Continue

If youre in the market for a5 ton EOT crane, youre likely looking for a solid, detailed, and downloadable specification guide to understand its technical parameters, design, structure, and usability. This article offers a comprehensive breakdown of the latest5 ton EOT crane specification PDF, along with critical insights on how to select the right model based on your industry requirements. For those evaluating various crane options or exploring reliable suppliers, its worth checking outeot cranes manufacturers in Indiafor high-quality, customized lifting solutions. A 5 Ton EOT (Electric Overhead Traveling) crane is a type of overhead crane used for handling medium-load materials across industries such as steel plants, warehouses, cement, manufacturing units, railways, and shipping yards. These cranes are available in single girder and double girder types, with varying technical specifications depending on usage. Based on insights from industry documents and government procurement data: Rated Capacity: 5 Ton (5000 Kg) Design Class: M5 or M7 (Medium to Heavy Duty) Type: Electric Overhead Traveling CraneStandard Range: 5m to 30m (customizable based on application) Common configurations: 12m, 18m, 20m span depending on bay widthStandard: 6 m, 9 m, 12 m Optional: Up to 30 mMain Hoist: 3.5 to 8 m/min (VFD optional for variable speeds) Trolley/Crab Travel: 10 to 20 m/min Bridge Travel: 20 to 25 m/minGirder Type: Single Girder / Double Girder Crab Type: Low headroom / Compact design / Standard trolley Control Method: Pendant, Radio Remote, or Cabin control Power Supply: 415V 10%, 3 Phase, 50HzSquirrel cage induction motors (IP55) Gearboxes: Helical, hardened & precision machined Insulation Class: F or HOverload protection Emergency stop switch Limit switches (Hoisting and Cross travel) Anti-collision device (for multiple cranes)Mild Steel / Rolled I-beam / Box Girder Shot-blasted, anti-corrosion coated Welded to IS standardsTwo coats of anti-rust primer + Two coats of enamel paint Standard: Yellow, Custom colors available You can explore official 5 Ton EOT crane PDFs from government portals and manufacturers here: Steel manufacturing and casting units Warehousing and logistics Automobile industry Paper and pulp industry Infrastructure and heavy machinery unitsThe Indian overhead crane market is projected to grow at a CAGR of5.8% from 2024 to 2028. Over20,000 unitsof EOT cranes in the 1-10 ton range are expected to be sold in India this year. 75% of medium-scale industrial projectsuse 5-ton or 10-ton EOT cranes as standard lifting solutions. Want to understand the differences between crane variants? Read this detailed guide oneot crane types Efficient material handling in confined or large spaces Cost-effective for medium-duty applications Low maintenance with durable motor and gearbox components Easy integration with automation systems and sensors Reduced manpower and time in operations Manufacturers often provide: Flameproof versions for chemical industries VFD control for variable speed operation Wireless remote or cabin-based controls Additional limit switches and anti-sway mechanismsCheck IS and FEM standards compliance Understand your load frequency and duty class Look for suppliers with on-site installation support Request detailed GA drawings and wheel load reports Ensure spare parts and AMC support is available A 5 Ton EOT Crane is a reliable lifting solution ideal for various industrial applications. From manufacturing plants to heavy-duty warehousing, this crane is engineered to deliver robust performance with minimal downtime. Whether youre exploring technical specs or comparing models, make sure you review the specification PDF documents carefully before finalizing your purchase. Q1. What is the standard span of a 5-ton EOT crane? A: Typically, 5-ton cranes come with spans ranging from 5m to 30m depending on bay size and design requirements. Q2. Can I get a 5-ton crane with remote control operation? A: Yes, most modern 5-ton EOT cranes come with pendant, wireless remote, or cabin control options. Q3. What is the lifting height for 5-ton EOT cranes? A: Standard lifting height ranges from 6m to 12m, with customization up to 30m. Q4. Are 5-ton cranes available in flameproof versions? A: Yes, flameproof cranes are available for explosive zones like chemical or gas industries. Q5. Where can I find the official 5-ton crane specification PDF? A: You can download it from BHELs site, GeM Portal, or reputed manufacturers websites listed above. Your Trusted Overhead Crane Manufacturer & SupplierThe LD type economical top running single girder overhead crane is desinged and built based on the GB3811-2008 and JB/T1306-2008 standards. The single girder overhead crane is frequently equipped with cd/md type electric hoists. They are commonly used in mechanical processing, assembly, and repair, as well as warehouses and other workplaces. It is an important tool and matereial handling equipment for modern industrial enterprises to realize mechanization and automation of the production line, reduce heavy manual work, and improve productivity. We provide single girder eot cranes with customized specifications. They have a lifting capacity of 1-20 tons, a span of 7.5 to 28.5 meters, a lifting height of 1-30 meters, and low work classes of A3, A4. We also design and manufacture nonstandard cranes or processed overhead canes to meet the lifting requirements and applications demands of user's.Capacityof overhead crane : 1-20 tonSpan length: 4-31.5mWork duty: A3, A4Raged voltage: 220V~690V, 50-60Hz, 3ph ACWork environment temperature: -25+40, relative humidity 85%Crane control mode: Floor control / Remote control / Cabin roomCrane specifications of single girder eot crane 1 tonCrane specifications of single girder eot crane 1 ton Crane CapacityT1tonCrane Spanm7.511.514.517.519.522.525.528.5Lifting heightm6 9 1218 24 30Lifting speedm/min8 or 8/0.8Hoist travelling speedm/min20Crane travelling speedm/min20Total weightkg15901960239028503060355046105660Max. Wheel loadKN8.79.91112.212.81416.719.4Rail recommendedModel24kg/mTotal motor powerkw1.7Main dimensionof eot crane(mm)Span (m)7.511.514.517.519.522.525.528.5Rail top to crane topH490530580660745Rail top to hook centerH49109559709901010Eot crane base distanceW15002000200025002500300035004000Crane widthB20002500250030003000350040004500Hook left limitationS1796Hook right limitationS212742 ton overhead crane specifications2 ton overhead crane specifications Crane CapacityT2tonCrane Spanm7.511.514.517.519.522.525.528.5Lifting heightm6 9 1218 24 30Lifting speedm/min8 or 8/0.8Hoist travelling speedm/min20Crane travelling speedm/min20Total weightkg16802140267034803760440056806850Max. Wheel loadKN13.615.216.718.819.521.224.427.4Rail recommendedModel24kg/mTotal motor powerkw3.4EOT crane main dimension (mm)Span (m)7.511.514.517.519.522.525.528.5Rail top to crane topH490580660785820875Rail top to hook centerH41080112511401160113512001250Crane base distanceW150020002500300035004000Bridge crane widthB200025003000350040004500Hook left limitationS1796Hook right limitationS212743 ton eot crane specificationEot crane capacityT3tonSpanm7.511.514.517.519.522.525.528.5Lifting heightm6 9 1218 24 30Lifting speedm/min8 or 8/0.8Hoist travelling speedm/min20 30Crane travelling speedm/min2030Total weightkg186023503120368039705170595008100Max. Wheel loadKN18.620.522.624.22528.130.135.5Rail recommendedModel24kg/mTotal motor powerkw4.9Main dimension (mm)Span(m)7.511.514.517.519.522.525.528.5Rail top to crane topH530580660725835880940Rail top to hook centerH41270129013051295133013701370Crane base distanceW150020002500300035004000Eot crane widthB200025003000350040004500Hook left limitationS1819Hook right limitationS212915 ton eot crane specification5 ton eot crane specificationCrane CapacityT5tonSpanm7.511.514.517.519.522.525.528.5Lifting heightm6 9 1218 24 30Lifting speedm/min8 or 8/0.8Hoist travelling speedm/min20 30Crane travelling speedm/min2030Total weightkg222028603430444047905550680008990Max. Wheel loadKN28.731.433.2363739.142.347.9Rail recommendedModel24kg/mTotal motor powerkw8.3Main dimension (mm)Span(m)7.511.514.517.519.522.525.528.5Rail top to crane topH5806607258358809401020Rail top to hook centerH41460146014751465150015401520Crane base distanceW150020002500300035004000EOT Crane widthB200025003000350040004500Hook left limitationS1842Hook right limitationS2131010 ton eot crane specification10 ton eot crane specificationCrane CapacityT10tonSpanm7.511.514.517.519.522.525.528.5Lifting heightm6 9 1218 24 30Lifting speedm/min8 or 8/0.8Hoist travelling speedm/min20 30Crane travelling speedm/min2030Total weightkg306039504640559060107420922014000Max. Wheel loadKN50.856.459.462.5646874.185.1Rail recommendedModel24kg/mTotal motor powerkw13.8Main dimension (mm)Span(m)7.511.514.517.519.522.525.528.5Rail top to crane topH73583589088092010651160Rail top to hook centerH41815181518401950197018651890Crane base distanceW150020002500300035004000EOT Crane widthB200025003000350040004700Hook left limitationS11293Hook right limitationS2189316ton eot crane specification16ton eot crane specificationBridge Crane CapacityT16tonSpanm7.511.514.517.519.522.525.528.5Lifting heightm6 9 1218 24 30Lifting speedm/min8 or 8/0.8Hoist travelling speedm/min20 30Crane travelling speedm/min2030Total weightkg3390442057607350794092101317015300Max. Wheel loadKN76.584.389.694.997100.9111.4117.2Rail recommendedModel24kg/mTotal motor powerkw13.8Bridge Crane Main dimension (mm)Span(m)7.511.514.517.519.522.525.528.5Rail top to crane topH8358909801065113512001300Rail top to hook centerH42445247025202495254525902600Crane base distanceW150020002500300035004000Crane widthB200025003000350042004700Hook left limitationS11293Hook right limitationS2189320 ton overhead crane specificationsCrane CapacityT20tonSpanm7.511.514.517.519.522.525.528.5Lifting heightm6 9 1218 24 30Lifting speedm/min8 or 8/0.8Hoist travelling speedm/min20 30Crane travelling speedm/min2030Total weightkg5270671085501011010850126001428014690Max. Wheel loadKN99109.1116.3121.8124.5129.9134.5135.8Rail recommendedModel24kg/mTotal motor powerkw19.3Overhead Crane main dimension (mm)Span(m)7.511.514.517.519.522.525.528.5Rail top to crane topH9009701050113012001300Rail top to hook centerH4240024302490255025902600Crane base distanceW20002000250030003500Crane widthB2700320037004200Hook left limitationS11394Hook right limitationS21933 Main Applicationof top running single girder eot craneThis single girder bridge crane is used in environments with temperatures ranging from -25C to +40C, humidity levels of 85%, and elevations under 1000 meters. The power supply is a 3-ph, 380V, 50HZ which can designed based on the needs of the user.Designed and fabricated according to JB/T 1306 Electric Single-girder Crane. The matched electric hoists can be selected from CD1 model for single speed operation , MD1 model for double speed operation. Customized lifting hoists are also available. Check more types of single girder overhead crane hoists.It is a lightweight, portable lifting device that runs on rails for hoisting materials and loads in factories, warehouses, and stockyards.Banned to use in such dangerous environment as easily combustible,explosive,etcMain structure andof single girder overhead craneOverall OrganizationDrawingof single girder overhead crane, top running designIt primarily consists of three parts: the mechanism part, which includes the crane's metal frame and moving parts, the electric hoist's lifting mechanism, and the electronic parts , and safe and protection devices, and safe operation devices.Electric single girder top running overhead travelling crane general drawingMechanism partof single girder bridge cranesSingle girder constructed from high-quality I steel and high-quality U-shaped slots.Q235B or Q345B as the material (similar as Fe37 or Fe52).End girders are welded using good steel or rectangular tubes.main girders bolted together.Crane travel uses the appropriate drive.QS trinity-drive system or the more conventional motor and reducer drive.Assembly and adjustment are quick and easy.Compact, small, and lightweight.special crane wheel is designed for the single girder crane, light and strong versatility.Stable travel, effective braking, and long lifespan. Main GirderMain girderis the main bearing part of the single girder bridge crane. its girder structure is made of U-shaped groove, inclined cover plate, rib plate and I beam steel plate, its upper arc is ((1/10004/1000)S,. When the rated lifting weight and the self-weight of the electric hoist are located in the middle of the span, the degree of camber caused is not less than the horizontal line, and no permanent deformation occurs during normal operation. End GirderEnd girder is located at both ends of the main beamof crane bridge. The end carriage or end girder is bolted to the main beam by flange plats. It has a box structure made up of a U-shaped groove, a lower cover plate, a reinforcement plate, and rib plates formed by rolling steel plates or welding steel plates. The end girder has a light structure, good rigidity, a beautiful appearance, and a good welding performance. Electric HoistEach electric hoist will perform dynamic and static load tests, as well as rise and drop pressure tests, on a single girder overhead crane. The baking paint process is used to improve the adhesion of the paint film and its appearance. The assembly line ensures the quality of the product. Girder cross