



MSU 200/400 Air Start Unit



Rheinmetall Landsysteme Air Start Units

The task to be performed is to start all main engine of todays and tomorrows generation for aircraft up to the most demanding B777-400 and A380.

The Rheinmetall Landsysteme Air Start Units are powered by a simple cycle bleed type gas turbine of the latest state of the art design.

The units deliver compressed air for the main engine start and for the operation of the onboard environmental control system.

Main features

The gas turbine driven MSU has proven its reliability since 1995.

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The standard design features are

- modular design
- no scheduled maintenance
- low cost of ownership

Additionally the units incorporate safety features such as

- »FADEC« controlled with integrated »BITE«
- automatic shut down
- low fuel level protection
- overspeed protection

Configuration

Our basic air start unit MSU 200 Skid is available as a standalone version, mounted on a trailer or mounted on a small motorised chassis. Two moduls form the MSU 400 V which is also available as a skid mounted version or mounted on a small vehicle chassis. The units can be operated individually.



Advantages

The MSU 200/400 family offers a wide range of advantages when compared to other available air start units.

The main advantages are

- smaller in size and lower in weight
- high enhance reliability
- multi fuel capability
- operational capability in all climate conditions and altitudes without special preparation
- approved for ECS operation

MSU 200T

The MSU 200T is easy to operate and easy to maneuver by a single person. The air start unit is capable of starting the majority of common aircrafts.





MSU 200 operator's panel



MSU 200V

The MSU 200 V is mounted on a Mercedes Benz 311 CDI*.



MSU 400V

Two moduls form the MSU 400 which is available as a standalone version or mounted on a Mercedes Benz 509 CDI*. The units can be operated in parallel or seperatly. The MSU 400 supplies sufficent air to start all existing aircrafts.



*Installation on other comparable vehicle chassis are possible according to customer's requirements.

Service

Customer satisfaction is our goal and After Sales Service is our number one priority.

This includes

- qualified training courses
- 24 hours/7 days a week service hotline
- shipment of parts guaranteed within 48 hours of notification

User states

Our MSUs are successfully used worldwide.













00 T	MSU 200V	MSU 400V	
separator wi	th scavenge system		
ority Digital E ilt In Test Eq	ngine Control (FADEC) uipment (BITE)		
in Engine Sta nental Contro atic mode se oad restrictio	art (MES) Mode ol System (ECS) Mode election (MES/ECS) ons in ECS mode		
Overspeed st gas overte rature shut d sure shut dov	shut down mperature control lown (override during MES) wn (override during MES)		
3 butto multi functi	n panel ion display		(Le
I.A.T.A. Re CE Regu SAE Reg	gulations Ilations ulations		
	مسمنا ومعمولية ومعاديهم	anna an tha tha an tail	
		2.400 mm	

6,736 mm

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