MVC informal group

Table about national current practice with regard to MVC

Item	UK	D	D(BPW)	DK	S	FIN
Year of testing	Annual 1 year from first use for all except showmans (fairground) vehicles	Field trial in Germany starts 01 Jan 2012 to 31 Dec 2016		2008-2016		Since 1993 - 60 ton / 7 axles or more - Maximum length 22 m, 25.25 m since 1997 - Maximum height 4.2 m From October 1st 2013 - 64 ton / 8 axles (68 ton if 65 % of the weight of the trailer/trailers is on axles with twin tires) - 69 ton / 9 axles (76 ton if 65 % of the weight of the trailer/trailers is on axles with twin tires) - Maximum height 4.4 m
Year of application	Available now although not normally used in the UK with no Companies known to be operating such combinations					
MVC definition	Maximum length of the towing vehicle is 9.2m, maximum length of any single trailer is 7m			Truck + 1 or 2 trailers all within standard dimensions but length exceed 18,75 m as roadtrain.		
Types of combinations	Locomotive – 3 trailers Motor tractor – 2 trailers if neither is laden A heavy motor car - 2 trailers if one of them	Tractor with semi-trailer (17,80m), tractor vehicle with a central axle trailer (25,25m), normal truck with dolly and semitrailer (25,25m)		ISO 1 truck – dolly – semi ISO 2 tractor – semi – CAT ISO 5 tractor – link trailer – semi Truck – long trailer		 Truck + long trailer (21 m – 25.25 m) is the most common combination ISO 1 (truck + dolly + semitrailer) is also popular ISO 2 (tractor + semitrailer + centre-axle trailer) is not

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		is a towing implement and part of the other is secured to and either rests on or is suspended from that implement					so popular. Not so good in slippery conditions (stability and traction). - ISO 5 (tractor + link trailer + semitrailer) is quite rare but getting more popular. Problems with turning regulations.
Dimensions	Combination max length	25.9m	25,25m		25,25 m	25,25 m	25,25 m
	Max weight	44000kgs	40 – 44to		60T/8 axel, 56T/7 axel, 50T/6 axel	60tons	 4 ton / 8 axles (68 ton if 65 % of the weight of the trailer/trailers is on axles with twin tires) 69 ton / 9 axles (76 ton if 65 % of the weight of the trailer/trailers is on axles with twin tires)
	Max wheelbase (distance from front axle to rearmost axle)	Not defined	No Information about that item		No maximum < 19 m only 54T	Must be according to requirement in traffic ordinance.	
	Width					max 2.6m	
	Linktrailer				Max 8,75 m from king pin to fifth wheel		
Manoeuvra bility	Max outer circle diameter	When drawing one trailer, a heavy motor vehicle - no part of it projects outside the area contained between concentric circles with radii of 12.5m and 5.3m.	12,5m ("BO- Kraftkreis")	25 m	12,5 m	12.5m	12.5m
	Minimum inner circle diameter	See above	7,2m	10,6 m	None	2m	2m

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	Max number of rotating points	Not defined	3	2	2		
Braking	EBS mandatory	Age related	Yes	yes	yes	ABS	
	Electric control line	Age related	yes	yes	yes		
	LDWS/AEBS and automatic- distance control system		yes				
Steering system	Dolly	Automated	Yes	yes	Allowed, free tracking axel must lock > 40 km/t	Dolly must have turntable for speed above 40 km/h. Max art. +/- 20°	
	Semi-trailer	N/A	Yes		Not allowed if coupled to dolly. Free tracking axel must lock > 40 km/t		
	Full trailer	Automated	yes		No regulation		
	Link trailer				Only one free tracking axel is allowed		
Towing vehicle	Traction requirements				None		
	Minimum driving axle weight	N/A	< 7to (of 92% of the vehicles)		None		
	Additional						 The towing truck/tractor must be approved for the combination mass used No exceptions to the level of safety requirements National alternative requirements for brakes – same level as Reg 13
In-use	Max speed	Believed to be 60km/h	80 km/h	80 km/h	80	Truck-dolly-semi, tractor-link-semi and	

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					tractor-semi-cat others 40 km/h	
Permitted roads	All	specifically defined road network with about 95% highway proportion		Dedicated road net		
ADR vehic	Not allowed under ADR	no		Yes on ISO 1 and truck - long trailer combinations		
Winter particular requireme		No special requirements known		None		
Max speed steered tr		80 km/h	80 km/h			
No passing other vehice with more 25km/h	icles	yes				
Additiona				Dolly must have 2 axels and a turntable on the fifth wheel allowing ±20° Linktrailer brake performance > 50% Dolly brake performance > 55%		- If the total mass on the driving axle(s) is less than 18 per cent of the vehicle combination mass, the towing vehicle shall, during winter time, be equipped with a device which will improve the vehicle's starting capability on a slick surface. (If the combination mass exceeds 64 tons and there is only one drive axle there must be chains, Robson drive system or something like that in winter.) - If the mass of the vehicle combination exceeds 68

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						tonnes, a minimum of 20
						per cent of the combined
						vehicle mass shall be
						placed on the driving
						axles. (= two drive axles)
						- Distance between first and
						last axle of the
						combination (bridge rule)
						e.g. 14.3 m / 60 ton or
						19.3 m / 76 ton.
						- Engine power 5 kW / ton
						for a mass of combination
						e.g. 60 ton / 300 kW or 76
						ton / 380 kW.
						- The fifth wheel of a dolly
						shall not turn more than
						±30°
						- ISO 18868 may be used for
						coupling devices of
						multiple trailer
						combinations