

# PREMIER PUMP & POWER CENTEX FLUID PRODUCTS

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## Introducing the MEDUSA Pumping Station

Centex Fluid Products and Premier Pump and Power, global leaders in the design, supply, and support of fluid process control elements and solutions along with the help of Universal Motor Geraete de Mexico (Unimog de Mexico) announced their latest design of portable self priming pump packages - The MEDUSA. (**M**obile **E**mergency **D**isaster Relief **U**nimog **S**eries **A**ll-Terrain Pumping Station) The MEDUSA trailer design came into existence when Centex Fluid Products and Premier Pump and Power were approached by Conagua (The National Water Commission of Mexico) and Universal Motor Geraete de Mexico distributor to design and build a pumping system to be permanently mounted on a Unimog truck specifically designed for pumping large



Mexico City, Mexico

volumes of flood water for use during disasters in Mexico City

and other surrounding areas in Mexico.

In response to Conagua and Universal Motor Geraete de Mexico's request for a more efficient solution for their pumping needs during a flood, Centex and Premier designed a high volume self priming pump with 16" suction necked down to two 12" suctions via common manifold - The MEDUSA. This all-terrain pumping station is capable of achieving flows as high as 13,000 US GPM. The discharge of the trailer is comprised of a manifold with two 8" and two 6" flanges to keep the overall weight



Flood Control Pre-MEDUSA

and manageability of the hoses within the weight limits of the few people handling them. In addition, the manifold allows the workers who handle the pump the ease and efficiency of installing the suction and discharge hoses with minimal effort and time. The pump station on the MEDUSA has a totally

self-contained vacuum priming system which will allow the pumping station to prime and re-prime on demand. The MEDUSA also uses a diesel engine to power its pump which allows the pumping station to virtually pump anywhere needed. One of the most important features of this highly engineered pumping system is that it can travel to the toughest remote locations. The MEDUSA can transverse creeks, rocks, and climb up to a 45 degree incline.

The first models of the MEDUSA were shipped to Mexico City,



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Mexico to help with their annual flood control. The city is very vulnerable to flooding due to the fact that it is located in the valley of Mexico and has a minimum



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## Introducing the MEDUSA Pumping Station Cont.

altitude of 2,200 meters above sea level and is surrounded by mountains and volcanoes that reach elevations of over 5,000 meters. The valley in which Mexico City was built has no natural drainage outlet for the waters that flow from the mountainsides. In addition, the city rests on what was once Lake Texcoco which was drained in the 17th century and while none of its waters remain the city resides on the remaining lake bed which consists of saturated clay. Since the city was built on such soft clay it started to sink. Some areas of the city have sunk as much as 9 meters. The sinking in these areas of the city has caused problems with runoff and wastewater management, which inherently leads to flooding problems during the rainy season. On average Mexico City floods 6-8 times per year.

Conagua, who is the Mexican equivalent of FEMA here in the USA, is responsible for pumping flood water to the nearest river during these disasters. During a flood, Conagua would drive directly into the flood in a Unimog truck carrying many workers and pumps. Once in the middle of the flood, the workers on the

truck would separate the city into many manageable sections by sandbagging barriers throughout. Then the workers would pump from one section to the next until they reached the river and would finally pump the flood waters into the river. The pump would be carried by the Unimog truck to the site and pump directly from the truck to the adjacent section of the river. This method of flood management was very time consuming and costly. The MEDUSA on the other hand is in itself its own pumping station capable of pumping 4-6 times more water than the pre-MEDUSA flood control method of pumping flood waters. The MEDUSA is the solution to Mexico's need for a more efficient, cost effective approach to flood control.

## THE MEDUSA



## FOR MORE INFORMATION

For more information on the MEDUSA or any of our other products visit:

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