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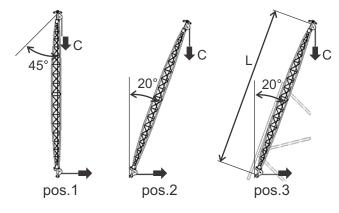
TENSION STRINGING EQUIPMENT



Ginpoles

Ginpoles are used for the erection of transmission line or telecom towers. Together with lifting winches they function similar to crane arms. Once the tower has been erected up to a certain height, the Ginpole is lifted and anchored within the tower structure for further erection until the complete tower is mounted.

We fabricate Ginpoles made of high tensile aluminium with safe lifting loads from 10KN up to 50KN (pos.1, vertical). The standard lengths of our Ginpoles range between 8 and 25 meters. Standard wise we produce Ginpoles with the superior Internal Rope Guidance System, which has integrated pulleys for the guidance of the rope. Upon request we also produce Ginpoles with external rope guidance system. We also produce longer Ginpoles length upon request. Different length are available upon request.





Lifting load is indicated in 3 positions: pos.1 vertical, pos. 2 with 20 degree inclination installed in the tower center, pos. 3 with 20 degree attached to a towerleg. <u>Please note:</u> operation of the Ginpole always requires some inclination.

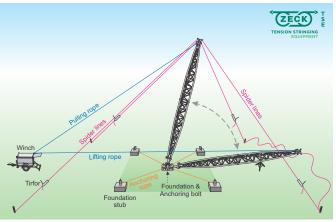
part #	part #	L	C - safe	e lifting load	(LL) (KN)	sections	weight
	Zeck GmbH	Total length m	P1 Pos.1 a = 0°	P2 Pos.2 a = 20°	P3 Pos.3 a = 20°	m	kg
GPI-01-0800	77-2220	8	10	6	2.4	4+4	75
GPI-01-1000	77-2222	10	10	6	2.4	4+2+4	88
GPI-01-1200	77-2224	12	10	6	2.4	4+4+4	99
GPI-02-1200	77-2250	12	25	15	6	4+4+4	266
GPI-02-1600	77-2252	16	25	15	6	4+4+4+4	317
GPI-02-2000	77-2254	20	25	15	6	5+5+5+5	365
GPI-03-1200	77-2270	12	35	21	8	4+4+4	276
GPI-03-1600	77-2272	16	35	21	8	4+4+4+4	325
GPI-03-2000	77-2274	20	35	21	8	5+5+5+5	373
GPI-03-2500		25	35	21	8	5+5+5+5+5	434
GPI-05-1600	77-2280	16	50	30	12	4+4+4+4	420
GPI-05-2000	77-2282	20	50	30	12	5+5+5+5	484
GPI-05-2400		24	50	30	12	5+5+5+5	564

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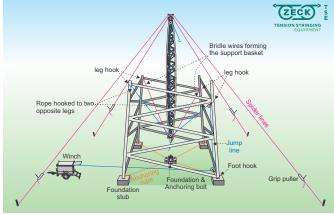
GPI-01



TENSION STRINGING EQUIPMENT

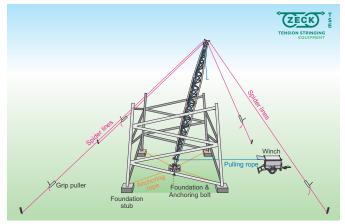


1. Assembly and Positioning of the Ginpole.

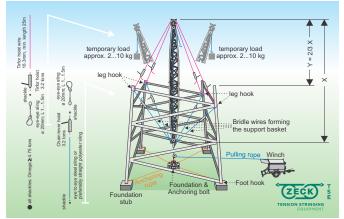


3. Lifting the Ginpole.





2. Using the Ginpole on the ground.



4. Using the Ginpole as a centrally placed floating Ginpole.



GPI-02

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SWR-01

05/2017

Pulling Ropes (braided steel)

Braided steel wire ropes are torsion free because they are made of equal numbers of left and right winding wire strands. This makes them the perfect choice for conductor stringing with capstan pullers. Our wire ropes are made of high quality strands supplied by the world leading wire rope manufacturers. The properties of our wire rope combine long endurance with high tensile strength. The strands are individually lubricated and manufactured in compliance with European Standards.



part #	part # Zeck GmbH	dia. mm	breaking Ioad KN	weight kg/m	standard production length m*	max. length with reel dia. 1,100 mm	max. length with reel dia. 1,400 mm
SWR-12-08	60-1008	8	45	0.24	1,600	3,200	6,400
SWR-12-10*	60-1010	10	72	0.32	1,000	2,000	4,000
SWR-12-11	60-1011	11	85	0.38	800	1,600	3,200
SWR-12-12	60-1012	12	90	0.42	1,400	1,400	2,800
SWR-12-13*	60-1013	13	105	0.56	1,200	1,200	2,400
SWR-12-14	60-1014	14	120	0.61	1,000	1,000	2,000
SWR-12-16*	60-1016	16	160	0.84	800	800	1,600
SWR-12-18*	60-1018	18	205	1.1	1,200		1,200
SWR-12-20*	60-1020	20	268	1.35	1,000		1,000
SWR-12-22*	60-1022	22	313	1.52	900		800
SWR-12-24*	60-1024	24	360	1.8	800		800
SWR-18-27	60-1026	26	460	2.02	600		600
SWR-18-29	60-1029	29	536	2.6	500		500

* produced on stock

** other length available upon request

Optional Equipment:

part #	part # Zeck GmbH	describtion
SWR-00-01		marking tape, indicating serial #, part #, manufacturing month

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Pulling Ropes "Heavy Duty" (braided steel)

These wire ropes are made of a special steel, which in spite of very high tensile strength remains flexibility. Our HDropes therefore have increased breaking strength in relation to their diameter.



part #	part # Zeck GmbH	no. of strands	dia. mm	breaking Ioad KN	weight kg/m	standard production length m*	max. length with reel dia. 1,100 mm	max. length with reel dia. 1,400 mm
HDR-12-22	60-1022	12	22	370	1.63	800	n/a	800
HDR-12-24	60-1024	12	24	450	1.91	800	n/a	800
HDR-18-26	60-1026	18	26	540	2.16	600	n/a	600
HDR-18-29	60-1029	18	29	630	2.81	500	n/a	500

Optional Equipment:

part #	part # Zeck GmbH	describtion
SWR-00-01		marking tape, indicating serial #, part #, manufacturing month





SWR-02

05/2017

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TENSION STRINGING EQUIPMENT



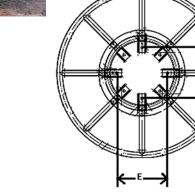
Steel Reels

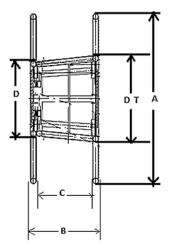
Our steel reels are welded of steel tubes and afterwards hot-dip galvanized. For Zeck Pullers we optional supply them with lasered cross plates. These reels are available in sizes of 1,100 up to 1,800 mm diameter. Detachable reels are supplied for re-conductoring works, when the wound up conductor needs to be scrapped. For extra long lengths of wire rope we supply galvanized steel drums with a capacity up to 13,000 KG.





