HYDRAULIC PLATFORMS

Generation 2010
For over 150 years, Metz Aerials has been devoting its experience to serving firefighters all over the world.

A leading manufacturer of aerial ladders, the fire protection experts based in Karlsruhe, Germany have been producing hydraulic platforms since 2005. Many satisfied customers now work with this reliable high-tech product. Offering the utmost in safety, it complies without exception with the requirements of the EN 1777 or NFPA 1901 standards.

Hydraulic platform systems by Metz Aerials utilize cutting-edge technology such as the CAN bus system. Unbeatable performance, the utmost in technical reliability as well as intuitive operation and long service life ensure firefighters the most in effectiveness under operating conditions.

Metz Aerials is the competence center for aerial rescue devices within the Rosenbauer group. The hydraulic platforms and aerial ladders, available with a variety of options and for a working height of 20 m to 56 m, are further developed and optimized on an ongoing basis, ensuring that our products are internationally recognized by firefighters active in aerial rescue.
Hydraulic platforms up to 56 meters.

Rescue and aid for every type of operation.

1 B32
The Metz B32 platform offers aerial rescue at the highest level. It features the most advanced ground pressure monitoring system, stepless jacking width monitoring, a spacious cage featuring three convenient entry points and rapid positioning. From providing technical and rescue assistance to firefighting: with a wealth of options to choose from, this platform becomes an indispensable tool for firefighters. Metz Aerials cooperates with a wide variety of chassis manufacturers in order to meet every customer’s requirements.

2 B36
The hydraulic platform was designed especially for industrial firefighting units and for fighting large-scale fires. Figures that speak for themselves: 5,600 l/min output on the monitor, 630 kg cage load capacity. A working height of 36 m and a range of 28.5 m at full cage capacity. The B36 may be optionally equipped with a Rosenbauer R600 pump, foam proportioning systems and tanks for extinguishing agent with a capacity of up to 5,000 l. It is controlled using the B32 system—incorporating all of the outstanding features offered by the product.

3 B36N
High performance for the North American market or any area where the US firefighting standard NFPA 1901 is applied. The CAN bus control system, used in hydraulic platforms for Europe, in combination with the performance requirements specified in the NFPA standard, makes the B36N unique. As a base chassis, Metz employs a Spartan Gladiator including a crew cabin, with a technical gross weight of 39 t.

4 B42
Compact size and above-average rescue height range. Metz Aerials has designed the B42 for the needs of both industrial firefighting units and municipal fire departments that require more than just the standard height. Pumps, foam proportioning systems and tanks for extinguishing agent are included in the portfolio of options to choose from. With weight options from 26 t through 40 t permissible gross weight, a complete range of chassis is offered.

5 B56
Aerial rescue at its highest: with the B56, Metz Aerials provides firefighters the world over with a working aid and rescue device complying with EN 1777 that facilitates rescue operations at above-average heights. With the addition of various firefighting components, such as pumps, rescue chute and a stretcher support, the B56 becomes a genuine fire fighting device. Metz hydraulic platforms feature a high-quality cage design that has clearly proven itself for this height class as well.
Unique aerial rescue.

Metz hydraulic platforms—special features.

The design: superior quality in operations.

Metz Aerials designs all platform components so that the operator can work with the equipment easily and efficiently, even under extreme conditions, such as during night shifts. The hydraulic rescue platforms consist of a telescopic boom and a cage boom including a working cage. The elements are manufactured from fine grain steel. The cross-sections are optimized to achieve a high degree of torsional rigidity at a very low weight. The special torsion box construction is easily adaptable to any available chassis. Metz hydraulic platforms are thus able to be combined with all suitable chassis. Options range from 16 t to 41 t permissible gross weight and from 32 m to 56 m working height.

The Metz rescue cage: the focus of firefighters’ work.

The rescue cage is a heavy-duty aluminum construction that is manufactured to optimally meet size and weight requirements. It provides space for as many as six people. It can also transport rescue and firefighting equipment, depending on the type of operation. The railing on the unique, wide front entry is folded down and doors can be opened. This is possible regardless of whether the fold-down platform is in the working or parked position.

The cage offers three entry points which can be accessed in an upright position. The fold-down platform at the rear provides easy access to the rescue ladder mounted on the side—regardless of the cage position.

