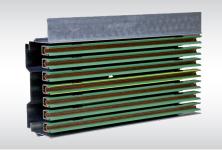


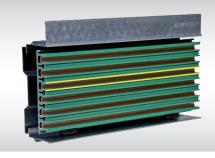
AVAHLE

Multi Support Profile VMT

SYSTEMS IN MOTION







Multi Support Profile (VMT)

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The VAHLE solution for automation

The all new VAHLE Multi Support Profile VMT has been specifically designed to meet the highly diverse requirements of automated storage and retrieval installations, as well as material handling, conveying, or factory automation applications.

VMT facilitates uncomplicated, fast installation of several VAHLE conductor and positioning systems. VMT allows a large support distance which reduces mounting component cost and improves installation times.

System Specifics

- Can be used with several VAHLE conductor systems
- Can be mounted in two orientations "face out" or "face down"
- Plug-in and clamping connection technology enables unprecedented fast installation
- Provides impact protection for conductor system
- Temperature fluctuations will not influence system's rigidity
- Integration of VAHLE positioning systems
- Attachment hangers for all commonly used rack upright profiles
- 4 to 7 conductors
- 60 to 400 A
- Same profile regardless of conductor system
- Touch proof rated per IP 23
- Electrically safe with potential equalization
- Simple and quick exchange of profile sections or subsections

Possible System Variants



U15 Catalog 2c



Catalog 2c



VKS4 Catalog 3b



(Face down orientation)
VKS6
Catalog 3b

Accessory Components



Data matrix tape



Bar code tape

Multi Support Profile (VMT)

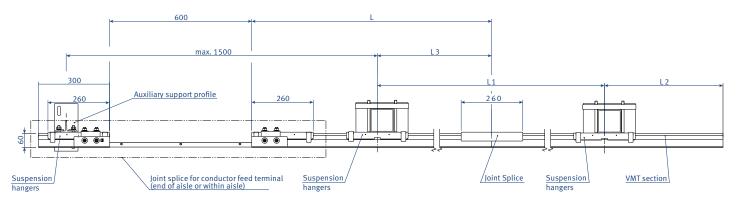
Technical Data

VMT Multi Support Profile: galvanized steel VMT Multi Support Profile length: 6 m Max. support distance (variable): 3m - 3.5 m Support hanger: universal

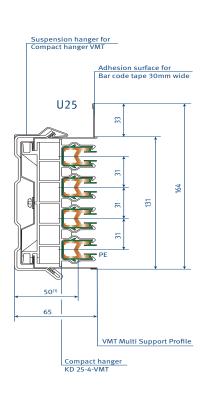
System Data⁽¹⁾

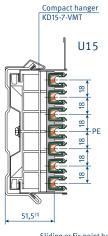
Number of conductors:	4 to 7
Max. Voltage:	690 V
Current:	60 to 400 A
Duty cycle:	100 %
Approvals:	UL
Max. operating speed:	600 m/min
Temperature range:	22°F +185°F

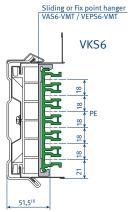
System Layout

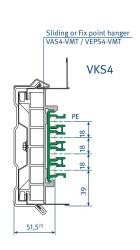


- L = Length of VMT Multi Support Profile
- L1 = Support distance max 3m 3.5 m (based on orientation of profile)
- L2 = Overhang max o.5m
- L₃ = Safety dimension for expansion min. 0.35 m









¹ Based on conductor system specified

VMT Order Numbers



6m Profile

Туре	Description	Weight kg (lb)	Order No.
VMT-6000	VAHLE Multi Support Profile, 6 m long	12.336 (28)	171 546



Joint Clamp

Type	Description	Weight kg (lb)	Order No.
KV-VMT	Clamping joint splice	.845 (2)	171 536

Profile Hangers





Type	Description	Weight kg (lb)	Order No.
AH-VMT -SPW	Clamping Style - Max. 10 mm	.980 (2)	171 539
AH-VMT 100-115	Clamping Style - Max. 100-115mm ¹	1.450 (3)	171 537
AH-VMT 110-125	Clamping Style - Max. 110-125mm ¹	1.450 (3)	171 538
AH-VMT-BS	Bolted Style	.850 (2)	171 540
AH-VMT-S	Bolted Style - Single Bolt	.850 (2)	171 547

VMT Order Numbers Cont.