For special lengths of wire rope we supply steel drums of any customized size and strength.





TSR-01

05/2017

NON DETACHABLE

part #	part # dimensions in mm							weight	
	Zeck GmbH	Α	В	С	D	DT	E	F	Kg
TSR-01-1100	77-9034	1100	560	460	570		420	50	71
TSR-01-1400	77-9035	1400	560	460	570		420	50	82
TSR-01-1800	77-9037	1800	560	460	570		420	50	100

DETACHABLE

part #	part # dimensions in mm							weight	
	Zeck GmbH	Α	В	С	D	DT	E	F	Kg
DSR-01-1100	77-9052	1100	560	460	570	680	420	50	79
DSR-01-1400	77-9054	1400	560	460	570	715	420	50	93

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Optional equipment for steel reels



Optional Equipment:

part #	describtion
TSR-00-01	bolted cross plate for fitting reel winder shaft of Zeck Pullers

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DST-01

Drum Stand for overhead stringing



Thanks to it's easy transportability and capacity to install conductor drums without use of a crane this design is the most popular among transmissionline contractors worldwide. With the drumshaft inserted conductor drums can be rolled into the drumstand and then lifted with two manually operated hydraulic jacks. Once in operating position the drumshaft will be rested on a mechanical holding device, so that the hydraulic jacks are freed from any constant load. The drumstand DST is equipped with two diskbrakes for creation of backtension between Drum and Tensioner machines. For most efficient operation we highly recommend however the use of hydraulic drum-drive motors.

part #	part # Zeck GmbH	max. drum dia.	min. drum dia.	max. drum weight	max. drum width
DST-01-070	TB IT 7	2,800 mm	1,600 mm	7,000 kg	1,500 mm
DST-01-100	TB IT 10	3,200 mm	2,000 mm	10,000 kg	1,650 mm

accessories:

part #	description
DST-00-001	hydraulic hose set 15 m for TB/IT
DST-00-002	hydraulic drum drive max drive 2900 Nm
DST-00-003	transport box
DST-00-004	adapter for steel drum

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SLA-01

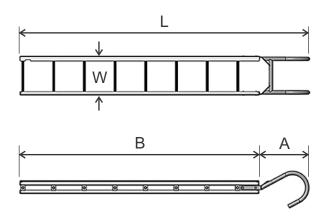
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Suspension Ladders

These ladders are designed to be used in hanging position at the tower-cross arms for performing works, for instance at the insulator chains. They can be used also as anchoring ladders if supplied with the optional foldable conductor hook or tower- and conductor hook (SLA-00-02 or SLA-00-03). If supplied with the optional available anti-fall system (SLA-00-01) the ladder come with a guide rail on the left side.

The tower hook is made of galvanized steel and equipped with a safety chain to prevent accidental fall down of the ladder. The ladder itself is a welded structure of first grade extruded aluminum pipes. The rungs are corrugated for slip protection. The working load in hanging position is 3 KN. If used as anchoring ladder (with optional SLA-00-02 or SLA-00-03) the maximum allowable working load is 1KN.

Different dimensions are available upon request.





part #	part # Zeck	w/l vertical	w/l horizontal	L=A+B	W	sections	hook length	weight
	GmbH	KN	KN	m	mm	qty.	mm	kg
SLA-01-0300	77-0710	3	1	3	305	1	220	16
SLA-01-0350	77-0711	3	1	3.5	305	1	220	18
SLA-01-0400	77-0712	3	1	4	305	1	220	20
SLA-01-0500	77-0713	3	1	5	305	1	220	24
SLA-01-0600	77-0714	3	1	6	305	1	220	28
SLA-02-0600	77-0714-2	3	1	6m(4+2)	305	2	220	30
SLA-02-0800	77-0715	3	1	8m(4+4)	305	2	220	38
SLA-02-1000	77-0716	3	1	10m(5+5)	305	2	220	46
SLA-03-1200	77-0717	3	1	12m(4+4+4)	305	2	220	55

** other length available upon request

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SLA-02

05/2017

TENSION STRINGING EQUIPMENT

Optional equipment for suspension ladders



SLA-00-03 foldable and turnable hooks at both ends (conductor and tower)

SLA-00-04 foldable and turnable conductor hook with neoprene sheave

SLA-00-05 foldable and turnable conductor hook with aluminium sheave

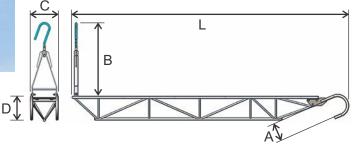
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Anchoring Ladders (2KN w/l)

Anchoring ladders are used as working platforms along the insulator chains of Tensions Towers. If required they can be also used vertically as suspension ladders.

Optionally we can equip these anchoring ladders with a foldable tower hook and different sheaves/pulleys in the conductor hook for easier movement. Different lengths and sections are available upon request. The anchoring ladders with 2KN horizontal workload are designed with tri-angular structure.



ALS-01

05/2017

part # Zeck GmbH	L m	sections	w/l horizontal KN	w/l vertical KN	A mm	B mm	C mm	D mm	weight kg
77-1251	4.0	1	2	3	220	900	320	320	24
77-1253	5.0	1	2	3	220	900	320	320	27
77-1254	6.0	1	2	3	220	900	320	350	31
77-1255	6(4+2)	2	2	3	220	900	320	350	33
77-1256	7(4+3)	2	2	3	220	900	320	350	37
77-1257	8(4+4)	2	2	3	220	900	320	350	40
	Zeck GmbH 77-1251 77-1253 77-1254 77-1255 77-1256	Zeck GmbHm77-12514.077-12535.077-12546.077-12556(4+2)77-12567(4+3)	Zeck GmbHm77-12514.0177-12535.0177-12546.0177-12556(4+2)277-12567(4+3)2	Zeck GmbHmhorizontal KN77-12514.01277-12535.01277-12546.01277-12556(4+2)2277-12567(4+3)22	Zeck GmbHmhorizontal KNvertical KN77-12514.012377-12535.012377-12546.012377-12556(4+2)22377-12567(4+3)223	Zeck GmbHmhorizontal KNvertical KNmm77-12514.012322077-12535.012322077-12546.012322077-12556(4+2)22322077-12567(4+3)223220	Zeck GmbHmhorizontal KNvertical KNmmmm77-12514.012322090077-12535.012322090077-12546.012322090077-12556(4+2)22322090077-12567(4+3)223220900	Zeck GmbHmhorizontal KNvertical KNmmmmmm77-12514.012322090032077-12535.012322090032077-12546.012322090032077-12556(4+2)22322090032077-12567(4+3)223220900320	Zeck GmbHmhorizontal KNvertical KNmmmmmmmm77-12514.012322090032032077-12535.012322090032032077-12546.012322090032035077-12556(4+2)22322090032035077-12567(4+3)223220900320350

