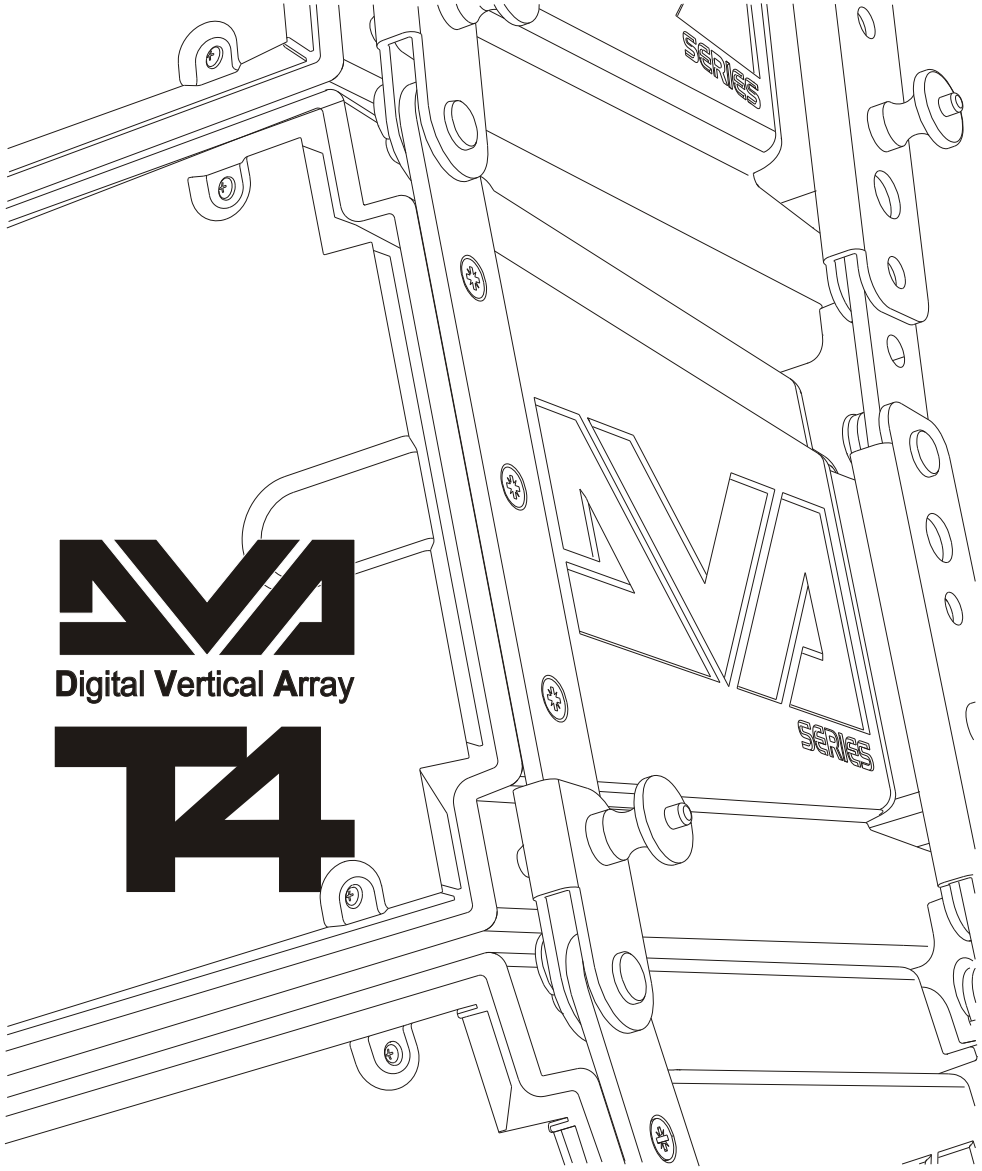
A.E.B. INDUSTRIALE s.r.l.
Via Brodolini, 8 - 40056 Crespellano (Bo) - ITALIA
Tel. + 39 051 969870 - Fax. + 39 051 969725
Internet: www.dbtechnologies.com
E-mail: info@dbtechnologies-aeb.com



DVA
Digital Vertical Array
T4

dB TECHNOLOGIES

CE

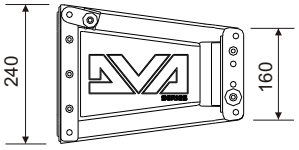
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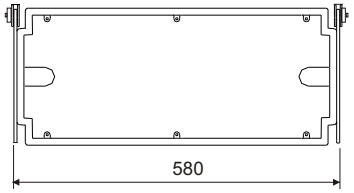
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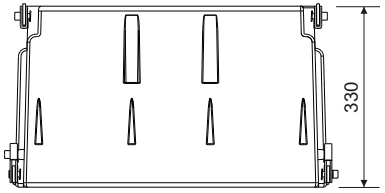
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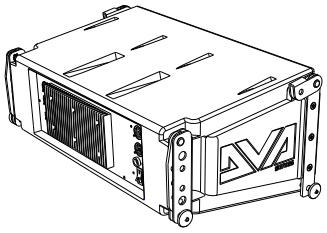
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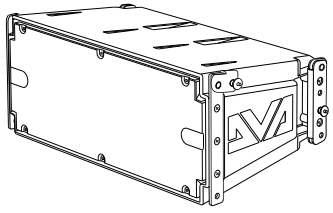
Sistema	Attivo 3-Amps
Tipologia amplificatore	Digitale - Classe T
Potenza RMS	420 W
Potenza musicale	840 W
Risposta in frequenza +/-3dB	80-19.000Hz
Crossover	420 - 2500Hz 24dB/oct
Pressione sonora (SPL)	128 peak
Componenti	1 woofer 8" - bobina 64mm - neodimio 1 midrange 6,5" - bobina 38mm - neodimio 2 compression driver da 1" - neodimio
Sensibilità ingresso nominale	0 dBu
Impedenza ingresso Bilanciato Sbilanciato	20Kohm 10Kohm
Delay totale	1,2mS
Alimentazione	full-range con PFC 85-265V~ 50-60Hz
Forma diffusore	trapezioidale
Dimensioni [LxHxP]	580x330x240/160mm
Peso	13,2Kg











CONTROLS AND FUNCTIONS

1) **POWER SWITCH**
This switch permits turning the speaker on and off.

2) **"MAINS FUSE" FUSE CARRIER**
Mains fuse housing.

3) **"MAINS INPUT" POWER SOCKET**
For connecting the power cable provided.
The connector used for mains connection is a POWER CON® (blue)

4) **"MAINS OUTPUT LINK" RELAUNCH POWER SOCKET**
For relaunching the mains power. The output is connected in parallel with input (3) and can be used to power another amplified speaker.
The connector uses a POWER CON® (grey)

5) **" BALANCED INPUT" INPUT CONNECTOR**
Balanced input at line level. It is able to accept "XLR" sockets.

6) **"BALANCED LINK/OUT " OUTPUT CONNECTOR**
The "XLR" connector connected in parallel with input (5) can be used to send the input audio signal to another amplified speaker.

