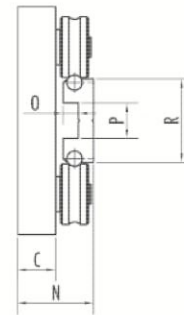
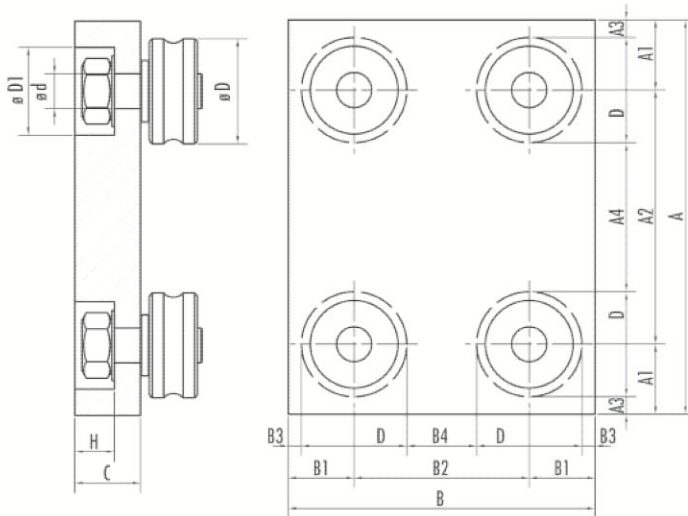
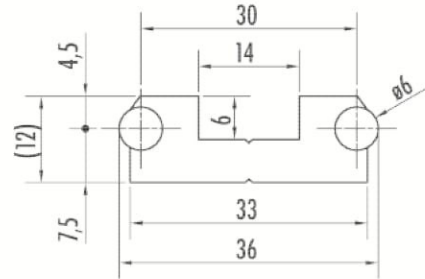
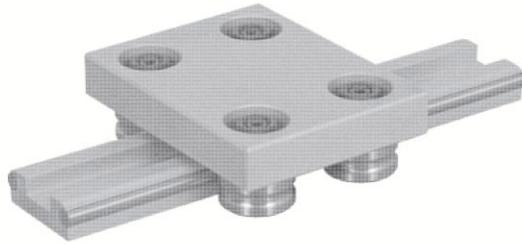


## AV6 TYPE



Code		Type	Components		A	A1	A2	A3	A4	B	B1	B2	B3	B4	C	dH10	D	D1	H	N	O	P	R	Rail max length
Rail	Block		Rail	Block	(mm)																			
83.038.001	83.039.001	AV605	V6	M605	80	14,5	51	6	34	60	14,5	31	6	14	12	5	17	16	7	26,5	6	14	33	6000
	83.039.002	AV608		M608	90	16	58	4	34	70	15	40	3	16	15	8	24	20	9	28,5	6	14	33	6000

