



REMACLIP

- Mechanical belt splicing systems -

REMA TIP TOP

REMA TIP TOP – the brand for conveyor belt maintenance

TIP TOP Industrie has been renowned for high quality for over 30 years: the brand REMA TIP TOP represents ground-breaking products for wear and corrosion protection. Additionally, TIP TOP Industrie supplies high-quality materials for the protection, repair and maintenance of conveyor belts.

Durable conveyor belt splices are a decisive factor in achieving trouble-free operation. The lifetime of conveyor belt equipment is considerably lengthened by the well proven **REMA TIP TOP** conveyor belt splicing systems. Unnecessary downtime is avoided, and productivity is significantly enhanced as a result of increased system availability.

The specialist staff who operate in our international service network are available to our customers with a view to achieving optimum planning and completion. They ensure that you are provided with the protection and maintenance measures best suited to your equipment.

TIP TOP Industrie is your competent global partner for everything associated with conveyor belt maintenance.



One Name – One Source – One System

REMACLIP conveyor belt splicing systems



REMACLIP – Mechanical belt splicing systems

We offer you the right solution to virtually every belt splicing problem. This brochure provides a short overview of our conveyor belt splicing systems and their respective fields of application.

REMACLIP Selection criteria



REMACLIP-system TTN

- The belt fasteners are installed using a "machine system": the belt is held in a screw clamp, and the staples inserted using a mechanical lacing machine.
- The combination of innovative design and material selection produces an exceptionally long splice service life.



REMACLIP-system TTE

- The belt fasteners are installed using a "machine system": the belt is held in a screw clamp, and the staples inserted using a mechanical lacing machine.
- This is a "budget priced" system compared with the **system** *TTN*. It is often advantageous to use the *TTE* system where a splice has to be changed frequently.



REMACLIP-system TTM

- The belt fasteners are installed using a "hammer system": the lacing tool is positioned across the belt end to accurately locate the staples (in the staple magazine) which are hammered into the belt with a 4 kg hammer.
- High pull-out strength and long service life.



REMACLIP-system TTP

- System TTP for PVC belts.
- Installation: the lacing tool is positioned across the belt end to accurately locate the staples (in the staple magazine) which are hammered into the belt with a 2 kg hammer.
- · High pull-out strength and long service life.
- Short-reach galvanized steel plates, suitable even for small pulley diameters (150 mm).



REMACLIP-system TTB

- System TTB: bolt fastener for belt splicing and repairing longitudinal tears (belt thickness 5-25 mm).
- Installation: with the use of a punch and a template, holes are punched in the belt, then the bolt fasteners are inserted and the bolts are tightened. Protruding bolt ends are removed with a bolt breaker.



REMACLIP-Shark Tooth Clips

• For emergency repairs to tears, or as a temporary joint when installing lengths of belt.

1. REMACLIP - Systems

1.1 REMACLIP - TTN



The **REMA TIP TOP standard system** *TTN* is used for belt strengths of up to 1.400 N/mm.

The main fields of application are:

- Coal mining
- · Quarries and gravel pits
- · Cement plants and steel works

The **standard system** *TTN* includes stainless steel plates and carbon steel staples. The optimum configuration of the staples and the lengths of the plates has been achieved through extensive testing. They are designed to have a very high static pull-out strength and optimum dynamic running characteristics.

The fasteners are supplied in 200 mm-long strips packed in boxes for the standard belt widths of 1.000 mm and 1.200 mm. The staples are also available in stainless steel versions, e.g. *TTN 85*, for corrosive applications.

Both versions can also be supplied with a sealing strip which prevents the loss of any fine material through the joint during belt operation. The service life of the connecting pin is significantly extended by greasing the previously sealed fastener loops.

1.2 REMACLIP - TTE



The **REMA TIP TOP Ecosystem** *TTE* is used for belt strengths of up to 1.400 N/mm where the splice is changed after a short time in operation.

The main fields of application are:

- Coal mining
- Quarries and gravel pits
- Cement plants and steel works

The **standard** *system TTE* includes carbon steel plates and staples. The optimum configuration of the staples and the lengths of the plates has been achieved through extensive testing. They are designed to have a very high static pull-out strength and optimum dynamic running characteristics.

