Cable drum transport devices

Vetter GmbH
Kabelverlegetechnik

Cable drum trailers 1.0 - 2.7 t with accessory

Cable drum trailers hydr. loading 3.5-9.0 t, 80 km/h

Cable drum trailers hydr. loading 4.6-9.0 t, 25 km/h

Accessory for cable drum trailers hydraulic loading

Cable drum trailers winch loading 3.5-9.0 t, 80 km/h

Cable drum trailers winch loading 4.6-9.0 t, 25 km/h

Accessory for cable drum trailers winch loading

Trailers for poles and long goods 1-4 t

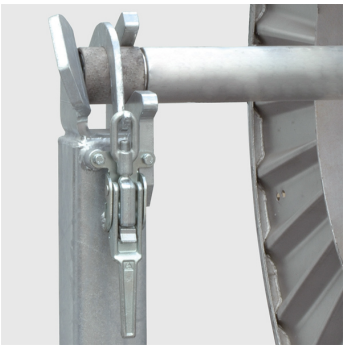
Cable trailer straight or adjustable drawbar

Cable drum trailer with straight or height adjustable draw bar and overrun brake for speeds up to 80 km/h. For loading the support arms are swung down and then raised picking up the drum by a single hand winch. Rigid tubular steel shaft D 76 mm. Rotating alu-shaft D 75 mm as accessory. Further accessory see below.

*Payload without accessories. If accessories are mounted like hydr. drum drives etc. the payload reduces according to their weights.

- Types G - with straight draw bar can only be equipped with ball coupling
- Types H - with adjustable draw bar equipped with eye coupling, ball coupling as accessory
- Suitable for one-man operation
- Complete trailer hot galvanized
- Rotating alu shafts as accessory, see below.
- Drum band brake as accessory, see below.

Code	Type	*Payload	Total	Drum-D	Hitch load	Intern	Extern	kg
342088	KVS 1000/80G	980 kg	1300 kg	600-1650	75 kg	1300	2140	320,00
342131	KVS 1500/80G	1500 kg	2100 kg	600-2400	100 kg	1580	2450	590,00
342146	KVS 2000/80G	2000 kg	2600 kg	600-2400	100 kg	1580	2450	600,00
342093	KVS 1000/80H	930 kg	1300 kg	600-1650	75 kg	1300	2140	370,00
342136	KVS 1500/80H	1500 kg	2200 kg	600-2400	120 kg	1580	2450	670,00
342151	KVS 2000/80H	2000 kg	2700 kg	600-2400	120 kg	1580	2450	700,00



Rotating drum shafts

Surcharge for rotating drum shafts. All a.m. trailers are fitted with rigid tubular steel drum shafts. With rotating shafts cable drums unwind much easier, they are necessary if the trailer is equipped with a drum drive or a drum disc brake.

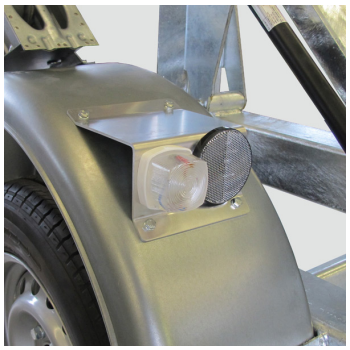
Code	Type	Suitable for	D/length	SWL	kg
350787	APR 750	KVS 1000	75/1450 mm	to 5 t	19,80
350788	APR 752	KVS 1500-2000	75/1730 mm	to 5 t	20,30

Rear protection gate

Rear protection gate, for Cable trailers KVS 1000-2000 G+H, hot galvanized.

The need of a rear protection is subject to national regulations. Independent of this, the rear protection offers a higher safety in the road traffic.

Code	Type	Suitable for	Trailer ext. width	kg
349820	KUF 100	KVS 1000 G+H	2140 mm	16,00
349826	KUF 200	KVS 1500-2000 G+H	2450 mm	30,00



Position lights

Position lights 12 volt, in front of the trailers KVS 1000-2000 G + H, according to the law of some countries

Code	Type	Suitable for	kg
349550	KPL 12	KVS 1000-2000 G + H	3,00

Ball coupling

Ball coupling with screws, changeable against height adjustable drawbar eye coupling for trailers with overrun brake.

Code	Type	Suitable for	Total weight	kg
349190	PK 25	KVS 1000-2000 H	3200 kg	2,90

Cable drum band brake

Cable drum band brake for KVS 1000-2000/80 without shaft, to screw on rotating alu shaft. This band brake avoids uncontrolled unwinding of the cable drum. Mostly used for unwinding overhead lines.

