



*Quality products made in Norway for rough climatic situations* 

# ALUMINIUM CROSS BARS 22kV

January 2025

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## ALUMINIUM CROSS BARS 22kV

### USAGE

Aluminum crossbars have the same usage as crossbars made of wood or steel. With various types of attachment, they can be mounted on all types of poles; wood, composite, aluminum and steel.

## ANODIZED ALUMINIUM CROSSBARS AS STANDARD

All crossbars made by EL-tjeneste AS are anodized with a dark brown color, this helps corrosion resistance and make them less visible in surrounding environment. The color is UV resistant and reduces light reflection.

## ANODIZING

By using the correct material in attached components, aluminum is the best alternative for use in crossbars. When exposed to air, aluminum will form a protective layer of oxide. This means that it is a well suited for material where cutting or drilling is needed. To further improve corrosion and wear resistance, anodizing will increase the thickness of the natural oxide layer.

Since the layer of oxide is an integrated part of the material, it can handle rougher use and is less prone for corrosion in harsh climate.

EL-tjeneste AS delivers anodized crossbars with a minimum thickness of 15my.

Some of the benefits of using anodized crossbars:

Environmentally friendly, suitable for recycling.

Corrosion resistance

Esthetics

Blends in with the surroundings

## USE IN CORROSIVE ENVIROMENT

Special considerations must be taken when used in corrosive environment. Grease can prevent moisture between materials and connection points. See www.el-tjeneste.no for more information.

## CROSSBAR ARRANGEMENT AND DATASHEET

On our webpage www.el-tjeneste.no arrangement of the various crossbars, accessories and datasheet can be found. This can be downloaded and is useful during the projecting phase. Each product has a label with a QR-code, this will lead to the product on the webpage.

ALUMINIUM PRODUCTS USED IN POWER TRANSMISSION AND DISTRIBUTION

EL-tjeneste AS has delivered aluminum crossbars since 1996, they a have well proven durability. In Norway it has become the most common material for use in crossbars.

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El-no	Name	Description	Unit	Picture
2836452	AL-Washer SA120-22	Washer length 120mm. Hole 1xØ22mm. Important: always to be used to the crossbar together with pole clamp.	PCS	·
2836611	Anch. crossbar TA2006D-3S	Anchoring crossbar for two-sided connection. 2-pole. Pole distance 2m, phase distanse 2m. Twin pole clamp. Oblong hole distance 280mm.	PCS	
2857850	Anch. crossbar TA2020BH-3S	Anchoring crossbar for two-sided connection. 2-pole. Pole distance 2m, phase distanse 2m. Must always be used with support. Bolted connection M24.	PCS	
2836679	Anch. crossbar TA2020D-34-3S	Anchoring crossbar for two-sided connection. 2-pole. Pole distance 2m, phase distanse 2m. Twin pole clamp. Oblong hole distance 340mm.	PCS	
2836432	Anch. crossbar TA2020D-3S	Anchoring crossbar for two-sided connection. 2-pole. Pole distance 2m, phase distanse 2m. Twin pole clamp. Oblong hole distance 280mm.	PCS	
2836888	Anch. crossbar TA22-3S	Anchoring crossbar for two-sided connection. 2-pole. Pole distance 2m, phase distanse 2m. Oblong hole distance 280mm.	PCS	1 dente
2836873	Anch. crossbar TA22S	Anchoring crossbar for two-sided connection. 2-pole. Pole distance 2m, phase distanse 2m. Oblong hole distance 280mm.	PCS	3.3
2836683	Anch. crossbar TA2525D-34-3S	Anchoring crossbar for two-sided connection. 2-pole. Pole distance 2,5m, phase distanse 2,5m. Twin pole clamp. Oblong hole distance 280mm.	PCS	
2836603	Anch. crossbar TA2525D-3S	Anchoring crossbar for two-sided connection. 2-pole. Pole distance 2,5m, phase distanse 2,5m. Twin pole clamp. Oblong hole distance 280mm.	PCS	
2837449	Anch. crossbar TAF2006-8S	Anchoring crossbar for one-sided and two-sided connection. 2-pole Pole distance 2m, phase distanse 0,6m.	PCS	
2837433	Anch. crossbar TAF2020-34-8	S Anchoring crossbar for one-sided and two-sided connection. 2-pole Pole distance 2m, phase distanse 2m. Oblong hole distance 340mm.	PCS	<b>Second</b>
2836680	Anch. crossbar TAF2020D-34-8S	Anchoring crossbar for one-sided and two-sided connection. 2-pole Pole distance 2m, phase distanse 2m.	PCS	Sec. 1
2836804	Anch. crossbar TAF22-8S	Anchoring crossbar for one-sided and two-sided connection. 2-pole Pole distance 2m, phase distanse 2m.	PCS	No.
2836639	Anch. crossbar TAF2525-44-8	SAnchoring crossbar for one-sided and two-sided connection. 2-pole Pole distance 2,5m, phase distanse 2,5m. Oblong hole distance 420mm.	PCS	

