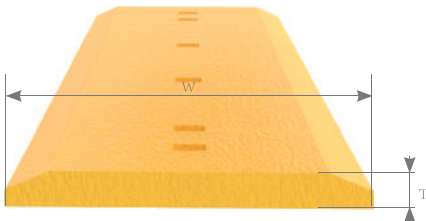
EXCAVATER BLADES



SINGLE BEVEL

DIMENSION	SIZE RANGE (mm)
W	≤ 600
T	≤ 100

*Custom size configurations available on request.



DOUBLE BEVEL

DIMENSION	SIZE RANGE (mm)
W	≤ 600
T	≤ 100

*Custom size configurations available on request.



UNIFORM

DIMENSION	SIZE RANGE (mm)
W	≤ 600
T	≤ 100

*Custom size configurations available on request.

SINGLE BEVEL EDGES



DOUBLE BEVEL EDGES



SERRATED EDGES



SPADE EDGES



SEGMENTS



SIDE CUTTERS



TOE PLATES



HEEL PLATES



APPLICABLE MATERIALS

Application \ Material	CARBON STEEL		BORON STEEL		
	SUN280C	SUN300C	SUN400B	SUN450B	SUN500B
Light Abrasion Applications e.g. mixed soil	●				
Medium Abrasion Applications e.g. sand		●			
High Abrasion Applications e.g. gravel, slag etc.			●	●	
High Abrasion and High Impact Applications e.g. granite, limestone etc.					●

■ Applicable ● Optimum

SCRAPER BLADES



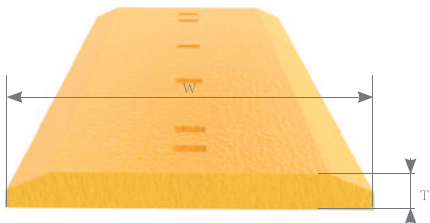
CENTER BLADES



LATERAL BLADES



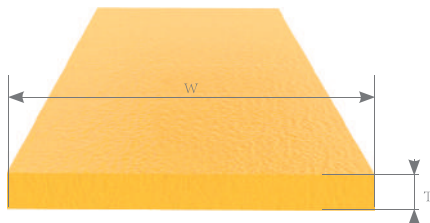
ROUTER BITS



DOUBLE BEVEL

DIMENSION	SIZE RANGE (mm)
W	≤ 600
T	≤ 100

*Custom size configurations available on request.