Code	Type	Suitable for	Braking force at cable	kg
350842	BTB 202	KVS 1000-2000	approx. 2,0 kN	10,00

Drum drive one side

Drum drive one side for cable trailers KVS 1000-2000/80, but not suitable for all types, see table below. Hydraulic or pneumatic, without hoses and power packs.

Code	Type	Suitable for	Drive	Pull	m/min.	kg
351210	TZ 200	KVS 1000/80G+H	hydraul.	1,5 kN	0-120	69,00
351220	TZ 203	KVS 1500-2000/80H	hydraul.	1,5 kN	0-120	69,00
351300	TP 205	KVS 1000/80G+H	Pneum.	1,5 kN	0-120	80,00

Hydraulic power pack mobil

Hydraulic power pack for cable drum drive, with petrol engine equipped with rapid hose couplings.

- The hydraulik power pack must not be mounted on drawing bar of the trailer, the hitch load would be to high.
- For control of the winding speed please order below mentioned hydraulic hose combination

Code	Type	Suitable for	Hydr. Aggr.	Pressure	L/W/H mm	kg
351330	THF 203	drum drives	petrol 9,6 kW	160 bar	854/457/507	74,00

Hydraulic hose set

Hydraulic hose set 7 m, with volume governor for hydraulic power packs.

Code	Type	Length	Flow governor	kg
425381	SL 7	7 m	up to 30 l/min	13,20

Cable trailer adjustable drawbar

Cable drum trailer with height adjustable draw bar with eye coupling and overrun brake for speeds up to 80 km/h. Drums are vertically lifted for transport by two hydraulic jacks operated by y central hand pump or by motorized hydraulic used as an accessory. Rigid tubular steel shaft D 76 mm. Rotating as accessory. Further accessory see below. Techn. Details see below.

*Payload without accessories. If accessories are mounted like hydr. drum drives etc. the payload reduces according to their weights.

- Trailers with height adjustable draw bar are equipped with eye coupling, ball coupling as accessory.
- Through stub axles the trailer is open to the rear for receiving the cable drum.
- Big ground clearance through long lift hydraulic jacks.

• According to guide line 70/221 EWG the trailers have to be equipped with rear protection gates
• Special painting as accessory, Code 350.980, KSL

Code	Type	*Payload	Total	Drum-D	Hitch load	Intern	Extern	kg
342304	KVH 2.6/80A	2600 kg	3500 kg	1400-3000	150 kg	1720	2540	860,00

Small drum suspension

Small drum suspension for drums below D 1300-800 mm, for KVH 2,6/80A

Code	Type	Suitable for	Drum-D	Trailer width	Shaft-D	kg
350940	KVZ 180	KVH 2.6/80 A	800-1300 mm	2550 mm	76 mm	68,00

Drum support

Additional support in front of the trailer for winding and unwinding drums smaller than D 1400-800 mm by the hydraulic drum drives on KVH-trailers. One set exists of one right-hand and one left-hand support. For loading these drums a lifting equipment is necessary.

Non additional drum shaft is necessary, the standard shaft of the trailer can be used.

Code	Type	Suitable for	Drum-D	Trailer width	kg
350955	TAV 080	KVH 2.6-9,0	800-1500 mm	unlimited	17,00

Rear protection gate

Rear protection gate, for Cable trailers KVH 2.6/80 A

The need of a rear protection is subject to national regulations. Independent of this, the rear protection offers a higher safety in the road traffic.

Code	Type	Suitable for	Trailer ext. width	kg
349836	KUF 260	KVH 2.6/80	2540 mm	40,00

Position lights

Position lights 12 volt, in front of the trailers KVS 1000-2000 G + H, according to the law of some countries

Code	Type	Suitable for	kg
349550	KPL 12	KVS 1000-2000 G + H	3,00

Ball coupling

Ball coupling with screws, changeable against height adjustable drawbar eye coupling for trailers with overrun brake.

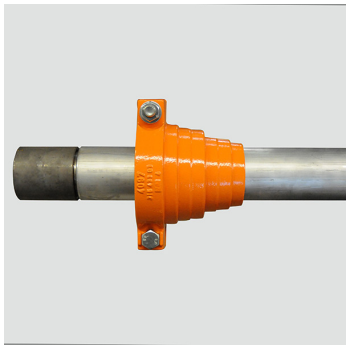
Code	Type	Suitable for	Total weight	kg
349190	PK 25	KVH 2.6/80 A	3500 kg	2,90

Rotating steel drum shafts

Surcharge for rotating drum shafts. All a.m. trailers are fitted with rigid tubular steel drum shafts. With rotating shafts cable drums unwind much easier, they are necessary if the trailer is equipped with a drum drive or a drum disc brake.