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El-no	Name	Description	Unit	Picture
2836687	Anch. crossbar TAF2525D-34-8S	Anchoring crossbar for one-sided and two-sided connection. 2-pole Pole distance 2,5m, phase distanse 2,5m. Twin pole clamp.	PCS	
2836607	Anch. crossbar TAF2525D-8S	Anchoring crossbar for one-sided and two-sided connection. 2-pole Pole distance 2,5m, phase distanse 2,5m. Twin pole clamp.	PCS	
2836842	Anch. crossbar TF11S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 1m, phase distanse 1m.	PCS	No. of Street,
2836886	Anch. crossbar TF18S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 1m, phase distanse 0,8m.	PCS	S
2836612	Anch. crossbar TF2015-07-3S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 2m, phase distanse 1,5m to 0,7m.	PCS	Contraction of the
2857849	Anch. crossbar TF2020BH-7S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 2m, phase distanse 2m. Must always be used with support. Bolted connection M24.	PCS	a da an
2836846	Anch. crossbar TF215-3S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 2m, phase distanse 1,5m.	PCS	b)
2836874	Anch. crossbar TF215S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 2m, phase distanse 1,5m.	PCS	N.
2836805	Anch. crossbar TF22-7S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 2m, phase distanse 2m. Must always be used with support. Oblong hole distance 280mm.	PCS	and a second
2836875	Anch. crossbar TF22S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 2m, phase distanse 2m.	PCS	Sec. 1
2836684	Anch. crossbar TF2525D-34-7	SAnchoring crossbar for one-sided connection. 2-pole. Pole distance 2,5m, phase distanse 2,5m. Twin pole clamp.	PCS	1 Daniel
2836604	Anch. crossbar TF2525D-7S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 2,5m, phase distanse 2,5m. Twin pole clamp.	PCS	1 Daniel
2836803	Anch. crossbar TF26-3S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 2m, phase distanse 0,6m.	PCS	No. Contraction
2836885	Anch. crossbar TF27S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 2m, phase distanse 0,7m.	PCS	
2836887	Anch. crossbar TF87S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 0,8m, phase distanse 0,7m.	PCS	No and a
2836892	Anch. crossbar TFA1S	Anchoring crossbar for one-sided connection with stay bar. 1-pole A. Phase distance 1m.	PCS	X
2836839	Anch. crossbar TFD2006-3S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 2,0m, phase distanse 0,6m. For twin-pole BLL.	PCS	C. S. S. S.