section drawing Main girder and end carriage connection drawing LD type single girder overhead crane top running design Current collection installation drawing Festoon cable installation drawing Electrical EquipmentPower supply with a trolley conductor or an angle steel conductor.Crane and hoist Control separately, move separately or together.Power supply for electric hoist via flat cable or special cable4.Galvanized slide and cable trolley, smoothly moving, aesthetic appearance5.Electrical non-contact speed regulation control module.6.Operation, hoisting, the point start are very smoothly.7.Power leading employs both current collector and flexable cable methods. Safety DeviceOutdoor use top running single girder overhead cranes have a lifting mechanism, an electrical control box, and rainproofing devices.Overload warning, two levels of top dashing proof protection.Crane bufferAnti-collision, sound, and light alarms5.Self-check circuit protectorFlow phase lack protection. Operation - crane controlGround control and cabin control.The cabin has open style, close style,can fixed on left or right.Opening directions include end open, side open, and top open.Ground control has a handle and a remote control; no special driver is required.Ground control and crane driver control can be selected based on your needs.Top Running Single Girder Overhead Crane Types and Specifications LDA(General use single girder overhead crane)The main girder and end carriages are connected by bolts, making disassembly, transportation, and storage easy.Automatic welding and assembly line processing, easy installation and maintenanceReasonable structure, high rigidity, and long-term durability. LDC (low headroom single girder overhead crane)The main beam and the end carriages are fastened together by bolts, making it simple to disassemble, move, and storage.Quick installation and simple maintenance characterize automatic welding and assembly line processing.Low-headroom design enables the LDC type single girder overhead crane to lift objects to greater heights while taking up less room than the normal type. LDP (partial hanging single girder overhead crane)The main girder of partial hanging single girder eot crane is box struture, which the electric hoist is placed on one side of the beam. In this way, the single girder crane can achieve higher lifting height compares to general use single beam overhead crane and low headroom single beam overhead crane LB (explosion-proof single girder overhead crane)Compact structure, good rigidity, sensitive operation, safe and reliable, beautiful appearance, strong explosion-proof, and so on are the main components of our explosion-proof single girder overhead crane . LDY(Metallurgical electric single girder overhead crane)The LDY (Metallurgical electric single beam overhead crane) crane has an A6 working class and is suitable for working environments with temperatures of 60C, relative humidity of 85%, altitudes of less than 2000m, and no corrosive medium conditions.The crane's structure is made up of three parts: the bridge frame, the metallurgical electric hoist, and the electrical system.Outside electrical equipment such as motors and electric control systems, use heat insulation protection measures. LDZ Electric grab single girder overhead craneThe electric grab single girder overhead crane is a piece of workshop lifting equipment that is used in conjunction with grab trolleys. It is widely used in a variety of settings, including machining, assembly, repair, and warehouses.The crane's operating mechanism employs a separate driving mode, with the conical rotor motor completing the driving and braking, and the transmission employing a "one opening and two closing" gear transmission.The grab overhead crane has a compact structure, good rigidity, simple operation, low noise, safety and reliability, and a beautiful appearance. LD model single girder eot crane is the most common type of overhead cranes used for small to moderate lifting applications. It is extensively applied in workshops of manufacturing, repairing and assembly lines, warehouses and storage yards to carry out different lifting tasks. This typical single beam overhead crane cannot be used in flammable, explosive or corrosive environments.LD single girder eot crane parameters:Load capacity: 1-20tSpan: 7.5-31.5mLifting height: 6-30mLifting speed: 0.3-8m/minHoist running speed: 20m/minCrane running speed: 20m/minWork duty: A3, A4 Ask for overhead crane price Technical Parameter of LD single girder eot craneCapacityt123510162025SpanS(m)7.5~31.57.5~31.57.5~31.57.5~31.57.5~31.57.5~31.57.5~31.57.5~25.5Lifting heightm6~306~306~306~309~309~309~309~30Lifting speedm/min80.8/880.8/880.8/880.8/870.7/73.50.35/3.53.30.33/3.330.3/3Trolley speedm/min20(30)20(30)20(30)20(30)20(30)20(30)20(30)181416Crane speedm/min20(30)20(30)20(30)20(30)20(30)20(30)20(30)20(30)Work dutyA3~A4A3~A4A3~A4A3~A4A3~A4A3~A4A3~A4A3~A4Track typeP18P18 P24P24P24P24 P30P30 P38P38 P43P38 P43 HD electric single girder bridge crane represents a high-level lifting equipment that adopts unique design concept and the latest technology. This advanced overhead crane can be applied in mechanical manufacturing, metallurgy, power plant and other industries to handle large and heavy materials, especially suitable for occasions that require accurate positioning or precision assembly for large parts.The European standard single girder crane is equipped withND wire rope hoistto lift a large amount of weight, usually in a range of 1 ton to 20 ton. The bridge crane design conforms to international standards including DIN, FEM and ISO.HD European single girder bridge crane parameters:Load capacity: 1-20tSpan: 7.5-28.5mLifting height: 6-18mLifting speed: 0.8/5m/minHoist running speed: 2-20m/minCrane running speed: 3-30m/minWork duty: A5 Ask for overhead crane price Technical Parameter of HD European Type single girder eot craneCapacityt123.25SpanS(m)7.5~28.57.5~28.57.5~28.57.5~28.5Lifting heightm6~186~186~186~18Lifting speedm/min0.8/50.8/50.8/50.8/5Trolley speedm/min2~202~202~202~20Crane speedm/min3~303~303~303~30Work dutyA5A5A5A5Track typeP18 P24P18 P24P24P24Capacityt1012.51620SpanS(m)7.5~28.57.5~28.57.5~28.57.5~28.5Lifting heightm6~186~186~186~18Lifting speedm/min0.8/50.66/40.66/40.53/3.4Trolley speedm/min2~202~202~202~20Crane speedm/min3~303~303~303~30Work dutyA5A5A5A5Track typeP30P30P30 P38P30 P38 LB model explosion proof overhead crane is a kind of single girder crane specifically designed for hazardous lifting environments, usually equipped with HB explosion proof electric hoist. The motor and electrical devices of this crane are also explosion-proof type to ensure a high level of safety required for explosive atmospheres.The single girder explosion proof crane is widely applied in power plant, chemical plant, sewage treatment plant and other industries to load, unload and transfer heavy items. It can lift a large amount of weight, ranging from 1 ton to 20 ton, and the working class is A3, A4.LB explosion proof overhead crane parameters:Load capacity: 1-20tSpan: 7.5-31.5mLifting height: 6-30mLifting speed: 0.33-8m/minHoist running speed: 20m/minCrane running speed: 20m/minExplosion-proof grade: ExdBT4ExdCT4Work duty: A3, A4 Ask for overhead crane price Technical Parameter of LB Model Explosion-proof Electric Single Girder CraneCapacityt1235101620SpanS(m)7.5~31.57.5~31.57.5~31.57.5~31.57.5~31.57.5~31.5Lifting heightm6~306~306~306~309~309~30Lifting speedm/min80.8/880.8/880.8/870.7/73.50.35/3.53.30.33/3.3Trolley speedm/min20(30)20(30)20(30)20(30)20(30)20(30)1814Crane speedm/min20(30)20(30)20(30)20(30)20(30)20(30)Work dutyA3~A4A3~A4A3~A4A3~A4A3~A4A3~A4Explosion-proof GradeExdBT4ExdCT4Track typeP18P18 P24P24P24P24 P30P30 P38P30 P38 Suspension crane is a kind of small and lightweight underhung overhead crane, also known as under running crane or underhung crane. It is widely applied in workshop of production and assembly lines, warehouse and other places to lift and move heavy loads. The underhung crane, as its name implies, is suspended from building roof structure and runs at the bottom flange of runway beam.Single girder suspension crane is designed and manufactured in strict accordance with industrial standard JB2603-94, usually equipped with CD and MD electric hoists. Due to its distinct structure, the under running overhead crane usually comes insingle girder design, thus it cannot lift a considerable amount of weight. The capacity ranges from 0.5 ton to 10 ton, the span of is 3-22.5m, working classification is A3-A4.LX suspension crane parameters:Load capacity: 0.5-10tSpan: 3-22.5mLifting height: 6-30mLifting speed: 0.7-8m/minHoist running speed: 20m/minCrane running speed: 20m/minWork duty: A3, A4 Ask for overhead crane price Technical Parameter of LX Single Girder Suspension CraneCapacityt0.5123510SpanS(m)3~22.53~22.53~22.53~22.53~22.53~22.5Lifting heightm6~306~306~306~306~309~30Lifting speedm/min80.8/880.8/880.8/880.8/870.7/7Trolley speedm/min20(30)20(30)20(30)20(30)20(30)20(30)Crane speedm/min20(30)20(30)20(30)20(30)20(30)20(30)Work dutyA3~A4A3~A4A3~A4A3~A4A3~A4A3~A4 LDY model electric single girder foundry crane is specially designed for lifting and transferring molten metal in metallurgy and casting places. It can also be used for handling molten non-metallic materials and hot solid metal. The overhead crane is generally outfitted with YH typemetallurgical electric hoist, and its lifting capacity is not more than 10 tons. This crane is designed according to JB/T 1306-2008 standards.LDY single girder foundry crane parameters:Load capacity: 1-10tSpan: 7.5-31.5mLifting height: 6-20mLifting speed: 1.75-8m/minHoist running speed: 20m/minCrane running speed: 20m/minWork duty: A6 Ask for overhead crane price Technical Parameter of LDY Metallurgy Electric single girder eot craneCapacityt123510SpanS(m)7.5~31.57.5~31.57.5~31.57.5~31.57.5~31.5Lifting heightm6~206~206~206~206~20Lifting speedm/min82/882/882/882/871.75/7Trolley speedm/min20(30)20(30)20(30)20(30)20(30)Crane speedm/min20(30)20(30)20(30)20(30)20(30)Work dutyA6A6A6A6A6Track typeP18 P24P18 P24P24P24P24 P30 LDZ single girder grab crane is generally the same with LD electric single girder crane except for its grabbing mechanism. Equipped with grab hoist trolley, the crane is suitable for handling almost all kinds of loose and bulk materials, such as garbage, industrial materials and sand. The lifting capacity of overhead crane ranges from 2 ton to10 ton, and the working class is A4. This crane cannot be used in flammable, explosive or corrosive atmosphere.The crane system is usually controlled by an operator from the ground or by a driver sitting in the cabin to realize a safe and easy lifting operation. This bridge crane features high working efficiency, wide application, sturdy construction and reliable performance, making it perfect for lifting in mining, garbage disposal plant, steel plant and power plant.LDZ single girder grab crane parameters:Load capacity: 2-10tSpan: 4.5-28.5mLifting height: 6-16mLifting speed: 14-16m/minHoist running speed: 20m/minCrane running speed: 20m/minWork duty: A3, A4 Ask for overhead crane price Technical Parameter of LDZ Electric Grab Crane Single GirderCapacityt23510SpanS(m)4.5-28.54.5-28.54.5-28.54.5-28.5Lifting heightm6~166~166~166~13Lifting speedm/min16161614Trolley speedm/min20(30)20(30)20(30)20(30)Crane speedm/min20(30)20(30)20(30)20(30)Grab volumem0.50.50.751Work dutyA3~A4A3~A4A3~A4A3~A4Track typeP18 P24P24P24P24 P30 Share copy and redistribute the material in any medium or format for any purpose, even commercially. Adapt remix, transform, and build upon the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution You must give appropriate credit , provide a link to the license, and indicate if changes were made . You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation . No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. Europe style Single girder 5 Ton EOT Crane Specification5 Ton EOT Crane is of advanced technology, whose design is based on international standard: FEM (Europe), DIN (Germany), ISO(International), equipped with many advantages such as: strong rigidity, light dead weight, low power, outstanding structure design etc.The configurations are very advanced, such as Schneider electricalappliances, ABM/Nord / SEW triple gear motor (three in one: motor, gear box, brake), galvanized high strength wire rope, self-adjusted disk brake, hard tooth reducer, programmable lifting limit switch, and so on.5 Ton EOT Crane Specification5 TonEOT CraneSpecification Unique features: 1) high reliability, safety, free maintenance rate;a) work duty: FEM2M, M5b) Protection class: IP55c) Insulation class: Fd) continuing rate: 60% (for the high class motor)e) Cooling rate: 30% than normal cranef) Over temperature protection: 1702) compact design, small size, low dead weight, low headroom3) Low noise4) Investment-savedthe workshops civil work cost, due to cranes light dead weight and low wheel pressure.5) Power-saved. The total motor power is much lower than normal design.5 TonEOT CraneSpecification Euro-style Main Girder:Main girder uses bias-rail box type structure, with optimized design and light dead weight.2. Steel material. Q235B, or, Q345B.3. The cover and web plate should get surface rust removal by roller-way conveyor blasting machine before welding; this blasting machine can perform blanking, sandblasting, painting and drying, after that they get to Sa2 