- The cones are with stages for all drum holes from diam. 80-140 mm.
- If no drum disc brake is necessary the use of below mentioned light alu drum shaft is recommended.

Code	Type	Suitable for	D/length	kg
350790	APR 690	KVH 2.6-4.6/FZB 2550	76/10/1888 mm	44,00



Rotating alu drum shafts

Surcharge for rotating aluminium drum shaft. Instead of the steel shafts this aluminium drum shaft with mounted rotating bearingscan be used. It is much lighter than the steel shaft. It is also suitable for all hydraulic drum drives, but not for the drum disc brake.

Code	Type	Suitable for	D/length	kg
35079075	APR 755	KVH 2.6-5.3/FZB 2550	75/1888 mm	34,00

Cable drum disc brake

Cable drum disc brake with drum fork for controlled unwinding of cable or line drums. Hand mechanical setting of the braking force. To use it with KVH-types code 350.790 APR 690 is necessary.

Code	Type	Operation	Braking	At the cable	kg
350860	STB 400	mechanic	3200 Nm	approx. 4,0 kN	46,00

Cable drum drive for KVH 2.6/80A

Cable drum drive for cable drum trailer KVH 2.6/80, driven by an external hydraulic drive e.g. from the lorry, or by a separate petrol-hydraulic power pack, mount- or dismountable on the trailer, see below code 351.330, THF 203. (The hydr. power pack may not be mounted permanently on the trailer because the hitch load would be to high, so during transportation it has to be dismounted.)

Code	Type	Drive	Hydraulic	Pull force kN	m/min.	kg
351320	TZH 206	on 1 flange	external hydraulic	2,0	0-40	61,00
351324	TZH 202	on 2 flanges	external hydraulic	5,0	0-40	120,00

Hydraulic power pack for drum drives

Hydraulic power pack for cable drum drives with petrol engine with hoses equipped with rapid hose couplings.

Tank 10 Litre, oil flow 12 l/min.

Code	Type	Suitable for	Hydr. Aggr.	Pressure	L/W/H mm	kg
351330	THF 203	drum drives	petrol 9,6 kW	160 bar	854/457/507	74,00

Cable trailer adjustable drawbar

Cable drum trailer with height adjustable draw bar with eye coupling and overrun brake. Tandem axle for speeds up to 80 km/h. Drums are lifted for transport by two swung arms hydraulic operated by motorized hydraulic included drum drive as an accessory. Rigid tubular steel shaft D 76 mm. Rotating as accessory. Further accessory see below.

*Payload without accessories. If accessories are mounted like hydr. drum drives etc. the payload reduces according to their weights.

• Very robust welded construction, complete hot galvanized.
• Through tandem axle even distribution of the total weight on each wheel.
• Drum lifting arms operated by double action hydraulic jacks.

Code	Type	*Payload	Total	Drum-D	Hitch load	Intern	Extern	kg
342310	KVT 2,7/80A	2700 kg	3500 kg	1000-2800	150 kg	1720	2540	920,00

Rear protection gate

Rear protection gate, for Cable trailers KVT 2.6/80 A, plug-in device

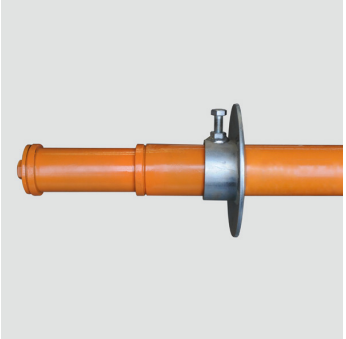
The need of a rear protection is subject to national regulations. Independent of this, the rear protection offers a higher safety in the road traffic.

Code	Type	Suitable for	Trailer ext. width	kg
349838	KUF 270	KVT 2.7/80	2540 mm	40,00

Ball coupling

Ball coupling with screws, changeable against height adjustable drawbar eye coupling for trailers with overrun brake.

Code	Type	Suitable for	Total weight	kg
349110	PK 35	KVT 2,7/80A	3500 kg	2,50



Rotating drum shafts

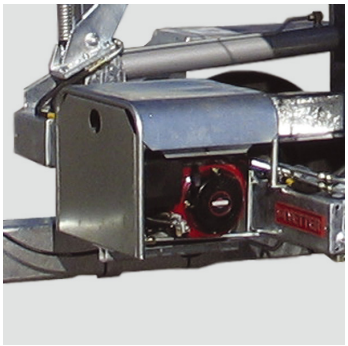
Surcharge for rotating drum shafts. All a.m. trailers are fitted with rigid tubular steel drum shafts. With rotating shafts cable drums unwind much easier, they are necessary if the trailer is equipped with a drum drive or a drum disc brake.