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El-no	Name	Description	Unit	Picture
2836844	Anch. crossbar TFD2046-3S	Anchoring crossbar for one-sided connection. 2-pole. Pole distance 2m, phase distanse 0,46m. For twin-pole BLL.	PCS	S. Same
2836898	Anch. crossbar TFE6S	Anchoring crossbar for one-sided connection with middle support. 1-pole. Phase distance 0,6m.	PCS	1
2837432	Anch.crossbar TA2020-34-3S	Anchoring crossbar for two-sided connection. 2-pole. Pole distance 2m, phase distanse 2m. Oblong hole distance 340mm.	PCS	
2836660	Antiskid SKK-1-24	Antiskid for poles. 1xM24.	PCS	ŀ
2836658	Antiskid SKK-2-20	Antiskid for poles. 2xM20.	PCS	Ì
2836455	Antiskid SKK-2-24	Antiskid for poles. 2xM24.	PCS	
2857827	Bird deflector FAUS	Kit with four bird deflectors for mounting on crossbar. For live working and 1,5m phase distance.	PCS	Managar Managar Managar
2836816	Bird deflector FVT	Bird deflector made of a UV-resistant, transparent plastic material. Comes with plastic strips to attach the bird deflector to a crossbar.	PCS	
2836826	Bird protection bracket HSAU	SBird protection bracket. Phase 1,5m. For live working.	SET	
2836817	Bird protection bracket HSFB	Bird protection bracket. Phase 1,5m.	SET	
2836448	Counter nut PAL-M20 VF DIN7967	Self locking counter nut to secure nuts. These are made of spring-like steel and is a better alternative than using regular nuts as counter nut.	PCS	0
2836447	Counter nut PAL-M24 VF DIN7967	Self locking counter nut to secure nuts. These are made of spring-like steel and is a better alternative than using regular nuts as counter nut.	PCS	0
2836820	Crossbar for transformer TRB2S	Crossbar for transformer. Pole distance 2m (H).	SET	
2836818	Crossbar for transformer TRB2S-A5	Crossbar for transformer. Pole distance 2m (A 1:5).	SET	$\checkmark$
2836819	Crossbar for transformer TRB2S-A6,5	Crossbar for transformer. Pole distance 2m (A 1:6,5).	SET	$\langle$
2836821	Crossbar for transformer TRBE2S	Crossbar for transformer. Pole distance 2m (H).	SET	
2837440	Crossbar for transformer TRBF1S	Crossbar for transformer. Pole distance 2m (H).	SET	
2836495	Crossbar support insulator TS	KCrossbar for support isolator.	PCS	
2836409	Crossbar support ST107-34	Support for crossbar width 107mm. Oblong hole distance 340mm.	PCS	

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El-no	Name	Description	Unit	Picture
2836442	Crossbar support ST107-42	Support for crossbar width 107mm. Oblong hole distance 420mm.	PCS	Ľ
2836445	Crossbar support ST107-50	Support for crossbar width 107mm. Oblong hole distance 500mm.	PCS	Ę
2836746	Crossbar support ST107S	Support for crossbar width 107mm. Oblong hole distance 280mm.	PCS	H
2836407	Crossbar support ST160-34	Support for crossbar width 160mm. Oblong hole distance 340mm. Always to be used with crossbar profile 7 (160x230).	PCS	
2836427	Crossbar support ST160-42	Support for crossbar width 160mm. Oblong hole distance 420mm. Always to be used with crossbar profile 7 (160x230).	PCS	
2836428	Crossbar support ST160-50	Support for crossbar width 160mm. Oblong hole distance 500mm. Always to be used with crossbar profile 7 (160x230).	PCS	
2836494	Crossbar support ST160-58	Support for crossbar width 160mm. Oblong hole distance 580mm. Always to be used with crossbar profile 7 (160x230).	PCS	
2836732	Crossbar support ST160S	Support for crossbar width 160mm. Oblong hole distance 580mm. Always to be used with crossbar profile 7 (160x230).	PCS	
2836895	Crossbar support ST1S	Support for line switch crossbar width 107mm.	PCS	
2836408	Crossbar support ST230-34	Support for crossbar width 230mm. Oblong hole distance 340mm. Always to be used with crossbar profile 7 (230x160).	PCS	
2836425	Crossbar support ST230-42	Support for crossbar width 230mm. Oblong hole distance 420mm. Always to be used with crossbar profile 7 (230x160).	PCS	
2836426	Crossbar support ST230-50	Support for crossbar width 230mm. Oblong hole distance 500mm. Always to be used with crossbar profile 7 (230x160).	PCS	
2836745	Crossbar support ST230S	Support for crossbar width 230mm. Oblong hole distance 280mm. Always to be used with crossbar profile 7 (230x160).	PCS	
2836406	Crossbar support ST83-34	Support for crossbar width 83mm. Oblong hole distance 340mm.	PCS	
2836739	crossbar support ST83S	Support for crossbar width 83mm. Oblong hole distance 280mm.	PCS	
2836605	Crossbar T3O-2525-1S	Crossbar for face wire loop (3E/3A). Pole distance 2,5m, phase distance 2,5m Oblong hole distance 280mm.	PCS	
2836836	Earthing clamp J10	Earthing clamp M10. Fits all crossbars with M10 profile tracks. For all crossbars except cable cross bars.	PCS	