**Running parameters**

Max speed: 3 m/s

Max acceleration: 7 m/s<sup>2</sup>

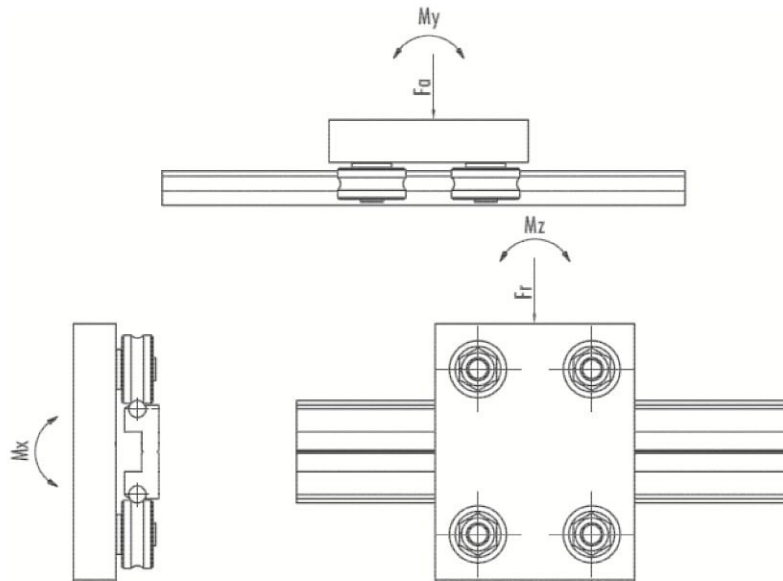
Working temperature: -20 °C+80 °C

**Material**

Rail: anodized aluminium alloy body with Chrome-pated steel shafts

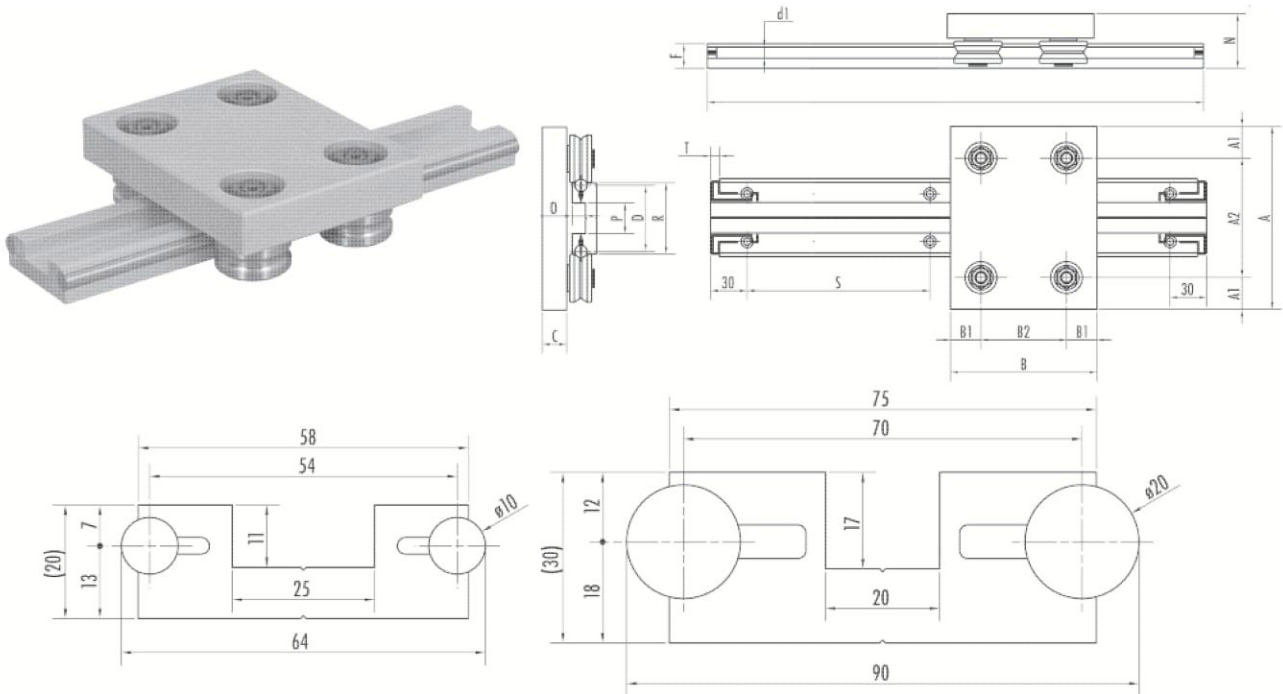
Block: anodized aluminium alloy plate

Roller: double row ball bearings in steel

*Loads which affects the block*

Type	Components			Load					Moment of inertia		Weight		
	Guide	Trolley	Wheels	Fa	Fr	Mx	My	Mz	LX	LY	Guide	Alum. trolley	Steel trolley
				(N)	(Nm)	(Nm)	(cm <sup>4</sup> )	(kg/m)	(kg)				
AV605	V6	M605	C5/17+E5/17	424	1020	7,42	6,57	15,81	3,71	0,35	1,15	0,20	0,58
AV608		M608	C8/24+E8/24	680	1740	11,9	13,6	64,80				0,38	1,10

## AD TYPE



Code		Type	Components		A	A1	A2	B	B1	B2	C	D	F	Lmax	D1	N	P	O	R	S	T
Rail	Block		Rail	Block	(mm)																
83.040.001	83.041.001	AD106	D10	M106	120	18,5	83	80	19,5	41	10	54	20	6000	10	31	25	11	58	150	7,5
	83.041.002	AD208	D10	M208	140	25	90	120	25	70	15 54	54	20	6000	10	37	25	11	58	150	7,5
	83.041.003	AD208R	D10	M208R	140	25	90	120	25	70	20 54	54	20	6000	10	42	25	11	58	150	7,5
	83.041.004	AD210	D10	M210	150	26	98	120	25	70	20 54	54	20	6000	10	44	25	11	58	150	7,5
83.040.005	83.041.005	AD312	D20	M312	180	27	126	150	30	90	20 70	70	30	6000	20	51	20	17	75	300	5
	83.041.006	AD316	D20	M316	180	27	126	150	30	90	25 70	70	30	6000	20	61,5	20	17	75	300	5
	83.041.007	AD416	D20	M1416	200	30	140	180	40	100	25 70	70	30	6000	20	61,5	20	17	75	300	5
	83.041.008	AD416R	D20	M416R	200	30	140	180	40	100	25 70	70	30	6000	20	61,5	20	17	75	300	5
	83.041.009	AD420	D20	M420	200	30	140	180	40	100	25 70	70	30	6000	20	61,5	20	17	75	300	5