Code	Type	Suitable for	D/length	kg
350785	APR 2005	KVT 2,7/80	70/2005 mm	44,00

Drum and jack drive

Cable drum drive both sides, with drive of the hydraulic jacks, with petrol-engine on the trailer for cable trailer KVT 2,7/80. Type TH 400 is only for motor-hydraulic loading and unloading of the drum.

Code	Type	Drive	Engine	Pull force	m/min.	kg
351560	TVB 400	hydraulic	Petrol 4 kW	3 kN	0-36	215,00
351570	TH 400	hydraulic	Petrol 4 kW	only for drum jacks	-	30,00



Protection for petrol engine

Protection of metal sheet for petrol engine of cable drum drives, folding and lockable, without padlock.

Code	Type	Suitable for	kg
351598	BVB 400	TVB 400 petrol engine	10,00

Trailer for subducts and cable drums

Trailer for subduct drums. Also prepared for transporting cable drums. With height adjustable draw bar with eye coupling and overrun brake. Tandem axle for speeds up to 80 km/h. Subduct drums or cable drums are lifted for transport by two swung arms hydraulic operated by motorized hydraulic included drum drive as an accessory. For transporting and unwinding of subducts the suspension ZGH 7/120 for up to 7 subduct drums is necessary. See accessory below.

*Payload without accessories. If accessories are mounted like hydr. drum drives etc. the payload reduces according to their weights.

- Very robust welded construction, complete hot galvanized.
- Through tandem axle even distribution of the total weight on each wheel.
- Drum lifting arms operated by double action hydraulic jacks.

• Attention: please see mobile drum unwinding stand code 344.100 TRG 8120

Code	Type	*Payload	Total	Drum-D	Hitch load	Intern	Extern	kg
342310	KVT 2,7/80A	2700 kg	3500 kg	1000-2800	150 kg	1720	2540	920,00

Suspension for subduct drums

Suspension for subduct drums. Incl. drum shafts, distance bushes and clamps.

Attention: please see mobile drum unwinding stand code 344.100 TRG 8120

Code	Type	Drum	Drum-D	Weight/drum	kg
342317	ZGH 7/120	up to 7 pcs.	1200, width 400 mm	approx. 100 kg	154,92

Cable trailer hydraulic loading, 80 km/h

Cable trailer hydraulic loading for lorry transport up to 80 km/h. Drums are vertically lifted for transport by two hydraulic jacks operated by central hand pump or by motorized hydraulic which can also drive the drum, as an accessory. Rigid tubular steel shaft D 76 mm. Rotating as accessory. If smaller drums than mentioned below have to be transported or winded, please select as accessory one of the below shown small drum suspension KVZ 180 or drum support TAV 080. Further accessory see below.

*Payload without accessories. If accessories are mounted like hydr. drum drives etc. the payload reduces according to their weights.

• With air brakes for speed up to 80 km/h. ABS as accessory.
• Through stub axles the trailer is open to the rear for receiving the cable drum.
• Big ground clearance through long lift hydraulic jacks.
• Type KVH 7,0/80 available with bigger internal/external width of 1900/2750 mm, see table.
• According to guide line 70/221 EWG these trailers have to be equipped with rear side protection gates
• Special painting as accessory, Code 350.980, KSL

Code	Type	*Payload	Total	Drum-D	Hitch load	Intern	Extern	kg
342342	KVH 3,5/80	3500 kg	4600 kg	1600-3000	290 kg	1720	2500	1.000,00
342584	KVH 5,3/80	5300 kg	6700 kg	1800-3200	700 kg	1700	2550	1.300,00
342644	KVH 7,0/80	7000 kg	8500 kg	2000-3200	700 kg	1700	2550	1.600,00
342648	KVH 7,0/80	7000 kg	8500 kg	2000-3200	700 kg	1900	2750	1.810,00

Cable trailer hydraulic loading, 25 km/h

Cable trailer hydraulic loading for lorry transport up to 25 km/h. Drums are vertically lifted for transport by two hydraulic jacks operated by central hand pump or by motorized hydraulic which can also drive the drum, as an accessory. Rigid tubular steel shaft D 76 mm. Rotating as accessory. If smaller drums than mentioned below have to be transported or winded, please select as accessory one of the below shown small drum suspension KVZ 180 or drum support TAV 080. Further accessory see below. Techn. details see below.

