

## MADYMO DUMMY MODELS

### Fast and accurate models of crash dummies

Decades of research and development has led to the most extensive database of simulation models of crash test dummies.

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The dummy models cannot only be used with MADYMO, but also with FE codes like LS-DYNA, PAM-CRASH, RADIOSS and ABAQUS.

#### SPEED AND ACCURACY

Through its combined multibody and FE techniques, MADYMO provides dummy models that meet the most stringent demands for accuracy, robustness and computation speed. Typical simulations run within 5-10 minutes.

#### QUALITY ASSURANCE

The MADYMO dummy models are validated on component, sub-assembly and full-system level using an extensive database of test data. TASS is the first in the market to report the quality of its MADYMO dummy models in quality reports. The quality reports contain detailed information about the data set used for validation, comparisons of experimental versus numerical model signals, and objective rating evaluations.



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### EASY ACCESS TO ALL MODELS

The MADYMO token licensing system gives access to the entire dummy model database at a very attractive price.

### AVAILABLE FOR ALL CRASH CODES

The MADYMO dummy models cannot only be used with MADYMO, but also in co-simulation with FE crash analysis codes like LS-DYNA, PAM-CRASH, RADIOSS and ABAQUS.

### USER SUPPORT

All MADYMO dummy models are explained in detail in the model manual, including numerous application examples. TASS provides regular trainings and workshops. A worldwide team of TASS engineers is available to offer local and dedicated support.

	Dummy model	Ellipsoid	Facet	FE
<b>Frontal</b>	Hybrid-III 05th	•	•	
	Hybrid-III 05th scalable	•		
	Hybrid-III 50th	•	•	
	Hybrid-III 50th scalable	•		
	Hybrid-III 50th standing	•		
	Hybrid-III 50th standing scalable	•		
	Hybrid-III 50th Thor-LX		•	
	Hybrid-III 95th	•	•	
	Hybrid-II 50th	•		
<b>Side</b>	Thor 50th	•		
	TNO10		•	
	EuroSID-2	•	•	
	EuroSID-2 RE	•	•	
	SID-IIs	•	•	
	SID-IIs + airbag arm	•	•	
<b>Rear</b>	WorldSID		•	
	SID-H3	•		
	US DoT-SID	•		
	BioRID-II	•	•	•
	RID-II		•	
<b>Child</b>	Hybrid-III 50th + TRID neck	•		
	Hybrid-III 3yo	•		•
	Hybrid-III 6yo	•		•
	Hybrid-III 6yo scalable	•		
	CRABI 12m	•		
	P03	•		
	P06	•		
	P10	•		
	P3/4	•		
	P1.5	•		
<b>Impactors</b>	Q03	•		
	Q1.5	•		
	ECE12 bodyblock		•	
	EEVC ACEA headform			•
	EEVC adult headform			•
	EEVC pedestrian child headform			•
	EEVC pedestrian legform	•		•
	EEVC upper legform			•
JARI adult headform			•	
<b>Aviation</b>	JARI child headform			•
	Hybrid-II	•		
	Hybrid-III 50th FAA	•		
<b>Motorcycle</b>	Hybrid-III 50th FAA scalable	•		
	MATD		•	
<b>Other</b>	MATD helmet		•	
	H-point manikin		•	

TASS provides software, engineering and test solutions to complex safety development issues. Building on over 30 years of crash test and vehicle safety experience, TASS offers a wide range of services and world-class products to meet your requirements. The TASS mission is "Be a leading company in advanced software solutions to enhance human safety by proving innovative software tools and customer-focused solutions". TASS delivers its solutions thanks to a worldwide network of offices and laboratories allowing, it to provide global solutions at a specialist local level. For more information, please contact your local agent or [www.tass-safe.com](http://www.tass-safe.com)