level.4. The welding work of main girder should be performed on work platform (welding assembly unit). In order to avoid distortion of main beam, we adopts U-shaped welding assembly unit to assure that vertical deflection degree between the top cover plate and joint edge of stiffened plate and web plate is no more than H/200, and also effectively reduce the partial wave of web plate. Crane Group is china famous Single girder EOT CraneManufacturer anddouble girder EOT CraneManufacturer.See more ://www.nucleonoverheadcrane.comEmail:info@nucleoncranegroup.comIf you have any questions, Please dont hesitate to contact me. Type of crane found in industrial environmentsThis article may need to be rewritten to comply with Wikipedia's quality standards. You can help. The talk page may contain suggestions. (October 2011)An overhead crane, featuring runways, bridge, and hoist in a traditional industrial environment.Overhead crane at the Skanska precast concrete factory in Hjrup, Sweden.Gantry-style overhead cranes of the Hainaut quarry in Soignies, Belgium.An overhead crane, commonly called a bridge crane, is a type of crane found in industrial environments. An overhead crane consists of two parallel rails seated on longitudinal I-beams attached to opposite steel columns by means of brackets. The traveling bridge spans the gap. A hoist, the lifting component of a crane, travels along the bridge. If the bridge is rigidly supported on two or more legs running on two fixed rails at ground level, the crane is called a gantry crane (USA, ASME B30 series) or a goliath crane (UK, BS 466). Another variant is the semi-goliath crane, where one fixed rail is at ground level, and the other fixed rail is overhead, commonly used along the exterior of an existing building.Unlike mobile or construction cranes, overhead cranes are typically used for either manufacturing or maintenance applications, where efficiency or downtime are critical factors.Single Girder Overhead CraneThe single girder type overhead crane is the most common overhead crane. It is generally used for light applications, normally up to 10 tonnes.Double Girder Overhead CraneThe double girder overhead crane structure is used for heavier applications up to 125 tons and reaching over 100 feet of span. It can also be used to gain lifting height because the hoist of the double girder overhead crane is placed on the beams and the hook fits between them.Suspended Overhead CraneThe rails of a suspended overhead crane are secured to the ceiling of the building. The elimination of dedicated support columns provides additional floor space, but limits lifting capacity.In 1876 Sampson Moore in England designed and supplied the first ever electric overhead crane, which was used to hoist guns at the Royal Arsenal in Woolwich, London.[1] Since that time Alliance Machine, now defunct, holds an AISE citation for one of the earliest cranes in the USA market. This crane was in service until approximately 1980, and is now in a museum in Birmingham, Alabama. Over the years important innovations, such as the Weston load brake (which is now rare) and the wire rope hoist (which is still popular), have come and gone. The original hoist contained components mated together in what is now called the built-up style hoist. These built up hoists are used for heavy-duty applications such as steel coil handling and for users desiring long life and better durability. They also provide for easier maintenance. Now many hoists are package hoists, built as one unit in a single housing, generally designed for ten-year life, but the life calculation is based on an industry standard when calculating actual life. See the Hoists Manufacturers Institute site[2] for true life calculation, which is based on load and hours used. In today's modern world for the North American market, there are a few governing bodies for the industry. The Overhead Alliance is a group that represents Crane Manufacturers Association of America, Hoist Manufacturers Institute, and Monorail Manufacturers Association. These product counsels of the Material Handling Industry of America have joined forces to create promotional materials to raise the awareness of the benefits of overhead lifting. The members of this group are marketing representatives of the member companies.1830: First Crane company in Germany, Ludwig Stuckenholz company.[3]1840: Mass production of overhead cranes starts in Germany.1854: Sampson Moore & Co in Liverpool, England patents a new winch mechanism that allowed the lifting of heavier weights (such as naval guns) by an electric motor.[4]1861: The first steam powered overhead crane is installed by John Ramsbottom at the Crewe Railway workshops. Power was transmitted to the crane from a pulley driven by a stationary engine through an endless cotton rope.[3]1887: The Ludwig Stuckenholz company introduces electrical components to overhead cranes, determining industry design.1910: The first mass-produced electric motor hoist starts in Germany.Configurations:While sharing major components, overhead cranes are manufactured in a number of configurations based on applications.Main article: Electric overhead traveling craneEOT cranes are a common type of overhead crane. They are found in many factories and warehouses. These cranes are electrically operated by a control pendant, radio/IR remote pendant, or from an operator cabin attached to the crane.A woman operating a 20-ton[which?] EOT crane, 1914An EOT overhead crane is used to move and build this submersible, the Ictineu 3, in a warehouse of Sant Feliu de Llobregat, Spain.A VFD crane currently performing a load testAn overhead crane using a lifting beam for a customized applicationThis type of overhead crane has one end of the bridge mounted on a fixed pivot and the other end carried on an annular track; the bridge traverses the circular area beneath. This offers improvement over a jib crane by making possible a longer reach and eliminating lateral strains on the building walls.[5]This type of overhead crane has both ends of the bridge mounted on an annular track. The bridge runs to entire diameter of the track, as opposed to just the radius for a rotary crane. Polar cranes are commonly used in containment buildings at nuclear power stations, fitting their circular, steam pressure containing design.[6]Overhead cranes are commonly used in the refinement of steel and other metals, such as copper and aluminium. At every step of the manufacturing process, until it leaves a factory as a finished product, metal is handled by an overhead crane. Raw materials are poured into a furnace by crane, hot metal is then rolled to specific thickness and tempered or annealed, and then stored by an overhead crane for cooling, the finished coils are lifted and loaded onto trucks and trains by overhead crane, and the fabricator or stamper uses an overhead crane to handle the steel in his factory. The automobile industry uses overhead cranes to handle raw materials. Smaller workstation cranes, such as jib or gantry cranes, handle lighter loads in a work area, such as CNC mill or saw.Almost all paper mills use bridge cranes for regular maintenance, needing removal of heavy press rolls and other equipment. The bridge cranes are used in the initial construction of paper machines because they make it easier to install the heavy cast iron paper drying drums and other massive equipment, some weighing as much as 70 tons[which?].Longest overhead crane to build the longest wind turbines at LM Windpower.A remarkable engineering effort was made by Protech in the province of Quebec, Canada, to build these giant overhead cranes. Recently, overhead cranes have been used in the wind-power industry. Giant cranes such as this one are being used to build the world's longest wind turbines.Example of an overhead crane being used to lift heavy rollsIn many instances, the cost of a bridge crane can be largely offset with savings from not renting mobile cranes in the construction of a facility that uses a lot of heavy processing equipment.Examples of overhead cranesExample of steam powered overhead crane from 1875, produced by Stuckenholz AG, Wetter, Germany. Design developed by Rudolf Bredt from an original installation at Crewe railway works[3]Rotary overhead crane installed in a foundry, c.1880[7]Steam-powered overhead crane from c.1890. Three separate, two-cylinder engines provided transverse, longitudinal, and hoisting motion; a feature of the design was the ability to raise or lower the load while in transit.[8]One of two overhead cranes hoisting a space shuttle payload in the Space Station Processing FacilityContainer craneCrane (railroad)Gantry craneEOT crane^ "Overhead power travelling crane for the Gun Factory of the Royal Arsenal" The Engineer, 22 September 1876, p219.^ "MHI Vision and Mission". MHI. Retrieved 27 April 2014.^ a b c Kurrer, Karl-Eugen (2008). The history of the theory of structures: from arch analysis to computational mechanics. Berlin: Ernst & Sohn. pp.411415. ISBN978-3-433-01838-5.^ The London Gazette, 1 Feb 1867 (original patent filed on 25 Jan 1854)^ Towne, Henry (1883). A treatise on cranes. Stamford, CT: Yale and Towne. p.129. OCLC938144. Rotary Bridge Crane...provided with a circular overhead track carrying the outer end of the jib, or rotary bridge. It...avoids the severe lateral strains upon the building and thus dispenses with heavy walls.^ "Despite no new plants, Minn. Company still part of the nuclear process". 15 April 2011.^ Towne (1883: 124)^ "Improved overhead steam traveling crane". Scientific American. XXXI (794). New York. 21 March 1891.ASME B30.2: "Overhead and Gantry Cranes (Top Running Bridge, Single or Multiple Girder, Top Running Trolley Hoist)"ASME B30.17: "Overhead and Gantry Cranes (Top Running Bridge, Single Girder, Underhung Hoist)"ASME B30.11: "Monorails and Underhung Cranes"BS 466: "Specification for Power driven overhead travelling cranes, semi-goliath and goliath cranes for general use" (1984)ISO 4301-5: "Cranes; classification; part 5: overhead travelling and portal bridge cranes" (1991)ISO 8686-5: "Cranes; design principles for loads and load combinations; part 5: overhead travelling and portal bridge cranes" (1992)Indian Standard 807Indian Standard 3177Indian Standard -4137FEM 1.001: "Rules for the Design of Hoisting Appliances"Wikimedia Commons has media related to Overhead cranes.OSHA Regs for overhead cranesRetrieved from " can financial brands set themselves apart through visual storytelling? Our experts explainhow.Learn MoreThe Motorsport Images Collections captures events from 1895 to todays most recentcoverage.Discover The CollectionCurated, compelling, and worth your time. Explore our latest gallery of EditorsPicks.Browse Editors' FavoritesHow can financial brands set themselves apart through visual storytelling? Our experts explainhow.Learn MoreThe Motorsport Images Collections captures events from 1895 to todays most recentcoverage.Discover The CollectionCurated, compelling, and worth your time. Explore our latest gallery of EditorsPicks.Browse Editors' FavoritesHow can financial brands set themselves apart through visual storytelling? Our experts explainhow.Learn MoreThe Motorsport Images Collections captures events from 1895 to todays most recentcoverage.Discover The CollectionCurated, compelling, and worth your time. Explore our latest gallery of EditorsPicks.Browse Editors' FavoritesWhat is an EOT Crane? Specifically, an Electric Overhead Travelling (EOT) crane is a type of electric overhead crane designed for moving heavy loads in factories, warehouses, and workshops. If youre looking for EOT crane for sale, we offer a comprehensive product range with capacities from 5 tons to 500 tons and even more, customizable to meet your specific business needs.Applications of EOT CranesEOT crane uses in manufacturing facilities include lifting raw materials, transporting semi-finished goods, and assembling products. Double beam EOT crane in machinery manufacturing industry is commonly used for handling heavy equipment and components, while single beam EOT cranes are ideal for lighter tasks in assembly lines.Case: 5 Ton & 20 Ton EOT Cranes for Manufacturing Plant in the PhilippinesLoad Capacity: 5 Ton & 20 TonSpan: 20mLifting Height: 12mDuty Duty: A5Application: Lifting heavy materials and components in the plantIn steel mills and metal processing plants, industrial EOT cranes are crucial for handling heavy steel coils, sheets, and billets. Specialized models like the magnetic or grab bucket cranes are widely used in this application of EOT cranes.Case: 16 Ton & 25 Ton EOT Cranes for Metal Processing Plant in NigeriaLifting Capacity: 16 Ton and 25 TonSpan: 17.5mLifting Height: 8mWork Duty: A5Application: Lifting steel coils in the plantElectric Overhead Traveling (EOT) cranes are used for lifting and transporting raw materials like wood pulp and large rolls of paper within the paper production facilities. They are also essential during the maintenance of production equipment. Additionally, overhead EOT cranes facilitate the storage and retrieval of finished paper rolls, ensuring efficient inventory management.Case: 20 Ton EOT Crane for Paper Production Facility in UzbekistanLoad Capacity: 20 TonSpan: 16.5mLifting Height: 9mDuty Duty: A5Application: Lifting large rolls of paper, corrugated cardboard, and other heavy materials within the production linesWarehouses rely on electric overhead travelling cranes for efficient