*Payload without accessories. If accessories are mounted like hydr. drum drives etc. the payload reduces according to their weights.

- Types ../25A with overrun brake, types ../25D with air brake for speed of 25 km/h
- Through stub axles the trailer is open to the rear for receiving the cable drum.
- Big ground clearance through long lift hydraulic jacks.
- Types KVH 7,4/25 and 9,4/25 available with bigger internal/external width of 1860/2750 mm.
- According to guide line 70/221 EWG these trailers have to be equipped with rear protection gates
- Special painting as accessory, Code 350.980, KSL

Code	Type	*Payload	Total	Drum-D	Hitch load	Intern	Extern	kg
342442	KVH 4,6/25A	4600 kg	5600 kg	1400-3000	250 kg	1720	2500	850,00
342482	KVH 4,6/25D	4600 kg	5600 kg	1400-3000	250 kg	1720	2500	850,00
342744	KVH 7,4/25D	7400 kg	8700 kg	1800-3200	700 kg	1700	2550	1.200,00
342844	KVH 9,0/25D	9000 kg	10600kg	1800-3200	700 kg	1700	2550	1.300,00

ABS brake system

Surcharge for Anti-Block-System (ABS) for twin line airbrake. EC-Obligation for all trailers from 3,5 t total weight and speed from 80 km/h.

Code	Type	Suitable for	kg
349730	ABS 37	all KVS/KVH 3,5-7,0/80	14,17

Rear protection gate

Rear protection gate, hinged, for Cable trailers KVH 3.5-9,0

The need of a rear protection is subject to national regulations. Independent of this, the rear protection offers a higher safety in the road traffic.

Code	Type	Suitable for	Trailer ext. width	kg
349840	KUF 350	KVH 3.5	2500 mm	41,85
349844	KUF 460	KVH 4.6	2500 mm	41,85
349848	KUF 530	KVH 5.3/7.0/7.4/9.0	2550 mm	41,85
349852	KUF 537	KVH 7.0/9.0/2750	2750 mm	51,85

Side protection gate

Side protection gate fixed, for Cable trailers KVH 3.5-9.0

Side protection gates are essential to protect pedestrian and cyclists for running over by the trailer. These protections are necessary for the following trailers:

• of a total weights more than 3,5 t.
• of maximum speed more than 25 km/h

Code	Type	Suitable for	Trailer ext. width	kg
349900	SUF 314	KVH 3.5/80	all	46,00
349904	SUF 537	KVH 5.3/80	all	46,00
349912	SUF 709	KVH 7.0/80	all	46,00

Position lights

Position lights 24 volt, in front of the trailers KVS/H 3,5-9,0, according to the law of some countries

Code	Type	Suitable for	kg
349560	KPL 24	KVS/H 3,5-9,0	3,00

Small drum suspension

Small drum suspension for drums below D 1800-800 mm for all KVH-types, but not for driving these drums by hydraulic drum drives.

For hydraulic drive of such small drums of diam. 800-1800 mm, see next table, drum support 350955 TAV 080, can also be retrofitted.

Code	Type	Suitable for	Drum-D	Trailer width	Shaft-D	kg
350942	KVZ 180	KVH 3,5-9.0	800-1800 mm	2550 mm	76 mm	68,00
350944	KVZ 180	KVH 3,5-9.0	800-1800 mm	2750 mm	76 mm	68,00

Drum support

Additional support in front of the trailer for winding and unwinding drums smaller than D 1800-800 mm by the hydraulic drum drives on KVH-trailers. One set exists of one right-hand and one left-hand support. For loading these drums a lifting equipment is necessary.

Non additional drum shaft is necessary, the standard shaft of the trailer can be used.

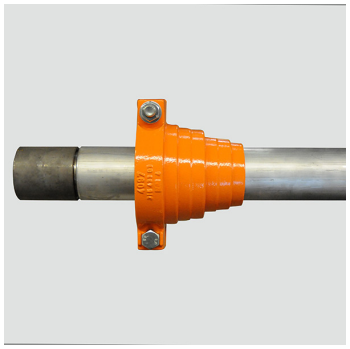
Code	Type	Suitable for	Drum-D	Trailer width	kg
350955	TAV 080	KVH 2.6-9,0	800-1800 mm	unlimited	17,00

Rotating steel drum shafts

Surcharge for rotating drum shafts. All a.m. trailers are fitted with rigid tubular steel drum shafts. With rotating shafts cable drums unwind much easier, they are necessary if the trailer is equipped with a drum drive or a drum disc brake.