**Running parameters**

Max speed: 3 m/s

Max acceleration: 7 m/s<sup>2</sup>

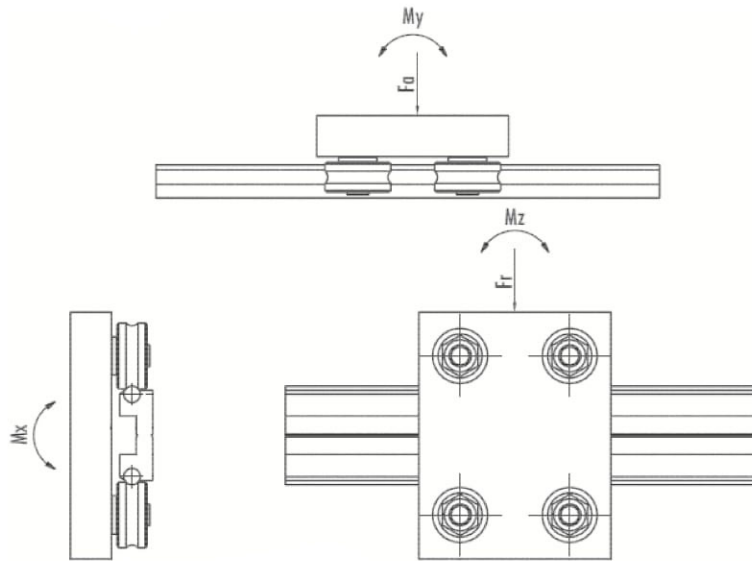
Working temperature: -20 °C+80 °C

**Material**

Rail: anodized aluminium alloy body with Chrome-pated steel shafts

Block: anodized aluminium alloy plate

Roller: double row ball bearings in steel



Loads which affects the block

Type	Components			Fa	Fr	Mx	My	Mz	Moment of inertia		Weight		
	Rail	Trolley	Wheels						Moment of inertia		Rail	Alum. Trolley	Steel trolley
				LX	LY	(kg/m)	(kg)						
				(N)	(Nm)			(cm <sup>4</sup> )					
AD106	D10	M106	C106+E106	800	400	37,8	24,6	12,3	33,51	2,88	3,15	0,25	0,7
AD208		M208	C208+E208	1600	2000	49,6	56	70				0,6	1,9
AD208R		M208R	C208R+E208R	2400	2600	74,4	84	91				0,7	2,2
AD210		M210	C210+E210	2400	2600	79,2	84	91				0,9	2,5
AD312	D20	M312	C312+E312	3200	3200	139,2	144	144	134,59	14,89	8,61	1,3	3,8
AD316		M316	C316+E316	6400	7000	278,4	288	315				1,6	4,8
AD416		M416	C416+E416	6400	7000	278,4	320	350				2,6	7
AD416R		M416 R	C416R+E416R	17200	8600	748,2	860	430				2,6	7
AD420		M420	C420+E420	20000	15700	870	1000	785				2,6	7