7) **"INPUT SENS" INPUT SENSITIVITY CONTROL**
This control regulates the sensitivity of the signal amplifier input.
This control does not affect the "BALANCED LINK/OUT" output level

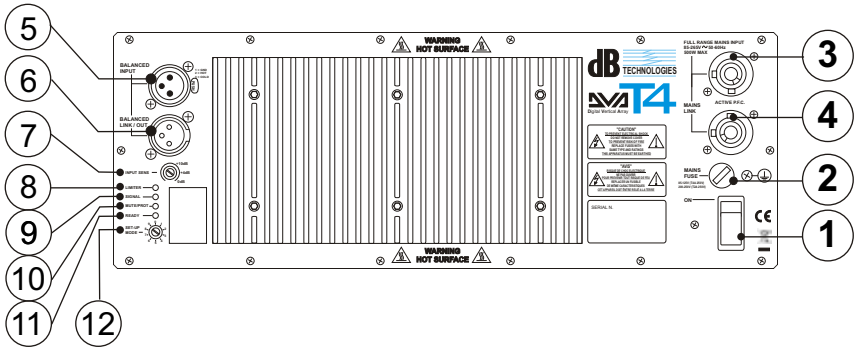
8) **"LIMITER" INDICATOR LIGHT**
This indicator comes on red to indicate that the internal limiter circuit has tripped.
This prevents amplifier distortion and protects the speakers against overloads.

9) **"SIGNAL" INDICATOR LIGHT**
This indicator comes on green to indicate the presence of the audio signal (at a level of -20dB).

10) **"MUTE/PROT" INDICATOR LIGHT**
This yellow indicator indicates amplifier status. In normal operating conditions, the LED is off; if it flashes or is always on, refer to the diagnostics table to check amplifier status.

11) **"READY" INDICATOR LIGHT**
This indicator comes on green to indicate that the main power voltage is correct. In normal operating conditions, the LED is on; if it flashes or is off, refer to the diagnostics table to check amplifier status.

12) **"SET-UP MODE" EQUALIZATION SWITCH**
This 10-position rotating switch permits selection of the equalization curve according to installation type.
See table for corresponding equalization curve.



DIAGNOSTICS TABLE

MODULE STATUS	LED "READY" (green)	LED "MUTE/PROT" (yellow)	AUDIO FUNCTIONS
Power ON	Off	On for 5 sec.	Data loading In mute for 5 sec.
Normal use	On	Off	Complete
Equalization changing	Off	On for 5 sec.	Data loading In mute for 5 sec.
Partial fault	On	Slow flashing	Partial
Total fault	Off	On fixed	In mute
Amplifier temperature: higher 70°C	Slow flashing	Off	Output volume Reduction step
higher 80°C	Fast flashing	Off	Output volume reduction -15dB

"NOISE GATE" function

NOISE GATE, or residual noise suppressor, is a function to reduce noise of the speaker without input audio signal applied.

NOISE GATE starts to work when there is no audio signal on input, after a few seconds, it sets the amplifier section in MUTE state . MUTE state is indicated by slow flashing, of "MUTE/PROT" yellow led. As soon as the audio signal passes he input section, the speaker is set out of MUTE status automatically.
This option can be enabled and disabled according to the follow procedure on the amplifier's module.

1) How to check NOISE GATE status

The NOISE GATE status is visualized by the leds located on the amplifier panel during switching on the module.

Function enabled =all leds flashes steady for 5-6 second.
Function disabled = only "MUTE/PROT" yellow led flasches steady for 5-6 second

2) NOISE GATE enabled/disabled

NOISE GATE enabled/disabled can be done each time when switching ON and OFF the amplifier module with "SET-UP MODE" selector on position "9 "(service use only).

To enable/disable NOISE GATE function follow this procedure:

- Amplifier switched OFF
- Set "SET-UP MODE" selector in position "9"
- Switch ON the amplifier module and check following:
  * if "LIMITER" red led steady flashes for a few seconds, the NOISE GATE is enabled.
  * if "LIMITER" red led flashes fast for a few seconds, the NOISE GATE is disabled

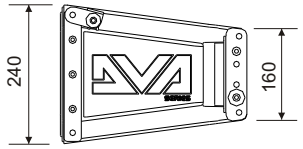
Warning!
After enabling or disabling the NOISE GATE function, switch off the amplifier, select "SET-UP MODE" selector in any equalization position (except of "9" position) and switch the system ON.

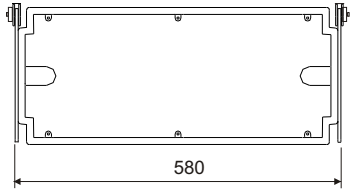
EMI CLASSIFICATION

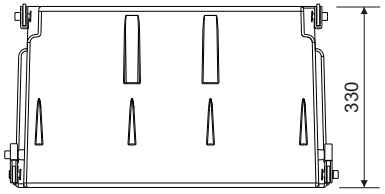
According to the standards EN 55103 this equipment is designed and suitable to operate in E3 (or lower E2, E1) Electromagnetic environments.

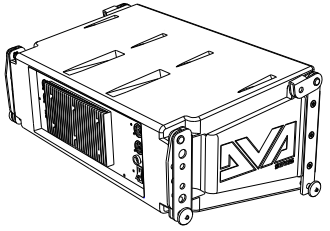
TECHNICAL SPECIFICATION

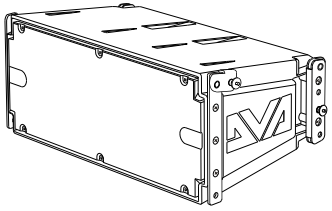
System	Active 3-Amps
Type of amplifier	Digital - Class T
RMS power	420 W
Musical power	840 W
Frequency responce +/-3dB	80-19.000Hz
Crossover	420 - 2500Hz 24dB/oct
Sound pressure (SPL)	128 peak
Component parts	1 woofer 8" - coil 64mm - neodymium 1 midrange 6,5" - coil 38mm - neodymium 2 compression driver da 1" - neodymium
Input sensitivity nominal	0 dBu
Impedence Bilanced Unbalanced	20Kohm 10Kohm
Delay totale	1,2mS
Power supply	full-range with PFC 85-265V~ 50-60Hz
Speaker shape	trapezioid
Dimension [LxHxP]	580x330x240/160mm
Weight	13,2Kg











INSTALLATION

DVA system has obtained the TÜV certification for suspension of DVA T4 and DVA S10dp speakers through flybar stirrup DRK 10.
The report certifies that the maximum weight applying to DRK 10 flybar is 250Kg.

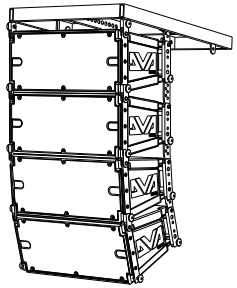
DVA T4 configuration

The DRK 10 flybar attests that the maximum number of DVA T4 is 16.

Refer to table 1 to determine the total weight borne by flybar according to the different DVA T4 configurations.

Table 1

Quantity DVA T4	Weight [kg]	[lbs.]
1	15	33
2	30	66
3	45	99
4	60	132
5	75	165
6	90	198
7	105	231
8	120	264
9	135	297
10	150	330
11	165	363
12	180	396
13	195	429
14	210	462
15	225	495
16	240	528



DVA S10dp configuration

The DRK 10 flybar attests that the maximum number of DVA S10dp with Neodymium woofer is 4 and DVA S10dp with Ceramic woofer is 5.
Refer to table 2 to determine the total weight borne by flybar according to the different DVA S10dp configurations.