- The cones are with stages for all drum holes from diam. 80-140 mm.
- If no drum disc brake is necessary the use of below mentioned light alu drum shaft is recommended.

Code	Type	Suitable for	D/length	kg
350790	APR 690	KVH 2.6-4.6/FZB 2550	76/10/1888 mm	44,00
350792	APR 692	KVH 5.3-7.4/FZB 2550	76/20/1888 mm	63,00
350795	APR 694	KVH 7.0-9.0/FZB 2550	76/20/1838 mm	62,00
350797	APR 696	KVH 7.0-9.0/FZB 2750	76/20/2038 mm	65,00



Rotating alu drum shafts

Surcharge for rotating drum shafts. All a.m. trailers are fitted with rigid tubular steel drum shafts. With rotating shafts cable drums unwind much easier, they are necessary if the trailer is equipped with a drum drive or a drum disc brake.

Code	Type	Suitable for	D/length	kg
35079075	APR 755	KVH 2.6-5.3/FZB 2550	75/1888 mm	34,00

Drum drives standard

Cable drum drive both sides, with engine on the trailer for all cable trailers KVH 3,5-9,0.

- Hydraulic drive by hydraulic engines on the trailer
- Pulling force on cable depending on drum diameter up to approx. 5,0 kN.
- Wind- and unwinding speed approx. 0-50 m/min.
- TBL + TDL 502 as retrofitting part, for mounting on customers equipment, see pdf-drawing.
- Type TDHE 502 diesel engine with electro starter.

Code	Type	Drive of	Engine kW	kg
351554	TB 502	Drum without jack lift	Petrol 9.6	217,00
351559	TBL 502	Lose, drum without lift	Petrol 9.6	215,00
351584	TBH 502	Drum with jack lift	Petrol 9.6	220,00
351654	TD 502	Drum without jack lift	Diesel 6.8	240,00
351659	TDL 502	Lose, drum without lift	Diesel 6.8	238,00
351684	TDH 502	Drum with jack lift	Diesel 6.8	244,00
351685	TDHE 502	Drum with jack lift	Diesel 6.8	270,00

Drum drive with radio control

Cable drum drive and drum lifting, diesel engine with electric starter and hydraulic power pack on the trailer. Incl. radio control for all cable trailers KVH 3.5-9.0.

Radio control consisting of light mobile transmitter and receiver on the trailer. Control command of drum loading individual left or right, and drive of the drum for winding or unwinding.

- Hydraulic drive by Hatz diesel engine with electric starter on the trailer.
- Pulling force on cable depending on drum diameter up to approx. 5,0 kN.
- Wind- and unwinding speed approx. 0-50 m/min.
- Radio control for drum lifting/lowering individual left/right, winding and unwinding.

Code	Type	Drive of	Engine kW	kg
351688	TDHF 510	Drum and lifting winches	Diesel 6.8	289,00

Drum drives for external hydraulic

Cable drum drive for external hydraulic connection of the towing vehicle. For all cable trailers KVH 3,5-9,0.

- Hydraulic drive supplied by the towing vehicle
- Pulling force on cable depending on drum diameter up to approx. 5,0 kN.
- Wind- and unwinding speed approx. 0-50 m/min.
- Type TZL 502 available as retrofitting part, for mounting on customers equipments, see pdf-drawing on the left.

Code	Type	Drive of	Drive through	kg
351452	TZ 502	Drum without lift	Towing vehicle	166,00
351459	TZL 502	Lose, drum without lift	Towing vehicle	166,00
351484	TZH 502	Drum with jack lift	Towing vehicle	150,00

Cable drum disc brake

Cable drum disc brake with drum fork for controlled unwinding of cable or line drums. Hand mechanical setting of the braking force. To use it with KVH-types code 350.790 APR 690 is necessary.

Code	Type	Operation	Braking	At the cable	kg
350860	STB 400	mechanic	3200 Nm	approx. 4,0 kN	46,00

Cable trailer winch loading, 80 km/h

Cable drum trailers for lorries up to 80 km/h. The Cable drum is pulled and mounted onto the trailer for transport using two hand winches. These can also be optionally equipped with hydraulic drive which can be combined with the cable drum drive. All KVS-types are fitted with a rotating steel tube drum shaft D 76 mm. Further technical details and accessory see below.

*Payload without accessories. If accessories are mounted like hydr. drum drives etc. the payload reduces according to their weights.