The fasteners are supplied in 200 mm-long strips packed in boxes for the standard belt widths of 1.000 mm and 1.200 mm. With the items listed on page 5, you can splice 1.000 mm or 1.200 mm-wide belts completely.

The staples are also available in stainless steel versions, e.g. TTE 8S, on request.



Drum diameter		minimum	n 250 mm	minimum 350 mm			
Belt strength		max. 1.0	50 N/mm	max. 1.400 N/mm			
Belt thickness		5-9 mm 7-11 mm		8-12 mm	10-14 mm	13-16 mm	
REMACLIP TTN	Belt width [mm]						
Fasteners TTN		TTN 8	TTN 10	TTN 12	TTN 14	TTN 16	
Stainless steel plates	1.000	530 2002	530 2026	530 2040	530 2064	530 2088	
Carbon steel staples	1.200	530 2019	530 2033	530 2057	530 2071	530 2095	
Fasteners TTN S		TTN 8S	TTN 10S	TTN 12S	TTN 14S	TTN 16S	
Stainless steel plates	1.000	530 2105	530 2129	530 2143	530 2167	530 2181	
Stainless steel staples	1.200	530 2112	530 2136	530 2150	530 2174	530 2198	
Fasteners TTN A (with sealing system)		TTN 8A	TTN 10A	TTN 12A	TTN 14A	TTN 16A	
Stainless steel plates	1.000	530 4086	530 4103	530 4127	530 4141	530 4165	
Carbon steel staples	1.200	530 4093	530 4110	530 4134	530 4158	530 4172	
Fasteners TTN AS (with sealing system)		TTN 8AS	TTN 10AS	TTN 12AS	TTN 14AS	TTN 16AS	
Stainless steel plates	1.000	530 4189	530 4206	530 4220	530 4244	530 4268	
Stainless steel staples	1.200	530 4196	530 4213	530 4237	530 4251	530 4275	
REMACLIP TTE							
Fasteners TTE		TTE 8	TTE 10	TTE 12	TTE 14	TTE 16	
Carbon steel	1.000	530 2208	530 2222	530 2246	530 2260	530 2284	
plates and staples	1.200	530 2215	530 2239	530 2253	530 2277	530 2291	
Fasteners TTE S		TTE 8S	TTE 10S	TTE 12S	TTE 14S	TTE 16S	
Carbon steel plates	1.000	530 2301	530 2325	530 2349	530 2363	530 2387	
Stainless steel staples	1.200	530 2318	530 2332	530 2356	530 2370	530 2394	

Installation tools



Mechanical lacing machine TM and screw clamp TS

with manual advance and fastener insertion. The screw clamps are available in the widths 350, 1.000, 1.200, 1.400 mm; other widths available on request.

Ref.no.	Designation
530 2590	Mechanical lacing machine TM
530 4567	Screw clamp TS 350
530 2600	Screw clamp TS 1000
530 2617	Screw clamp TS 1200
530 2624	Screw clamp TS 1400

1. REMACLIP - Systems

1.3 REMACLIP - TTM



The **REMA TIP TOP hammer system** *TTM* is used for multi-ply rubber belts of up to 1.400 N/mm in strength, where the hammer lacing system, with lightweight and easy-to-use equipment, is preferred.

The main fields of application are:

- Coal mining
- Quarries and gravel pits
- General industry

The *TTM* fasteners are used on multi-ply rubber belts, because thanks to their large contact area, they do not penetrate too deeply into the belt rubber cover, thereby preventing wave-shaped deformation of the belt. This system includes galvanized steel plates and staples.

The fasteners are supplied in 200 mm-long strips packed in boxes for the standard belt widths of 1.000 mm and 1.200 mm. With the items listed below, you can splice 1.000 mm or 1.200 mm-wide belts.

Drum diameter	min. 250 mm	min. 350 mm
Belt strength	max. 1.050 N/mm	max. 1.400 N/mm
Belt thickness	6-11 mm	10-15 mm
Fastener	TTM 10	TTM 14
Belt width 1.000 mm	Ref.no. 530 3403	Ref.no. 530 3427
Belt width 1.200 mm	Ref.no. 530 3410	Ref.no. 530 3434



The standard installation unit includes a lacing tool, a staple magazine, a 3 kg hammer and a punch.