material storage and retrieval. These cranes simplify the movement of goods between different sections of a warehouse, reducing manual labor.Case: 10 Ton EOT Crane for Steel Product Warehouse in UzbekistanLoad Capacity: 10 TonSpan: 22.5mLifting Height: 8mDuty Duty: A3Application: Lifting steel coils and other materialsIn foundries and metallurgical industries, overhead travelling cranes handle molten metal and other high-temperature materials. Models like the AQ-YZ double girder ladle crane are specifically designed for this industrial EOT crane application.Case: Four Girder EOT Crane for Ladle Handling in Steel MillType: Four girder designLifting Capacity: 160/50/50 TonApplication: Handling ladles that carry molten metalIn mining operations, electric overhead travelling cranes handle large loads, such as mining equipment, ores, and other materials.Case: 32 Ton EOT Crane for Mining Maintenance Services in ChileLifting Capacity: 32 TonSpan: 14mLifting Height: 10mWork Duty: A5Application: Lifting mining crushing equipment for maintenance and repairDifferent Types of EOT Cranes for SaleAt Aicrane, the most common eot crane types include single girder and double girder design. Discover their features and explore the various models below to help you choose the ideal overhead travelling crane for your specific lifting requirements.The double girder overhead traveling crane has two parallel girders, with the hoist or trolley traveling on top of the girders. These double girder overhead cranes are designed for heavy-duty applications, offering high lifting capacities and great stability. Here are some of our popular models of double girder overhead travelling cranes for sale:Ideal for heavy-duty applications in workshops and warehouses.Suitable for a wide range of general lifting tasks with high reliability.Features advanced technology, compact structure, and lightweight design.Provides superior performance with high efficiency and low maintenance.Combines a double girder design with an electric hoist for medium-duty applications.Commonly used in manufacturing plants and assembly lines.Offers a low headroom design for maximum lifting height.Incorporates precise control and high operational efficiency.Specially designed for hazardous environments with explosive gases or dust.Ensures safety and reliability in petrochemical and mining industries.Equipped with an electromagnetic chuck for lifting metal materials like steel plates and billets.Widely used in steel mills and metal processing plants.Designed for handling molten metal in foundries and steel plants.Features high thermal resistance and robust construction for extreme conditions.Fitted with a grab bucket for bulk material handling, such as coal, sand, and grain.Ideal for warehouses, and material yards.Single girder EOT cranes consist of a single bridge girder supported by end trucks. The hoist is underhung and moves along the lower flange of the girder. These single girder overhead cranes are ideal for light to medium-duty applications, offering simplicity and cost-effectiveness. The following are some of our popular models of single girder overhead traveling cranes for sale:A cost-effective solution for light to medium-duty material handling.Suitable for warehouses, workshops, and general-purpose applications.Incorporates a lightweight and compact design and advanced control features.Ensures efficient performance with minimal maintenance requirements.Runs on the lower flange of the runway beams, making it ideal for limited space.Suitable for lightweight material handling in smaller facilities.Built for hazardous environments with flammable gases or dust.Commonly used in chemical plants and oil refineries.EOT Crane SpecificationsDouble Girder EOT crane SpecificationsTechnical Parameter of AQ-QD General Type Double Girder CraneCapacityt5101620325075100125160200250300350400450SpanS(m)10.5~31.510.5~31.510.5~31.510.5~31.510.5~31.510.5~31.510.5~31.513~3113~3113~3113~3113~3113~3113~31Lifting heightm6~166~166~166~166~186~166~206~206~206~226~206~206~246~246~246~24Lifting speedm/min11.58.57.97.2663.93.13.93.52.62.22.42.22.62.1Trolley speedm/min37.237.440.1403731.331.333.63340323228283127Crane speedm/min70.670.674.375.164.958.56161.862.368485042424542Work dutyA3~A7A3~A7A3~A7A3~A7A3~A7A3~A7A3~A7A3~A7A3~A7A3~A7A3~A7A3~A7A3~A7A3~A7A3~A7Track typeP38P38 P43P43P43QU70QU80QU100QU100QU100QU120QU120QU120QU120QU120QU120QU120Technical Parameter of AQ-QDX European Standard Double Girder CraneCapacityt5101620325075100160200250320SpanS(m)10.5~31.510.5~31.510.5~31.510.5~31.510.5~31.510.5~31.510.5~31.513~3113~3113~3113~3113~31Lifting heightm6~186~186~186~186~166~166~246~246~246~206~206~24Lifting speedm/min1.07~10.70.81~8.10.73~7.30.58~5.80.49~4.90.4~40.37~3.70.32~3.20.25~2.50.24~2.40.21~2.10.2~2Trolley speedm/min3.3~333.3~333.2~323.2~323.36~33.62.9~292.92~29.22.9~292.65~26.52.5~252.5~252.4~24Crane speedm/min6.8~686.8~685.4~545.4~545.6~565.4~544.8~485.26~52.64.67~46.75.2~525.2~524.15~41.5Work dutyA3~A5A3~A5A3~A5A3~A5A3~A5A3~A5A3~A5A3~A5A3~A5A3~A5A3~A5A3~A5Track typeP38P38 P43P43P43QU70QU80QU100QU120QU120QU120QU120Technical Parameter ofAQ-LH Electric Hoist Double Girder CraneCapacityt510162025324050SpanS(m)10.5~31.510.5~31.510.5~31.510.5~31.510.5~31.510.5~31.510.5~31.510.5~31.5Lifting heightm6~309~309~309~309~249~249~209~20Lifting speedm/min80.8/870.7/73.50.35/3.53.30.33/3.330.3/330.3/32.30.23/2.31.80.18/1.8Trolley speedm/min20(30)20(30)20(30)20(30)20(30)20(30)20(30)20(30)Crane speedm/min20(43)20(43)20(43)20(43)20(43)20(43)20(43)20(43)Work dutyA3~A4A3~A4A3~A4A3~A4A3~A4A3~A4A3~A4A3~A4Track typeP30P30 P38P38P38 P43P43P43P43 QU70P43 QU70Technical Parameter of AQ-NLH European Hoist Double Girder CraneCapacityt510162032506380SpanS(m)10.5~31.510.5~31.510.5~31.510.5~31.510.5~31.510.5~31.510.5~31.510.5~31.5Lifting heightm6~186~186~186~186~186~186~186~18Lifting speedm/min0.8/50.8/50.66/40.53/3.40.6/2.60.4~2.40.4~2.40.4~2.4Trolley speedm/min2~202~202~202~202~202~202~202~20Crane speedm/min3~303~303~303~303~303~303~303~30Work dutyA5A5A5A5A5A5A5A5Track typeP30P30 P38P38P38 P43P43P43 QU70QU70QU80Technical Parameter of AQ-QB Double Girder Explosion Proof CraneCapacityt5101620325075SpanS(m)10.5~31.510.5~31.510.5~31.510.5~31.510.5~31.510.5~31.510.5~31.5Lifting heightm6~166~166~166~166~186~166~20Lifting speedm/min554.24.24.131.9Trolley speedm/min19.620.520.52019.110.5Crane speedm/min22.322.319191719.415.4Work dutyA3~A4A3~A4A3~A4A3~A4A3~A4A3~A4A3~A4Explosion-proof GradeExdBT4ExdCT4Track typeP38P38 P43P43P43P43 QU70QU80QU100Technical Parameter of AQ-QC Electromagnetic CraneCapacityt51016203250SpanS(m)10.5~31.510.5~31.510.5~31.510.5~31.510.5~31.510.5~31.5Lifting heightm6~166~166~166~166~186~16Lifting speedm/min15.513.3139.79.57.8Trolley speedm/min37.237.440.1403731.3Crane speedm/min70.670.674.375.164.958.5Work dutyA5~A7A5~A7A5~A7A5~A7A5~A7A5~A7Track typeP38P38 P43P43P43QU70QU80Technical Parameter of AQ-YZ Casting CraneCapacityt5101620325074100125140160180200225240280320SpanS(m)10.5~31.510.5~31.510.5~31.513~3113~3113~3113~3113~3113~3113~3113~3113~3113~3113~3113~3113~31Lifting heightm6~166~166~166~166~166~206~206~206~226~226~246~246~246~246~24Lifting speedm/min12.51310.89.99.77.66.47.57.56.8467.28810109Trolley speedm/min39.544.944.645.943.539.337.238383837384040383636Crane speedm/min118.6114.9103.5103.58877.5777779.77377.8868687877663Work dutyA6~A8A6~A8A6~A8A6~A8A6~A8A6~A8A6~A8A6~A8A6~A8A6~A8A6~A8A6~A8A6~A8A6~A8A6~A8A6~A8Track typeP38P38 P43P43 QU70P43 QU70QU70QU80QU100QU120QU120QU120QU120QU120QU120QU120QU120QU120Technical Parameter of AQ-QZ Double Girder Grab Bucket Bridge CraneCapacityt5101620SpanS(m)10.5~31.510.5~31.510.5~31.510.5~31.5Lifting heightm6~186~186~266~26Lifting speedm/min39.339.332.730.7Trolley speedm/min44.631.731.131.1Crane speedm/min93.686.575.176.9Work dutyA5~A7A5~A7A5~A7A5~A7Track typeP43 QU70P43 QU70QU70QU70Single Girder EOT crane SpecificationsTechnical Parameter ofAQ-LD Single Girder CraneCapacityt123510162025SpanS(m)7.5~31.57.5~31.57.5~31.57.5~31.57.5~31.57.5~31.57.5~31.57.5~25.5Lifting heightm6~306~306~306~309~309~309~309~30Lifting speedm/min80.8/880.8/880.8/880.8/870.7/73.50.35/3.53.30.33/3.330.3/3Trolley speedm/min20(30)20(30)20(30)20(30)20(30)20(30)181416Crane speedm/min20(30)20(30)20(30)20(30)20(30)20(30)20(30)20(30)Work dutyA3~A4A3~A4A3~A4A3~A4A3~A4A3~A4A3~A4A3~A4Track typeP18P18 P24P24P24P24 P30P30 P38P38 P43P38 P43Technical Parameter ofAQ-HD European Standard Single Girder CraneCapacityt123.251012.51620SpanS(m)7.5~28.57.5~28.57.5~28.57.5~28.57.5~28.57.5~28.57.5~28.57.5~28.5Lifting heightm6~186~186~186~186~186~186~186~18Lifting speedm/min0.8/50.8/50.8/50.8/50.8/50.66/40.66/40.53/3.4Trolley speedm/min2~202~202~202~202~202~202~202~20Crane speedm/min3~303~303~303~303~303~303~303~30Work dutyA5A5A5A5A5A5A5A5Track typeP18 P24P18 P24P24P24P30P30P30 P38P30 P38Technical Parameter ofAQ-LX Underslung Single Girder CraneCapacityt0.5123510SpanS(m)3~22.53~22.53~22.53~22.53~22.53~22.5Lifting heightm6~306~306~306~306~309~30Lifting speedm/min80.8/880.8/880.8/880.8/870.7/7Trolley speedm/min20(30)20(30)20(30)20(30)20(30)20(30)Crane speedm/min20(30)20(30)20(30)20(30)20(30)20(30)Work dutyA3~A4A3~A4A3~A4A3~A4A3~A4A3~A4Technical Parameter ofAQ-LB Explosion Proof Single Girder CraneCapacityt1235101620SpanS(m)7.5~31.57.5~31.57.5~31.57.5~31.57.5~31.57.5~31.5Lifting heightm6~306~306~306~309~309~30Lifting speedm/min80.8/880.8/880.8/870.7/73.50.35/3.53.30.33/3.3Trolley speedm/min20(30)20(30)20(30)20(30)20(30)20(30)1814Crane speedm/min20(30)20(30)20(30)20(30)20(30)20(30)Work dutyA3~A4A3~A4A3~A4A3~A4A3~A4A3~A4Explosion-proof GradeExdBT4ExdCT4Track typeP18P18 P24P24P24P24 P30P30 P38P30 P38What Are EOT Crane Specifications?The EOT crane technical specifications define its capabilities and suitability for specific applications. Here are the key specifications to consider:The capacity of an Electric Overhead Traveling (EOT) crane is the maximum weight it can safely lift, measured in tons (e.g., 20 ton EOT crane, 30 ton EOT crane, 50 ton EOT crane, 100 ton EOT crane). When selecting a crane, its important to choose the right capacity for safety and efficiency.The span is the horizontal distance between the rails that support the cranes movement. This dimension is critical because it determines the coverage area of the overhead crane.Common span sizes of a single girder model range from 7.5m to 31.5m, and a double girder model usually has a span of 10.5m to 31.5m. Customized spans are also available based on the space.Lifting height refers to the maximum height the electrically operated overhead travelling crane can lift a load, measured from the level of the hook to the highest point the load can reach.Common Lifting Heights: 6 meters, 12 meters, 18 meters, 20 meters, or customized to meet specific operational needs.Over head travelling cranes typically have different speed settings for various operations. These speeds are specified for:Hoisting speed: The rate at which the crane lifts or lowers a load.Travel speed: The rate at which the crane moves along the runway.Trolley speed: The rate at which the trolley moves horizontally along the bridge.The duty class defines the frequency of operation and load handling capacity of the crane. It is an indicator of how much work the crane is expected to perform over a given period. The duty class ensures that the crane is robust enough for the required workload without compromising safety.Common Duty Classes:A3: Light-duty overhead cranes, for occasional use.A5: Moderate-duty cranes, for frequent use.A7: Heavy-duty cranes, for continuous use with high load frequencies.If you have specific needs, the specifications can be tailored to meet your requirements. Let us know if youd like a deeper dive into any specification!Customization of Our EOT Crane DesignAt Aicrane, we offer tailored electric overhead travelling crane solutions that are designed to meet the specific needs of our clients. Here are key aspects where you can tailor your crane: Load Capacity CustomizationFrom 5 tons to over 500 tons, we offer cranes designed for light-duty to heavy-duty applications. Span and Lifting Height CustomizationCustomize the span and lifting height based on your facilitys space and operational needs for optimal crane performance. Duty Class CustomizationChoose from light, medium, or heavy-duty options depending on how frequently and intensively the crane will be used. Control Systems CustomizationSelect between pendant control, radio remote control, or cabin control for enhanced operator convenience and safety. Safety Features CustomizationCustomize safety features like anti-sway systems, overload protection, and emergency stop systems to ensure safe operations. Environmental AdaptationsCustomize cranes for extreme temperatures, corrosive environments, or cold conditions for reliable performance in harsh settings.Whether you are looking for a double girder or single girder EOT crane design, Aicrane provides tailored solutions that improve efficiency, safety, and productivity. Contact us today to discuss your customization options and let us help you design the perfect traveling bridge crane for your operations!Guide to Choosing the Right Overhead Travelling Crane ModelWith numerous models available, selecting the right electric overhead travelling crane can significantly impact productivity, safety, and operational costs. This guide offers insights on how to choose the ideal model for your needs.Determine the maximum weight your crane will need