Quantity DVA S10dp (Neodymium woofer)	Weight [kg]	[lbs]
1	48	106
2	96	212
3	144	317
4	192	423
5	240	528

Quantità DVA S10dp (Ceramic woofer)	Weight [kg]	[lbs]
1	54	119
2	108	238
3	162	357
4	216	476

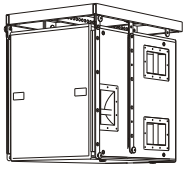


Table 2

Mixed configuration with DVA T4 and DVA S10dp (Neodimium woofer)

The modular structure of DVA system permits mixed suspension configuration between DVA T4 and DVA S10dp. It is necessary to consider that one DVA S10dp hanging subwoofer corresponds, in weight terms, to about four DVA T4 speakers.
For this reason it is necessary to calculate the total weight according to the different configurations.
Examples:

	Quantity	Weight x qty	Configuration weight
DVA T4 DVA S10dp(Neodimium woofer)	8 2	120Kg 96Kg	**216Kg**

	Quantity	Weight x qty	Configuration weight
DVA T4 DVA S10dp(Neodymium woofer)	12 1	180Kg 48Kg	**228Kg**

Structural modification of DRK 10 flybar

No structural modifications may be made without the manufacturer's consent.
Use only dB Technologies original parts

Original parts dB Technologies

Use only dB Technologies original parts.
The TÜV authorizing body has not certificated any other parts for use!
Always install parts in accordance with these installation instruction!
Compile and store all DVA system documents in a safe place!

Warning
If the security norms and total weight calculations are not observed, dB Technologies is not responsible for any possible damage to people and things.

Note

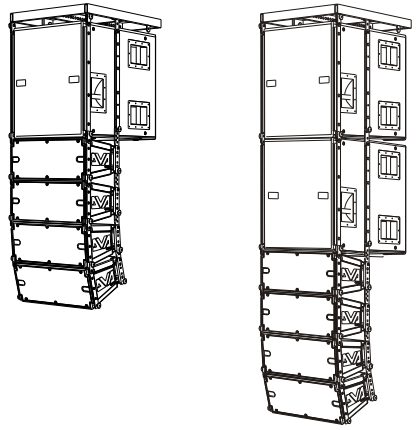
During installation ensure that carrying structure of the system has added in the total weight also the DRK 10 flybar weight, chain hoists, motors, cables and further weights.

Initiation and Operation

The safety regulation “§ 39, VBG 9a” of the German employers' liability insurance association's accident prevention regulations requires that load-carrying equipment be inspected by a qualified expert and possible defects be eliminated prior to initial commissioning by the recipient.

The safety regulation “§ 41, VBG 9a” requires that load-carrying equipment be subjected to a non-routine inspection following damage, repair work and other incidents that can affect load-carrying capacity.

Warning
The safety regulations might be different in other countries. Please check with your national safety authority the valid regulations!



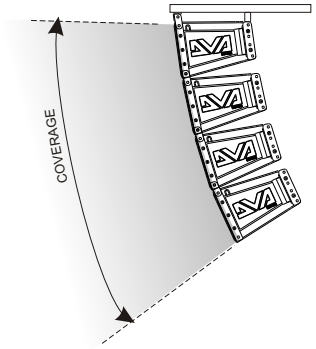
DVA Composer Acoustical Simulation and aiming for DVA Systems

DVA Composer is a 2D software for aiming and simulating acoustical response of all line arrays and Subwoofers from DVA Series.
The software allows you to set up a stereo system composed by tops and subs, and simulates separately the acoustical response of both.
DVA Composer also gives to the user all the information about phase alignment between flown systems and ground stacked subwoofers, as well as it suggests an optimized aiming of the line arrays modules and their suggested EQ presets, in order to guarantee maximum performances even for non-expert customers.

It is recommended to download DVA_Composer free software directly from dB Technologies (www.dbtechnologies.com) in the special section «Software & Controller»

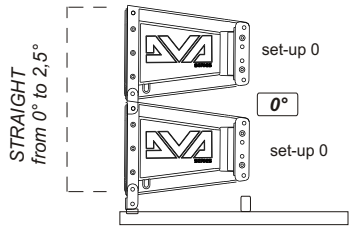
DVA T4 PRESET EQUALIZATIONS

NUMBER OF BOXES	SHAPE	ANGLES	EQU SET
FROM 1 TO 2	STRAIGHT	from 0° to 2,5°	0
	CURVED	from 5° to 15°	1
FROM 3 TO 5	STRAIGHT	from 0° to 2,5°	2
	CURVED	from 5° to 15°	3
FROM 6 TO 8	STRAIGHT	from 0° to 2,5°	4
	CURVED	from 5° to 15°	5
FROM 9 TO 12	STRAIGHT	from 0° to 2,5°	6
	MID CURVED	from 5° to 7,5°	7
	CURVED	from 10° to 15°	8
SERVICE USE ONLY			9