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El-no	Name	Description	Unit	Picture
2836837	Earthing clamp J10V	Earthing clamp M10 90-degree. For all crossbars except cable cross bars. For earth wire KHF25-50.	PCS	
2837477	Guy-wire Bracket BFE	Bracket for TE5TS and TFE6S for Guy-wire mount	PCS	20
2836834	Insolator bracket PF107	Insolator bracket for crossbars 107x160mm. With fasteners.	PCS	
2836833	Insolator bracket PF120	Insolator bracket for crossbars 120x80mm. With fasteners.	PCS	
2836852	Insolator bracket PF160-P3	Insolator bracket for crossbars 160x107mm. With fasteners.	PCS	
2836835	Insolator bracket PFF	Insolator bracket for bypass crossbars 80x120mm. With fasteners.	PCS	
2836642	Insolator bracket PFL	Insolator bracket for crossbars 107x160mm. With fasteners.	PCS	
2836893	Insolator bracket PFS	Insolator bracket for crossbars 107x57,5mm. With fasteners.	PCS	
2836641	Line switch crossbar TB25BK-1S	Line switch crossbar. 2-pole. Pole distance 2,5m.	PCS	1212
2836889	Line switch crossbar TB2BKS	Line switch crossbar. 2-pole. Pole distance 2m.	PCS	12 CO
2836890	Line switch crossbar TB8BKS	Line switch crossbar. 2-pole. Pole distance 0,8m.	PCS	tie e el
2836891	Line switch crossbar TBE1S	Line switch crossbar. 1-pole. With metal rod.	PCS	1
2836437	Load-bearing crossbar T1212-2PF	Load-bearing crossbar. 2-pole. Pole distance 1,2m, phase distanse 1,2m. With bracket for suspended mounting in pole-direction.	PCS	
2836880	Load-bearing crossbar T18S	Load-bearing crossbar. 2-pole. Pole distance 1m, phase distanse 0,8m. For insulator pin.	PCS	and the second
2836610	Load-bearing crossbar T2006-2PF	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 0,6m. With bracket for suspended mounting in pole-direction.	PCS	and a second
2836485	Load-bearing crossbar T2020-2PF	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 2m. With bracket for suspended mounting in pole-direction.	PCS	
2837430	Load-bearing crossbar T2020-34-4S	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 2m. Oblong hole distance 340mm.	PCS	
2837431	Load-bearing crossbar T2020-34-5S	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 2m. Oblong hole distance 340mm.	PCS	

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El-no	Name	Description	Unit	Picture
2857848	Load-bearing crossbar T2020BH-4S	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 2m. Must always be used with support. Bolted connection M24.	PCS	
2836677	Load-bearing crossbar T2020D-34-4S	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 2m. Twin pole clamp.	PCS	
2836879	Load-bearing crossbar T212S	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 1,2m. For insulator pin.	PCS	1010
2836877	Load-bearing crossbar T215S	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 1,5m. For insulator pin.	PCS	State of
2857861	Load-bearing crossbar T215TM-1S	Top mounted load-bearing crossbar for 2 pole. Pole diameter 180-275mm Pole distance 2m, phase distanse 1,5m. For insulator pin. To be used if poles are to short. Poleclamp and bolt not included, washers are included.	PCS	T
2836435	Load-bearing crossbar T2206-2PF	Load-bearing crossbar. 2-pole. Pole distance 2,2m, phase distanse 0,6m. With bracket for suspended mounting in pole-direction.	PCS	
2837448	Load-bearing crossbar T2206-3PF	Load-bearing crossbar. 2-pole. Pole distance 2,2m, phase distanse 0,6m. With bracket for suspended mounting in pole-direction.	PCS	
2836870	Load-bearing crossbar T22-4S	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 2m.	PCS	Les Contra
2836897	Load-bearing crossbar T22-5S	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 2m.	PCS	In the second
2836871	Load-bearing crossbar T22S	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 2m.	PCS	5-3-0-0
2857860	Load-bearing crossbar T2525BH-4S	Load-bearing crossbar. 2-pole. Pole distance 2,5m, phase distanse 2,5m. Must always be used with support. Bolted connection M24.	PCS	
2836682	Load-bearing crossbar T2525D-34-4S	Load-bearing crossbar. 2-pole. Pole distance 2,5m, phase distanse 2,5m. Twin pole clamp.	PCS	and the second
2836688	Load-bearing crossbar T2525D-34-5S	Load-bearing crossbar. 2-pole. Pole distance 2,5m, phase distanse 2,5m. Twin pole clamp.	PCS	
2836689	Load-bearing crossbar T2525D-34-6S	Load-bearing crossbar. 2-pole. Pole distance 2,5m, phase distanse 2,5m. Twin pole clamp.	PCS	and the second
2836600	Load-bearing crossbar T2525D-4S	Load-bearing crossbar. 2-pole. Pole distance 2,5m, phase distanse 2,5m. Twin pole clamp.	PCS	and the second