## CURVILINEAR TYPE

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### Running parameters

Max speed: 3 m/s

Max acceleration: 7 m/s<sup>2</sup>

Working temperature: -20 °C+80 °C

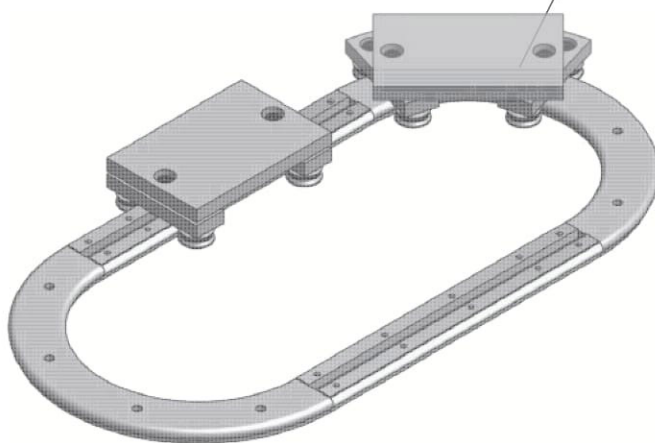
### Material

Rail: anodized aluminium alloy body with Chrome-pated steel shafts

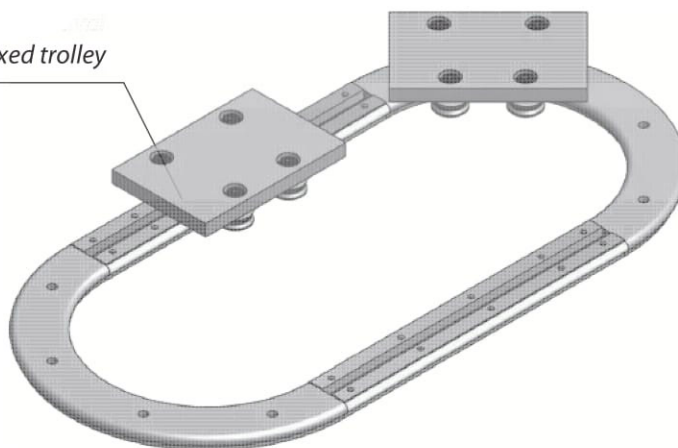
Block: anodized aluminium alloy plate

Roller: double row ball bearings in steel

*Curvilinear system with articulated trolley  
(precision movement on the curves, too)*



*Curvilinear system with fixed trolley*



## **i** TECHNICAL INFORMATIONS

Our guides can also be used to produce curvilinear stretches or closed loops. Sliding is achieved with special trolleys produced with the wheel axle converging in so that the wheels run freely on both straight stretches and around bends. An added bonus is its rather small size, whilst costs are not excessive.

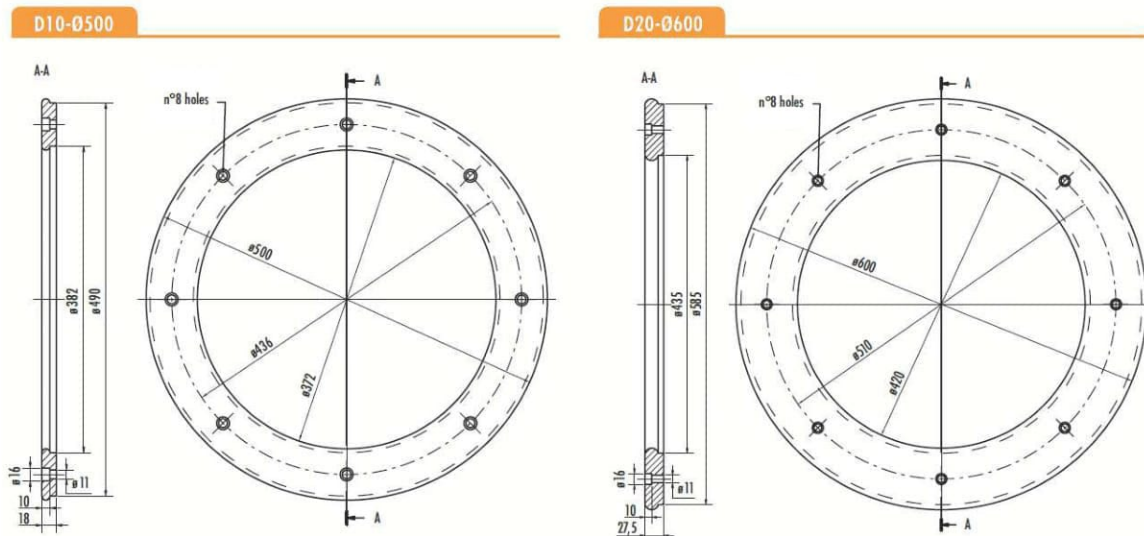
Since there is end play when passing from straight stretches to bends, the use of these trolleys is recommended where good precision is required when moving along the straight axis and when the curved part is only used to change direction.

Should the application call for good precision along straight stretches and smooth sliding around the bend with a smaller amount of end play, articulated trolleys must be used. Dimensions are greater and costs slightly higher than a trolley with fixed wheels. In addition, there are greater limitations on loads since the two central pins which act as the articulated joint have to bear the whole weight. Nonetheless, this all works in the favour of stability when passing from straight stretches to bends.

Double bends are also possible using this kind of trolley.

The coupling between the straight guide and the curved guide is achieved by setting the two end to end, both of which come supplied cut at a right angle. It is up to the customer, during machine assembly, to ensure movement is uninterrupted by aligning the two lengths properly.

The curved guide can be supplied as a complete 360° loop; in two 180° parts to create an oval circuit; or in four 90° parts to create a rectangular or square circuit.



Curve linear guide

## Installation example