Integrated ultrasonic sensors warn the operator before coming into contact with an object. The cage can be rotated horizontally by 47° to the left or right, regardless of whether a rescue ladder is mounted or not. This makes it possible to position the cage even more precisely and individually in relation to the object. The cage control panel is also clearly structured: displays and controls are positioned suitably and are highly visible.

The Metz cage, with a total payload of up to 630 kg, provides the utmost in stability and safety during rescue operations.
The main control panel: ergonomic design for working fatigue-free.

The display and control elements on the main control panel and in the cage are optimally structured and arranged in a clearly visible layout, ensuring ease of operation and short set-up times for the Metz hydraulic platforms.

The information on the displays is set out in a structured and concise way. Display information is distributed between main menus and submenus so that the operator is not overloaded with information. The main menu displays the most important information, such as potential outreach and additional payload. Symbols that are easy to memorize help the operator to quickly access any further information required.

Firefighting equipment: for fighting fires at extreme heights.

The monitor, permanently mounted outside of the cage, is supplied by the telescopic water pipe. A capacity of up to 5,600 l/min has been achieved in field tests, depending on the type of hydraulic platform. Both manually operated and remote control models can be mounted on the cage.

The list of options additionally includes Rosenbauer pumps, with a capacity of between 3,000 and 6,000 l/min, as well as a variety of foam proportioning systems and tanks for extinguishing agent with suitable capacities.

Rescue devices: high quality equipment for day-to-day work.

A variety of stretcher support systems, rescue winches and descending devices—this is just a short excerpt from the extensive list of equipment options available for our hydraulic platforms. The high quality standard of rescue device solutions by Metz Aerials ensures reliable and efficient deployment in everyday work.

Stretcher supports are mounted on the railing using a 360° pivoting adapter or inserted in the cage floor. A personal lifting winch with a lifting load capacity of 150 kg can be mounted quickly and is always ready when you need it. The same goes for the permanently mounted lightweight rescue ladder.

And Metz hydraulic platforms can, of course, be additionally equipped with rescue chutes.

To meet the highest exacting requirements, Metz optionally supplies cages with vertical supply line systems for powder or nitrogen or with ultra-high pressure extinguishing and cutting systems.

The bodywork: premium quality for a long-lasting partnership.

The bodywork, joined by screws, is made of anodized extruded aluminum profiles and aluminum stud plates covered with R11 slip-resistant material and is fitted with bar locks that can be locked up securely. The equipment stowed inside is fixed in place on appropriate holders. This combination ensures safety and longevity.

The jacking system: intelligent safety.

Thanks to Metz’ steplessly variable horizontal-vertical jacking system, and to the fact that all elements remain within the overall radius of the bodywork when pivoting, Metz hydraulic platforms can be set up easily even under cramped conditions. 360° pivoting is always possible, even when jacked up within the vehicle’s limits.

Our superior technical solution involving individual, variable control and monitoring of each outrigger (depending on the type) means that each additional millimeter results in greater outreach.

Metz Aerials’ unique ground pressure monitoring system consistently ensures safe operation in any position. In addition, the integrated monitors consistently display the current ground pressure. Automatic leveling is integrated in the jacking control system. The jacking system compensates for a slope of up to 11°, depending on the chassis.

An intelligent solution—unique motion and pivoting response when jacking up.
The hydraulic system: high performance with tremendous reliability.

All Metz hydraulic platforms have one thing in common: they are engineered specifically for the exacting needs of firefighters. While other manufacturers merely adapt industrial systems, Metz Aerials draws on years of experience in designing systems from the ground up. Expertise that has proven itself in thousands of aerial ladders manufactured in the course of over 150 years.

The boom: state of the art engineering proven in practice.

High quality materials and perfect design. Together, these two features make the boom one of the outstanding components of the Metz hydraulic platform. Because this is where rescue success is decided. The most advanced engineering methods provide Metz hydraulic platforms with unique features that make them stand out and render them highly effective in operations. The drive and guide system components, aligned with practical needs and requiring little maintenance, leave fire department mechanics with more time for other jobs. This also results in reduced equipment downtime.

The crane feature: useful in many situations.

The telescopic booms of Metz hydraulic platforms are equipped with lifting eyes. With the aid of a special crane program and depending on the specific type, loads of up to 4,000 kg at the base unit can be hoisted and lowered. From a second lifting eye on the uppermost telescope segment, loads of up to 2,000 kg can be hoisted and lowered at an outreach of up to 18 m, depending on the type. These ratings are unique and make the Metz hydraulic platform a useful aid to firefighters in many situations.