to lift.Single Girder Models: Suitable for lighter loads, typically up to 20 tons.Double Girder Models: Ideal for heavy-duty lifting, with capacities up to 500 tons or more.Identify the type of load your crane will need to lift. For example, specific applications, such as handling bulk materials, may require specialized crane models like the AQ-LDZ or AQ-QZ grab bucket eot crane.Consider hazardous conditions like explosive atmospheres or extreme temperatures. Models like the AQ-QB explosion proof crane or AQ-YZ casting crane are designed for such environments.Assess the available space, including headroom and span requirements. Low headroom models like the AQ-NLH double girder crane are suitable for limited spaces.Choose a crane with a duty cycle that matches your operational demands. Heavy-duty overhead cranes like the AQ-QD and AQ-QDX models are designed for intensive use.In conclusion, Aicrane offers a wide range of models tailored to meet the demands of various industries and environments, ensuring the perfect solution for your lifting requirements. If youre in the market for a new overhead travelling crane, reach out to us for professional guidance were here to help you find the ideal solution for your business.Whats the Price of an EOT Crane for Sale?Whether youre looking for a single girder model or a high-capacity dg EOT crane, understanding the pricing factors and ranges can help you make an informed decision. Single girder EOT crane pricesSingle girder 5 ton to 20 ton EOT crane prices typically range from $2,700 to $12,500 and more, depending on the capacity, span, lifting height and other factors. Double girder EOT crane pricesTypical double girder 10 ton to 50 ton EOT crane prices start at around $15,000 and can go beyond $66,200, depending on the capacity, span, lifting height and more.Note: travelling cranes with special features may cost more due to additional components and customization.How to Buy an Electric Overhead Travelling Crane Within Your BudgetStart by identifying your specific needs, including lifting capacity, span, lifting height, frequency of use and more.Avoid overspending on features you dont need while ensuring the crane can handle your tasks safely and efficiently.Different electric overhead travelling cranes come with varying price points. If your operations require lifting 10 tons occasionally, a single girder crane may suffice. For continuous 50-ton lifting, invest in a double girder heavy duty model.Customization can optimize performance but increases EOT crane cost. Prioritize features that directly improve efficiency or safety in your operations.Obtain quotes from multiple EOT crane suppliers, ensuring they include: overhead crane price, including customization, installation and transportation fees, warranty and after-sales support.Compare not just the upfront cost but also the value-added services like maintenance packages or training.Promotions can help you secure high-quality electric overhead travelling cranes at reduced prices. For example, many suppliers run promotions during off-peak seasons, making it a great time to invest in a crane.Stay updated on promotions by subscribing to supplier newsletters or following them on social media.Reputable EOT crane manufacturers and suppliers can help you find the right solution within your budget.EOT crane prices vary widely based on capacity, design, and features. For an accurate EOT crane quotation tailored to your needs, contact Aicrane, where expert guidance ensures the right solution for your budget and application.Why Choose Aicrane as Your EOT Crane ManufacturerWhen it comes to selecting the right crane for your business, partnering with a reliable and experienced EOT crane company is crucial. Aicrane is one of leading EOT crane manufacturer and supplier in China, known for delivering high-quality cranes tailored to your specific needs.

Heres why choosing us ensures you get the best value for your investment. Whether you need a single girder or double girder crane, we tailor the design, capacity, lifting height, span, and other specifications to perfectly align with your operational needs. As a leading single girder and double girder EOT crane manufacturer, we prioritize quality and safety. Our electric overhead travelling cranes are built with high-quality materials and cutting-edge technology, ensuring long-lasting performance and reliability. Each crane undergoes rigorous quality checks to meet international safety standards, so you can trust that your crane will perform at its best. Aicrane offers competitive pricing without compromising on quality. Our efficient manufacturing processes, coupled with our ability to source materials cost-effectively, allow us to provide you with top-tier electric overhead travelling cranes at an affordable price, ensuring you get the best return on investment. As a reliable EOT crane supplier, Aicrane ensures on-time delivery and efficient installation services. Our efficient manufacturing and logistics systems ensure that your electric overhead traveling crane is delivered on schedule. We also offer professional installation services to ensure the crane is set up safely and correctly. We offer comprehensive after-sales services, including maintenance, repair, and spare parts support, to keep your crane running smoothly for years.Whether youre looking for a double girder or single girder EOT crane supplier, Aicrane is your trusted partner. Reach out to Aicrane today to explore how we can meet your crane needs and elevate your operations!Installation of EOT Crane: Key Steps and ConsiderationsWhether youre installing a single girder or double girder EOT crane, following the right process guarantees optimal performance and longevity. Heres an overview of the EOT crane installation process, key considerations, and tips for success.Site Preparation: Ensure the installation site is clear of obstructions and has a stable foundation. Verify that the building structure can support the cranes load.Crane Components Inspection: Inspect all crane components, such as girders, hoist, trolley, end carriages, and electrical systems, for damage or defects before overhead crane installation. Cross-check components against the provided checklist to ensure all parts are ready.Tools and Equipment: Gather necessary tools, including lifting devices, alignment tools, and electrical testing equipment. Confirm availability of installation manuals and blueprints.Step 1: Rail InstallationInstall and align the runway rails securely on the supporting structure. Use alignment tools to ensure straight and level rails for smooth crane movement.Step 2: EOT Crane AssemblyAssemble the main components, including the girders, trolley, and hoist, following the manufacturers instructions. Lift the assembled crane onto the runway using appropriate lifting equipment.Step 3: Electrical ConnectionsConnect the electrical components, including the control panel, wiring, and power supply. Ensure proper grounding to prevent electrical hazards.Step 4: Calibration and TestingTest the cranes mechanical and electrical systems to ensure smooth operation. Calibrate the hoist, trolley, and limit switches for accurate performance.Safety: Follow safety protocols and use appropriate personal protective equipment (PPE) during installation.Alignment: Misaligned rails or components can cause operational issues and damage. Ensure precision during installation.Load Testing: Perform load testing after installation to confirm the cranes capacity and functionality.Verify that all bolts and connections are tightened securely.Inspect the crane for smooth operation across the runway.Provide training for operators on proper crane usage and safety procedures.Key Components of an Overhead Travelling CraneUnderstanding EOT crane components helps in selecting, maintaining, and operating EOT cranes effectively. Bridge GirderThe EOT crane girder is the primary horizontal structure, spanning across the area it serves. It is responsible for carrying the trolley and hoist, and it comes in two main types: single girder and double girder. End BeamThe end beams are located at both ends of the bridge girder and house the wheels that allow the crane to move along the runway. They are equipped with motors to drive the crane across the length of the workspace. Hoist And TrolleyThe hoist is the lifting mechanism of an EOT crane, used to raise and lower loads. Types of hoists include: electric wire rope hoists and chain hoists. The trolley moves horizontally along the bridge and carries the hoist. It is a crucial component that ensures the precise positioning of loads. Runway SystemThe runway is a set of parallel beams that support the movement of the crane. It is mounted on the buildings columns, ensuring smooth crane travel. ControlsEOT cranes feature advanced control systems for safe and efficient operation. These include pendant control, remote control and cabin control. Safety FeaturesEOT overhead cranes are equipped with safety mechanisms to protect both the operator and the equipment, including overload protection, limit switches, emergency stop and more. Cable and Festoon SystemThis system provides power and communication signals to the cranes moving components. It includes festoon cables and cable reels. WheelsCrane wheels enable smooth movement along the runway. They are made of durable materials to withstand wear and support heavy loads.How Does An EOT Crane Work?The EOT crane operates on an overhead runway system, using electric power to perform lifting, lowering, and horizontal movement of loads. Its three main axes of movement longitudinal (along the runway), transverse (across the girder), and vertical (up and down) allow precise positioning of loads within a defined workspace. Here is the EOT crane working principle:The crane is connected to an electric power source, which drives the motors and control systems. This power is typically supplied through a conductor bar system or a cable reel.Runway Movement: The bridge moves along the longitudinal axis on the runway tracks, powered by a motorized drive system.Trolley Movement: The trolley, carrying the hoist, moves transversely along the bridge girder, providing precise horizontal positioning.The hoist, attached to the trolley, raises or lowers the load using a wire rope or chain mechanism. The hoists motor provides the lifting power, while brakes and limit switches control movement for safety.By coordinating the bridge, trolley, and hoist movements, the crane positions the load accurately at the desired location.EOT Crane vs. Gantry Crane: Key DifferencesGantry EOT cranes are designed for lifting and moving heavy loads, but they differ significantly in structure, functionality, and applications. Here are the differences between EOT and gantry cranes, helping you choose the right equipment for your needs.EOT Crane Gantry CraneEOT cranes consist of a bridge that spans across a runway fixed on the walls or columns of a building.Structural DesignGantry cranes feature a bridge supported by legs that move on wheels or tracks on the ground.Installed permanently within a facility, electric overhead travelling cranes operate on fixed runways, and have limited mobility.MobilityGantry cranes are more flexible due to their ability to move on rubber tires. The mobile gantry cranes are easier to relocate and require less permanent installation.EOT cranes are primarily used indoors such as factories, workshops, and warehouses.ApplicationsGantry cranes can operate indoors or outdoors and are self-supporting, making them ideal for open areas, such as construction sites, ports, and shipyards.Higher initial investment due to permanent installation requirements, such as runways and supporting structures. However, they offer long-term efficiency in environments with consistent lifting needs.Cost ConsiderationsGenerally more cost-effective in terms of installation, as they do not require a runway or building support. Their mobility adds versatility, which can offset higher upfront costs for specific applications. Your Trusted Single Girder Overhead Crane Manufacturer & SupplierWhat is an single girder overhead crane? Single girder overhead cranes are an very important type of overhead cranes, an ideal solution for light duty and medium duty material handling. The single girder overhead cranes are mainly consisted of one main crane girder, supported on each side by an end truck, with monorail trolley hoist suspended on the beam girder. The single girder overhead cranes are usually designed either in top running single girder overhead crane configuration or under running single girder overhead crane configuration , equipped with manual or electric monorail hoists to meet various workshop or warehouse applications with the features of simple structure, light deadweight, lower shipping cost, and good crane price, etc.Single girder overhead cranes are often the most cost-effective overhead bridge crane solution for various workshops and industrial applications.. Single girder overhead cranes use less steel material, with more compact crane structure and lighter dead weight than double girder overhead cranes, which results in a significant cost-savings in steel material purchasing , transportation, and crane installation. Also, due to the one girder design, these overhead cranes usually have less deadweight, which enable them to utilize lighter runway systems and attach to the existing support