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El-no	Name	Description	Unit	Picture
2836601	Load-bearing crossbar T2525D-5S	Load-bearing crossbar. 2-pole. Pole distance 2,5m, phase distanse 2,5m. Twin pole clamp.	PCS	
2836602	Load-bearing crossbar T2525D-6S	Load-bearing crossbar. 2-pole. Pole distance 2,5m, phase distanse 2,5m. Twin pole clamp.	PCS	
2836882	Load-bearing crossbar T28S	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 0,8m. For insulator pin. BLX.	PCS	Jan 19
2836881	Load-bearing crossbar T86S	Load-bearing crossbar. 2-pole. Pole distance 0,8m, phase distanse 0,6m. For insulator pin. BLX.	PCS	10.0
2836843	Load-bearing crossbar TD2005-2S	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 0,5m. For twin-pole BLL.	PCS	
2837494	Load-bearing crossbar TE122-255-2S	Top mounted load-bearing crossbar for 1 pole. With bracket for suspended mounting in pole-direction. Pole diameter ø210-255.	PCS	$\triangleleft$
2836878	Load-bearing crossbar TE12S	Load-bearing crossbar with stay bar. 1-pole. Phase distance 1,2m. For insulator pin.	PCS	$\checkmark$
2836872	Load-bearing crossbar TE15S	Load-bearing crossbar with stay bar. 1-pole. Phase distance 1,5m. For insulator pin.	PCS	$\checkmark$
2836883	Load-bearing crossbar TE5S	Load-bearing crossbar with stay bar. 1-pole. Phase distance 0,5m. For insulator pin. BLX.	PCS	
2836899	Load-bearing crossbar TE5TS	Load-bearing crossbar with middle support. 1-pole. Phase distance 0,5m. For insulator pin. BLX.	PCS	
2836827	Load-bearing crossbar TP2005-2S	Load-bearing crossbar. 2-pole. Pole distance 0,8m, phase distanse 0,6m. For insulator pin and twin-pole BLL.	PCS	3 3-1-1-1
2836845	Load-bearing crossbar TP22-2S	Load-bearing crossbar. 2-pole. Pole distance 2m, phase distanse 2m. For insulator pin.	PCS	1 dente
2857862	Load-bearing crossbar TPE15TM-1S	Top mounted load-bearing crossbar for 1 pole. Pole diameter 180-275mm Phase distanse 1,5m. For insulator pin. To be used if poles are to short. Pole clamp and bolt not included, washers included.	PCS	Ţ
2836465	Mounting bolt MBS16-350	Mounting bolt with aluminium washer for fastening support rod for crossarm on single composite utility pole.	PCS	
2837410	Overhead kabel bracket BLK	Overhead kabel bracket set. With phase bracket B107 and pole clamp MK1630.	PCS	

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El-no	Name	Description	Unit	Picture
2836869	Pendulum suspension PF2	Pendulum suspension for chain insulator. For crossbar profile P2.	SET	
2836446	Pendulum suspension PF3	Pendulum suspension for chain insulator. For crossbar profile P3.	PCS	
2836862	Phase bracket B107E	Phase stirrup bracket one-sided anchor. Suits crossbar P3, width 107. Unit set of 3.	SET	$\mathcal{Q}$
2836866	Phase bracket B107EA	Phase stirrup bracket one-sided. Suits crossbar TFA1S. Unit set of 3.	SET	
2836863	Phase bracket B107T	Phase stirrup bracket two-sided anchor. Suits crossbar P3, width 107. Unit set of 3.	SET	Ø
2836865	Phase bracket B107TA	Phase stirrup bracket two-sided. Suits crossbar P1, width 107. Unit set of 3.	SET	Ø
2836864	Phase bracket B120TA	Phase stirrup bracket two-sided. Suits crossbar P2, width 120. Unit set of 3.	SET	$\mathcal{O}$
2836847	Phase bracket B160-8E	Phase stirrup bracket one-sided. Suits crossbar P3, P8, width 160. Unit set of 3.	SET	D
2836851	Phase bracket B160-8T	Phase stirrup bracket two-sided. Suits crossbar P3, P8, width 160.	SET	$\mathcal{O}$
2836743	Phase bracket B160T2	Phase stirrup bracket two-sided for toppline. Suits crossbar P3, P8, width 160. Unit set of 2.	SET	$\theta$
2836860	Phase bracket B80E	Phase stirrup bracket one-sided. Suits crossbar P2, width 80. Unit set of 3.	SET	Ø
2836861	Phase bracket B80T	Phase stirrup bracket two-sided. Suits crossbar P2, width 80. Unit set of 3.	SET	B
2836867	Phase bracket BE80T	Phase stirrup bracket two-sided with pole clamp. Suits crossbar TFE6S. Unit set of 3.	SET	A CON
2836730	Phase bracket BH65	Phase stirrup bracket. For crossbar P4, P5, width 65. Unit set of 3.	SET	0
2836747	Phase bracket F160-3TA	Phase bracket two-sided. For crossbar P3 width 160. Unit set of 3.	SET	Ŵ
2836733	Phase bracket F160-8E	anchorsfeste one-sided. For crossbar P8, width 160. Unit set of 3.	SET	