Installation unit REMACLIP TTM

The lightweight installation unit is available as a 200 mm-wide lacing tool suitable for all belt widths. Full-belt width installation units are available in the standard sizes 600, 800, 1.000 and 1.200 mm. Every installation unit can also be used for splicing wider belts in a step-by-step procedure.

Ref.no.	Designation
530 2679	Hammer lacing tool TH-M 200
530 2686	Hammer lacing tool TH-M 600
530 4543	Hammer lacing tool TH-M 800
530 2693	Hammer lacing tool TH-M 1000
530 2703	Hammer lacing tool TH-M 1200



1.4 REMACLIP - TTP



The **REMA TIP TOP hammer system** *TTP* is used for PVC belts of up to 1.400 N/mm in strength, where the hammer lacing system, with lightweight and easy-to-use equipment, is preferred.

The main fields of application are:

- Agriculture
- Coal mining
- General industry

The *TTP* fasteners, with their low profile on the belt, are mainly used on PVC belts, but also on multi-ply rubber "high trough" conveyor belts. This system includes galvanized steel plates and staples.

The fasteners are supplied in 200 mm-long strips packed in boxes for the standard belt widths of 1.000 mm and 1.200 mm. With the items listed below, you can splice 1.000 mm or 1.200 mm-wide belts completely.

Drum diameter		min. 250 mm	min. 350 mm		
Belt strength		max. 1.050 N/mm	max. 1.400 N/mm		
Belt thickness	5-7 mm	7-9 mm	9-11 mm	10-12 mm	12-14 mm
Fastener	TTP 7	TTP 9	TTP 11	TTP 12	TTP 14
Belt width 1000 mm	Ref.no. 530 4282	Ref.no. 530 4309	Ref.no. 530 4323	Ref.no. 530 4347	Ref.no. 530 4361
Belt width 1200 mm	Ref.no. 530 4299	Ref.no. 530 4316	Ref.no. 530 4330	Ref.no. 530 4354	Ref.no. 530 4378



The standard installation unit includes a lacing tool, a staple magazine, a 2 kg hammer and a punch.

Installation unit REMACLIP TTP

The lightweight installation unit is available as a 200 mm-wide lacing tool suitable for all belt widths. Full-belt width installation units are available in the standard sizes 600, 800, 1.000 and 1.200 mm. Every installation unit can also be used for splicing wider belts in a step-by-step procedure.

Ref.no.	Designation
530 4574	Hammer lacing tool TH-P 200
530 4581	Hammer lacing tool TH-P 600
530 4598	Hammer lacing tool TH-P 800
530 4608	Hammer lacing tool TH-P 1000
530 4615	Hammer lacing tool TH-P 1200

1. REMACLIP - Systems

1.5 REMACLIP - TTB



The **REMA TIP TOP** *TTB* **bolt system** is used for belt splicing and belt repair.

This system is distinguished by:

- Good compression of the belt (screw-clamp principle)
- Simple installation

The *TTB* bolt system compresses the belt as the screws are tightened. The resulting compression ensures the conveyor belt runs efficiently. The bolt fasteners are available in the following versions:

- TTB series fasteners made of steel for normal applications.
- *TTB H* wear-resistant fasteners with high-carbon steel top plate for use where very abrasive materials are conveyed.
- *TTB S* stainless-steel fasteners for use where corrosive materials are conveyed.

Fastener	Belt	Belt	Min. drum	Material		Ref.no.	Number of	Splice	
size	strength	thickness	diameter-Ø		High-car-	Stainless		fasteners/box	width
	[N/mm]	[mm]	[mm]	Steel	bon steel	steel			[mm]
TTB 1	300	5-11	250	•			530 2404	25	750
TTB 1 H	300	5-11	250		•		530 2411	25	750
TTB 140	400	5-11	300	•			530 2435	25	750
TTB 140 H	400	5-11	300		•		530 2442	25	750
TTB 190	600	8-14	400	•			530 2466	25	750
TTB 190 H	600	8-14	400		•		530 2473	25	750
TTB 11/2	500	11-17	400	•			530 2507	25	950
TTB 11/2 H	500	11-17	400		•		530 2514	25	950
TTB 11/2 S	500	11-17	400			•	530 2538	25	950
TTB 2	750	14-21	700	•			530 2545	25	1.050
TTB 2 H	750	14-21	700		•		530 2552	25	1.050
TTB 2 S	750	14-21	700			•	530 2576	25	1.050
TTB 21/2	750	19-25	1.000	•			530 2583	10	500
TTB 21/4	850	14-30	1.000	•			530 3874	25	1.050
TTB 21/4 H	850	14-30	1.000		•		530 3881	25	1.050