Optional Equipment:

part #	part # Zeck GmbH	describtion
ALS-00-0001		foldable and turnable tower hook
ALS-00-0002	77-1250-R	neoprense sheave in conductor twisting hook
ALS-00-0003	77-0706-RA	aluminium sheave in conductor twisting hook

** other length available upon request

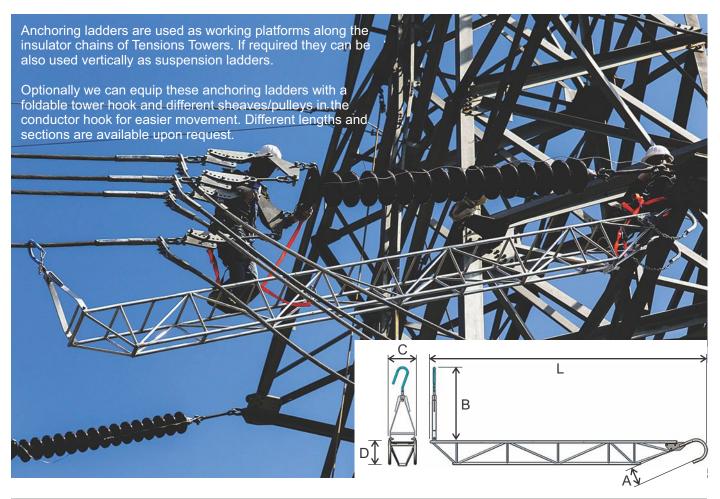
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ALT-01

05/2017

Anchoring Ladders (3KN w/l)



part #	part # Zeck	L	sections	w/l horizontal	w/l vertical	Α	В	С	D	weight
	GmbH	m		KN	KN	mm	mm	mm	mm	KG
ALT-01-0400	77-1261	4.0	1	3	3	220	900	320	320	27
ALT-01-0500	77-1263	5.0	1	3	3	220	900	320	320	30
ALT-01-0600	77-1264	6.0	1	3	3	220	900	320	350	34
ALT-02-0600	77-1265	6(4+2)	2	3	3	220	900	320	350	35
ALT-02-0700	77-1266	7(4+3)	2	3	3	220	900	320	350	38
ALT-0-0800	77-1267	8(4+4)	2	3	3	220	900	320	350	42

Optional Equipment:

part #	part # Zeck GmbH	describtion
ALT-00-0001		foldable and turnable tower hook
ALT-00-0002	77-1250-R	neoprense sheave in conductor twisting hook
ALT-00-0003	77-0706-RA	aluminium sheave in conductor twisting hook

** other length available upon request

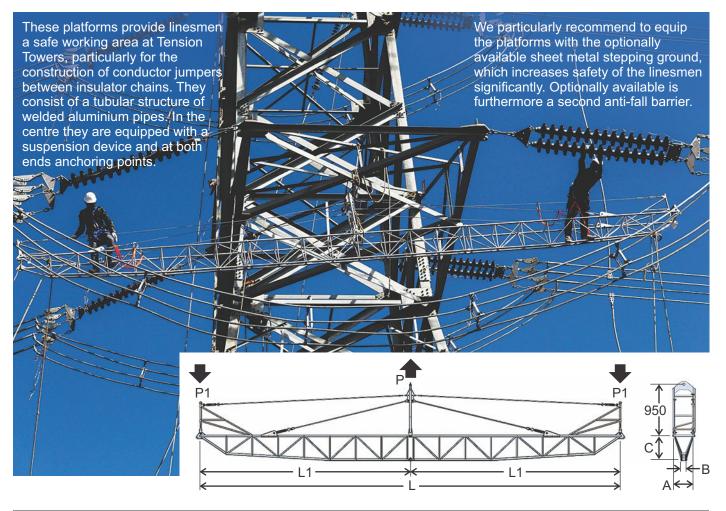
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PLA-01

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Working Platforms (for Jumper Construction)



part #	part # Zeck GmbH	working platform length (L) and sections (m)	working load (KN)	A (mm)	B (mm)	C (mm)	weight (kg)
PLA-01-0700	77-1204	7 m (3.5 + 3.5)	3	350	85	446	77
PLA-01-0800	77-1205	8 m (4 + 4)	3	350	85	446	86
PLA-01-1000	77-1206	10 m (4 + 2 + 4)	3	350	85	446	103
PLA-01-1200	77-1207	12 m (4 + 4 + 4)	3	350	85	446	115
PLA-01-1400	77-1208	14 m (5 + 4 + 5)	3	350	85	446	126
PLA-01-1600	77-1209	16 m (4 + 4 + 4 + 4)	3	350	85	446	144
PLA-01-1800	77-1210	18 m (6 + 6 + 6)	3	350	85	446	160
PLA-01-2000	77-1211	20 m (5 + 5 + 5 + 5)	3	450	85	550	200
PLA-01-2400	77-1212	24 m (6 + 6 + 6 + 6)	3	450	85	550	254
PLA-01-2600		26 m (5 + 5 + 6 + 5 + 5)	3	450	85	550	271

** other length available upon request

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PLA-02

05/2017

Optional equipment for Working Platforms:

part #	part # Zeck GmbH	describtion
PLA-00-0001		second anti fall barrier
PLA-00-0002		press trolley, turnable over 360 degree
PLA-00-0003		railway profile for press trolley
PLA-00-0004		metal sheet coverage on stepping area



"press trolley PLA-00-0002" on "railway profile PLA-00-0003"



metal sheet coverage on stepping area (PLA-00-0004)

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Line seat (for single conductor/earth wire)

part #	part # Zeck GmbH	Description	working load (kg)	weight (kg)
LSE-01-01	I	Line seat for single conductor/earthwire	100	19
instance for insta equipped with a counter is availa <u>Please note</u> : who	allation of aircraft warni combined stationary ar ible. en riding over single co ng load needs to be ins	r single conductor or earth wires, for ng balls, vibration dampers. It is nd dynamic brake. Optionally a meter nductors/ earthwires a safety line with talled.	stand	
part #		Description		
LSE-00-01	meter	counter for Line seat		

part #	part # Zeck GmbH	suitable for	working load (kg)	dimensions	weight (kg)
LCP-01-01		single conductor	100	700x640x1956	38

Line car (for single conductor/earth wire)

The Line car is similar to the Lineseat for traveling over single conductors or earthwires for installation of aircraft warning balls, vibration dampers, etc. It provides positioning of the operator within a trolley. This model is equipped with stationary brake plus dynamic disk brake. Optionally available is a meter counter.