UNIFORM

DIMENSION	SIZE RANGE (mm)
W	≤ 600
T	≤ 100

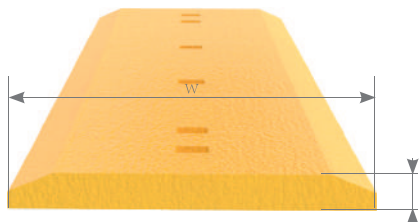
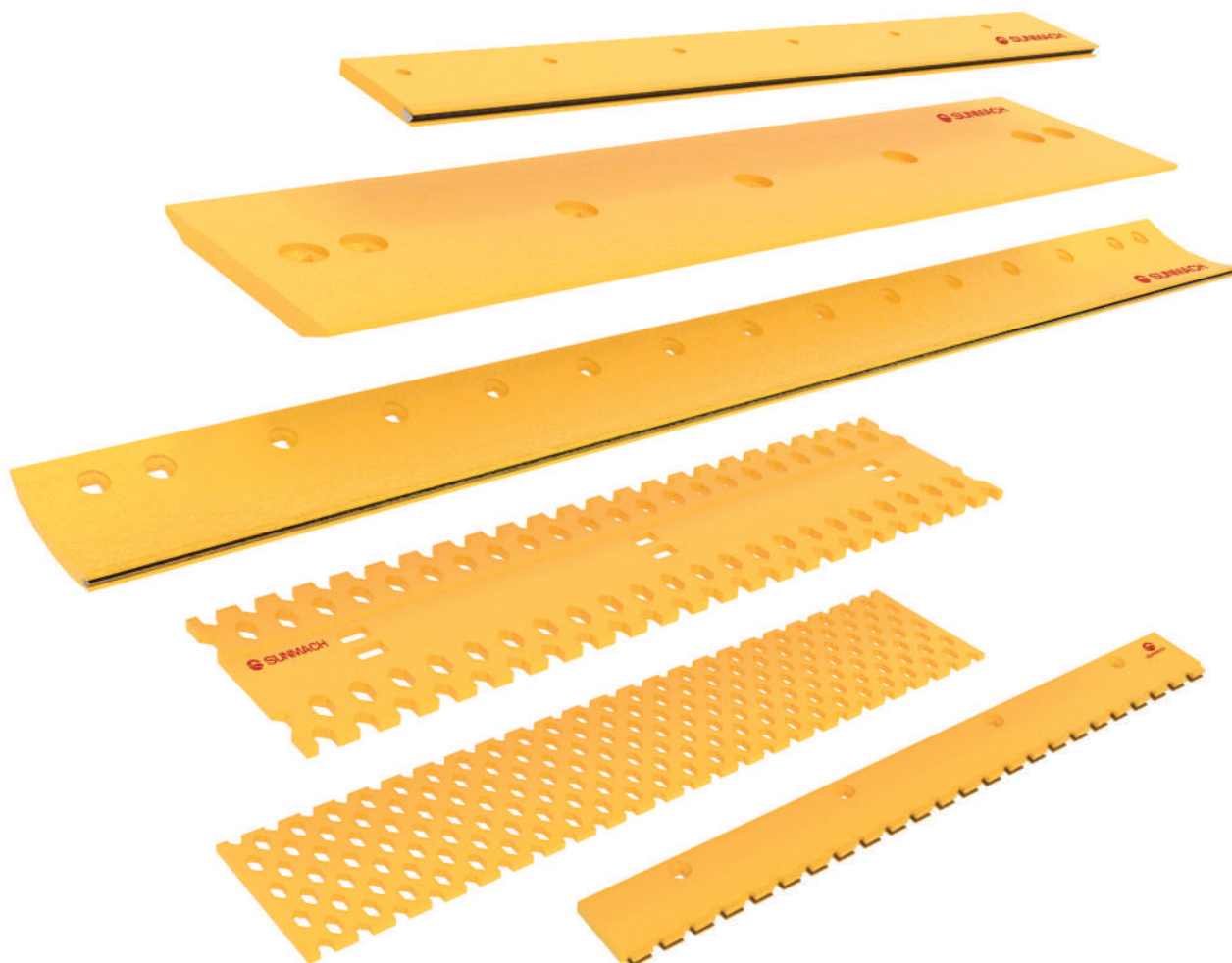
*Custom size configurations available on request.

APPLICABLE MATERIALS

Application	Material	CARBON STEEL		BORON STEEL		
		SUN280C	SUN300C	SUN400B	SUN450B	SUN500B
Light Abrasion Applications e.g. mixed soil		●				
Medium Abrasion Applications e.g. sand			●			
High Abrasion Applications e.g. gravel, slag etc.				●	●	
High Abrasion and High Impact Applications e.g. granite, limestone etc.						●

■ Applicable ● Optimum

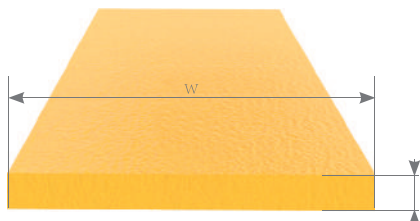
SNOW PLOWS



DOUBLE BEVEL

DIMENSION	SIZE RANGE (mm)
W	≤ 600
T	≤ 100

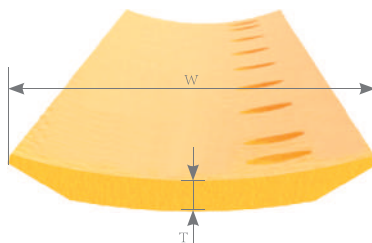
*Custom size configurations available on request.



UNIFORM

DIMENSION	SIZE RANGE (mm)
W	≤ 600
T	≤ 100

*Custom size configurations available on request.