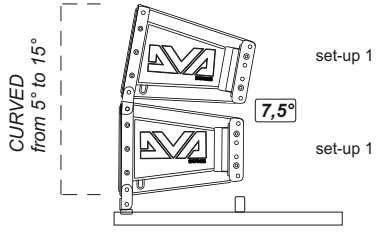


SET-UP EXAMPLES

CONFIGURATION : FRONT FIELD
N°OF BOX: 2

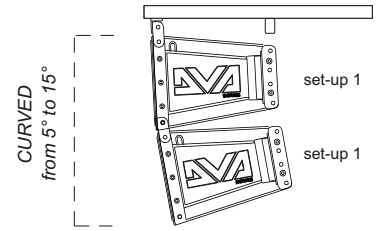


CONFIGURATION : FRONT FIELD
N°OF BOX: 2

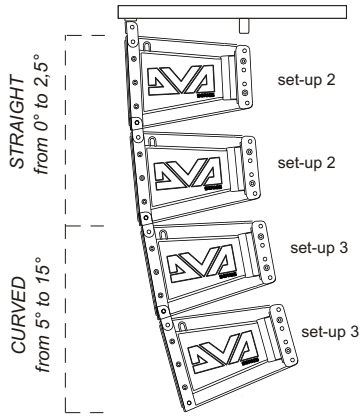


SET-UP EXAMPLES

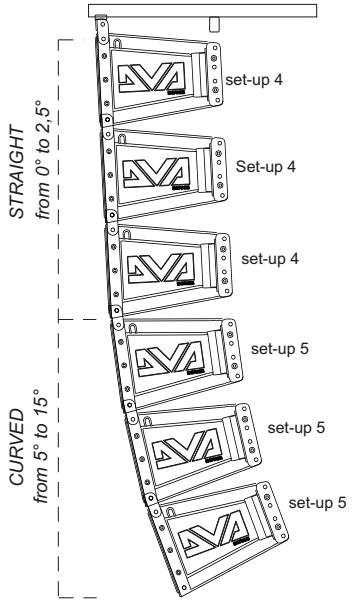
N°OF BOXES: 2



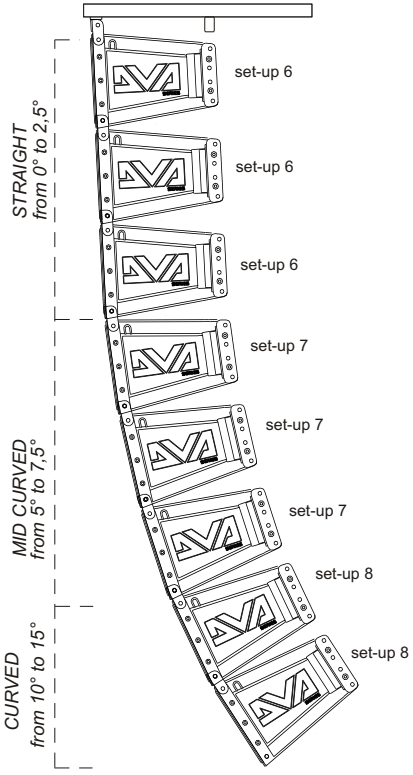
N°OF BOXES: 4



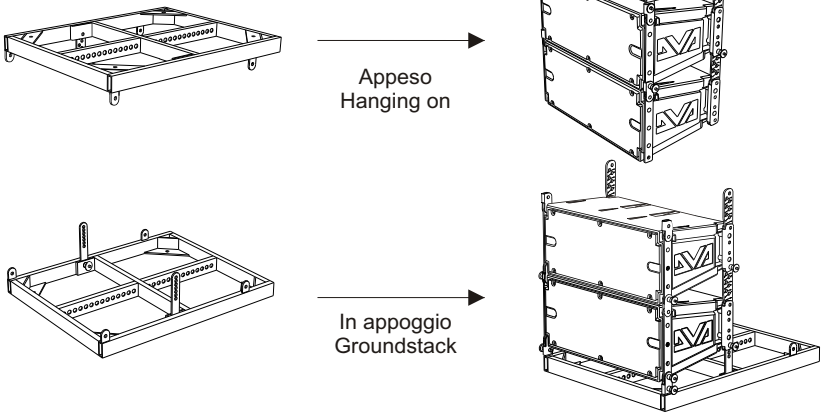
N°OF BOXES: 6



N°OF BOXES: 8

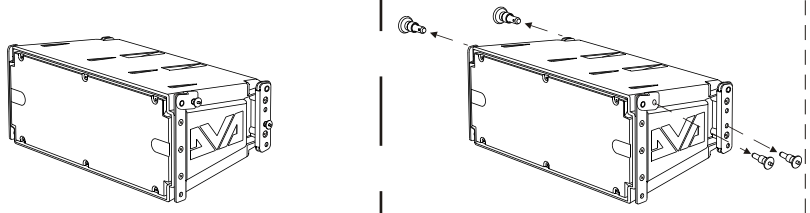


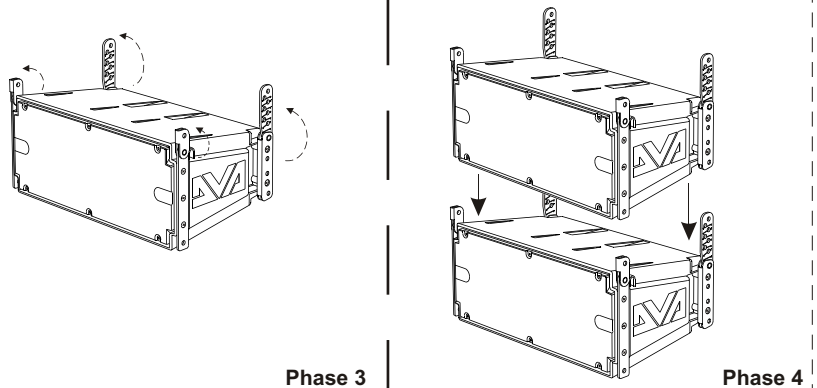
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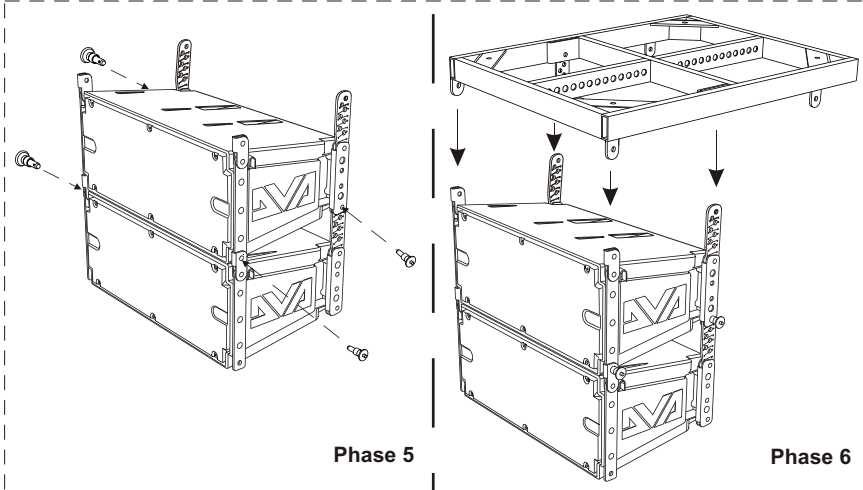


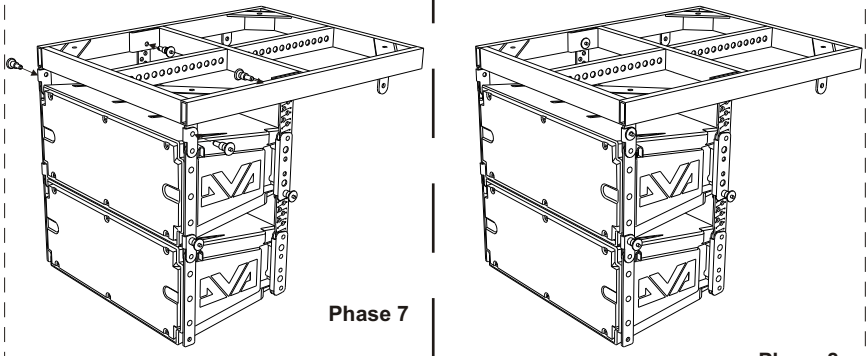
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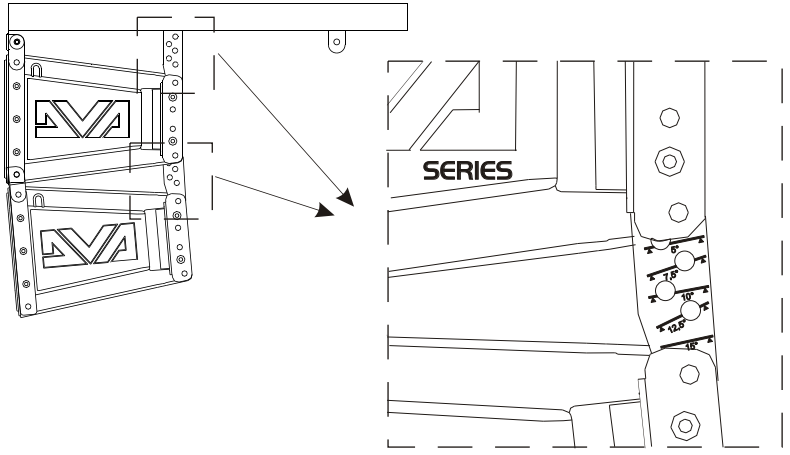