- With air brakes for speed up to 80 km/h. ABS as accessory.
- Through stub axles the trailer is open to the rear for receiving the cable drum.
- Drum loading in any terrain through individual controlled rope winch.
- Type KVS 7,0/80 available with bigger internal/external width of 1900/2750 mm, see table.
- According to guide line 70/221 EWG these trailers have to be equipped with rear and side protection gates
- Special painting as accessory, Code 350.980, KSL

Code	Type	*Payload	Total	Drum-D	Hitch load	Intern	Extern	kg
342320	KVS 3,5/80	3500 kg	4600 kg	1250-3000	290 kg	1720	2500	1.000,00
342564	KVS 5,3/80	5300 kg	6700 kg	1250-3200	700 kg	1700	2550	1.460,00
342624	KVS 7,0/80	7000 kg	8500 kg	1250-3200	700 kg	1700	2550	1.650,00
342625	KVS 7,0/80	7000 kg	8500 kg	1250-3200	700 kg	1900	2750	1.700,00

Cable trailer winch loading, 25 km/h

Cable drum trailers for lorries up to 25 km/h. The Cable drum is pulled and mounted onto the trailer for transport using two hand winches. These can also be optionally equipped with hydraulic drive which can be combined with the cable drum drive. All KVS-types are fitted with a rotating steel tube drum shaft D 76 mm. Further technical details and accessory see below.

*Payload without accessories. If accessories are mounted like hydr. drum drives etc. the payload reduces according to their weights.

- Types ../25A with overrun brake, types ../25D with air brake for speed of 25 km/h
- Through stub axles the trailer is open to the rear for receiving the cable drum.
- Drum loading in any terrain through individual controlled rope winch.
- Types KVS 7,4/25D and 9,25D available with bigger internal/external width of 1860/2750 mm, see table.
- According to guide line 70/221 EWG these trailers have to be equipped with rear and side protection gates
- Special painting as accessory, Code 350.980, KSL

Code	Type	*Payload	Total	Drum-D	Hitch load	Intern	Extern	kg
342422	KVS 4,6/25A	4600 kg	5600 kg	1250-3000	250 kg	1720	2500	920,00
342460	KVS 4,6/25D	4600 kg	5600 kg	1250-3000	250 kg	1720	2500	840,00
342724	KVS 7,4/25D	7400 kg	8700 kg	1250-3200	700 kg	1700	2550	1.300,00
342824	KVS 9,0/25D	9000 kg	10600kg	1250-3200	700 kg	1700	2550	1.350,00

ABS brake system

Surcharge for Anti-Block-System (ABS) for twin line airbrake. EC-Obligation for all trailers from 3,5 t total weight and speed from 80 km/h.

Code	Type	Suitable for	kg
349730	ABS 37	all KVS/KVH 3,5-7,0/80	14,17

Rear protection gate

Rear protection gate, hinged, for Cable trailers KVS 3.5-9.0

The need of a rear protection is subject to national regulations. Independent of this, the rear protection offers a higher safety in the road traffic.

Code	Type	Suitable for	Trailer ext. width	kg
349856	KUF 310	KVS 3.5/4.6/5.3/7.4	2500 mm	41,85
349860	KUF 700	KVS 7.0/2550	2550 mm	51,85
349864	KUF 707	KVS 7.0/2750	2750 mm	41,85
349868	KUF 900	KVS 9.0/2550	2550 mm	51,85
349872	KUF 907	KVS 9.0/2750	2750 mm	41,85

Side protection gate

Side protection gate fixed, for Cable trailers KVS 3.5-7.0/80

Side protection gates are essential to protect pedestrian and cyclists for running over by the trailer. These protections are necessary for the following trailers:

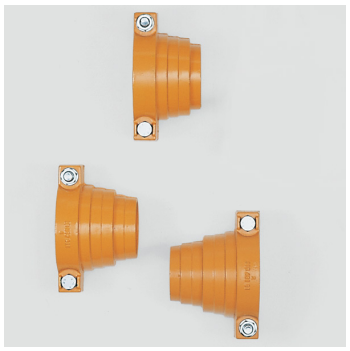
- of a total weights more than 3,5 t.
- of maximum speed more than 25 km/h

Code	Type	Suitable for	Trailer ext. width	kg
349914	SUF 346	KVS 3.5/80	all	46,00
349916	SUF 574	KVS 5.3/80	all	46,00
349920	SUF 790	KVS 7.0/80	all	46,00

Position lights

Position lights 24 volt, in front of the trailers KVS/H 3,5-9,0, according to the law of some countries

Code	Type	Suitable for	kg
349560	KPL 24	KVS/H 3,5-9,0	3,00



Preparation for drum drive

Preparation of the drum shafts, its necessary if a KVS type is equipped with a hydraulic drum drive or with a drum disc brake. Instead of clamps two locating cones are supplied.