<u>Please note</u>: when riding over single conductors/earthwires a safety line with sufficient breaking load needs to be installed.

Optional Equipment:

part #

LCP-00-01

Description

meter counter for Line car



LSE-01

05/2017

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LCP-01

05/2017

Line Cars (2, 3, 4 conductors) - w/o drive unit

The Line cars LCP-01-xx have a compact trolley for one operator. They are equipped with parking brake as well as dynamic disk brake. Optionally available is a meter counter.



part #	part # Zeck GmbH	suitable for	working load (kg)	spacing between conductors (mm)	dimensions WxLxH (mm)	weight (kg)
LCP-01-02		2-bundles	100	400-510	800x1000x420	58
LCP-01-03		3-bundles	100	400-510	800x1000x420	61
LCP-01-04		4 bundles	100	400-510	800x1000x420	62

Optional Equipment:

part #	Description
LCP-00-01	meter counter for Line car

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Line Cars (2, 3, 4 conductors) tower surpassing - w/o drive unit

The function of line cars is to transport workers along powerlines for execution of works like the installation of spacers or inspection.

Our models LCP-02 are designed for a safe working load of 200 KG. The four axles can be opened in sequence. This enables the line car to pass by suspension towers instead of lowering it down and lifting it up again at every tower.

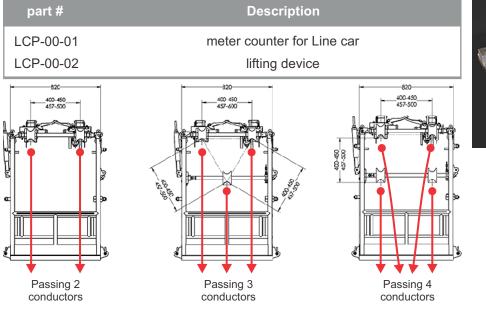
The line car LCP-02 is welded of superior aluminium alloy and equipped with meter counter and parking brake. Within the scope of supply is also a dynamic brake system by two hydraulic activated disk brakes.

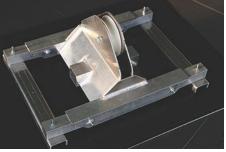
Upon ordering the distance between the conductors need to be specified.



part # Zeck GmbH	suitable for	working load (kg)	spacing between conductors (mm)	dimensions WxLxH (mm)	weight (kg)
77-6133	2-bundles	200	400 - 510	820x1900x1258	90
77-6134	3-bundles	200	400 - 510	820x1900x1258	96
77-6135	4-bundles	200	400 - 510	820x1900x1258	100
	Zeck GmbH 77-6133 77-6134	Zeck GmbH 77-6133 2-bundles 77-6134 3-bundles	Zeck GmbH load (kg) 77-6133 2-bundles 200 77-6134 3-bundles 200	Zeck GmbH load (kg) conductors (mm) 77-6133 2-bundles 200 400 - 510 77-6134 3-bundles 200 400 - 510	Zeck GmbH load (kg) conductors (mm) WxLxH (mm) 77-6133 2-bundles 200 400 - 510 820x1900x1258 77-6134 3-bundles 200 400 - 510 820x1900x1258

Optional Equipment:



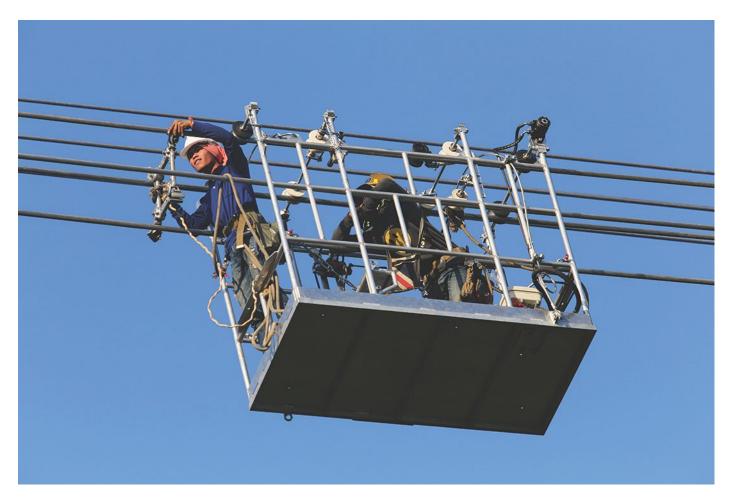


LCP-02

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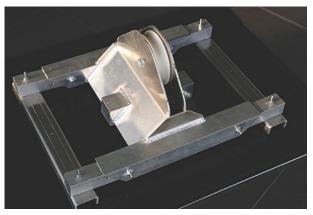


Line Cars (2, 3, 4 conductors) tower surpassing - with drive unit



The Line cars LCA-01-xx are powered by a 6.3 KW Honda gasoline engine which drives a hydraulic pump and motors on two axles. Without being pulled by external force they are capable to travel along conductor spans and climb slopes up to 25 % inclination. The maximum travelling speed are 40m/min. The hydraulic system serves also as a very effective dynamic brake. Like all our other linecars the LCA-01-xx are equipped with parking brake and a meter counter.

Equipped with 4 openable axles and a jack for closing them after having passed the suspension clamps the LCA-01-xx is capable to surpass over suspension towers.



Optional Equipment: LCA-00-01 - lifting device.