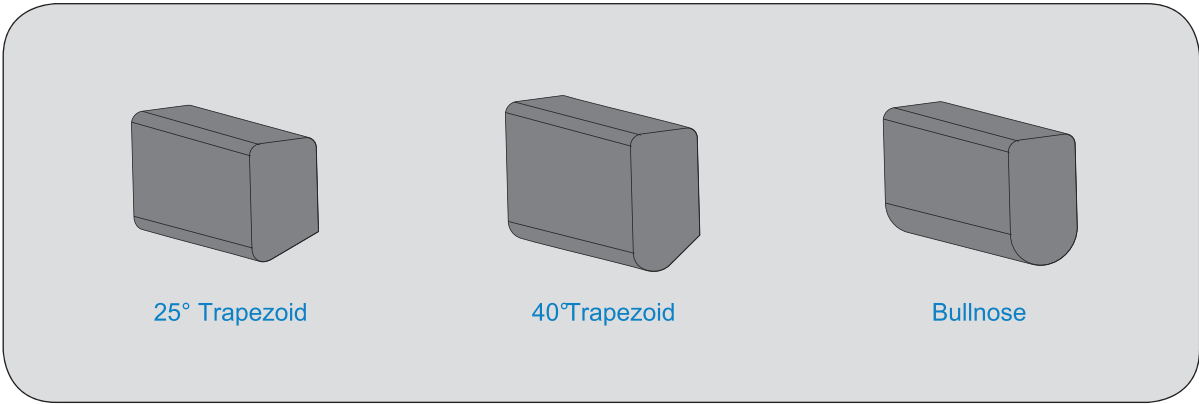


CURVED DOUBLE BEVEL

SECTION	W (mm)	" T " range (mm)
SC110X	152	12.7 → 12.9
SC120X	203.2	12.7 → 25.4
SC130X	330	30 → 45
SC140X	406	30 → 60

*Custom size configurations available on request.

CARBIDE PROFILES



*Custom size configurations available on request.

FLAT CARBIDE BLADES

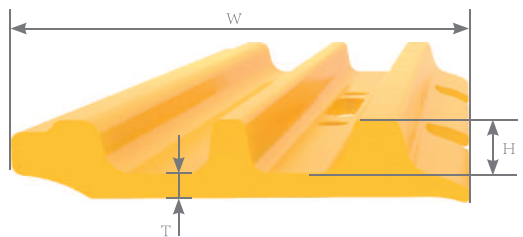
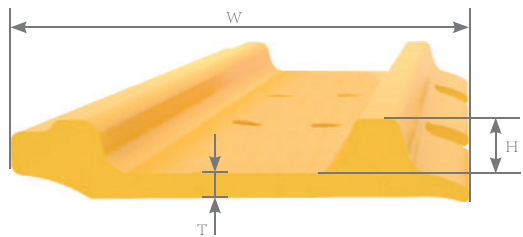
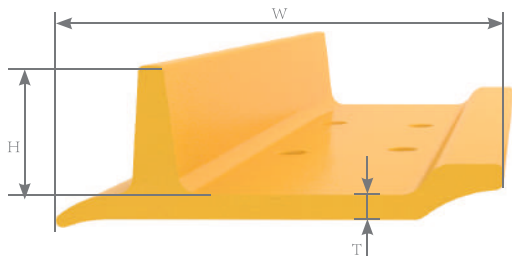
CURVED CARBIDE BLADES

SERRATED CARBIDE BLADES

ICE SCRAPER

DOUBLE BEVEL BLADES

TRACK SHOES



SINGLE GROUSER

SECTION	W (mm)	H (mm)	T (mm)
ST1001	182.5	47	8.5
ST1002	182	49	9.5
ST1003	202.5	47	11
ST1004	199.6	50	12
ST1005	225	57	13
ST1006	238	60	14
ST1007	243.5	75	15
ST1008	242.5	65	13
ST1009	252.25	72	14.3
ST1010	247.5	70	14.2
ST1011	256.5	82	17
ST1012	268	80	17
ST1013	261	77.5	19

*Custom size configurations available on request.

