INTERMEDIATE JACKING STATIONS (IJS)

Add Tonnage and Distributes Thrust Loads for Pipe Jacking and Tunneling Operations
For Use with Tunnel Boring Machines (TBMs) and Excavator Boring Shields (EBSs)
Matches Jacking Pipe 48-168-in. Diameter

Intermediate Jacking Stations (IJSs) distribute thrust loads to facilitate longer drives and/or in difficult ground therefore relieving loads on the main jacking cylinders to advance the rear of the tunnel.

IJSs are custom built to match common RCP, steel casing or CCFRPM pipe joints and situated at appropriate intervals in the tunnel between two pipe segments.

IJSs are suggested for use when thrust pressure reaches one third of the maximum pressure capacity of the pump unit or one half of the IJS thrust capacity, whichever occurs first.

Operator assesses the need for IJS engagement based on TBM/EBS performance at tunnel intervals.

IJSs are constructed of multiples of five ram segments, each with a seven inch stroke cylinder that exert 55 tons of thrust @ 8,000 psi hydraulic pressure.

Cylinders are controlled by the pump unit operator with an IJS line holder cable.

Hydraulic hoses connect to IJS spool valve between segments.

Jacking pressures are monitored on the pump unit gauge.

Recoverable ram segments are positioned on the inside of a non-recoverable steel housing/sleeve.

### FEATURES

**TBM/EBS MODEL** | **DIAMETER/PIPE ID** | **NO. OF SEGMENTS** | **MAX. TONNAGE @ 8,000 PSI**
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TBM 48SC II | 48-in (1,219 mm) | 5 | 275
TBM 420 | 42-in (1,067 mm) | 5 | 275
TBM 480 | 48-in (1,219 mm) | 6 | 330
TBM 540 | 54-in (1,372 mm) | 6 | 330
TBM 600 | 60-in (1,524 mm) | 7 | 385
TBM 660 | 66-in (1,676 mm) | 8 | 440
TBM 720 | 72-in (1,829 mm) | 9 | 495
TBM 780 | 78-in (1,981 mm) | 10 | 550
TBM/EBS 840 | 100-in (2,540 mm) | 10 | 550
TBM/EBS 960 | 114-in (2,896 mm) | 12 | 660
EBS 1080 | 127-in (3,226 mm) | 13 | 715
EBS 1200 | 144-in (3,658 mm) | 15 | 825
EBS 1440 | 168-in (4,267 mm) | 18 | 990

Note: Akkerman standard sizes can be customized to suit project needs. Akkerman reserves the right to improve its products without notice or obligation.