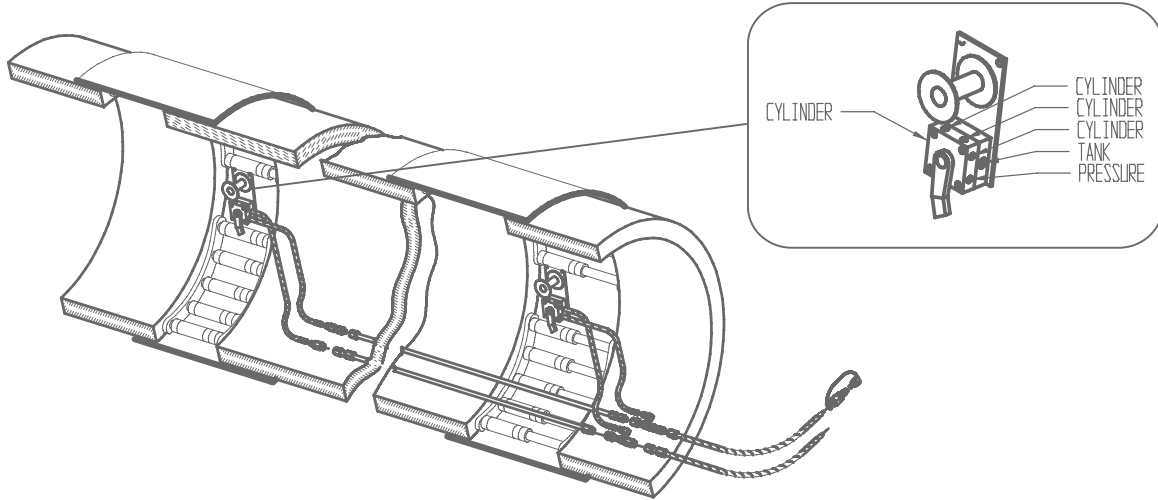


INTERMEDIATE JACKING STATIONS (IJS)

Adds 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



IJS Spool Valve



FEATURES

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

IJS 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

SPECIFICATIONS

TBM/EBS MODEL	DIAMETER/PIPE ID	NO. OF SEGMENTS	MAX. TONNAGE @ 8,000 PSI
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.