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El-no	Name	Description	Unit	Picture
2836640	Phase bracket F160-8E2	anchorsfeste one-sided. For crossbar P8, width 160. Unit set of 2.	SET	<b>I</b>
2836749	Phase bracket F160-8TA	Phase bracket two-sided. For crossbar P8, width 160. Unit set of 3.	SET	<b>S</b>
2836735	Phase bracket F160T	Anchor bracket . two-sided. For crossbar P7, width 160. Unit set of 3.	SET	
2836797	Phase bracket F160T2	Phase bracket . two-sided. For crossbar P7, width 160. Unit set of 2.	SET	
2836412	Phase bracket F230E	Phase bracket . one-sided. For crossbar P7, width 230. Unit set of 3.	SET	
2836609	Phase bracket F230T	Phase bracket . two-sided. For crossbar P7, width 230. Unit set of 3.	SET	Ŵ
2836615	Phase bracket FFK1-5	Phase bracket for A-pole 1:5 angle ratio. Distance upper holes: 847mm. For 1 pole. Delivered with square washers without bolts.	PCS	4
2837442	Phase bracket FFK1-5-530	Phase bracket for A-pole 1:5 angle ratio. Distance upper holes: 530mm. For 1 pole. Delivered with square washers without bolts.	PCS	4
2836742	Phase bracket FH160E	Phase bracket . For crossbar P7, width 160. Unit set of 3.	SET	
2836740	Phase bracket FH65	Phase bracket. For crossbar P4, P5, width 65. Unit set of 3.	SET	
2836741	Phase bracket FH83	Phase bracket . For crossbar P6, width 83. Unit set of 3.	SET	
2836781	Phase bracket FH95	Phase bracket. For crossbarer P9, width 95. Unit set of 3.	SET	<b>S</b>
2836789	Phase bracket FHO160	Phase bracket for omførings-isolator. For crossbar height max 170mm and bolt M20. Unit set of 3.	SET	ţ
2836744	Phase/wire bracket FB160	Phase/wire bracket two-sided. With bolts M20 and bolt distance 182-218mm.	PCS	4
2836748	Phase/wire bracket FB200	Phase/wire bracket two-sided. With bolts M24 and bolt distance 182-218mm.	PCS	
2837474	Phase/wire bracket FB200-3T	Phase/wire bracket two-sided with 3 wire holes. With bolts M24 and bolt distance 182-218mm.	PCS	