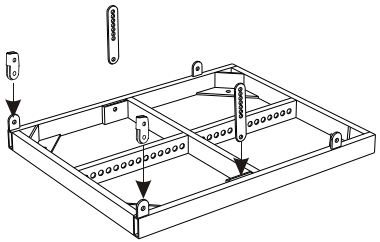


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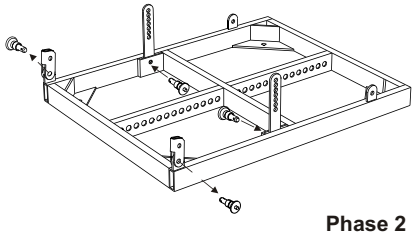


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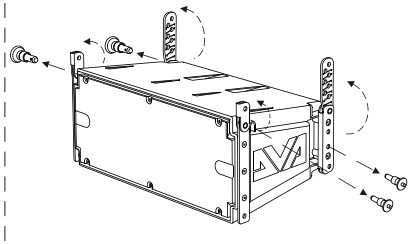
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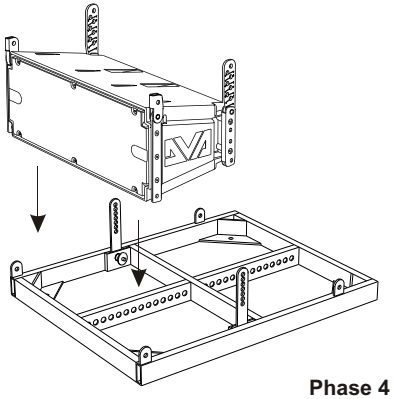
Phase 1



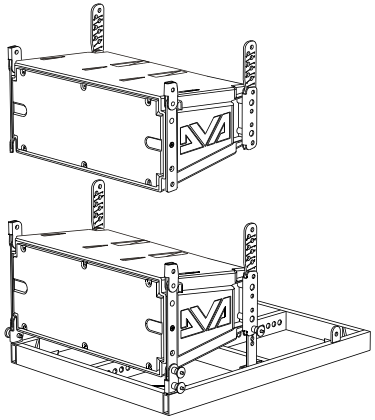
Phase 2



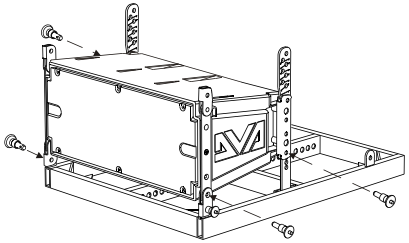
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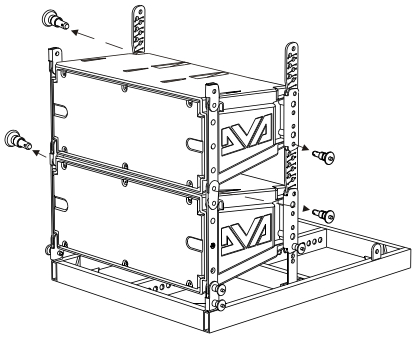
Phase 4



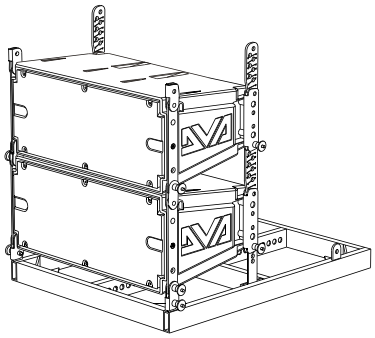
Phase 5



Phase 6

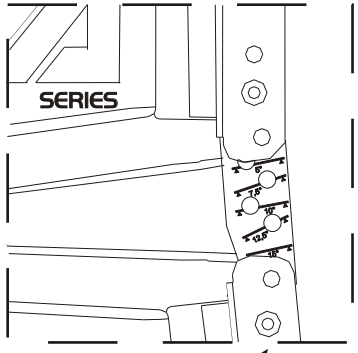


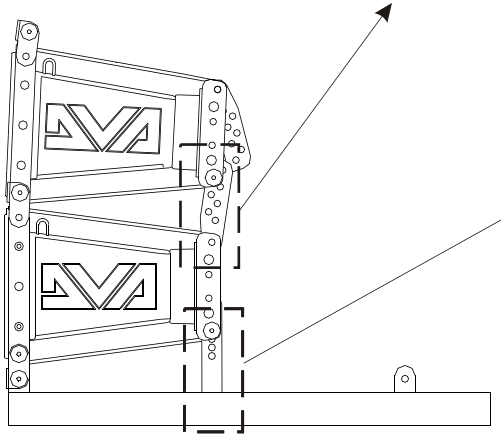
Phase 7

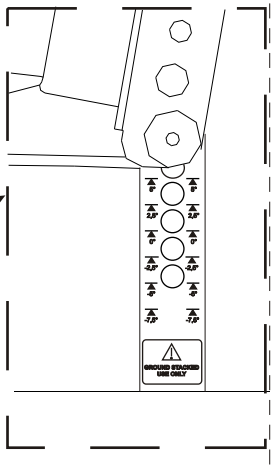


Phase 8

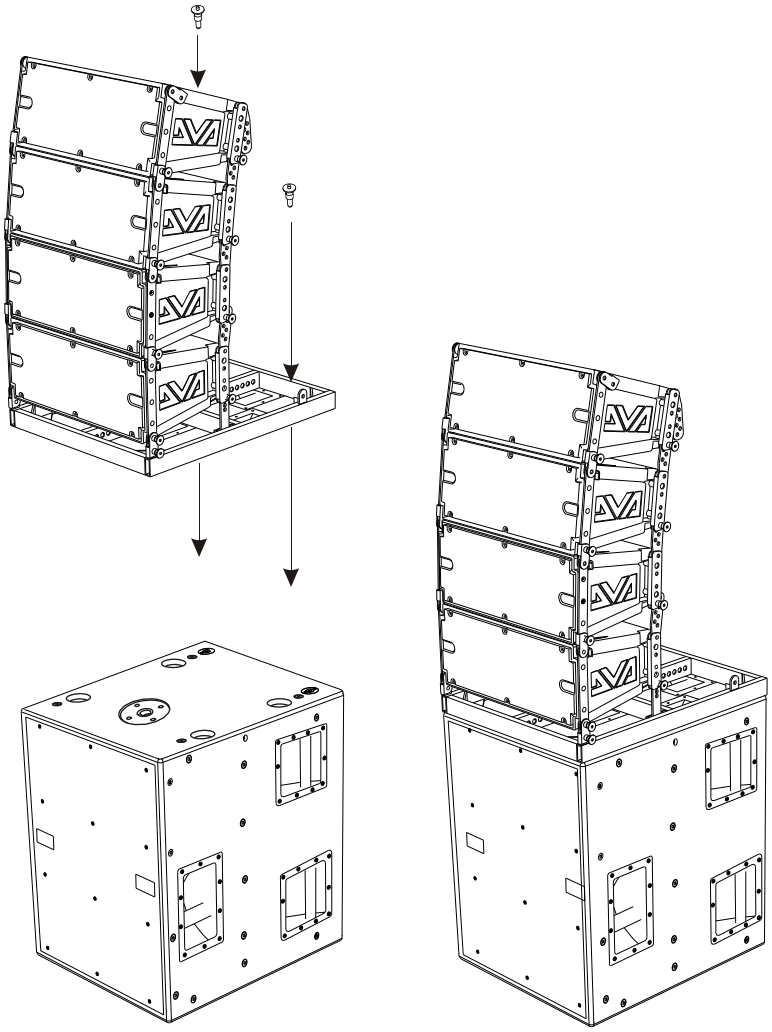
INCLINAZIONE INCLINATION
NEIGUNG INCLINAISON





