

MULAG

Innovative Technologies for Ground Support Equipment



Pushback Tractor

Comet 12



MULAG Pushback Tractor Comet 12

High Availability
Powerful Resources
Precise Working

Easy and effective handling is our plus

The Comet 12 is the universal solution for ground support at airports and industrial applications – with plenty of power! Interesting equipment details like the hydraulically suspended seat adjustable to the weight of the driver/co-driver and also adjustable lengthwise and in height, show our claim for ergonomical vehicles as well as the clearly arranged operating controls in the driver's field of vision and a panoramic view out of the driver's cab.



The design of our airport vehicles was based on an independent chassis especially developed for that purpose: Thus we achieve optimal load balance and outstanding dynamical characteristics, as well as quick and easy access to all important service points and components.

MULAG-Quality makes an impact

Fully developed technology and more than 45 years of experience with the production of airport vehicles combined with the latest technical know-how are complemented by the highest manufacturing quality, certified by DIN EN ISO 9001:2008. Thus we can guarantee high cost effectiveness with the use of our products:

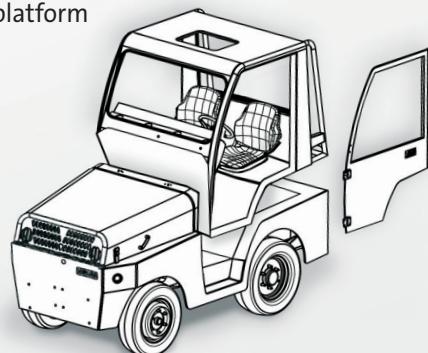
- high availability and reliability
- low cost of maintenance

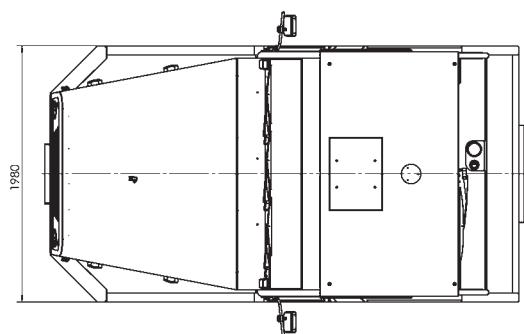
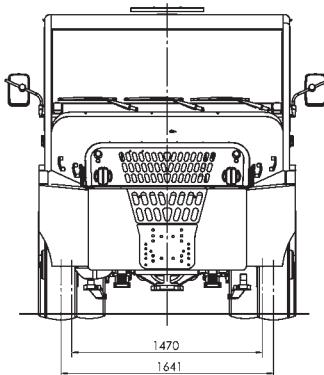
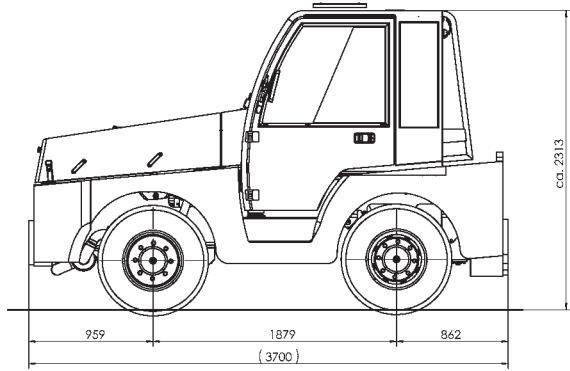
Your MULAG towing tractor options

Our towing tractors are available in several different basic versions – thus you can always choose your optimal vehicle configuration:

- Closed cab, separately mounted on vibration isolated elements which guarantee the minimization of vibration and noise inside the cab
- Open cab with windscreens and roof
- Open driver's platform without cab

Configure your
MULAG tractor
to your needs!





Comet 12

Technical Data and Dimensions

Engine and Powertrain

Engine	watercooled Deutz-Diesel 4 cylinders /TCD 2012 L04 C* 103 kW / 140 HP at 2300 rpm
Drive	hydrostatic permanent four-wheel drive
Drawbar pull	60 kN
Pushback operation	up to 150t MTOW (based on IATA)
Steering	Hydraulic steering system
Brakes	Drum brakes front and rear, hydraulic spring loaded parking brake
Front axle	steering axle fixed in leaf springs with shock absorbers
Rear axle	differential axle fixed in leaf springs with shock absorbers
Electrical system	24 V, battery 2 x 88 Ah*
Tank capacity	135 l Diesel
Driving speed	up to 25 km/h

Dimensions and Weights

Dead weight	12.200 kg
Length	3.700 mm
Width	1.980 mm
Height (top of cab)	2.300 mm
Wheel base	1.880 mm
Track width	1.470 mm
Ground clearance	180 mm
Turning circle	4.300 mm
Wheels/tires	9.5 R 17.5 XZT, 6-fold

* other technical equipment on demand

Serial Equipment

- Robust industrial engine
- Hydrostatic, permanent four-wheel drive – extremely precise control at all accelerations
- Hydraulic steering system
- Dual circuit power-brake with brake booster
- Hydraulically ventilated parking brake acting on rear drum brake
- 5-fold trailer coupling at the rear (others upon request)
- 2 outside rear view mirrors
- hydraulically suspended driver's/co-driver's seat individually adjustable
- Safety belt
- Adjustable steering wheel
- Roof light*
- Wiper-washing system (front and rear)**
- Sun shield for driver*
- Fuel gauge
- Working hour meter
- Emergency switch-offs

* with closed cab

** only front with open cab

We provide many interesting equipment details – and quite often as serial equipment.



Comet 12

Comet 12 – powerful times for Ground Support at airports

The powerful and yet simple design of the Comet 12 results in an extremely economical and efficient towing tractor: All Ground Support tasks on airports are accomplished powerfully and fast – even pushback of aircrafts with up to 150t MTOW (based on IATA)!

The high quality of workmanship reduces long down times and service cycles to a minimum – efficiency and economy on duty at airports!



At MULAG service comes first

Even the best vehicle design is of no avail without a strong and efficient after-sales service during the whole lifecycle of a vehicle. This is where MULAG comes into play, with a reliable and quick supply of information and spare parts for our customers – you can count on us!

High-Tech is our crucial advantage!

The use of high-grade industrial components instead of standard components is crucial for the reduction of down times and need for service of our vehicles to a minimum! Overdimensioned power and loading capacities result in high reliability and safety – well known to our customers worldwide as MULAG Quality.

Our achievements in Ground Support are convincing!



A convincing power solution – the Comet 12



Easy maintenance access to the powerful Comet 12 engine



Ideally suited for industrial applications as well

MULAG

**MULAG Fahrzeugwerk
Heinz Wössner GmbH u. Co. KG**

Gewerbestraße 8
77728 Oppenau
Germany

Phone +49-(0)7804-913-0
Fax +49-(0)7804-913-159
E-Mail info@mulag.com
Web www.mulag.com

You Tube Visit us on
Youtube and Facebook