Selection criterion	Machine	e system	Hammer system		Repair	Repairsystem	
	TTN	TTE	TTP	ТТМ	TTB	TTR	
Safety condition							
Conveyance of passengers	-	-	-	-	-		
High security interest	++	+	0	0	-		
Equipment conditions							
Belt strength up to (kN/m)	1.400	1.400	1.250	1.400	850		
Belt thickness	16	16	14	15	30	21	
Multiply rubber belt	++	++	+	++	++	++	
PVC or PVG belt	++	++	++	0	+	0	
Center distance over 1.000 m	+	0	0	0	-	-	
Belt speed > 4m/s	+	0	0	0	-	-	
High Rock rate	+	+	0	+	+	-	
Corrosion resistance	++	-	+	+	+++	+	
Chemical resistance	0	- (e.e.	-	-	++	-	
Customer option							
Long Service life	++	+	+	+	-	-	
Noiseless	+	+	+	0	-	-	
Light weight equipment	+	+	++	++	++	++	
Use of belt planer	++	++	-	-	-	-	
Unit construction system	++	++	0	0	-	-	
Fast installation	++	++	0	0	-	-	
Miscellaneous							
Training necessary	Yes	Yes	No	No	No	No	
Instruction sufficient	No	No	Yes	Yes	Yes	Yes	

+++ excellent

- ++ very good
- + good
- 0 sufficient
- unsuitable and/or impossible

2. REMACLIP – Accessories

2.1 Template

The template ensures that the holes for the bolt fasteners are punched in exactly the right position. It is available in the standard length of 1.050 mm, suitable for the various sizes of fasteners.

Ref.no.	Designation
530 2710	Template TL-B 1
530 2727	Template TL-B 140
530 2734	Template TL-B 190
530 2758	Template TL-B 11/2
530 2765	Template TL-B 2
530 2772	Template TL-B 21/2
530 3898	Template TL-B 2 ¹ /4

2.2 Punch



Ref.no. Designation 530 2789 Punch TS-B 1 – 140 – 190		
530 2789 Punch TS-B 1 – 140 – 190	Ref.no.	Designation
	530 2789	Punch TS-B 1 – 140 – 190
530 2796 Punch TS-B $1^{1}/_{2} - 2 - 2^{1}/_{4}$	530 2796	Punch TS-B 11/2 - 2 - 21/4
530 2806 Punch <i>TS-B</i> 2 ¹ / ₂	530 2806	Punch TS-B 21/2

For punching holes in the belt for the bolt fasteners. The rubber left in the tool is automatically ejected during repeated use.

2.3 Wrench



Ideal for use where working height is restricted.

Ref.no.	Designation
530 2813	Wrench TH-B 1 – 140 – 190
530 2820	Wrench TH-B 11/2 - 2 - 21/4
530 2837	Wrench TH-B 21/2

The wrench and socket are designed to safely tighten the nuts.



2.4 Socket



Ref.no.	Designation
530 2844	Socket TA-B 1 – 140 – 190
530 2851	Socket TA-B 11/2 - 2 - 21/4
530 2868	Socket TA-B 21/2

2.5 Bolt breaker



Ref.no.	Designation (one pair)	
530 2875	Bolt breaker 1 - 140 - 190	
530 2882	Bolt breaker 11/2 - 2 - 21/4	
530 2899	Bolt breaker 21/2	

The bolt breakers are used to break protruding screw ends. They should always be used in pairs in order to ensure easy and safe handling.

2.6 REMACLIP Shark Tooth Clips



The Shark Tooth Clips are available in 8 different sizes. The Shark Tooth Clips are mainly used for repairs to tears or other belt damage or as a temporary joint when installing lengths of belt.