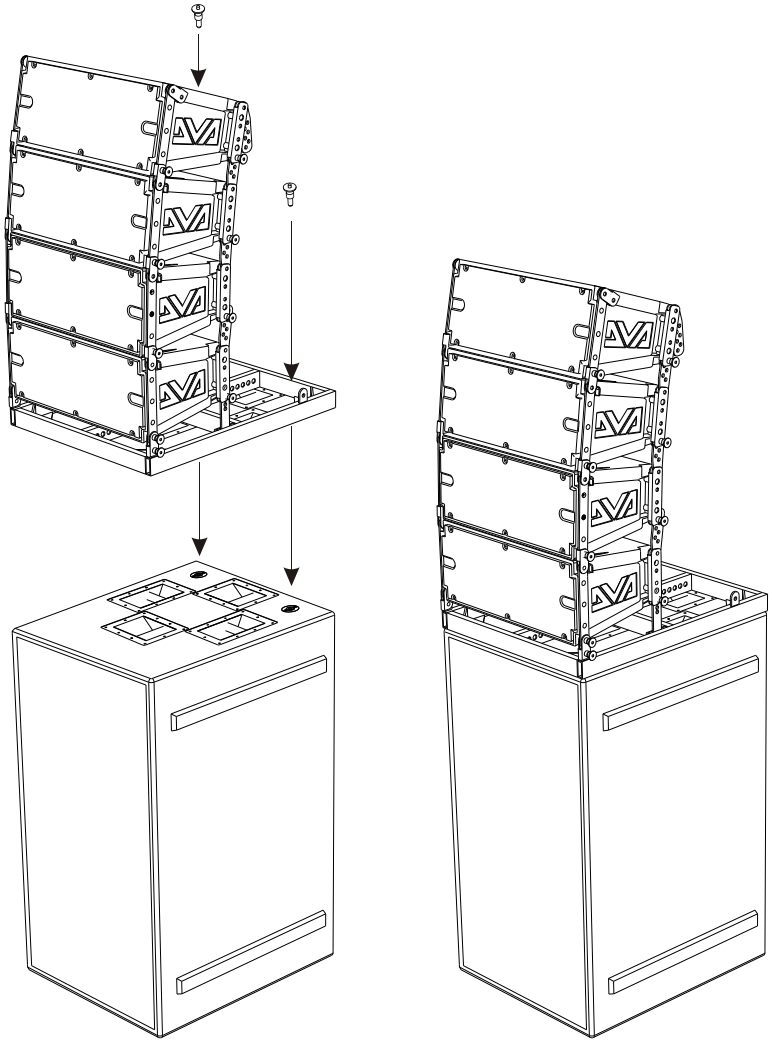


DVA T4 + DVA S10



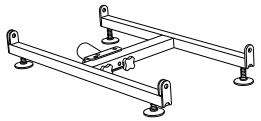
Utilizzo in appoggio verticale (DVA T4 montaggio “Ground stacking”)
Supported use (DVA T4 ““Ground stacking” assembling)

DVA T4 + DVA S20

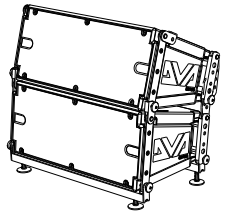


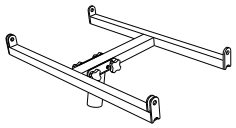
Utilizzo in appoggio verticale (DVA T4 montaggio “Ground stacking”)
Supported use (DVA T4 ““Ground stacking” assembling)