DOUBLE GROUSER

SECTION	W (mm)	H (mm)	T (mm)
ST2001	109	16.5	6
ST2002	207	37.5	13
ST2003	251	49	15.5
ST2004	302	50	21
ST2005	302	50	23.5
ST2006	306	48	20.5
ST2007	306	48	22

*Custom size configurations available on request.

TRIPLE GROUSER

SECTION	W (mm)	H (mm)	T (mm)
ST3001	154	14	6
ST3002	165	20	6
ST3003	187	18	8
ST3004	198.9	25	8
ST3005	198.9	25	8.5
ST3006	198.9	25	9
ST3007	198.9	25	9.5
ST3008	198.9	25	10
ST3009	198.9	25	10.5
ST3010	217.5	26	10
ST3011	219	26	8.5
ST3012	219	26	10
ST3013	219	26	12
ST3014	236	28	11
ST3015	236	28	13
ST3016	250	30	11
ST3017	250	30	13
ST3018	247	30	14
ST3019	247	36	13
ST3020	247	36	16
ST3021	247	36	18

*Custom size configurations available on request.

SINGLE GROUSER TRACK SHOE



DOUBLE GROUSER TRACK SHOE



TRIPLE GROUSER TRACK SHOE



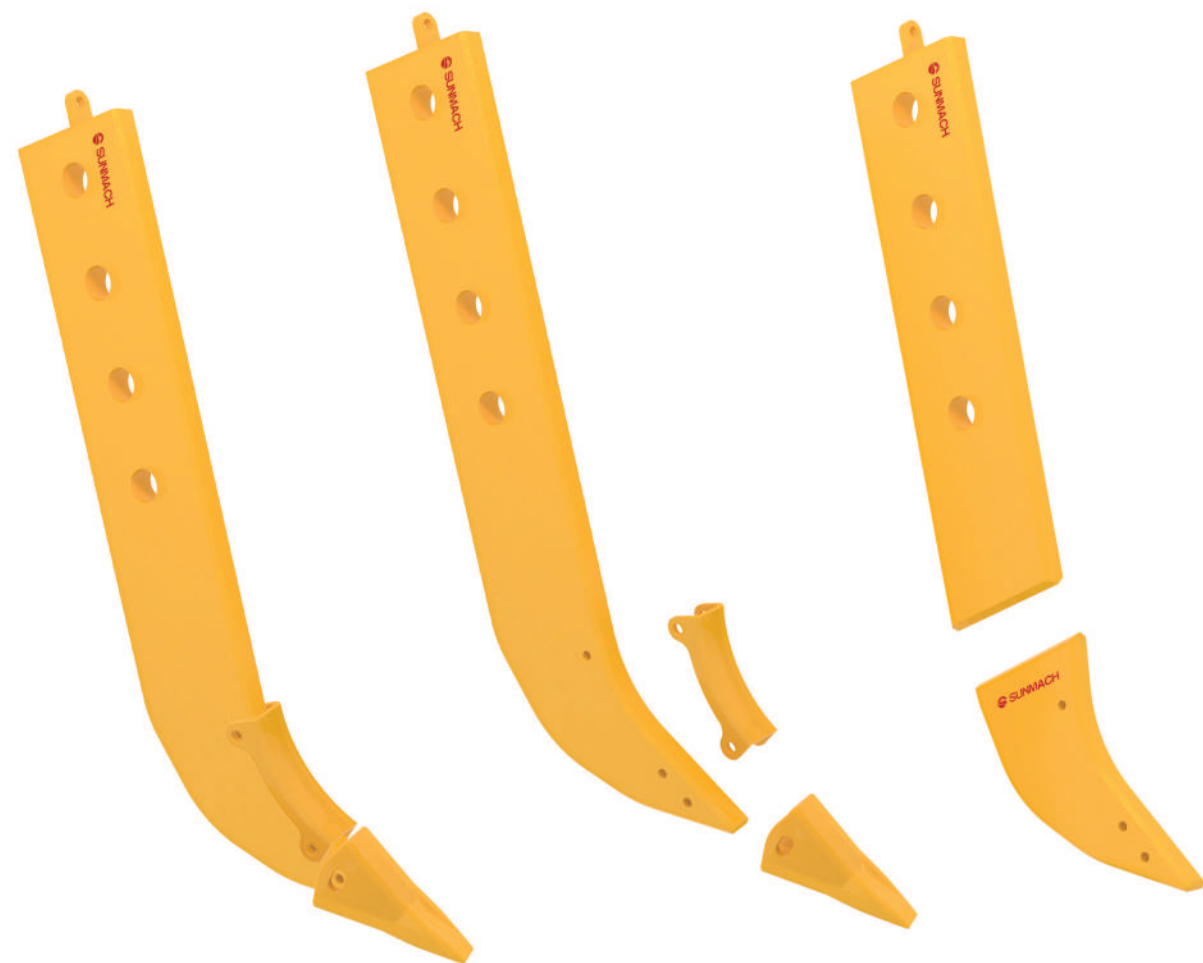
TRACK LINK



TRACK ASSEMBLY



RIPPER PRODUCTS



ONE-PIECE RIPPER SHANK



WELD-ON ADAPTER



WELD-ON NOSE



RIPPER TEETH



PROTECTOR



SHANK



ONE-PIECE RIPPER SHANK

SUNMACH offers a complete range of shanks for main OEM brands in the market, covering from the smallest up to the largest (120mm thick).

Made of tough abrasion resistant alloy steel, SUNMACH one-piece ripper shanks are cut to length, formed, fully machined and finally thru-hardened for strength and maximum wear life.



COMPONENTS

When a ripper shank breaks, a SUNMACH ripper adapter or nose can be used in repair depending on where the breakage has taken place.