LCA-01

05/2017

part #	part # Zeck GmbH	suitable for	working load (kg)	spacing between conductor (mm)	dimensions WxLxH (mm)	weight (kg)
LCA-01-02	77-6130	2-bundles	200	400-600	940x1900x1690	208
LCA-01-03	77-6131	3-bundles	200	400-600	940x1900x1690	213
LCA-01-04	77-6132	4 bundles	200	400-600	940x1900x1690	218

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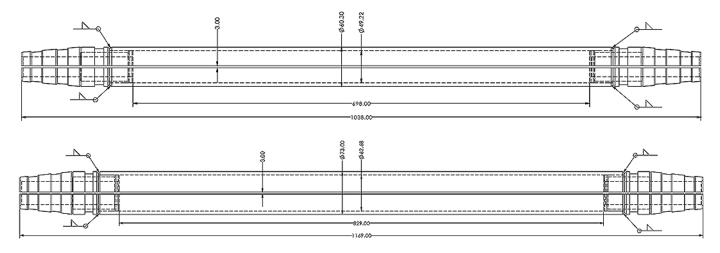


JOP-01

05/2017

Joint protectors

When conductor midspan joints are compressed during the process of pulling conductors over the towers they need be covered with an enclosure which prevents them from bending while travelling through the Pulley Blocks.

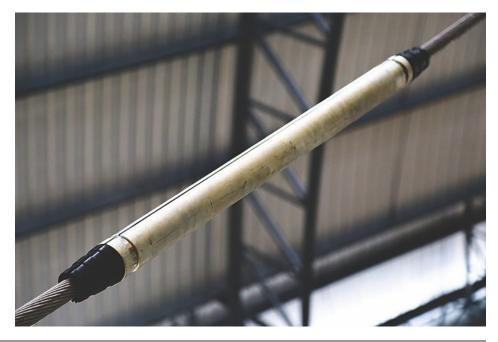


Designed to protect mid-span joints while being pulled over Pulley-Blocks during stringing.

Please specify on the order:

CS = length and diameter of Compression sleeve

D = Conductor diameter



model	OD (mm)	min. Pulley groove width (mm)	max. CS (ø)	CS length after compression max (mm)	TL (mm)	breaking load at the edges (kn)
JOP-01-001 JOP-01-002	60.30 73	68 80	49.22 58.98	698 829	1038 1169	N/A N/A
OD - Out side o TL - Total lengt		CS - Compression rubber insert	i sleeve	O.D. CS - Out side diame	ter of compr	ession sleeve

Note*: Length of joint protectors can be made up to order.



Conductor Line Bicycles



Line bicycles allow linesman to safely travel along transmissionline conductors and earthwires. The advantage towards line-cars is that they are muscle powered. Without any motorization the operator can conveniently pedal along the line for inspection, installation of spacers, vibration dampers or aircraft warning spheres. Models for single conductor, twin, triple, quad-bundled conductors are available

Characteristics:

- high-tensile ball-bearing mounted neoprene sheaves with fall protection
- static braking device with jaws locking on conductors, controlled by lever
- dynamic disc braking device at the drive shaft, controlled by lever
- convenient adjustment to conductor spacing between 400 and 510 mm
- comfortable sitting position
- fall protection
- meter counter device



LBP-01

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TENSION STRINGING EQUIPMENT



LBP-02

Conductor Line Bicycles

part #	part # Zeck GmbH	description
LBP-01-01	77-6151	bicycle for single conductor / earthwire weight 25 kg. 100 kg working load
LBP-01-02	77-6153	bicycle for 2-bundle conductor weight 32 kg 100 kg working load
LBP-01-03	77-6155	bicycle for 3-bundle conductor weight 38 kg 100 kg working load
LBP-01-04	77-6157	bicycle for 4-bundle conductor weight 42 kg 100 kg working load

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Pulleys

Single Pulleys

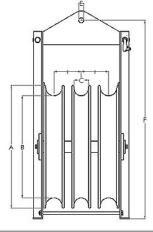
for installation of single conductors, groundwires, and OPGW. With galvanized steel frame, wheels made of highly resistant polyamide, mounted on ball bearings; suspension via swivelling clevis.



part #	num. of wheels	A (mm)	B (mm)	C (mm)	center	D (mm)	E (mm)	F (mm)	Breaking Load (kN)	Working Load (kN)	weight (kg)
SPB-01-0314	1	400	314	60	poly				60	20	13
SPB-01-0408	1	508	408	78	poly				60	20	22
SPB-01-0560	1	660	560	78	poly				60	20	32
SPB-01-0710	1	822	710	88	poly				120	40	45
SPB-01-0800	1	916	800	88	poly				120	50	50

3-sheave Pulley Blocks

for installation of twin- and triple-bundled conductors. Galvanized steel frame, centre wheel made of wear proof Nylatron, side sheaves made of highly resistant polyamide. Suspension by shackle (not included) connected to Yoke plate. Different suspension arrangements available upon request.





PUB-01

06/2018

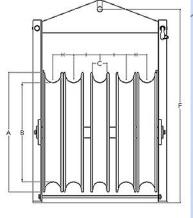
part #	num. of wheels	A (mm)	B (mm)	C (mm)	center	D (mm)	E (mm)	F (mm)	Breaking Load (kN)	Working Load (kN)	weight (kg)
TPB-01-0408	3	508	408	78	nyla	10	21	888	120	40	52
TPB-01-0560	3	660	560	78	nyla	10	21	1090	150	50	76
TBP-02-0560	3	660	560	88	nyla	10	21	1090	150	50	83
TBP-01-0710	3	822	710	88	nyla	10	21	1302	220	70	118
TBP-02-0710	3	822	710	88	steel	10	21	1302	220	70	163
TBP-01-0800	3	916	800	98	nyla	10	21	1446	240	80	128
TBP-02-0800	3	916	800	98	steel	10	21	1446	240	80	178

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5-sheave Pulley Blocks

For installation of 4- or 5 -bundled conductors. Galvanized steel frame, centre wheel made of wear proof Nylatron or casted steel, side wheels made of highly resistant polyamide, mounted on sealed ball bearings. Suspension by shackle (not included) connected to Yoke plate. Different suspension arrangements available upon request.