Opzione DSA 4
DSA 4 Option

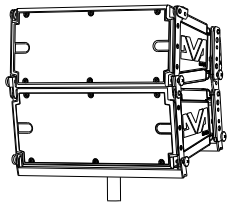


In appoggio
Floor stack

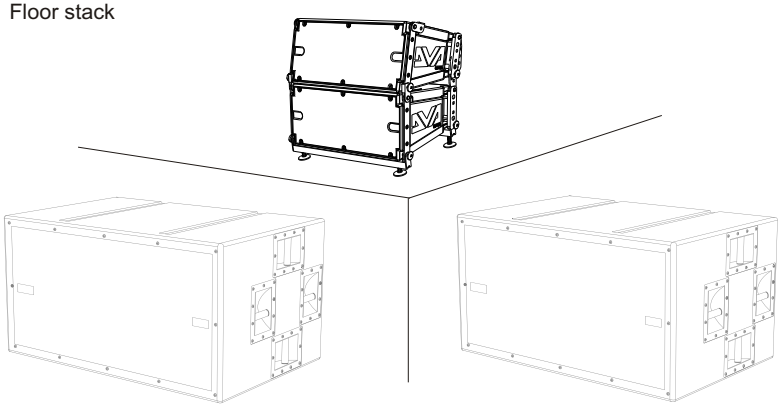


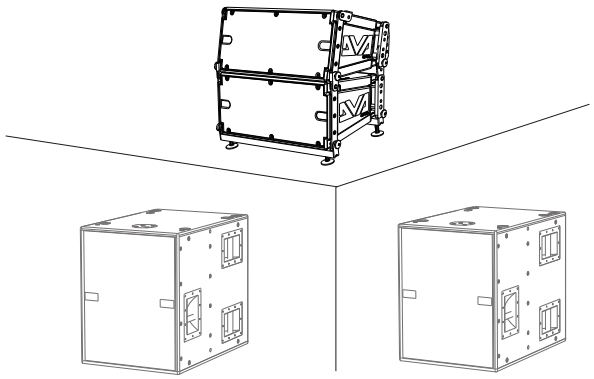


Per supporto asta
Stand adaptor

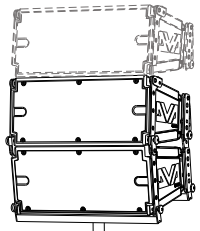


In appoggio
Floor stack

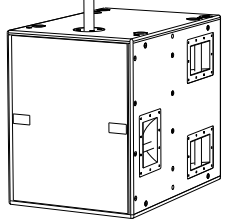


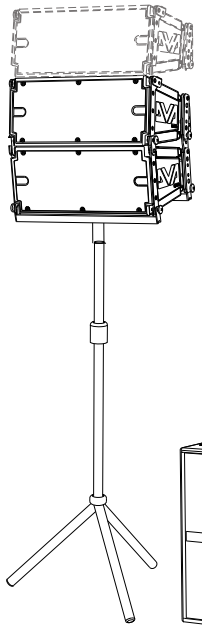


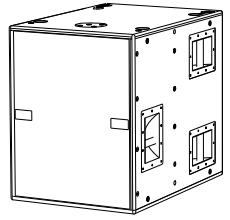
Per supporto asta
Stand adaptor

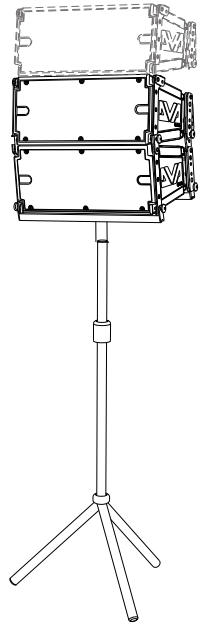


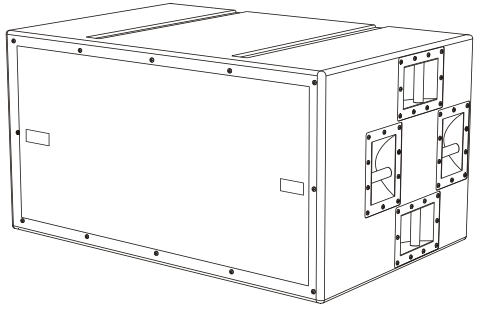
Solo con DVA S10
Only with DVA S10











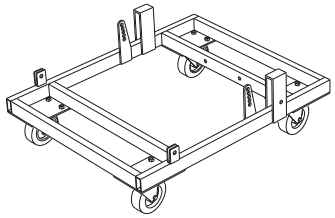
ISTRUZIONI DI SICUREZZA PER ACCESSORI / SAFETY INSTRUCTIONS FOR ACCESSORIES ZUBEHÖR SICHERHEITSHINWEISE / INSTRUCTIONS DE SÉCURITÉ POUR LES ACCESSOIRES

Quando viene utilizzato un carrello, usare cautela durante lo spostamento dell'apparecchio per evitare infortuni a causa di capovolgimenti.

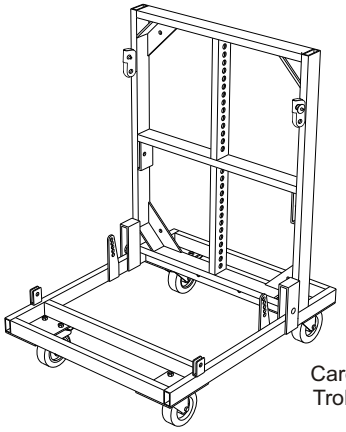
When a cart is used, use caution when moving the cart-apparatus combination to avoid injury from tip-over.

Beim Verfahren des Geräts auf einem Wagen darauf achten, dass es nicht zu Unfällen kommt, weil das Gerät umkippt.

Quand on utilise un chariot, déplacer l'appareil avec précaution afin d'éviter des accidents à cause de renversements.

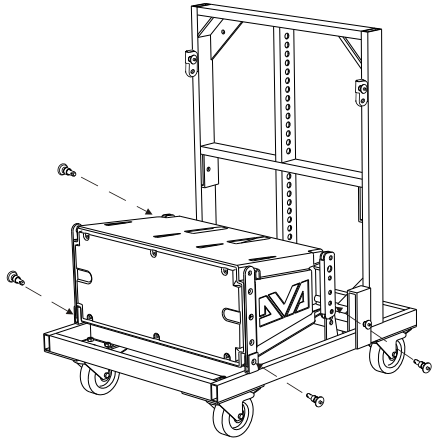


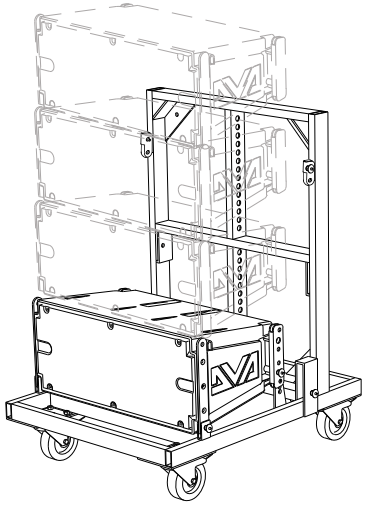
Carello - opzione DT 6
Trolley - DT 6 option

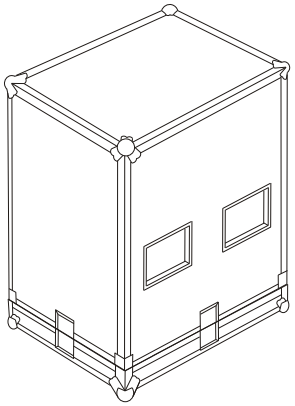


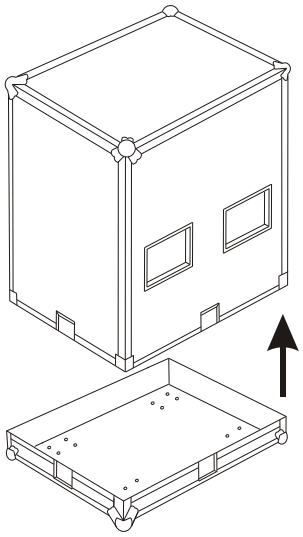
Flybar

Carello
Trolley

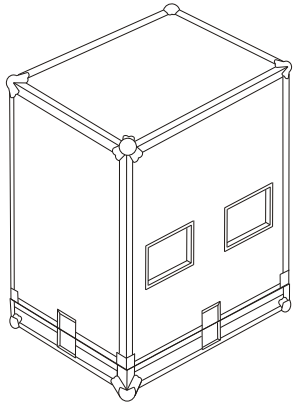


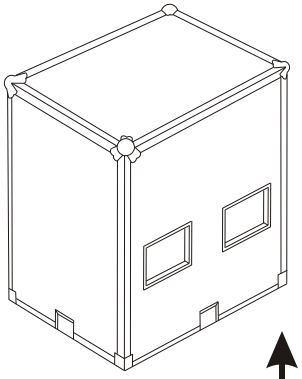


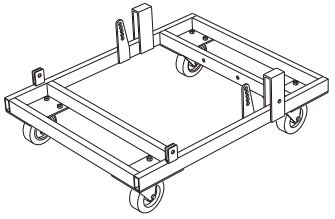


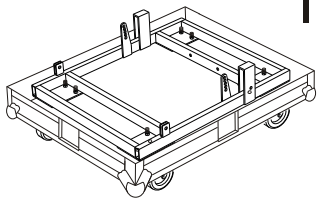


Flightcase per 4 DVA T4 - opzione DF 4
Flightcase for 4 DVA T4 - DF 4 option



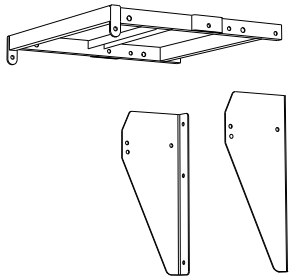






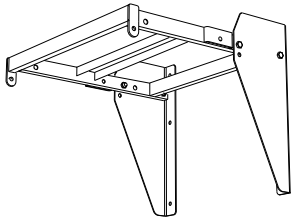
Opzione DTF 4
DTF 4 Option

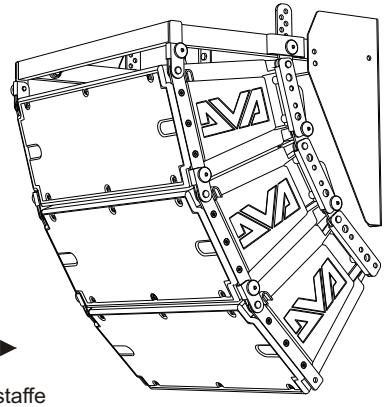
DTF 4 = DT 6 + DF 4



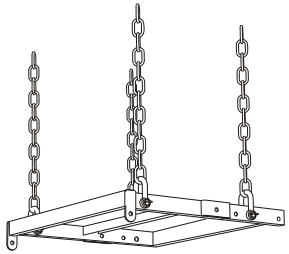
Staffa a muro - opzione DWB 3
Wall bracket - DWB 3 option