TEETH PRODUCTS

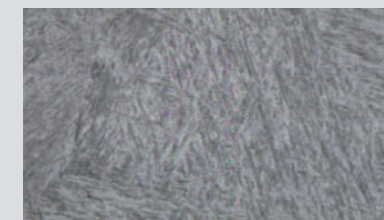


FEATURES

- Better Penetration
- High Strength Design
- High Ratio of Material Utilization



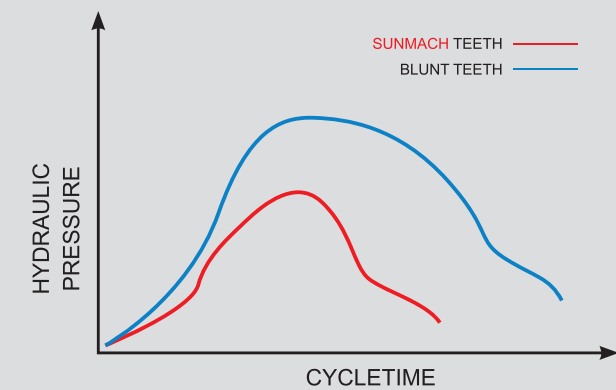
MATERIAL



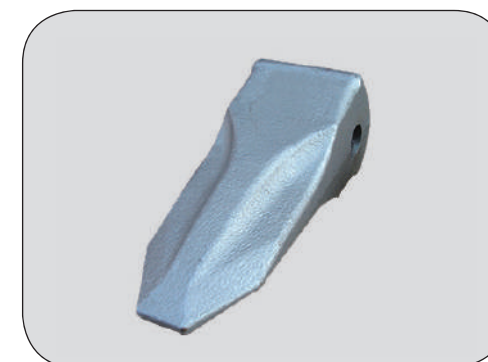
Microstructure of SUNMACH Teeth



Microstructure of Blunt Teeth



MANUFACTURING

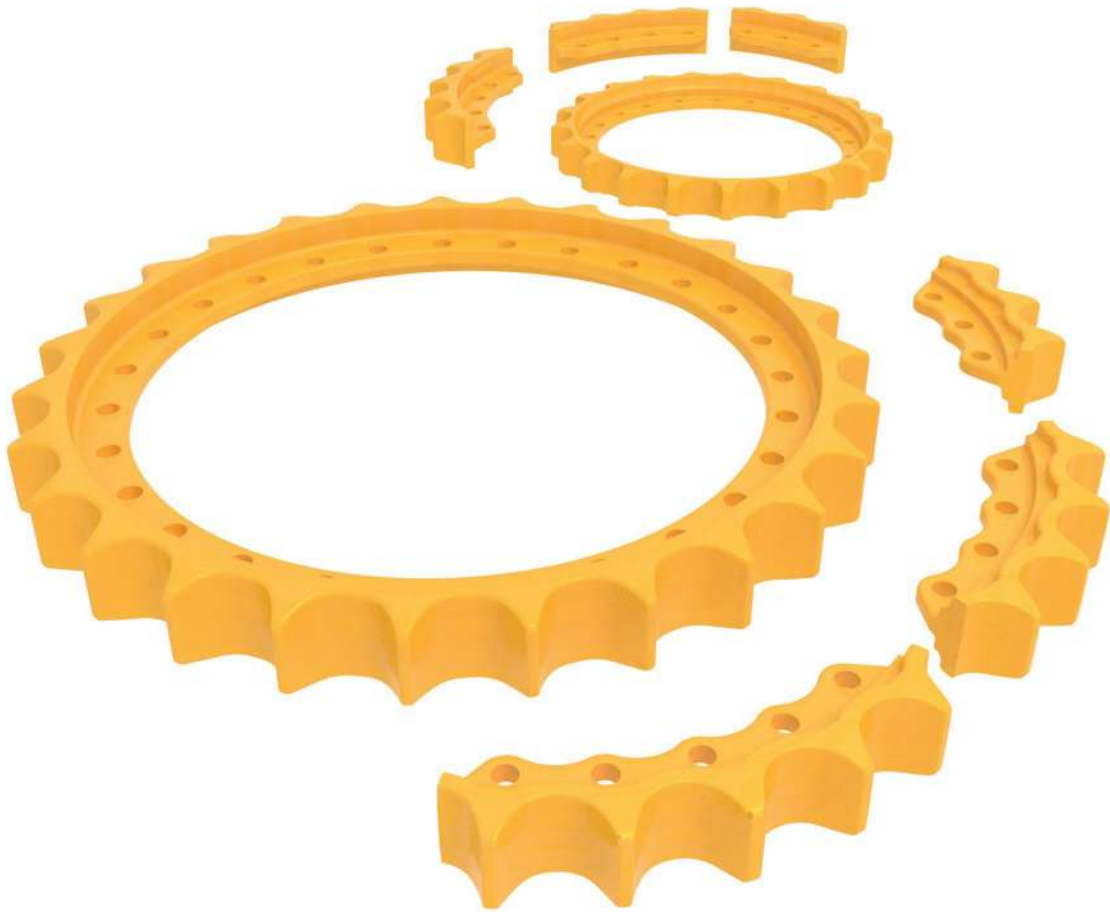


FORGING



CASTING

SPROCKETS & SEGMENTS



3-TEETH SEGMENTS



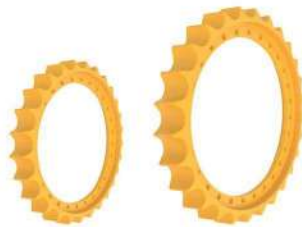
4-TEETH SEGMENTS



5-TEETH SEGMENTS



SPROCKETS



APPLICABLE MODELS

Srl No	SUNMACH	PN	PCS/GROUP	Pitch	Teeth Number	Equivalent Model	Reference NO.
1	SS154A-3	1	6	154	3	DH08	111H-18-00001
	SS154A-4	6			4		111H-18-00002
2	SS171A-5	5	5	171.45	5	DH10	112H-18-00031
3	SS190A-5	5	5	190	5	SD13	10Y-18-00043
4	SS203A-3	9	9	203.2	3	SD16/DH17	16Y-18-00049(16Y-18-00014H)
5	SS203B-3	9	9	203.2	3	SD16/D65/D60/D85ESS-2	16Y-18-00049T (KM2111)
6	SS203C-3	9	9	203.2	3	SD16/816/818/LD17/LD20/ZD220	16Y-18-00049L (KM2112)
7	SS203D-3	9	9	203.2	3	DH20	114S-18-00001
8	SS228A-6	2	3	228.6	6	DH36	117S-18-00009
	SS228A-5	3			5		117S-18-00035
9	SS260A-5	3	2	260.35	5	DH46	118H-18-00032
	SS260A-6	2			6		118H-18-00031
