

Metal Top Beam Series

·Metal Hinged Top Beam

MINE CROSS HINGED TOP BEAM DJBZ

Made of high-strength steel with a cross hinged structure, it can realize vertical and horizontal two-way connection. It can form a stable space support system by matching with single hydraulic props. Mainly used in complex roof environments of coal mine underground, it effectively disperses roof pressure, enhances the integrity of support, reduces the risk of roof fall accidents and provides reliable safety guarantee for mining operations.



PRODUCT PARAMETERS

Specifications	Operational flexibility	Maximum load per beam	Minimum load per beam	Stiffness	Minimum load at hinged joint	Maximum load at hinged joint	Hinged joint failure	Fixing method
DJBZ-*** (Length) / 300 (Load)	Any two hinged beams placed on the working platform can smoothly insert pins and adjusting wedges to achieve hinged connection. The hinged top beam rotates freely up and down along the pins without significant torsion, and the wedges and pins can be removed flexibly without jamming.	Length ≥ 1000mm: 400kN 700 ≤ Length < 1000mm: 560kN 600 ≤ Length < 700mm: 630kN	Length ≥ 1000mm: 300kN 700 ≤ Length < 1000mm: 420kN 600 ≤ Length < 700mm: 470kN	Beam body HB300-350 Angle wedge HB300-350 Pin HRC40-45	170kN	250kN	No brittle fracture upon failure under a load greater than 250kN	Load 187kN, repeated 35 times, the top beam should show no damage, and the welds should not crack.