

# Before/After

**MESSRING** GmbH  
Friedrichshafener Straße 4c  
82205 Gilching  
Germany

+49-8153-407 96-0  
sales@messring.de  
www.messring.com





**YA-LIN ZHU (23)**  
Only slight injuries and  
a minor head trauma  
despite head-on collision

# Before/After

The need for mobility is accelerating at the same pace as the desire for more safety.

To survive a collision unharmed is the ultimate goal that we pursue together with our customers.

So that it makes no difference whether this picture was taken before or after.

This did not happen by chance. To ensure that a brief distraction on a smartphone does not turn into a fatal accident, extensive crash tests with real cars and sophisticated technology is required. For more than 50 years, car manufacturers and insurance companies have been gaining valuable, reproducible insights into making travel by car, and cars themselves, safer with turn-key crash test systems from MESSRING. Ya-Lin now understands that her life was no accident.

## FIVE DECADES OF INNOVATION DRIVEN BY PASSION

As the rate of car ownership grew rapidly in the 50's and 60's, MESSRING, founded in the 1968, was already regarded as a pioneer in the area of crash test trial analysis. Between those early days and the current, state-of-the-art high-tech crash test systems, MESSRING engineers had to develop a great number of groundbreaking innovations.

With more than 120 systems installed worldwide, we have inspired trends and established standards in our industry that make traffic on all continents measurably safer. At the same time, our more than 140 employees strive for continuous improvement and innovative technical solutions – with absolute passion. For the MESSRING team, it is equally as important to strive for high quality as it is to develop new products and systems.

Also for automated and autonomous vehicles, MESSRING has already initiated developments to clearly define specifications for maximum safety for all road users. And that is why well-known vehicle manufacturers and suppliers place their trust in our competence.

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### What you should know about MESSRING:

- Market leader worldwide for crash test technology
- Over 50 years of experience
- Company headquarters in Germany
- Over 140 employees
- Worldwide sales network and subsidiaries in Germany and China
- Certification according to EN ISO 9001



## COMPETENCE THAT NEVER STANDS STILL

Just as no two projects are the same, each and every solution that we offer to our customers is just as individual. And you can depend 100% on our experts and their wide range of know-how and extensive industry knowledge. From the very beginning, we involve our customers in every stage of planning.

Close collaboration with the customer by a clearly defined project team assures innovative and tailored state-of-the-art complete solutions. For you as our customer, this means: system construction from the foundations to the turn-key, multifunctional usable crash test hall that meets your every requirement.

Whether compact sled test systems, hardware and software solutions, lighting systems or data acquisition – we are always right there when our customers are looking for an exceptional solution. As business conditions become more volatile, customer needs evolve rapidly and unpredictably. In this environment the competences MESSRING has developed through decades of experience become increasingly valuable.



## A ONE-STOP SOLUTION

Whatever your project requires – we have a solution. And much more, because at MESSRING you get the full-service solution – all from a single source. Our product and service portfolio ranges from the planning phase to project planning to development to installation and test procedures and includes everything needed to implement a project. But our solutions do not end there. Our reliable customer service team is happy to support you should you have questions or problems.

### Our range of services:

- Planning
- Design
- Project engineering
- Construction
- Development
- Production
- Quality management
- Installation
- Commissioning
- Documentation
- Acceptance testing
- Customer service / Maintenance

## FOR US, SERVICE IS PARAMOUNT

Our aim is to create solutions that lead to long-lasting partnerships with our customers. That also includes full-service and customer support beyond the usual warranty periods. From installation and commissioning to routine maintenance, our service team provides comprehensive support throughout the lifecycle of your test system. To ensure that your employees get optimum use of MESSRING products during its lifetime, we offer training at MESSRING or, if you prefer, at your location.

Thanks to our international sales network, we guarantee first-class service worldwide, short reaction times and fast availability.

Our partner network in combination with the spare parts warehouses in Germany and China ensure minimum downtimes in the event of an emergency.





## OUR PRODUCT PORTFOLIO – AN OVERVIEW



### Crash and sled systems

The crash and sled systems of MESSRING are known for maximum precision, high impact accuracy and their user-friendliness. To make sure that vehicles can be successfully tested according to the current specifications of organizations such as EuroNCAP or pertinent legal requirements, we provide a full complement of solutions from initial consultancy to commissioning, and of course comprehensive customer care.



### Data Acquisition Systems

When carrying out crash tests, the data acquired from up to 500 sensors plays a significant role. The MESSRING data acquisition system M=BUS is crash-proof and is available in both InDummy and OnBoard versions.

### Lighting Systems

Lighting systems from MESSRING are extremely efficient and make even the smallest crash test details visible. At its core is our M=LIGHT LED especially for crash and sled testing of automotive components. With a luminous flux of up to 150,000 lumens, the M=LIGHT has been optimized both for the continuous illumination of test objects as well as for synchronized operation with cameras with a 200% higher output and up to 25,000 flashes per second.



### Active Safety Systems

Our subsidiary MESSRING Active Safety GmbH is developing an extremely realistic test environment based on a free-moving robot, which makes it possible to test integrated sensor technology for emergency braking systems and automated / autonomous vehicles. This environment simulates all weather conditions as well as varying light and road conditions.





**SALLY GRAHAM (3)**  
Only slight bruising  
despite a rear-end collision at  
50 km/h at a red traffic light

# Before/After

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To survive a collision unharmed is the ultimate goal that we pursue together with our customers.

So that it makes no difference whether this picture was taken before or after.

And she was not just lucky. It requires countless test runs with child safety seats and anatomically correct child dummies to make sure this most common of all accident situations does not result in permanent injury for Sally. With the unbeatably compact sled system CIS, the sled test fixture according to R129 and highly precise M=BUS InDummy measuring technology, MESSRING provides child seat manufacturers and independent test laboratories worldwide with a perfectly integrated full-system for irrefutable test results. Sally will realize at some point that luck alone did not save her.