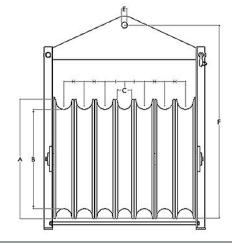
PUB-02

06/2018

part #	num. of wheels	A (mm)	B (mm)	C (mm)	center	D* (mm)	E (mm)	F (mm)	Breaking Load (kN)	Working Load (kN)	weight (kg)
QBP-02-560	5	660	560	88	nyla	10	21	1110	180	60	121
QPB-03-560	5	660	560	88	steel	10	21	1110	195	65	150
QPB-01-710	5	822	710	90	nyla	10	21	1352	270	100	170
QPB-02-710	5	822	710	90	steel	10	21	1352	270	100	218
QPB-01-800	5	916	800	98	nyla	10	21	1446	375	150	210
QPB-01-800	5	916	800	98	steel	10	21	1446	375	150	270

7-sheave Pulley Blocks

For installation of 6-bundled conductors. Galvanized steel frame, centre wheel made of wear proof Nylatron or casted steel, side wheels made of highly restistant polyamide, mounted on sealed ball bearings. Suspension with shackle as suspension.



part #	num. of wheels	A (mm)	B (mm)	C (mm)	center	D (mm)	E (mm)	F (mm)	Breaking Load (kN)	Working Load (kN)	weight (kg)
HPB-01-560	7	660	560	78	nyla	10	21	1230	260	100	180
HPB-02-560	7	660	560	78	steel	10	21	1230	270	100	220
HPB-01-710	7	822	710	88	nyla	10	21	1412	280	120	235
HPB-02-710	7	822	710	88	steel	10	21	1412	300	120	285

**The spacing of the conductors will be dertermined upon the selections of pulley block. D* = min groove width required for central wheel of Pulley Block

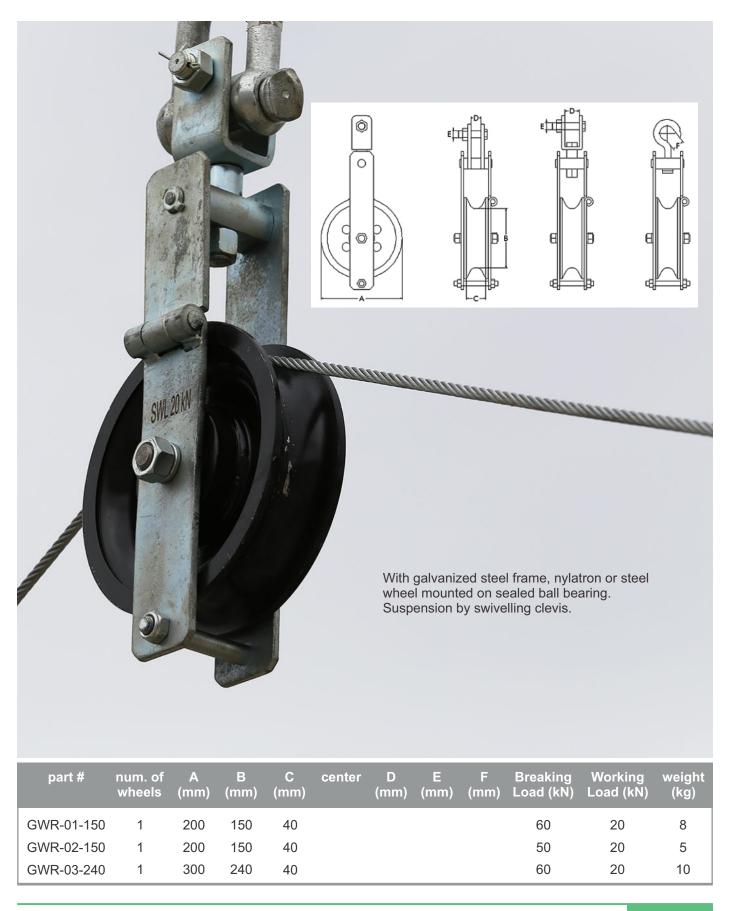
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GWR-01

06/2018

Earthwire Rollers (for installation of groundwires)



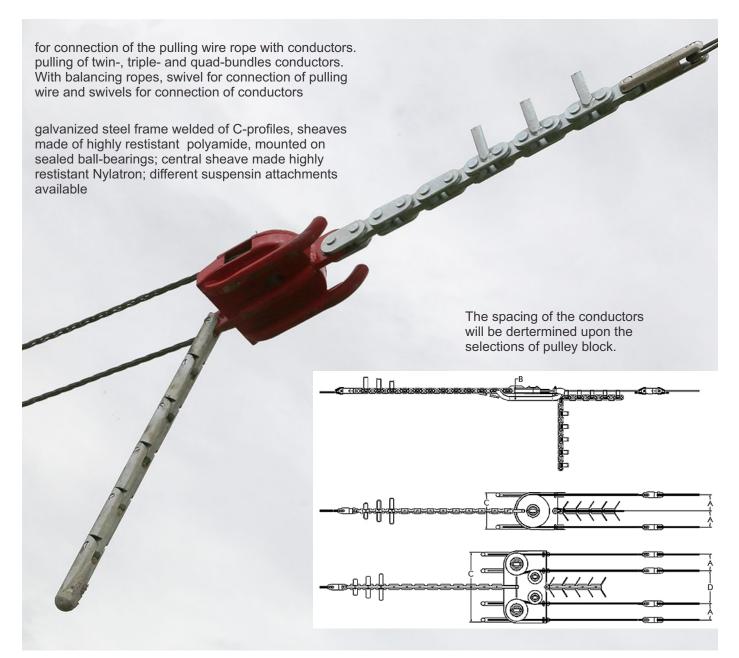
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RBB-01

06/2018

Running Boards



Running Boards Balanced Type for 2 or 3 conductors

For pulling of twin, and triple conductors with swivel joint for connection of pulling wire and conductors.

part #	num. of conductors	D* (mm)	capacity joint front (w/l - kN)	capacity joint back (w/l - kN)	rope length (m)	breaking Ioad (kN)	working load (kN)	weight (kg)
RBB-02-02	2	73	130	50	20	325	130	110
RBB-01-03	3	73	130	50	20	325	130	115
RBB-02-03	3	85	180	50	20	400	160	125

D* = min groove width required for central wheel of Pulley Block

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RBB-02

06/2018



Running Boards Balanced Type for 4 conductors

For pulling of 4 or 5 conductors with swivel joint for connection of pulling wire and conductors.

part #	num. of conductors	D* (mm)	capacity joint front (w/l - kN)	capacity joint back (w/l - kN)	rope length (m)	breaking Ioad (kN)	working Ioad (kN)	weight (kg)
RBB-02-04	4	85	180	50	20	400	160	165
RBB-03-04	4	90	250	80	20	500	200	185

Running Boards Balanced Type for 6 conductors

For pulling of 4 or 6 conductors with swivel joint for connection of pulling wire and conductors.

part #	num. of conductors	D* (mm)	capacity joint front (w/l - kN)	capacity joint back (w/l - kN)	rope length (m)	breaking Ioad (kN)	working Ioad (kN)	weight (kg)
RBB-02-04	6	85	180	50	20	400	160	220
RBB-03-04	6	98	320	80	20	600	240	300