Ref.no.	Designation	Belt thickness	Tooth length	Width
		up to [mm]	[mm]	[mm]
530 4000	Shark Tooth Clip TT-R 4	4	8	12
530 4017	Shark Tooth Clip TT-R 6	6	10	14
530 4024	Shark Tooth Clip TT-R 8	8	12	17
530 4031	Shark Tooth Clip TT-R 10	10	16	23
530 4048	Shark Tooth Clip TT-R 13	13	20	25
530 4055	Shark Tooth Clip TT-R 15	15	23	30
530 4062	Shark Tooth Clip TT-R 18	18	29	35
530 4079	Shark Tooth Clip TT-R 21	21	38	43

Contents of box: 100 pieces

2. REMACLIP – Accessories

2.7 Connecting pins – available in 5 different versions:



Connecting pin *T10, T12, T16* Version: galvanized steel wire pin Recommended field of application: short operation time

Connecting pin *T10C*, *T12C*, *T16C* Version: stainless steel wire pin Recommended field of application: short operation time



Connecting pin *TT10S*, *TT12S*, *TT16S* Version: sheathed stainless steel wire pin (sheath of chrome steel) Recommended field of application: heavy-duty connecting pin, suitable for all fields of application



Connecting pin TT10SG, TT12SG, TT16SG

Version: screw-type sheathed stainless steel pin (sheath of chrome steel) **Recommended field of application:** Heavy-duty connecting pin for all fields of application, to be inserted with the use of the *THS* wrench



Connecting pin TT10N, TT12N, TT16N

Version: Nylon-coated steel wire pin

Recommended field of application: for low-tension belts; during belt operation, the Nylon coating deforms to suit the profile of the belt fasteners so as to prevent the connecting pin from slipping out of the splice

Connecting pips for belt for belt suitable for the following systems and belt thicknes					nesses:				
Designation	width [mm]	Ref.no.	TTN/TTE	TTM	TTP	TTN/TTE	TTM	TTP	TTN/TTE
Designation	matir [iiiii]	Kei.no.	5-11	6-11	5-11	9-12	10-15	10-14	11-16
T10	600	530 4433	•	•	•	7 12	10 10	10 11	11.10
galvanized steel wire pin	800	530 2923	•	•	•				
minimum diameter: 5.3 mm	1.000	530 2930	•	•	•				
	1.200	530 2947	•	•	•				
10	1.400	530 2954	•	•	•				
T10C	800	530 3049	•	•	•				
stainless steel wire pin	1.000	530 3056	•	•	•			-	
minimum diameter: 5.3 mm	1.200	530 3063	•	•	•				
TT105	600	530 3070		•	•				
sheathed stainless steel wire nin	800	530 4440	•	•	•				
sheath: chrome steel	1 000	530 3100	•	•	•				
minimum diameter: 5.3 mm	1.200	530 3180	•	•	•				
	1.400	530 3197	•	•	•				
TT10SG	800	530 3283	•						
screw-type sheathed stainless steel pin	1.000	530 3290	•						
sheath: chrome steel	1.200	530 3300	•						
minimum diameter: 5.3 mm	1.400	530 3317	•						
TT10N	600	530 4385	•	•	•				
Nylon-coated steel wire pin	800	530 4392	•	•	•				
minimum diameter: 5.6 mm	1.000	530 4402	•	•	•				-
	1.200	530 44 19	•	•					1
T12	600	530 4420		-	•	•	•	•	_
alvanized steel wire nin	800	530 2961				•	•	•	-
minimum diameter: 5.6 mm	1.000	530 2978				•	•	•	-
	1.200	530 2985	-			•	•	•	
176	1.400	530 2992				•	•	•	-
T12C	800	530 3087	- /			•	•	•	1
stainless steel wire pin	1.000	530 3094				•	•	•	
minimum diameter: 5.4 mm	1.200	530 3104				•	•	•	
	1.400	530 3111				•	•	•	
TT12S	600	530 4684				•	•	•	
sheathed stainless steel wire pin	800	530 3207				•	•	•	
sheath: chrome steel	1.000	530 3214				•	•	•	
minimum diameter: 6.4 mm	1.200	530 3221			-	•	•	•	
TT125C	1.400	530 3238				•	•		
screw-type sheathed stainless steel nin	1 000	530 3324				•			-
sheath: chrome steel	1.200	530 3348	-		_	•			
minimum diameter: 6.4 mm	1.400	530 3355				•			
TT12N	600	530 4457				•	•	•	7
Nylon-coated steel wire pin	800	530 4464				•	•	•	
minimum diameter: 6.4 mm	1.000	530 4471				•	•	•	
	1.200	530 4488				•	•	•	
	1.400	530 4495				•	•	•	
T16	800	530 3001						-	•
galvanized steel wire pin	1.000	530 3018							•
minimum diameter: 6.9 mm	1.200	530 3025							•
T14C	1.400	530 3032							
stainless steel wire nin	1,000	530 3126							•
minimum diameter: 6.9 mm	1 200	530 3142							•
	1.400	530 3159						~	•
TT16S	800	530 3245							•
sheathed stainless steel wire pin	1.000	530 3252							•
sheath: chrome steel	1.200	530 3269							•
minimum diameter: 7.1 mm	1.400	530 3276							•
TT16SG	800	530 3362	-	-					•
screw-type sheathed stainless steel pin	1.000	530 3379							•
sheath: chrome steel	1.200	530 3386							•
minimum diameter: 7.1 mm	1.400	530 3393							•
Nylon coated steel wire pin	1 000	530 4505	-					-	
minimum diameter: 7.5 mm	1.000	530 4512							•
maintern diameter. 7.5 milli	1 400	530 4536							•
	1.100	000 1000							