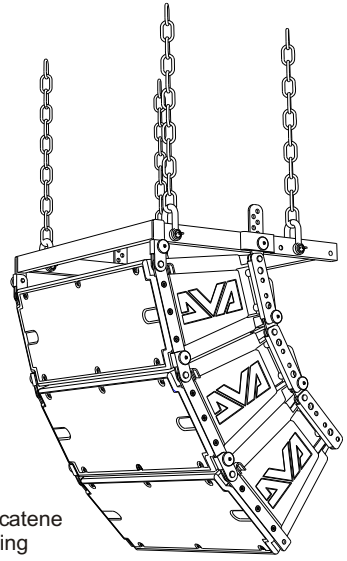
Gli accessori per il fissaggio della staffa non sono forniti in dotazione
The fixing accessory for wall bracket are not suppling with the kit



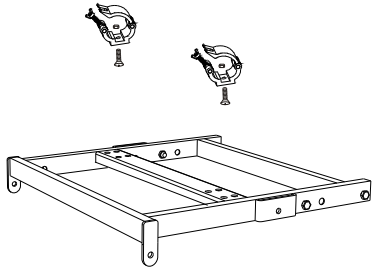


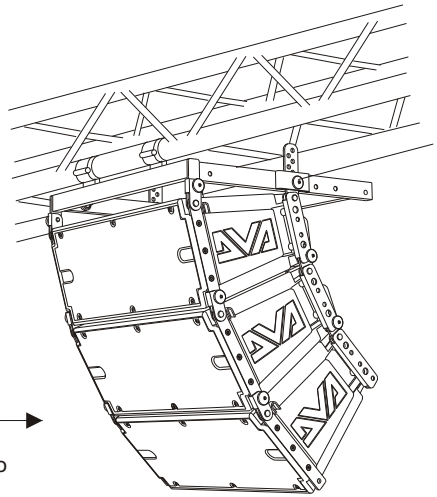
Fissaggio a muro con staffe
Wall brackets fixing



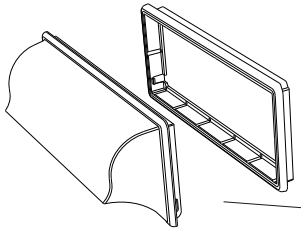


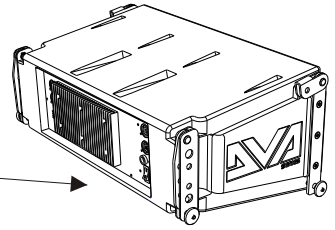
Fissaggio a muro con staffa e catene
Wall bracket and chains fixing



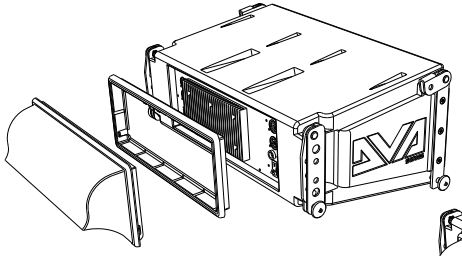


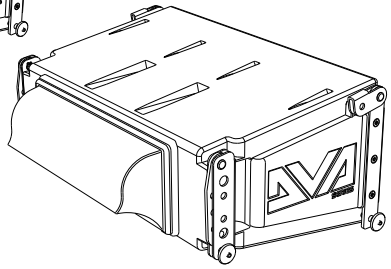
Fissaggio su strutture a traliccio
Fixing on truss structures

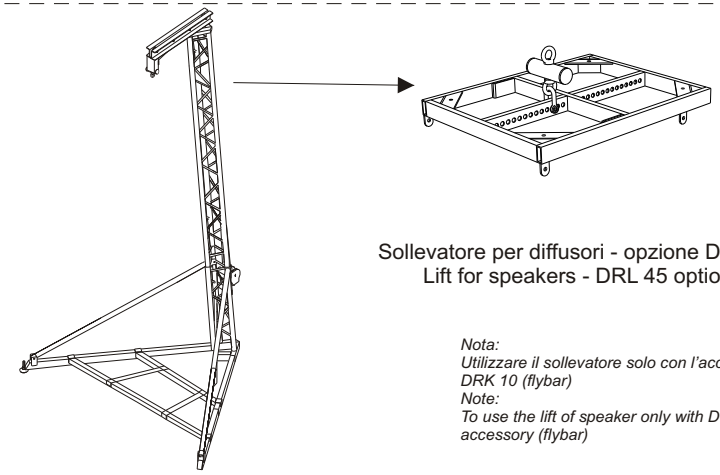




Protezione pioggia - opzione DSA 4
Stand adaptor - DSA 4 option

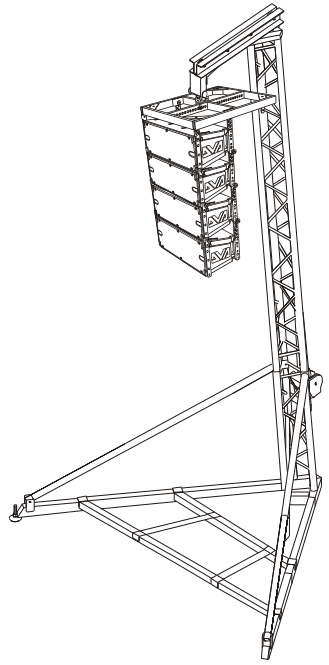






Sollevatore per diffusori - opzione DRL 45
Lift for speakers - DRL 45 option

Nota:
Utilizzare il sollevatore solo con l'accessorio DRK 10 (flybar)
Note:
To use the lift of speaker only with DRK 10 accessory (flybar)



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Contattare dB Technologies per gli accessori da utilizzare a corredo.
Si declina ogni responsabilità da un utilizzo inappropriato degli accessori o di dispositivi aggiuntivi non idonei allo scopo.

Contact dB Technologies for accessories to be used with speakers.
Will not accept any responsibilty when inappropriate accessories or not suitable additional devices are used.

Kontaktieren sie dBTechnologies für passendes Lautsprecherzubehör.
Falls unpassendes Zubehör verwendet wird, wird jegliche Haftung ausgeschlossen.

Contact dBTechnologies pour les accessoires à utiliser avec la machine.
N'accepterons pas toutes les responsabilités lorsque des accessoires inappropriés ou ne conviennent pas à des dispositifs supplémentaires sont utilisés.

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BLOCK DIAGRAM
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DIAGRAMA EM BLOQUES