D* = min groove width required for central wheel of Pulley Block

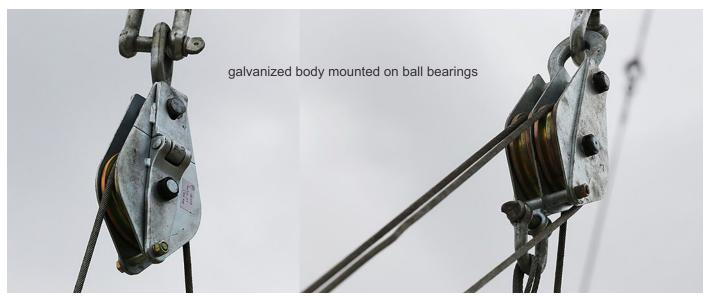
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SNB-01

06/2018

Snatch Block (for lifting purpose)



snatch block made of steel (closed type), alternative with hook or eye connection

part #	SWL (kN)	safe lifting load (kN)	breaking load (kN)	root dia. (cm)	groove width (cm)	weight (kg)
SNB-01-05	10	5			16	2.6
SNB-01-10	20	10			20	5.6
SNB-01-15	30	15			24	8.2
SNB-01-25	50	25			26	10
SNB-01-40	80	40			28	11.6

snatch block made of steel (open type), alternative with hook or eye connection

part #	SWL (kN)	safe lifting load (kN)	breaking load (kN)	root dia. (cm)	groove width (cm)	weight (kg)
SNB-02-05	10	5			16	2.6
SNB-02-10	20	10			20	6.1
SNB-02-15	30	15			24	8.8
SNB-02-25	50	25			26	11.1
SNB-02-40	80	40			28	12.6

double snatch block made of steel, alternative with hook or eye connection

part #	SWL (kN)	safe lifting load (kN)	breaking load (kN)	root dia. (cm)	groove width (cm)	weight (kg)
DSB-01-10	20	10			16	5.5
DSB-01-15	30	15			18	7.5
DSB-01-20	40	20			20	10.5
DSB-01-25	50	25			24	17
DSB-01-40	80	40			26	19
DSB-01-50	100	50			26	20

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WGR-01

06/2018

Wire Grip Pullers (for pulling and tensioning wire ropes)

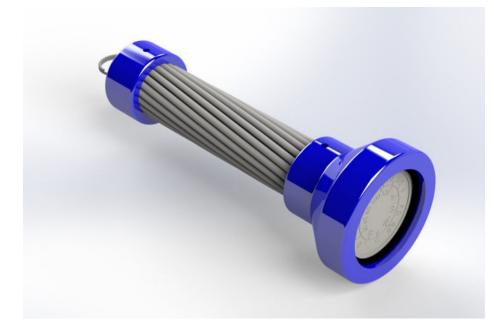


part #	rope dia. (mm)	max. lifting load (kN)	rope length (m)	weight (kg)
WGR-01-0800	8	8	20	6
WGR-02-1800	12	18	20	11
WGR-01-3200	16	32	20	22

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Sagging Thermometer



for measuring conductor temperature during sagging process. Measuring range from -40 to 70 degree Celsius, with calibration certificate. Delivered in plastic case.

part #	weight (kg)
STN-01-01	0.6

Sag Scope



for accurate measuring of conductor sag, with fine adjustment on all axles, tower mounting fixture.

part #	weight (kg)
SCO-01-01	4.2

STN-01

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OPG-01

06/2018

OPGW counterweight



part #	number of conductors	A (mm)	B (mm)	C (mm)	OPG dia. (mm)	weight (kg)
OCW-01-01	1	60	2930	38	10-17	7.5
OCW-01-02	1	60	3060	38	17-23	7.8

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HCM-01

06/2018

Hydraulic Compression Machines

Hydraulic compression head

light and easy to handle crimping unit with flat face quick action couplings. Double actng cylinder with very quick pressing cycle and highest relaibility. Upon order please confirm: type of conductor, hexagonal imension of compression, drawing of compression joint.

						P
		for 100 to	on for 20	0 ton		
die set for steel con die set for al. comp	•	HCD-01-07 HCD-02-07				
part #	compre forc (kg	e	operatiing pressure in bar	max. exterior dia. of compression (mm)	max. stroke (mm)	weight (kg)
HCH-01-0100	100	0	700	71	24	33
HCH-01-0200	200	0	700	90	33	98

Hydraulic Power Unit for Compression Head

	<text><text><text><text><text><text></text></text></text></text></text></text>	<text></text>	unit valv Two face court	Aly reliable powe with integrated e control unit. hydraulic flat quick action oling to connect compression d.		
part #	e	ngine	dim	ensions (mm)		weight (kg)
HPU-01-0700	gasoli	ne 4.1 KW	720 x 490 x 490			52
HPU-02-0700	gasol	line 4 KW	590 x 430 x 45			63
HPU-03-0700	electr	ic 2.2 KW	560 x 470 x 620			45
Hydraulic	part #	HHK-01-03	HHK-01-05	HHK-01-10	HHK-01-15	HHK-01-20
Hose Kit	length (m)	3	5	10	15	20
	weight (kg)	3.4	4.5	7.9	10.8	14.3

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Underground Utility Construction

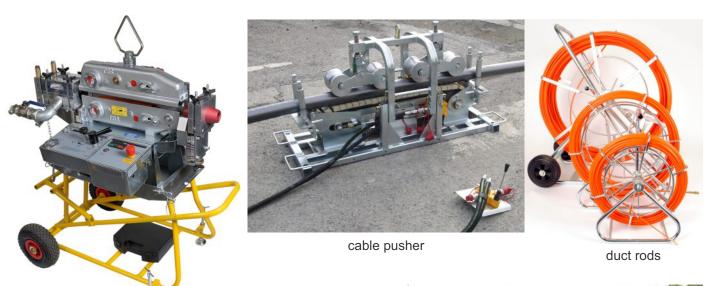
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cable blowing machine



puller for distribution lines

cables winch

UUC-01

06/2018

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<u>UUC-02</u>

06/2018

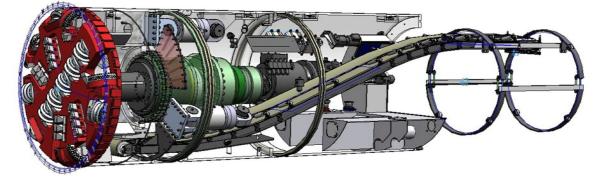
mts Perforator GmbH, Valluhn, Germany

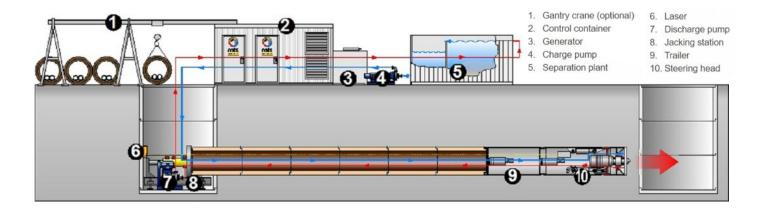
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pipe jacking machine





