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Layher Allround - Ideal Scaffolding System for Industrial Application



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Layher the name of German scaffolding company produces high-quality scaffolding systems in Germany. Layher has worldwide presence with more than 45 sales subsidiaries. The products are being used by industries like Construction. chemical plants, power plants, at shipyards and offshore. Now days for demanding and complex scaffolding applications – i.e. wherever conventional scaffolding technology falls short of optimal thus cost effective use, Layher Allround Scaffolding convincingly comes in with an unmatched range of advantages: unbeatably fast assembly, persuasive economic arguments and an extensive range of seriesproduced accessories.

More Possibilities - Layher **Products and Services**

Layher's present product characteristics and services help customers achieve long-term success and increase the profitability of their companies. The Layher Allround Scaffolding has been established as a synonym for modular scaffolds on the market. The Allround

Scaffolding offers unsurpassed versatility to be used in construction sites, chemical industry, power plants, aircraft, shipyards, event sector, theatres and arenas.

Allround scaffolding uses a simple, unique and bolt free connection technology. Sliding the wedge head over the rosette and inserting the wedge into the opening immediately secures the component. There is still sufficient play to secure the other end of the ledger. A hammer blow to the wedge transforms the loose connection into a superbly strong structurally rigid one. The face of the wedge head is now precisely positioned against the standard. Connections in quick to assemble and spanner less scaffolding systems make a unique combination: providing structural strength immediately on assembly and subsequent ultimate force transmission while offering a choice of automatically right - angled or splayed connections with universal safety right from the start.

To transfer pulling force, every frame is secured by locking pins or bolts to each other. In this way the tower can be assembled on the ground and placed by

Application of Layher Allround Scaffold for maintenance of Column in Refinery

A distillation column is a critical piece of equipment in the refining of crude oil. It acts very much like a still, separating product into its different chemical components based on differences in volatility. Oil refineries use two main types of distillation columns.

The Multiple Structured with

different sizes operated by Refinery is currently being refurbished, and corrosion prevention experts have to treat the entire Structure time to time. Safe access to all location of main building is assured with the use of a modular scaffolding system. By using Allround Scaffold is only possibility to complete maintenance on time as per requirement.

The advantage lies in the speed with which not only the right angle can be automatically obtained with the system, but also variable angles can be achieved if required. This is done by fitting the ledgers in rosettes each with four holes at right angles, with four further larger holes (usually used for diagonal braces) being used to facilitate variable angles. This means that the erectors can also make connections at any angle as dictated by the conditions on site. The Scaffolder can easily, thanks to the eight possible connections in every connector, make adaptions quickly and optimally for almost any application.

These advantages is ensuring the optimum conditions for effectively enclosing the Circular and rectangular structure with safe and minimal time required to construct the scaffolding. Allround Scaffolding was easily adapted to follow the contour shape of the structure without difficult to access. The erectors didn't need to create complex tube structures, saw off tubes all the time, repeat measuring of connections or constantly align the upright elements. The wedge head provides an all in one simple yet stable connection, coupled with a logical assembly sequence and integral safety. Hot-dip

galvanization and certified quality assure Allround scaffolding topquality products are extremely long-lived.

Several work levels were required plus a lift going up 40 meters were required to be integrated into the scaffolding. The challenge set by this particular job was to follow as precisely as possible the doublecurved surface of the tank. This was possible due to the extensive capability of parts Layher are able

Conventional anchoring to the tank was not possible. The scaffold erectors were only able to make connections to the allround steel profile – the runner rail for the inspection ladders – at the tank's "equator" using scaffold couplers. Above and below this anchoring level, the scaffolding was secured by allround steel cables. A Layher landing-type stairway tower allowed convenient access to the scaffold at various levels.

The top lift of the scaffold at the top of the structure called for Layher's expertise. Following the increasingly safe scaffolding with proper Access at all locations, Layher's Technical Bureau designed a series of connected lattice girders to the topmost Allround standards which made them converge in tensionresistant form. The scaffolders then placed the structure on the highest point of the Building using Allround standards. Application of lattice girder considered in design to construct cantilever projection on top to fulfil proper access. Construction of Scaffolding to make approach for all required location was major challenge during the shutdown, but it is easy when will



Layher Allround Application in Column Maintenance of Column in Refinery

consider Allround Scaffolding Systems.

Lavher Aluminium Platform stairway safe for Industrial **Application**

Layher Aluminum Platform Stairway Safe, fatigue-free stairway ascent - also with transportation of materials without impairment of the working surface. it is simple to construct a 4-standard stair tower, either integrated into the scaffolding or as a free-standing access structure anchored on the building. It is helpful for transportation of materials and manpower from ground level to top of structure.

Layher new Lightweight scaffolding is result of a major, multi-year R & D project with as clearly defined objective: to make scaffolding easier, safe and above all more cost effective for customer.