10	SK175A-3	9	9	175	3	D50/D41/D58/D53	131-27-61710
11	SK175B-3	9	9	175	3	D51/D51EX/PX-22	12Y-27-11521
12	SK190A-3	9	9	190	3	D61	134-27-61460
13	SK203A-5	5	5	203.2	5	D68/ESS/D63E-12	134-27-61631
14	SK216A-5	5	5	216	5	SD22/D85/SD7	154-27-12273A(OT05047)
15	SK216B-3	9	9	216	3	SD24-5/D85EX/PX	156-18-00001
16	SK228A-3	9	9	228.6	3	SD32/D155	175-27-22325A
17	SK260A-5	5	5	260.35	5	D275	17M-27-41630
18	SK260B-3	9	9	260.35	3	SD42/D355	31Y-18-00014
19	SK280A-5	5	5	280	5	SD52/SD60/D375	185-18-00001
20	SK317A-5	5	5	317.5	5	SD90/D475	198-27-42260
21	SC171A-5	5	5	171.45	5	D4H/D4H-HD	6Y5245/1080946
22	SC171B-5	5	5	171.45	5	943	CR4372B
23	SC171C-5	3	2	171.45	5	D5C	CR6600A
	SC171C-4	2			4		CR6601A
24	SC175A-3	9	9	175	3	D5B	5S0836
25	SC190A-5	5	5	190	5	D6N/D6M	618077/618077
26	SC202A-5	5	5	202.8	5	D6H/D6R	6Y2931/1026677
27	SC202B-5	5	5	202.8	5	D6D/D6C/D6G	6T4179/6T4179/6P9102
28	SC216A-5	5	5	216	5	D7G/D7E/D7F	8E4675/8E4675/8E4675
29	SC215A-5	5	5	215.9	5	D8N/D8R/D7H/D7R/SD8	7T9773/6Y2354/6Y2354/(3T05014)
30	SC215B-5	5	5	215.9	5	D8N/D8R/D7H/D7R	314-5462
31	SC228A-3	9	9	228.6	3	D8K/D8H	6T6782/6T6782
32	SC228B-3	9	9	228.6	3	832	632-7793
33	SC240A-5	5	5	240	5	D9N	2782376