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TENSION STRINGING EQUIPMENT



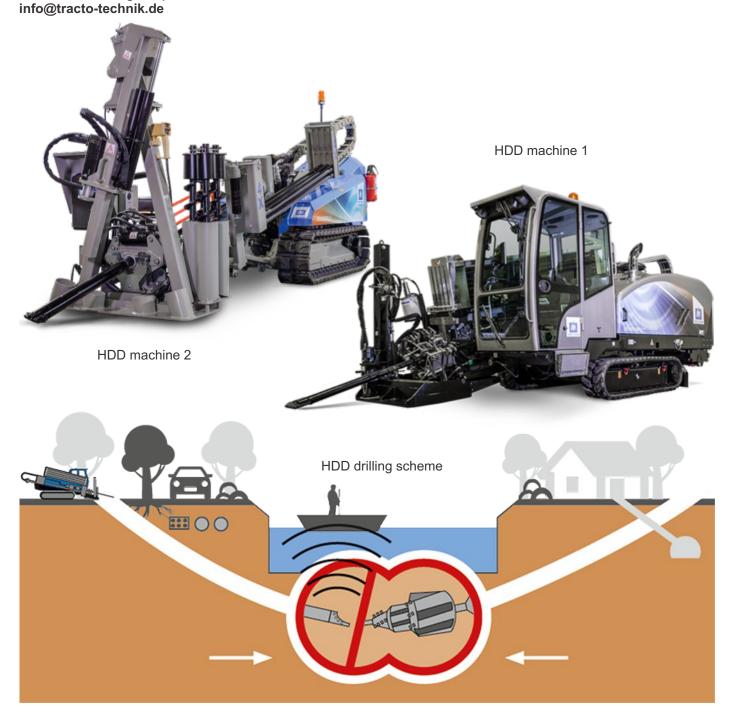


UUC-03

06/2018

Tracto Technik GmbH & Co. KG, Lennestadt, Germany

TRACTO-TECHNIK develops, produces and markets machines and accessories for the underground installation and renewal of pipelines. These trenchless NODIG technologies are used for the construction of supply networks for water, gas and power, telecommunications, district heating, fibre optic cable networking and in pipeline construction as well as in sewage disposal.



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UUC-04

06/2018



Prime Drilling GmbH, Wenden, Germany

Prime Drilling GmbH is specialized in the development and manufacture of Horizontal Directional Drilling Rigs with a pull force of up to 6.000 KN that we manufacture for our customers enable the trenchless installation of product pipes for the supply of gas and water, for power supply or for communication purposes. www.prime-drilling.de



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UUC-05

06/2018



Spiderplow GmbH, Mühldorf, Germany

Spiderplow is an innovative specialist sub-contractor offering worldwide modern trenchless pipe and cable installation works particular with cable laying plows of **Walter Föckerpserger GmbH**. **www.spiderplow.com**

Walter Föckersperger GmbH,

Walter Föckerperger GmbH is manufacturer of a unique pipe and cable laying plow. The system works as follows: Separated from the plow is a winch crawler with large anchor spade. It positions itself 110 meters ahead of the plow and stabs it's spade in the ground to provide a stable footing before it starts pulling the plow. Once the plow starts moving, it takes 3 – 15 minutes to install 100 meters of cables or pipes, depending on laying depth and ground conditions. An installation speed of up to 1,500 meters per hour is achievable in normal ground conditions. The cable laying plow has adjustable wheels adopt to undulating terrain and overcome slopes, ditches and other hurdles. https://www.foeck.com/en/



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RCE-01

06/2018

Railway Construction Equipment

Zeck GmbH manufactures highly specialized machines for the Railway Construction Industry:



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RCE-02

06/2018

TENSION STRINGING EQUIPMENT





Rail-road working platform



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RCE-03

06/2018

TENSION STRINGING EQUIPMENT

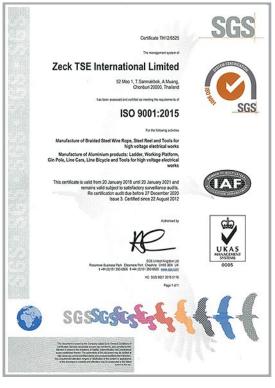


Catenary installation unit



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Zeck TSE International Ltd. was founded in the year 2011 as manufacturer of equipment for construction of Power Transmissionlines, so called Tension Stringing Equipment, or short "TSE". It is a subsidiary of the German company Zeck GmbH, one of the hidden champions within the German medium sized Machine Manufacturing Industry. This company, of which Zeck TSE is carrying the genes, is family owned and managed in third generation. Of it's 100 years long history Zeck GmbH is since 50 years already specialized onto the design and manufacture of Tension Stringing Equipment. Based on this immense expertise *Zeck TSE* first started in Thailand with the manufacture of braided wires ropes, which are essential for pulling power conductors over transmissionline towers. Since then *Zeck TSE* is consistently developing and manufacturing new products. The supply of the Zeck companies in Germany and Thailand perfectly rounds up into a first class and competitive package. The European-Asian Bridge they established between Germany and Thailand is making them fit for the challenge of the changes of time.

For the territory of Asia, the Middle East and large parts of Africa *Zeck TSE* takes charge of sales and service for the complete product range of the Zeck group of companies. Besides equipment for Powerline construction this includes also railway construction equipment.

The administrative headquarter of *Zeck TSE* is located in the city of Bangkok. The factory, a custom designed building on an area of 16,000m2 is approximately 80 km southeast of Bangkok in the outskirts of Chonburi City. This is the centre of Thailand's so-called "Eastern Economic Corridor", an area with high industrial concentration promoted by the Thai Government with various incentives to attract international investment. The factory is only 30 km away from the international deep seaport Laem Chabang. *Zeck TSE* currently employs a staff of approximately 70 highly motivated, well trained, diligent and loyal people.

For diversification into a related industry Zeck TSE recently started to venture into the market of underground Utility construction. It is representing a group of first class European manufacturers for horizontal directional drilling, pipe jacking, and blowing systems for fibre optic cables and more.



Head Office: 88/53 Ramkamhaeng 174, Minburi, Bangkok 10510, Thailand Factory: 52 Moo 1, Samnukbok, Chonburi 2000, Thailand

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