structure of the building .Oveview of Single Girder Overhead CranesSingle girder overhead cranes, also known as Single Girder EOT (Electric Overhead Traveling) cranes or Single Girder Bridge cranes, are essential lifting devices widely used in various industries. These cranes are designed with a single horizontal girder that supports the lifting mechanism and provides stability and efficiency in material handling.Components of a Single Girder Overhead CraneSingle girder overhead cranes consist of several components that work together to lift and move heavy loads. These components include:Bridge: The bridge is the main component of the crane and consists of a single girder that spans the width of the workspace. The girder is supported by two end trucks that move along rails mounted on the building structure.Hoist: The hoist is the component that lifts and lowers the load. It consists of a motor, gearbox, brake, drum, wire rope, hook, and block. The hoist is mounted on the bridge girder and moves along it.Controls: The controls are used to operate the crane and include a pendant or radio remote control.Electrification: The electrification system provides power to the crane and includes a power cable or festoon system.End trucks: The end trucks support the bridge girder and move along rails mounted on the building structure.Unlike double girder cranes, which utilize two girders for greater lifting capacity and stability, single girder cranes are typically more compact and cost-effective. This makes them an ideal choice for operations where space is limited and lighter loads are handled. Their design allows for easy installation and maintenance, making them a preferred option for many facilities.Single Girder Overhead Cranes Specifications, Customized for Your NeedsWith single girder overhead crane designs, the single girder overhead cranes are designed for light and medium duty material handling. The rated lifting capacity of single girder eot crane are from 1 ton, 2 ton, 3 ton, 5 ton, 10 ton, up to 20 ton . The single girder overhead crane specifications and parameters are mainly presented for your reference.Various single girder overhead crane designs are available. Contact us to get process single girder overhead cranedesigns and specific crane specifications and crane dimensions or to download free single girder overhead crane pdf brochure. European Style Top Running Single Girder Overhead Crane SpecificationsTop Running Crane -A top running single girder overhead crane is the most frequently used overhead bridge crane system for the top running crane configuration typically meets the needs of lifting requirements and facility space requirements for most customers.Lifting Capacity of Crane: 3.2 t to 20tSpan of Crane: 7.5m to 28.5mLifting Height of Crane:6m to 18mWorking Class of : A3, A5Crane hoist Supply: Wire rope electric hoist or chain Electric hoist, European standard FEM hoistsCustomized single girder overhead crane can be up to 35 ton. Ask for top running single girder crane price for sale European style Under Running Single Girder Overhead Crane SpecificationUnder Running Cranes -Under running cranes are the suspension overhead crane system which are usually supported and attached to the existing structure in the facility,usually the building roof structure with no requirement of columns, free up floor space efficiently, a very cost-effective crane solution. Crane bridge of under running overhead crane travels along the bottom flange of the runway beam.Lifting capacity of overhead crane: 1 ton to 10 tonSpan of single beam overhead crane: 3-15 mLifting height of overhead crane: 3-100 mWorking Class of Overhead Crane: A3 Ask for underslung single girder crane price for sale Customized Single Girder Overhead Crane Configurations with Required Specifications Tailored single girder overhead cranes are designed to meet specific operational needs, offering flexibility in load capacity, span, lifting height, and other specifications. These customized configurations ensure optimal performance, safety, and efficiency in diverse industries, whether for light-duty handling in workshops or heavy-duty applications in factories and warehouses. Click to learn more on the single girder overhead eot crane specification tables.Main Types of Single Girder Overhead CranesEuropean Style Single Girder Top Running Overhead Crane 1 Ton to 20 Ton op running cranes: Top running cranes are designed to run on rails mounted on top of the building structure. They are ideal for facilities with high ceilings and heavy loads.Single Girder Underslung Overhead Crane 0.5Ton to 10 Ton Underhung cranes run on rails mounted underneath the building structure. They are ideal for facilities with low ceilings and limited space.Nlx single girder underhung bridge crane with European style is hot for sale, with capacity of 500kg, 1 ton, 2 ton, 3 ton, 5 ton, up to 10 ton. Smart features is optional for your design.Freestanding Single Girder Top Running Overhead Crane 1 Ton to 20 Ton Freestanding single girder overhead cranes for workshop or warehouse with floor mounted crane columns for loads handling.A self-supporting crane option that offers flexibility in large open areas, it features runway supporting columns for stable operation in manufacturing settings.Single Girder Telescoping Overhead Bridge Crane 0.5 Ton to 3 Ton This crane is equipped with an extendable cantilever, providing additional reach and versatility for loading and unloading tasks in tight spaces.Click to learn more on hot sale 1 ton, 2 ton telescopic overhead crane with single girder sliding beam.Explosion Proof Single Girder Overhead Cranes 1 Ton to 20 Ton LB series of single girder crane, designed specifically for hazardous environments, these cranes incorporate explosion-proof features to ensure safe operation in areas with flammable materials or conditions.Low Headroom Single Girder Overhead Crane with Economical Electric Hoist 1 ton to 16 ton This LDP crane features a compact design that maximizes vertical space, making it ideal for facilities with height limitations. The economical electric hoist provides efficient lifting capabilities while reducing overall operational costs, making it a practical choice for light to medium load handling in various industrial applications.Metallurgical Use Electric Single Girder Crane1 Ton to 10 Ton This types of single girder crane is specialized designed steel mill cranes. The top running single girder eot crane is designed for hot ladle handling for small steel mill with capacity form 1 ton to 10 ton.Manual Single Beam Cranes 0.5 ton to 5 ton , The manual operated overhead crane is with capcacity of 500kg to 5 ton, which can be classed into SL Manual Single Beam Crane Top Running Design & SLXManual Single Girder Suspension Crane design, which is designed for power limited area and applicaiton where explosion proof light duty material handling is required.Hot Sale Capacity of Single Beam Overhead CranesSingle girder overhead cranes typically have a load capacity range from 1 ton to 25 tons, with some specialized models capable of handling up to 32 tons. Based on the capacity they can be used for handling loads as following:Light (500kg, 1 ton, 2 ton, 3 ton)Light duty cranes are designed for handling smaller loads, typically ranging from 500 kg to 3 tons. These cranes are ideal for applications that do not require heavy lifting capabilities. Beside the single girder crane, the monorail hoist cranes with straight & curved, freestanding & ceiling mounted design for your selection. They are ideal for moving loads along a fixed path.Typical Applications:Workshops and Small Factories: Commonly used for moving tools, components, and light machinery.Maintenance Tasks: Useful in repair shops where lighter equipment needs to be lifted frequently.Assembly Lines: Often employed in assembly processes where lighter parts and materials are handleAdvantages:Cost-Effective: Lower initial investment and operating costs due to reduced material and energy requirements.Ease of Use: Simple operation makes them accessible for various operators.Hot Sales Single Girder Overhead Cranes 5 ton, 10 ton, 15 ton)Medium duty cranes are suitable for handling loads ranging from 5 tons to 15 tons. These cranes balance strength and efficiency, making them versatile for many industrial applications.Typical Applications:Manufacturing Plants: Ideal for moving medium-sized components and materials in production environments.Construction Sites: Often used to lift building materials and equipment, contributing to various construction processes.Warehousing: Effective for transporting pallets and heavier goods within storage facilities.Advantages:Versatility: Suitable for a broad range of tasks and environments, allowing for multiple applications.Increased Efficiency: Designed to handle medium loads efficiently, reducing operational time.Heavy (15 ton+, up to 20 ton, Customized 25 ton, 32 ton)Heavy duty cranes are engineered for substantial lifting tasks, capable of handling loads exceeding 15 tons, and in some cases, up to 32 tons. These cranes are robust and designed for demanding environments.Typical Applications:Heavy Manufacturing: Used in industries such as automotive and aerospace for moving large components and assemblies.Shipbuilding and Repair: Essential for handling heavy machinery and equipment in marine environments.Infrastructure Projects: Commonly employed in construction projects where large materials and structures need to be lifteAdvantages:High Load Capacity: Designed to manage significant weights, ensuring reliability in heavy-duty applications.Durability: Built with strong materials to withstand harsh operating conditions, providing long service life.Advantages and Limitations of Single Girder Overhead CranesSingle girder overhead cranes offer several advantages over other types of cranes. These advantages include:Cost-effective: Single girder overhead cranes are less expensive than double girder overhead cranes.Easy to install: Single girder overhead cranes are easy to install and require less space than other types of cranes.Versatile: Single girder overhead cranes can be used in a variety of industries and applications.However, there are also some disadvantages to using single girder overhead cranes, including:Limited lifting capacity: Single girder overhead cranes have a lower lifting capacity than double girder overhead cranes.Limited span: Single girder overhead cranes have a limited span compared to double girder overhead cranes.If you are in the market for an overhead crane, you may be debating between a single girder crane and a double girder crane. Despite the fact that each style has advantages and disadvantages, you might want to consider a single girder overhead crane.How single girder crane benifit your business? Here are just a few of the benefits they provide:A lower cost.It should go without saying that single girder overhead cranes are less expensive than double girder cranes. It makes sense when you think about it. After all, by removing one of the girders, the design requires far fewer materials. Furthermore, trolleys designed for single girder cranes are much simpler than those designed for double girder cranes. Again, this can help lower the overall purchase price, making these cranes a cost-effective option.Less weight. Single girder cranes are much lighter weight because they lack the second girder and much of the support structure required for a double girder crane. This can help to reduce your building's structural support requirements.Lower installation costs.Single girder cranes are far less expensive to install due to their light weight and minimalistic design. Adding additional structural support to the building to support the weight of the crane is not always necessary. The same cannot be said for double-girder cranes, which are often extremely heavy and require additional support. With a single girder crane, you not only save money on the crane itself, but also on the cost of installation. That is why these cranes are such an excellent choice for businesses with limited resources.Industrial Applications of Processed Single Girder CranesIndustrial single girder overhead cranes are used in a variety of sectors, including manufacturing, construction, mining, transportation, and logistics. They are commonly used for lifting and moving heavy loads in industrial settings such as factories, warehouses, and assembly lines. These cranes are ideal for handling materials such as steel, concrete, and machinery components. They are also used in maintenance and repair operations, as well as in the construction of buildings and infrastructure. The specific type of single girder overhead crane used will depend on the requirements of the particular industry or sector. Load Types Handled by Single Girder Overhead Cranes Light Components: These cranes are ideal for handling lighter loads such as car parts, machinery, pallets, and crates. These types of loads are typically found in warehouses, assembly lines, and smaller manufacturing operations.Heavy Equipment: Single girder overhead cranes are also capable of handling much heavier equipment like steel beams, turbines, mining tools, power plant components, and ship parts, commonly required in more demanding industrial environments such as construction sites, power generation plants, and shipyards.Typical Crane Capacity Range1 ton to 10 tons: These cranes are