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2.8 Wave Stop System





The Wave Stop System is suitable for belts of up to 1.600 N/mm. The installation of the systems *TTN* and *TTE* leads to compression of the belt which may in certain situations result in a "wave-shaped" deformation of the belt. Such deformation is eliminated by installing a tension cable (i.e. "Wave Stop System") between the belt and the belt fasteners. As a result, it is easier to insert the connection pin; the belt runs evenly over belt scrapers; wear is minimised, and excessive stress on the belt edges is avoided.

TWS-Kit

Ref.no.	Designation
530 3654	TWS-Kit (in metal case) consisting of: tension unit, 2 clamps, 20
	tension cables with locking plate (2.600 mm), cutting pliers, spacer.

TWS-Mounting Set

Ref.no.	Designation		
530 3661	TWS-Mounting Set (10 pcs each) consisting of: clamp, tension screw		
	holder, tension screw M6, wing nut M6 VZ		

TWS-tension cable with locking plate

Ref.no.	Designation
530 3678	TWS-tension cable with locking plate length: 1.800 mm (20 pcs)
530 3685	TWS-tension cable with locking plate length: 2.600 mm (20 pcs)

2.9 Belt planers

Planing is recommended for belt rubber covers thicker than 2 mm. The planer makes it possible to plane belt rubber covers quickly and accurately. Planing provides a proven advantage: the belt fasteners are "recessed" in the belt cover, thereby reducing or avoiding the risk of damage to belt fasteners, scrapers, rollers, drive pulleys or tail pulleys.

Ref.no.	Designation	
530 4639	Belt planer for frames TS	System TTN + TTE (5 - 20 mm)
530 4646	Spare blade for planer (530 4639)	
530 4691	Belt planer for frames TS	System TTN + TTE (15 - 30 mm)
530 4701	Spare blade for planer (530 4691)	

2.10 Hand wrench THS

Wrench for TT SG screw-type connecting pins

Ref.no.	Designation
530 2909	Hand wrench THS

2.11 Hammer pin driver

Ref.no.	Designation
530 4660	Hammer pin driver

3. Our product range



3. Our product range

Our specialists are also available for consultation in the following areas:

Conveyor belt maintenance:

- Rubber and ceramic covers for drums
- Rubber covers for rollers (return idlers, etc.)
- Impact damping equipment
- Lateral guiding systems
- · Belt cleaning systems
- Conveyor belt splicing and repair systems
- · Cleats and corrugated edges
- Dust sealing systems

Wear Protection:

- Rubber liners
- Polyurethane liners
- Non-stick liners
- Ceramic liners
- Tube liners
- · Components made of special rubber
- · Liners for mills
- Rubber and polyurethane screen mats

Corrosion protection:

- Vulcanised and non-vulcanised soft rubber lining materials
- Hard rubber liners
- PU coating systems
- Polycarbamide coatings
- Flake coating systems

Bonding systems and solutions

Specialist tools and accessories















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