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El-no	Name	Description	Unit	Picture
2836613	Phase/wire bracket FFE160	Phase/wire bracket one-sided. With bolts M20 and bolt distance 182-218mm.	PCS	
2836484	Phase/wire bracket FFE200	Phase/wire bracket one-sided. With bolts M24 and bolt distance 182-218mm.	PCS	
2837475	Phase/wire bracket FFE200-3	Phase/wire bracket one-sided with 3 holes for wires. With bolts M24 and bolt distance 182-218mm.	PCS	
2836752	Pole clamp MK1624	Aluminum pole clamp with bolts M20x250. For pole diameter Ø180-200. Selection table with regards to crossbar type and pole diameter is on our website.	PCS	
2836750	Pole clamp MK1630	Aluminium pole clamp with bolts M20x350. For pole diameter Ø180-275. Selection table with regards to crossbar type and pole diameter is on our website.	PCS	~
2836754	Pole clamp MK2432	Aluminium pole clamp with bolts M20x400. For pole diameter Ø190-280. Selection table with regards to crossbar type and pole diameter is on our website.	PCS	$\langle$
2836753	Pole clamp MK2433	Aluminium pole clamp with bolts M20x500. For pole diameter Ø240-330. Selection table with regards to crossbar type and pole diameter is on our website.	PCS	$\langle$
2836759	Pole clamp MK3337	Aluminium pole clamp with bolts M20x600. For pole diameter Ø300-370. Selection table with regards to crossbar type and pole diameter is on our website.	PCS	$\langle$
2836690	Pole clamp MKS2530	Steel pole clamp for pole diameter Ø250-300mm. Hot-dip galvanzied. For boltsize M20. Bolts, nuts and washers not included. Selection table with regards to bolt length, crossbar type and pole diameter is on our website.	PCS	
2836691	Pole clamp MKS3035	Steel pole clamp for pole diameter Ø300-350mm. Hot-dip galvanzied. For boltsize M20. Bolts, nuts and washers not included. Selection table with regards to bolt length, crossbar type and pole diameter is on our website.	PCS	
2836617	Pole clamp MKS3544	Steel pole clamp for pole diameter Ø350-440mm. Hot-dip galvanzied. For boltsize M20. Bolts, nuts and washers not included. Selection table with regards to bolt length, crossbar type and pole diameter is on our website.	PCS	
2836618	Pole clamp MKS4453	Steel pole clamp for pole diameter Ø440-530mm. Hot-dip galvanzied. For boltsize M20. Bolts, nuts and washers not included. Selection table with regards to bolt length, crossbar type and pole diameter is on our website.	PCS	

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El-no	Name	Description	Unit	Picture
2836665	Pole clamp MKS5360	Steel pole clamp for pole diameter Ø530-600mm. Hot-dip galvanzied. For boltsize M20. Bolts, nuts and washers not included. Selection table with regards to bolt length, crossbar type and pole diameter is on our website.	PCS	
2857863	Pole diagonal cross STK10	Pole diagonal cross for wood and composite poles. Pole distance: 1m. Fixing bracket 2xØ22mm. Fasteners not included.	PCS	4
2836410	Pole diagonal cross STK17-20	Pole diagonal cross for wood and composite poles. Pole distance: 1,7m. Fixing bracket 4xØ26mm. Fasteners not included.	PCS	X
2836616	Pole diagonal cross STK19	Pole diagonal cross for wood and composite poles. Pole distance: 1,9m. Fixing bracket 2xØ26mm. Fasteners not included.	PCS	4
2836792	Pole diagonal cross STK20	Pole diagonal cross for wood and composite poles. Pole distance: 2m. Fixing bracket 2xØ22mm. Fasteners not included.	PCS	7
2837441	Pole diagonal cross STK25	Pole diagonal cross for wood and composite poles. Pole distance: 2,5m. Fixing bracket 2xØ22mm. Fasteners not included.	PCS	+
2836632	Stud bolt M20 GB1000	Stud bolt M20x1000 with nuts.	PCS	0
2836620	Stud bolt M20 GB250	Stud bolt M20x250 with nuts.	PCS	0
2836633	Stud bolt M20 GB250-SA	Stud bolt M20x250 with nuts, square washer and washer SA1.	PCS	
2836621	Stud bolt M20 GB300	Stud bolt M20x300 with nuts.	PCS	0
2836622	Stud bolt M20 GB350	Stud bolt M20x350 with nuts.	PCS	
2836623	Stud bolt M20 GB400	Stud bolt M20x400 with nuts.	PCS	
2836624	Stud bolt M20 GB450	Stud bolt M20x450 with nuts.	PCS	
2836625	Stud bolt M20 GB500	Stud bolt M20x500 with nuts.	PCS	
2836626	Stud bolt M20 GB550	Stud bolt M20x550 with nuts.	PCS	
2836627	Stud bolt M20 GB600	Stud bolt M20x600 with nuts.	PCS	
2836628	Stud bolt M20 GB650	Stud bolt M20x650 with nuts.	PCS	-
2836629	Stud bolt M20 GB700	Stud bolt M20x700 with nuts.	PCS	