typically used for light-duty tasks and are ideal for smaller components, materials in warehouses, and general operations within indoor settings such as factories, logistics centers, and automotive plants.10 tons to 20 tons: For heavier-duty tasks, single girder overhead cranes with capacities ranging from 10 tons to 20 tons are used to lift larger loads such as construction materials, turbines, and mining equipment, supporting operations in more industrial settings where robust lifting capabilities are required.Crane Design Features for Indoor Use:Environmental Control: Indoor environments allow for better control over temperature and humidity, which can lead to less wear and tear on the crane components. This environment is generally safer for operators, minimizing risks associated with external weather conditions.Space Optimization: Indoor cranes can be designed to maximize vertical lifting capabilities, allowing for efficient use of the facility's height. They can be customized to fit within the spatial constraints of the building.Enhanced Safety Features: Additional safety measures, such as collision detection systems and emergency stop buttons, can be more easily integrated into indoor setups.Crane Design Features for Outdoor Use:Weather Resistance: Outdoor cranes must be designed to withstand harsh weather conditions, requiring robust materials and protective coatings to prevent rust and damage from elements such as rain, wind, and extreme temperatures.Structural Considerations: Outdoor installations often need reinforced structures to endure environmental stresses, including wind loads and uneven ground conditions.Mobility and Versatility: Outdoor cranes are frequently mobile or mounted on wheels, allowing for operation across large, open spaces like construction sites where flexibility is key.Indoor Application :Manufacturing: Single girder cranes are essential for handling components, machinery, and materials in manufacturing facilities and assembly lines, improving production efficiency and workflow.Logistics: These cranes play a key role in lifting and moving pallets, crates, and other equipment in warehouses and distribution centers, helping streamline the storage, sorting, and transport of goods.Automotive: In automotive manufacturing, single girder cranes are used to move car parts, engine components, and tools within production plants, ensuring smooth operations in vehicle assembly and repair.Chemical: In chemical processing facilities, single girder cranes handle chemical containers, sensitive materials, and equipment in a safe and efficient manner, supporting the handling of potentially hazardous materials.Workshops : In workshops, single girder workshop cranes enhance productivity by facilitating the easy movement of tools and components.Lifting components for assembly or repair tasks.Supporting heavy tools and machinery for better accessibility.Improving workflow efficiency by allowing quick material retrieval.Workstations : These single girder worstation cranes are ideal for specific workstations where repetitive lifting tasks are common.Assisting in electronics assembly by moving lightweight parts.Facilitating the quick handling of tools and components needed for specific tasks.Providing flexibility in workspace organization, accommodating various assembly setups.Garages: Single girder garages overhead cranes are particularly useful in automotive garages for lifting and positioning vehicles and heavy equipment.Raising vehicles for inspection and repair, improving access for mechanics.Supporting heavy automotive tools and parts for efficient workflows.Streamlining maintenance tasks by allowing for organized movement of materials.Outdoor Applicaiton : Construction: Single girder overhead cranes are used extensively in the construction sector to lift and move heavy materials such as steel beams, concrete blocks, and construction machinery on job sites, assisting with the building of infrastructure and large projects.Mining: These cranes are crucial in mining operations, where they are used to transport mining tools, equipment, and materials in outdoor or semi-enclosed environments, optimizing the handling of heavy and bulk materials in harsh conditions.Power Generation: In the power generation sector, single girder overhead cranes are used for moving heavy equipment like turbines, generators, and other components in outdoor settings, supporting the maintenance and construction of power plants.Marine: Single girder cranes are frequently used in marine environments, such as ports and harbors, to handle large ship parts, cargo, and maintenance tools, facilitating shipbuilding, maintenance, and cargo handling operations.This overview highlights the diverse capabilities and applications of single girder overhead cranes across different industries, showcasing their versatility in handling a range of loads, from light to heavy, and their adaptability for both indoor and outdoor uses.Hazardous Use Applications All types of single girder explosion overhead cranes can be engineered with explosion-proof features, making them suitable for hazardous environments where flammable or explosive materials are handleFeatures:Explosion-Proof Design: These cranes incorporate materials and designs that minimize ignition risks in volatile atmospheres, ensuring safe operation.Enhanced Safety Measures: Built with additional safety controls such as overload protection systems and emergency stop features, they prioritize operator safety in hazardous settings.Specialized Applications: Ideal for industries such as oil and gas, chemical manufacturing, and pharmaceuticals, where safety standards are critical.Typical Environments:Chemical Plants: Essential for moving hazardous materials without risking combustion.Oil Refineries: Facilitate the handling of heavy equipment in environments with explosive potentials.Waste Management Facilities: Assist in safely transporting waste materials and heavy containers, ensuring compliance with safety regulations.Your Trusted Overhead Crane Manufacturer & Supplier0.5 to 32 ton Single Girder Overhead Cranes for Sale Cost-effective Single Girder Overhead Cranes for Efficient Material Handling, Light Duty Indoor & Outdoor Overhead Crane Solutions & ProjectsSingle girder overhead cranes with capacities ranging from 0.5 tons to 32 tons offer versatile and cost-effective solutions for efficient material handling. Designed for both light-duty and medium-duty operations, these cranes are suitable for a variety of indoor and outdoor applications, making them a reliable choice for industrial projects.Wide Capacity Range:Handles loads from as small as 0.5 tons to robust 32-ton operations.Ideal for light-duty lifting in workshops and warehouses as well as medium-duty tasks in factories and construction sites. standard design is 1 ton to 20 ton, for smaller span, and customized design, the capacity can be up to 32 ton.Efficient Design:Lightweight single girder construction minimizes structural load while maximizing strength.Compact design ensures space efficiency, with options for low headroom models for facilities with height limitations.Adaptability for Indoor and Outdoor Use:Corrosion-resistant components for outdoor applications.Weatherproof features ensure reliable performance in various environments.Cost-Effective Operation:Affordable purchase and maintenance costs compared to double girder cranes.Incorporates economical electric hoists for smooth and efficient lifting.Customizable Solutions:Available in various configurations, including top-running, underhung, and freestanding models.Smart features such as remote control, anti-sway technology, and automation available for enhanced productivity.These 0.5 to 32-ton single girder overhead cranes are ideal for businesses seeking reliable and budget-friendly lifting solutions, ensuring safety, efficiency, and productivity in a wide range of applications.If you have any need, please feel free to contact us to get your cusotmized single girder overhead cranes Page 2 Your Trusted Single Girder Overhead Crane Manufacturer & SupplierWhat is an single girder overhead crane? Single girder overhead cranes are an very important type of overhead cranes, an ideal solution for light duty and medium duty material handling. The single girder overhead cranes are mainly consisted of one main crane girder, supported on each side by an end truck, with monorail trolley hoist suspended on the beam girder. The single girder overhead cranes are usually designed either in top running single girder overhead crane configuration or under running single girder overhead crane configuration , equipped with manual or electric monorail hoists to meet various workshop or warehouse applications with the features of simple structure, light deadweight, lower shipping cost, and good crane price, etc.Single girder overhead cranes are often the most cost-effective overhead bridge crane solution for various workshops and industrial applications.. Single girder overhead cranes use less steel material, with more compact crane structure and lighter dead weight than double girder overhead cranes, which results in a significant cost-savings in steel material purchasing , transportation, and crane installation. Also, due to the one girder design, these overhead cranes usually have less deadweight, which enable them to utilize lighter runway systems and attach to the existing support structure of the building .Oveview of Single Girder Overhead CranesSingle girder overhead cranes, also known as Single Girder EOT (Electric Overhead Traveling) cranes or Single Girder Bridge cranes, are essential lifting devices widely used in various industries. These cranes are designed with a single horizontal girder that supports the lifting mechanism and provides stability and efficiency in material handling.Components of a Single Girder Overhead CraneSingle girder overhead cranes consist of several components that work together to lift and move heavy loads. These components include:Bridge: The bridge is the main component of the crane and consists of a single girder that spans the width of the workspace. The girder is supported by two end trucks that move along rails mounted on the building structure.Hoist: The hoist is the component that lifts and lowers the load. It consists of a motor, gearbox, brake, drum, wire rope, hook, and block. The hoist is mounted on the bridge girder and moves along it.Controls: The controls are used to operate the crane and include a pendant or radio remote control.Electrification: The electrification system provides power to the crane and includes a power cable or festoon system.End trucks: The end trucks support the bridge girder and move along rails mounted on the building structure.Unlike double girder cranes, which utilize two girders for greater lifting capacity and stability, single girder cranes are typically more compact and cost-effective. This makes them an ideal choice for operations where space is limited and lighter loads are handled. Their design allows for easy installation and maintenance, making them a preferred option for many facilities.Single Girder Overhead Cranes Specifications, Customized for Your NeedsWith single girder overhead crane designs, the single girder overhead cranes are designed for light and medium duty material handling. The rated lifting capacity of single girder eot crane are from 1 ton, 2 ton, 3 ton, 5 ton, 10 ton, up to 20 ton . The single girder overhead crane specifications and parameters are mainly presented for your reference.Various single girder overhead crane designs are available. Contact us to get process single girder overhead cranedesigns and specific crane specifications and crane dimensions or to download free single girder overhead crane pdf brochure. European Style Top Running Single Girder Overhead Crane SpecificationsTop Running Crane -A top running single girder overhead crane is the most frequently used overhead bridge crane system for the top running crane configuration typically meets the needs of lifting requirements and facility space requirements for most customers.Lifting Capacity of Crane: 3.2 t to 20tSpan of Crane: 7.5m to 28.5mLifting Height of Crane:6m to 18mWorking Class of : A3, A5Crane hoist Supply: Wire rope electric hoist or chain Electric hoist, European standard FEM hoistsCustomized single girder overhead crane can be up to 35 ton. Ask for top running single girder crane price for sale European style Under Running Single Girder Overhead Crane SpecificationUnder Running Cranes -Under running cranes are the suspension overhead crane system which are usually supported and attached to the existing structure in the facility,usually the building roof structure with no requirement of columns, free up floor space efficiently, a very cost-effective crane solution. Crane bridge of under running overhead crane travels along the bottom flange of the runway beam.Lifting capacity of overhead crane: 1 ton to 10 tonSpan of single beam overhead crane: 3-15 mLifting height of overhead crane: 3-100 mWorking Class of Overhead Crane: A3 Ask for underslung single girder crane price for sale Customized Single Girder Overhead Crane Configurations with Required Specifications Tailored single girder overhead cranes are designed to meet specific operational needs, offering flexibility in load capacity, span, lifting height, and other specifications. These customized configurations ensure