Joint Splice for feed*

*Must be used at each feed location

Туре	Description	Weight kg (lb)	Order No.
VMTB900-ESST	Connection for in-line feed	10.500 (24)	171 548
VMTB900-ESAE	Connection for end feed	11.100 (25)	171 549





VSPA-VMT-200-VKS4

VSPA-VMT-200-VKS4 (rear view)

Potential Equalization

(Grounding)

Type	Description	Weight kg (lb)	Order No.
VSPA-VMT-600	Connection set U15 U25	.300 (.5)	171 563
VSPA-VMT-200-VKS4-R	Connection set VKS4 (r.h. side)	.443 (1)	171 564
VSPA-VMT-200-VKS4-L	Connection set VKS4 (l.h. side)	.443 (1)	171566
VSPA-VMT-200-VKS5+6-R	Connection set VKS5 VKS6 (r.h. side)	.457 (1)	171 565
VSPA-VMT-200-VKS5+6-L	Connection set VKS5 VKS6 (l.h. side)	.457 (1)	171 567







Cutting guide

Installation pliers

Installation Tools

Туре	Description	Weight kg (lb)	Order No.
SVU-VMT	Cutting guide (for short lengths)	2.570 (6)	171 561
MZ-VMT	Installation pliers for Joint clamps	.700 (2)	171 533

VAHLE Conductor Systems for VMT

VAHLE VMT is compatible with multiple VAHLE conductor systems. Each conductor type is listed below. Please reference the corresponding catalogs for order numbers and technical data.

Туре	Conductor Material	# of Conductors	Standard Length
Insulated Conductors U15C	Copper	4-7 Poles	6 m
Insulated Conductors U25 AE	Aluminum-Stainless	4 Poles	6 m
Insulated Conductors U25 C	Copper	4 Poles	6 m
Multi-Enclosed VKS 4	Copper	4 Poles	6 m
Multi-Enclosed VKS 5	Copper	5 Poles	6 m
Multi-Enclosed VKS 6	Copper	6 Poles	6 m

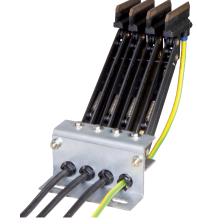
Conductor System hangers for VMT

VAHLE VMT utilizes special twist in hangers for each conductor system. These hangers install quickly and do not require drilling or bolting.

Type	Conductor System	Poles	Order No.
KD15-7 VMT Compact Hanger	U15 C	1-7	171 524
KD25-4 VMT Compact Hanger	U25 C & U25 AE	1-4	171 523
VAS4 - Fixpoint Hanger	VKS 4	4	171 526
VEPS4 - Sliding Hanger	VKS 4	4	171 527
VAS6 - Sliding Hanger	VKS 5 & VKS 6	5-6	171 525
VEPS6 - Fixpoint Hanger	VKS 5 & VKS 6	5-6	171 528

Compact Collector for U25 VMT

New design KEH 100 compact collector for U25 with VMT. Allows up 100A capacity, 200A capacity in tandem.