34	SC260A-3	9	9	260.35	3	D9H/D9G	6T6781/6T6781
35	SC260B-5	5	5	260.35	5	D10N/D10R	2782374/6T9538
36	SC317A-5	1	3	317.5	5	D11N/D11R/D11T	2319484
	SC317A-6	3			6		2319486
37	SJ190A-4	2	3	190	4	700J	ID2799
	SJ190A-5	3			5		ID2800
38	SJ190B-5	5	5	190	5	750J	ID3232
39	SJ203A-5	5	5	203.2	5	800J	ID3233

*Custom size configurations available on request.

FACILITIES & EQUIPMENTS



Logistics & Warehouse



◀ A glimpse of warehouse and forklifts



In order to meet changing business and customer demands, SUNMACH, working closely with China's lead logistics provider, is able to deliver products to any place via air, ocean, road or rail. Capable of giving its customers sufficient attention they need, SUNMACH can always provide innovative logistics solutions using a results-oriented approach.

SUNMACH has its own heavy-duty racking warehouse of 5000 square meters, which ensures on-time delivery. With a stock of 15000 types' spare parts for Construction, Mining and Agriculture, SUNMACH is always able to satisfy customers' urgent order demands.



SUNMACH[®]

Trusted to deliver excellence



SHANDONG SUN WEARPARTS CO., LTD

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