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EL-tjeneste as

El-no	Name	Description	Unit	Picture
2836630	Stud bolt M20 GB800	Stud bolt M20x800 with nuts.	PCS	67 B
2836631	Stud bolt M20 GB900	Stud bolt M20x900 with nuts.	PCS	
2836476	Stud bolt M24 GB24-1000	Stud bolt M24x1000 with nuts and washers.	PCS	
2836469	Stud bolt M24 GB24-300	Stud bolt M24x300 with nuts and washers.	PCS	
2857838	Stud bolt M24 GB24-350	Stud bolt M24x350 with nuts and washers.	PCS	
2836470	Stud bolt M24 GB24-400	Stud bolt M24x400 with nuts and washers.	PCS	
2857839	Stud bolt M24 GB24-450	Stud bolt M24x450 with nuts and washers.	PCS	
2836471	Stud bolt M24 GB24-500	Stud bolt M24x500 with nuts and washers.	PCS	
2857840	Stud bolt M24 GB24-550	Stud bolt M24x550 with nuts and washers.	PCS	
2836472	Stud bolt M24 GB24-600	Stud bolt M24x600 with nuts and washers.	PCS	
2857841	Stud bolt M24 GB24-650	Stud bolt M24x650 with nuts and washers.	PCS	
2836473	Stud bolt M24 GB24-700	Stud bolt M24x700 with nuts and washers.	PCS	
2857842	Stud bolt M24 GB24-750	Stud bolt M24x750 with nuts and washers.	PCS	
2836474	Stud bolt M24 GB24-800	Stud bolt M24x800 with nuts and washers.	PCS	
2857843	Stud bolt M24 GB24-850	Stud bolt M24x850 with nuts and washers	PCS	
2836475	Stud bolt M24 GB24-900	Stud bolt M24x900 with nuts and washers.	PCS	
2857844	Stud bolt M24 GB24-950	Stud bolt M24x950 with nuts and washers	PCS	
2837428	Surge arrester mount AF-TA	Surge arrester mounts for use on EL-tjeneste anchoring crossbars. Designed for arresters with mounting bolt M12, or support insulator.	PCS	A A
2836791	Tower TTL	Tower for overhead shield. Load-bearing. Pole clamp and fasteners are not included.	PCS	ļ
2836454	Tower TTL-A	Tower for overhead shield. Anchoring. Phase bracket included. Pole clamp and fasteners are not included.	PCS	ļ
2836606	U-bracket BH107	U-bracket for crossbar height 107mm.	SET	ţ,
2836840	U-bracket B1	U-bracket for crossbar height 120mm.	SET	ţ,
2836479	Washer SA146D	Washer length 146mm. Hole 2xØ22mm. Important: always to be used to the crossbar together with pole clamp.	PCS	

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El-no	Name	Description	Unit	Picture
2836669	Washer SA160-27	Washer length 143mm. Hole 1xØ27mm. Important: always to be used to the crossbar together with pole clamp.	PCS	•
2836828	Washer SA160DS	Washer length 143mm. Hole 2xØ22mm. Important: always to be used to the crossbar together with pole clamp.	PCS	
2836829	Washer SA160S	Washer length 143mm. Hole 1xØ22mm. Important: always to be used to the crossbar together with pole clamp.	PCS	·
2836477	Washer SA175D	Washer length 175mm. Hole 2xØ22mm. Important: always to be used to the crossbar together with pole clamp.	PCS	
2836478	Washer SA196D	Washer length 196mm. Hole 2xØ22mm. Important: always to be used to the crossbar together with pole clamp.	PCS	• •
2836894	Washer SA1S	Washer length 80mm. Hole 1xØ22mm. Important: always to be used to the crossbar together with pole clamp.	PCS	•
2836815	Washer SA1S-27	Washer length 80mm. Hole 1xØ27mm. Important: always to be used to the crossbar together with pole clamp.	PCS	•
2836480	Washer SA211D	Washer length 211mm. Hole 2xØ22mm. Important: always to be used to the crossbar together with pole clamp.	PCS	• •
2836481	Washer SA241D	Washer length 241mm. Hole 2xØ22mm. Important: always to be used to the crossbar together with pole clamp.	PCS	
2836790	Yoke FK7	Yoke intended for composite insulators where reinforcement is required. Adapted to all composite insulators with ball coupling and bolt. Delivered in sets of 3 pcs.	SET	A ¥



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