optimal performance, safety, and efficiency in diverse industries, whether for light-duty handling in workshops or heavy-duty applications in factories and warehouses. Click to learn more on the single girder overhead eot crane specification tables.Main Types of Single Girder Overhead CranesEuropean Style Single Girder Top Running Overhead Crane 1 Ton to 20 Ton op running cranes: Top running cranes are designed to run on rails mounted on top of the building structure. They are ideal for facilities with high ceilings and heavy loads.Single Girder Underslung Overhead Crane 0.5Ton to 10 Ton Underhung cranes run on rails mounted underneath the building structure. They are ideal for facilities with low ceilings and limited space.Nlx single girder underhung bridge crane with European style is hot for sale, with capacity of 500kg, 1 ton, 2 ton, 3 ton, 5 ton, up to 10 ton. Smart features is optional for your design.Freestanding Single Girder Top Running Overhead Crane 1 Ton to 20 Ton Freestanding single girder overhead cranes for workshop or warehouse with floor mounted crane columns for loads handling.A self-supporting crane option that offers flexibility in large open areas, it features runway supporting columns for stable operation in manufacturing settings.Single Girder Telescoping Overhead Bridge Crane 0.5 Ton to 3 Ton This crane is equipped with an extendable cantilever, providing additional reach and versatility for loading and unloading tasks in tight spaces.Click to learn more on hot sale 1 ton, 2 ton telescopic overhead crane with single girder sliding beam.Explosion Proof Single Girder Overhead Cranes 1 Ton to 20 Ton LB series of single girder crane, designed specifically for hazardous environments, these cranes incorporate explosion-proof features to ensure safe operation in areas with flammable materials or conditions.Low Headroom Single Girder Overhead Crane with Economical Electric Hoist 1 ton to 16 ton This LDP crane features a compact design that maximizes vertical space, making it ideal for facilities with height limitations. The economical electric hoist provides efficient lifting capabilities while reducing overall operational costs, making it a practical choice for light to medium load handling in various industrial applications.Metallurgical Use Electric Single Girder Crane1 Ton to 10 Ton This types of single girder crane is specialized designed steel mill cranes. The top running single girder eot crane is designed for hot ladle handling for small steel mill with capacity form 1 ton to 10 ton.Manual Single Beam Cranes 0.5 ton to 5 ton , The manual operated overhead crane is with capcacity of 500kg to 5 ton, which can be classed into SL Manual Single Beam Crane Top Running Design & SLXManual Single Girder Suspension Crane design, which is designed for power limited area and applicaiton where explosion proof light duty material handling is required.Hot Sale Capacity of Single Beam Overhead CranesSingle girder overhead cranes typically have a load capacity range from 1 ton to 25 tons, with some specialized models capable of handling up to 32 tons. Based on the capacity they can be used for handling loads as following:Light (500kg, 1 ton, 2 ton, 3 ton)Light duty cranes are designed for handling smaller loads, typically ranging from 500 kg to 3 tons. These cranes are ideal for applications that do not require heavy lifting capabilities. Beside the single girder crane, the monorail hoist cranes with straight & curved, freestanding & ceiling mounted design for your selection. They are ideal for moving loads along a fixed path.Typical Applications:Workshops and Small Factories: Commonly used for moving tools, components, and light machinery.Maintenance Tasks: Useful in repair shops where lighter equipment needs to be lifted frequently.Assembly Lines: Often employed in assembly processes where lighter parts and materials are handleAdvantages:Cost-Effective: Lower initial investment and operating costs due to reduced material and energy requirements.Ease of Use: Simple operation makes them accessible for various operators.Hot Sales Single Girder Overhead Cranes 5 ton, 10 ton, 15 ton)Medium duty cranes are suitable for handling loads ranging from 5 tons to 15 tons. These cranes balance strength and efficiency, making them versatile for many industrial applications.Typical Applications:Manufacturing Plants: Ideal for moving medium-sized components and materials in production environments.Construction Sites: Often used to lift building materials and equipment, contributing to various construction processes.Warehousing: Effective for transporting pallets and heavier goods within storage facilities.Advantages:Versatility: Suitable for a broad range of tasks and environments, allowing for multiple applications.Increased Efficiency: Designed to handle medium loads efficiently, reducing operational time.Heavy (15 ton+, up to 20 ton, Customized 25 ton, 32 ton)Heavy duty cranes are engineered for substantial lifting tasks, capable of handling loads exceeding 15 tons, and in some cases, up to 32 tons. These cranes are robust and designed for demanding environments.Typical Applications:Heavy Manufacturing: Used in industries such as automotive and aerospace for moving large components and assemblies.Shipbuilding and Repair: Essential for handling heavy machinery and equipment in marine environments.Infrastructure Projects: Commonly employed in construction projects where large materials and structures need to be lifteAdvantages:High Load Capacity: Designed to manage significant weights, ensuring reliability in heavy-duty applications.Durability: Built with strong materials to withstand harsh operating conditions, providing long service life.Advantages and Limitations of Single Girder Overhead CranesSingle girder overhead cranes offer several advantages over other types of cranes. These advantages include:Cost-effective: Single girder overhead cranes are less expensive than double girder overhead cranes.Easy to install: Single girder overhead cranes are easy to install and require less space than other types of cranes.Versatile: Single girder overhead cranes can be used in a variety of industries and applications.However, there are also some disadvantages to using single girder overhead cranes, including:Limited lifting capacity: Single girder overhead cranes have a lower lifting capacity than double girder overhead cranes.Limited span: Single girder overhead cranes have a limited span compared to double girder overhead cranes.If you are in the market for an overhead crane, you may be debating between a single girder crane and a double girder crane. Despite the fact that each style has advantages and disadvantages, you might want to consider a single girder overhead crane.How single girder crane benifit your business? Here are just a few of the benefits they provide:A lower cost.It should go without saying that single girder overhead cranes are less expensive than double girder cranes. It makes sense when you think about it. After all, by removing one of the girders, the design requires far fewer materials. Furthermore, trolleys designed for single girder cranes are much simpler than those designed for double girder cranes. Again, this can help lower the overall purchase price, making these cranes a cost-effective option.Less weight. Single girder cranes are much lighter weight because they lack the second girder and much of the support structure required for a double girder crane. This can help to reduce your building's structural support requirements.Lower installation costs.Single girder cranes are far less expensive to install due to their light weight and minimalistic design. Adding additional structural support to the building to support the weight of the crane is not always necessary. The same cannot be said for double-girder cranes, which are often extremely heavy and require additional support. With a single girder crane, you not only save money on the crane itself, but also on the cost of installation. That is why these cranes are such an excellent choice for businesses with limited resources.Industrial Applications of Processed Single Girder CranesIndustrial single girder overhead cranes are used in a variety of sectors, including manufacturing, construction, mining, transportation, and logistics. They are commonly used for lifting and moving heavy loads in industrial settings such as factories, warehouses, and assembly lines. These cranes are ideal for handling materials such as steel, concrete, and machinery components. They are also used in maintenance and repair operations, as well as in the construction of buildings and infrastructure. The specific type of single girder overhead crane used will depend on the requirements of the particular industry or sector. Load Types Handled by Single Girder Overhead Cranes Light Components: These cranes are ideal for handling lighter loads such as car parts, machinery, pallets, and crates. These types of loads are typically found in warehouses, assembly lines, and smaller manufacturing operations.Heavy Equipment: Single girder overhead cranes are also capable of handling much heavier equipment like steel beams, turbines, mining tools, power plant components, and ship parts, commonly required in more demanding industrial environments such as construction sites, power generation plants, and shipyards.Typical Crane Capacity Range1 ton to 10 tons: These cranes are typically used for light-duty tasks and are ideal for smaller components, materials in warehouses, and general operations within indoor settings such as factories, logistics centers, and automotive plants.10 tons to 20 tons: For heavier-duty tasks, single girder overhead cranes with capacities ranging from 10 tons to 20 tons are used to lift larger loads such as construction materials, turbines, and mining equipment, supporting operations in more industrial settings where robust lifting capabilities are required.Crane Design Features for Indoor Use:Environmental Control: Indoor environments allow for better control over temperature and humidity, which can lead to less wear and tear on the crane components. This environment is generally safer for operators, minimizing risks associated with external weather conditions.Space Optimization: Indoor cranes can be designed to maximize vertical lifting capabilities, allowing for efficient use of the facility's height. They can be customized to fit within the spatial constraints of the building.Enhanced Safety Features: Additional safety measures, such as collision detection systems and emergency stop buttons, can be more easily integrated into indoor setups.Crane Design Features for Outdoor Use:Weather Resistance: Outdoor cranes must be designed to withstand harsh weather conditions, requiring robust materials and protective coatings to prevent rust and damage from elements such as rain, wind, and extreme temperatures.Structural Considerations: Outdoor installations often need reinforced structures to endure environmental stresses, including wind loads and uneven ground conditions.Mobility and Versatility: Outdoor cranes are frequently mobile or mounted on wheels, allowing for operation across large, open spaces like construction sites where flexibility is key.Indoor Application :Manufacturing: Single girder cranes are essential for handling components, machinery, and materials in manufacturing facilities and assembly lines, improving production efficiency and workflow.Logistics: These cranes play a key role in lifting and moving pallets, crates, and other equipment in warehouses and distribution centers, helping streamline the storage, sorting, and transport of goods.Automotive: In automotive manufacturing, single girder cranes are used to move car parts, engine components, and tools within production plants, ensuring smooth operations in vehicle assembly and repair.Chemical: In chemical processing facilities, single girder cranes handle chemical containers, sensitive materials, and equipment in a safe and efficient manner, supporting the handling of potentially hazardous materials.Workshops : In workshops, single girder workshop cranes enhance productivity by facilitating the easy movement of tools and components.Lifting components for assembly or repair tasks.Supporting heavy tools and machinery for better accessibility.Improving workflow efficiency by allowing quick material retrieval.Workstations : These single girder worstation cranes are ideal for specific workstations where repetitive lifting tasks are common.Assisting in electronics assembly by moving lightweight parts.Facilitating the quick handling of tools and components needed for specific tasks.Providing flexibility in workspace organization, accommodating various assembly setups.Garages: Single girder garages overhead cranes are particularly useful in automotive garages for lifting and positioning vehicles and heavy equipment.Raising vehicles for inspection and repair, improving access for mechanics.Supporting heavy automotive tools and parts for efficient workflows.Streamlining maintenance tasks by allowing for organized movement of materials.Outdoor Applicaiton : Construction: Single girder overhead cranes are used extensively in the construction sector to lift and move heavy materials such as steel beams, concrete blocks, and construction machinery on job sites, assisting with the building of infrastructure and large projects.Mining: These cranes are crucial in m