Code	Type	Shaft-D	Steps-D mm	kg
350800	VAB 760	75-76 mm	140/130/125/105/100/90	7,00

Drum drives standard

Cable drum drive both sides, with engine on the trailer for all cable trailers KVS 3,5-9,0.

- Hydraulic drive by hydraulic engines on the trailer
- Pulling force on cable depending on drum diameter up to approx. 5,0 kN.
- Wind- and unwinding speed approx. 0-50 m/min.
- TBL + TDL 502 as retrofitting part, for mounting on customers equipment, see pdf-drawing.
- Type TDSE 502 diesel engine with electro starter.

Code	Type	Drive of	Engine kW	kg
351554	TB 502	Drum without winches	Petrol 9.6	217,00
351559	TBL 502	Lose, drum without winches	Petrol 9.6	215,00
351594	TBS 502	Drum and winches	Petrol 9.6	264,00
351654	TD 502	Drum without winches	Diesel 6.8	240,00
351659	TDL 502	Lose, drum without winches	Diesel 6.8	238,00
351694	TDS 502	Drum and winches	Diesel 6.8	341,00
351695	TDSE 502	Drum and winches	Diesel 6.8	352,00

Drum drive with radio control

Cable drum drive and drum lifting, diesel engine with electric starter and hydraulic power pack on the trailer. Incl. radio control for all cable trailers KVS 3.5-9.0.

Radio control consisting of light mobile transmitter and receiver on the trailer. Control command of drum loading individual left or right, and drive of the drum for winding or unwinding.

- Hydraulic drive by Hatz diesel engine with electric starter on the trailer.
- Pulling force on cable depending on drum diameter up to approx. 5,0 kN.
- Wind- and unwinding speed approx. 0-50 m/min.
- Radio control for drum lifting/lowering individual left/right, winding and unwinding.

Code	Type	Drive of	Engine kW	kg
351698	TDSF 510	Drum and winches	Diesel 6.8	455,00

Drum drives for external hydraulic

Cable drum drive both sides for external hydraulic connection of the towing vehicle. For all cable trailers KVS 3,5-9,0.

- Hydraulic drive supplied by the towing vehicle
- Pulling force on cable depending on drum diameter up to approx. 5,0 kN.
- Wind- and unwinding speed approx. 0-50 m/min.
- Type TZL 502 available as retrofitting part, for mounting on customers equipments, see pdf-drawing on the left.

Code	Type	Drive of	Drive through	kg
351452	TZ 502	Drum without winches	Towing vehicle	166,00
351459	TZL 502	Lose, drum without winches	Towing vehicle	166,00
351492	TZS 502	Drum and winches	Towing vehicle	196,00

Cable drum disc brake

Cable drum disc brake with drum fork for controlled unwinding of cable or line drums. Hand mechanical setting of the braking force. To use it with KVH-types code 350.790 APR 690 is necessary.

Code	Type	Operation	Braking	At the cable	kg
350860	STB 400	mechanic	3200 Nm	approx. 4,0 kN	46,00

Vetter GmbH Kabelverlegetechnik • Industriestrasse 28 • D-79807 Lottstetten
Tel.: +49 7745/9293-0 • Fax +49 7745/9293-499 • info@vetter-kabel.de • www.vetter-kabel.de

Trailers for long materials

Trailers for transporting electro poles, lantern poles and other long materials measuring 5 to approx. 12 m in length. The galvanized trailers for speeds of up to 80 km/h are fitted with continuous torsion bar spring axles. Depending on the tractor vehicle, they are available without brakes, with overrunning brakes or with compressed air brakes. On the trailer there is a swivelling bolster with adjustable rungs. Technical details see table below.

Please ask for our more extensive offer.

Code	Type	Total-/Pay load	Brake	kg
346180	NL 1800/80/GA	1800/1400 kg	Overrun	400,00
346200	NL 1800/80/GD	1800/1400 kg	Air	400,00
346240	NL 2500/80/GA	2500/2000 kg	Overrun	500,00
346260	NL 2500/80/GD	2500/2000 kg	Air	500,00
346300	NL 3000/80/HD	3000/2300 kg	Air	700,00
346320	NL 4000/80/HD	4000/3200 kg	Air	800,00

Swivelling bolster

Swivelling bolster for long materials mounted on the towing vehicle, with live ring, roller-type slides and stanchions. Galvanized.

Code	Type	For payload	kg
346500	DS 0713	750-1350 kg	170,00
346510	DS 1830	1800-3000 kg	180,00
346520	DS 4050	4000-5000 kg	200,00