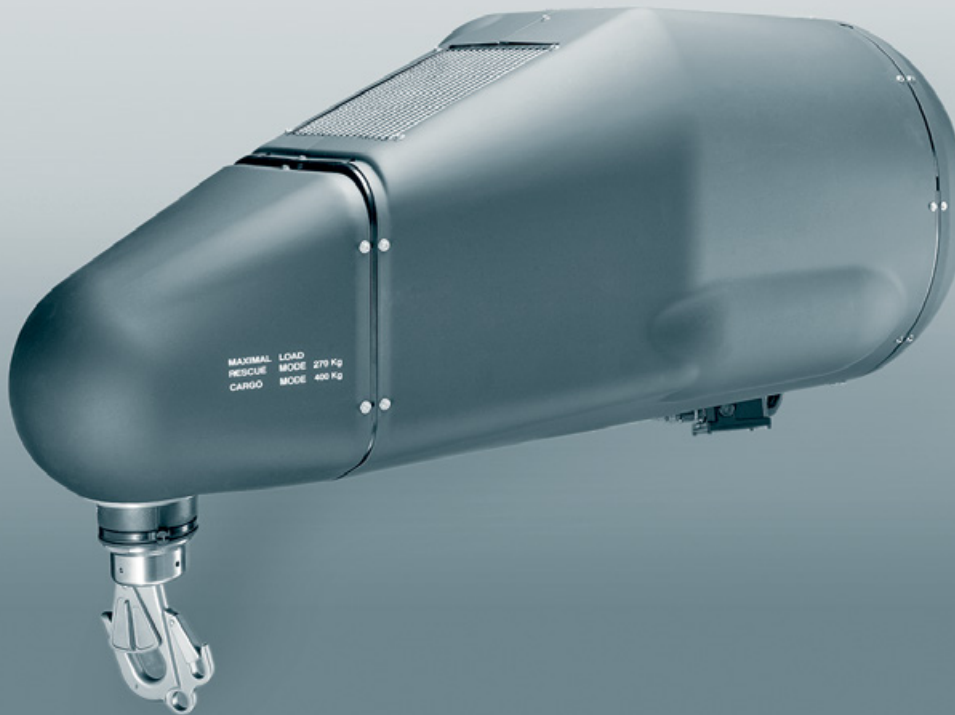




# VINCORION



OUTSTANDING EXPERTISE. **LONG-TERM.**

## SAVING LIVES WITH STATE-OF-THE-ART RELIABILITY.

**The NH90 hydraulic rescue hoist turns dire situations into lifesaving events.**

The most obvious advantage of a helicopter is, of course, its ability to fly in to hard-to-reach areas no other vehicle could ever get to, such as mountainous regions or out at sea. And a helicopter with a rescue hoist is a genuine life-saver in countless situations – be it a war zone or natural catastrophe. In a rescue, not just seconds count, but it comes down to fractions of a second that can determine

the outcome of a critical situation. That's where the total reliability and superior engineering of VINCORION's NH90 Rescue Hoist System (RHS) comes in. The NH90 RHS was exclusively selected for use on board the NATO NH90 – a medium sized, twin-engine, multi-role military helicopter. The engineers at VINCORION have been designing and producing safe and reliable rescue hoists for civil and military use in helicopters for over 40 years. The NH90 RHS is currently the best hydraulic rescue hoist for a helicopter available.

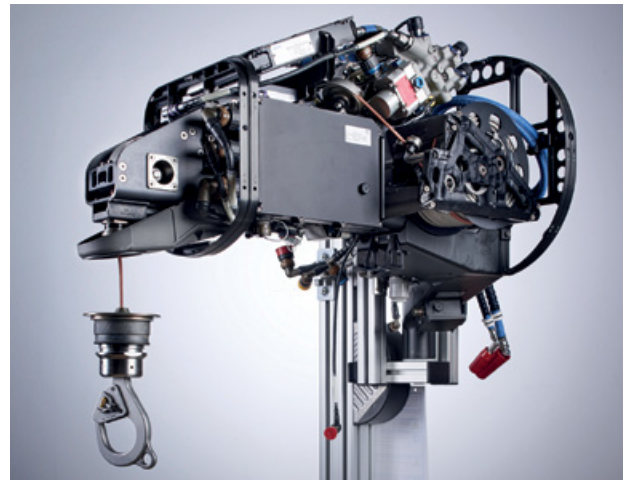
# AN INDISPENSIBLE GAME-CHANGER. MASTERLY ENGINEERED.

## A WORKHORSE DESIGNED TO FACE HOURS OF GRUELING WORK WITHOUT BATTING AN EYE.

Our NH90 RHS is a hydraulically driven rescue hoist system used primarily for Search and Rescue (SAR) operations and military missions, but was also designed to be used as a cargo hoist while the helicopter is on ground. The NH90 RHS has consistently evolved into what it is today. It has a powerful and reliable hydraulic drive combined with state-of-the-art electronics, ensuring continuous reliable operation while providing a clear overview of all necessary information to the user while operating it. The NH90 Rescue Hoist System is used exclusively on the NH90 helicopter and is engineered and certified for the operation of three different types of hooks. VINCORION draws on more than four decades of experience in the design and production of the highest-quality rescue hoists for civil and military use. VINCORION's rescue hoists remain in service on a variety of platforms and have proven their reliability with excellent performance, supporting rescue activities of the German Air Force for more than 40 years.

## THE BENEFITS SPEAK FOR THEMSELVES.

- **Complete control:** Thanks to continuous precision monitoring of loads and lifting speeds at the entry roller, total operation control is achieved.
- **Reduced wear:** The precision of the cable-guide system with capstan technology greatly increases the operational life expectancy of the hoist cable. This, combined with low-tension cable storage ensures that the cable is wound evenly onto the cable drum – even under the most extreme mission conditions.
- **Outstanding references:** For example, in the 1970s, VINCORION designed and manufactured the first of more than 130 rescue hoists for the legendary Bell UH-1D helicopter. This was the very first hoist development followed by several models for the BO 105 and NH90 helicopters.
- **Maximum safety control:** With devices such as the redundant cable cutter mechanism, fault identification, overload clutch, temperature control, weight control and built-in-test before use, the highest level of safety is guaranteed.
- **Highest performance:** The NH90 RHS advanced cooling concept for high sequence lifts, self-monitoring of all vital functions ensure seamless performance under the most extreme conditions.



### Technical Specifications

Max. lifting load capacity	Rescue mode:	595 lb 270 kg
	Cargo mode:	880 lb 400 kg
Max. lifting speed	Rescue mode:	up to 1.25 m/s
	Cargo mode:	up to 0.40 m/s
System target weight	max.	124 lb 60 kg
	max.	60 kg
Cable length	max.	262 ft 80 m
	max.	80 m
Fleet angle	± 30 deg (conical in vertical directions)	
Swivel angle	approx. 90 deg	
Hoist performance	Hydraulic power:	6.6 kW
	Mechanical power:	3.3 kW

Other specifications and options are available on request.