SA-KEH100-4-31HSAD-2,0-04-04

Туре	Weight lbs	Number of poles	Base plate	Order-No.
SA-KEH100-4-31HSAD-2,0-04-04	7	4	PE at No. 4	171 529/00-D2
SA-KEH100-4-31HSAD-2,0-01-04	7	4	PE at No. 1	171 530/00-A2

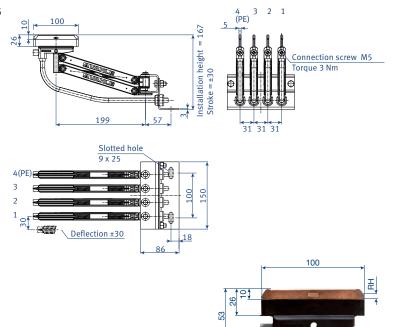
Technical Data for SA-KEH 100 for U 25 Conductors

Contact pressure approx: 12 N per collector brush

Number of poles: 4

Connection cable: 16 mm², 2 m long

Max. current: 100 A
Deflection: ± 30 mm



Replacement Carbon Brush

For KA-KEH 100 compact collector

Туре	Weight kg (lb)	Thickness of brush mm	Replacement brush height mm	for collector	Order-No.
SK-KMK100/KEH-04	0.077 (2)	4	1.50	KEH 100	1000 0053

Sample System Order*

- * Based on 40M VMT system with 4 conductor U25/100 C.
- * For informative purposes only.

Type	Description	QTY	Order No.
VMT-6000	VAHLE Multi Support Profile, 6m long	7	171 546
KV-VMT	Clamping joint splice	6	171 523
AH-VMT-SPW	Clamping suspension hangers	5	171 539
VMTB900-ESST	Joint Splice for linefeed	1	171 548
VSPA-VMT-600	Potential equalization connection set	1	171 563
KD25-4 VMT	VMT Compact hanger for U25C - 4 pole	40¹	171 523
SVU-VMT	Cutting guide	1	171 561
MZ-VMT	Installation pliers	1	171 533
U25/100 C	6m Section - Phase	18	171 046
U25/100 C	4m Section - Phase	3	171 044
U25/100 C	6m Section - Ground	6	171 146
U25/100 C	4m Section - Ground	1	171 144
UV25	Joint splice	20 ²	171 595
USK25 K4	Locating clamp (Stainless steel)	8	170 010
UE 25	Feed terminal	42	170 599
UK 25 - L	End Cap (loose)	8	170 013
KEH100 4-31 HS	Compact collector, 4 pole, PE on #4, 2m cable	1	171 529.2

 $^{^{\}mbox{\tiny 1}}$ Based on 1m support distance. See U25 catalog for details.

 $^{^{\}rm 2}$ UV 25 Joint & UE 25 Feed terminal are interchangeable. See U25 catalog for details.

Products and Service

Catalog No. 12b | 2014

. 0	pen Conductor Systems	
	Open conductor systems	1a
2	nsulated Conductor Systems	
	U10	2a
	U15, U25, U35	2c
	U20, U30, U40	2d
3 C	ompact Conductor Systems	
	VKS 10	3a
	VKS - VKL	3b
E	nclosed Conductor Systems	
	KSL	4a
	КВН	4b
	MKH	4c
	LSV - LSVG	4d
C	ontactless Power Supply	
	Contactless power supply (CPS®)	5a
D	ata Transmission	
	VAHLE Powercom®	6a
	Slotted Microwave Guide (SMG)	6b
	Mini-Slotted Microwave Guide (M-SMG)	6c
P	ositioning Systems	
	VAHLE APOS®	7a
	VAHLE APOS Optic	7b
F	estoon Systems	
	Light duty festoon systems - ☐ tracks & ♦ tracks	8a
	Heavy duty festoon systems - T Beam tracks	8b
R	eels	
	Spring operated cable reels	9a
	Motor powered cable reels	9b
0 P	ort Technology	
	eRTG Solutions	10
1 C	ontrol Systems	
	VAHLE-DETO	11
2 0	ther	
	Battery charging contacts	12
	VMT	12
	вок	120
	Specialty Components	Mis
	Conductor Rings , Heavy Enclosed, Handling Systems, Cleaning Components, Polarity Protection	

Installation Services - On site supervision & training, pre-assembly, and commissioning

 $\label{thm:condition} \textbf{Troubleshooting - Site inspection, maintenance, and repair}$



