

UMBRELLA SYSTEM

ONE YOU NEED
ALL WE SUPPORT



**Your reliable partner
for drilling system**



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THE YUS- UMBRELLA SYSTEM



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THE YUS- UMBRELLA SYSTEM

The YUS - Umbrella system is a high-efficiency, high stability, and high safety construction of re-support method used in insufficient rock strength and bias pressure at the entrance of the tunnel.

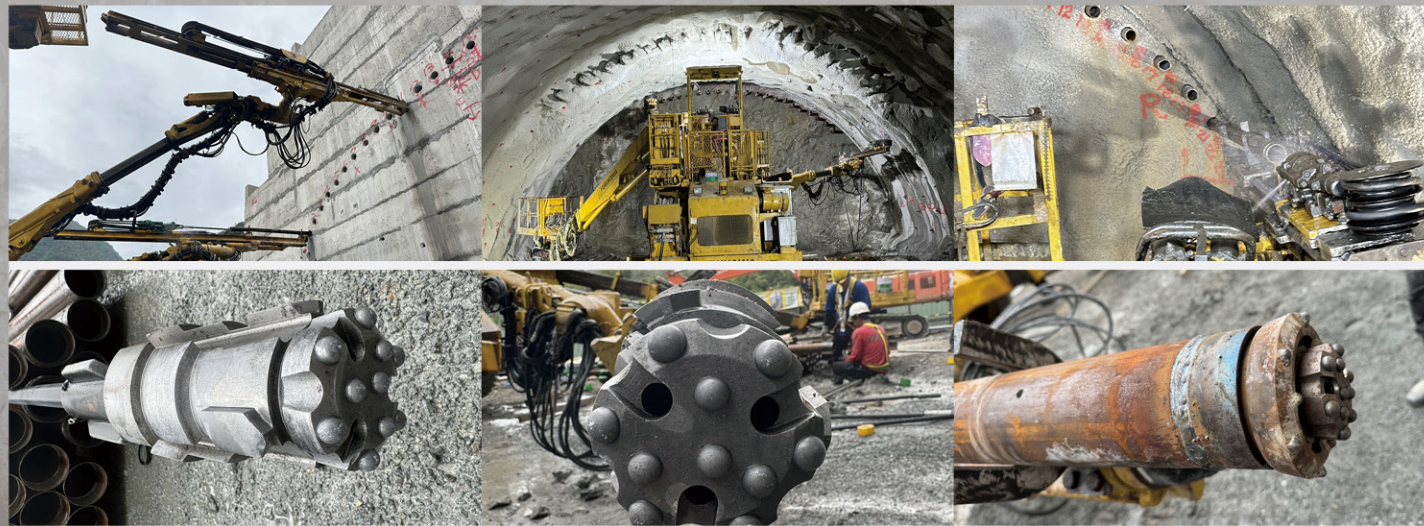
The construction procedure is to drive a series of pre-supported steel pipes longitudinally into the top arch of the unexcavated tunnel, and apply consolidation grouting to form an umbrella shaped protective ring at the top of the tunnel before excavation, to support the steel pipe with the truss type steel support, steel wire mesh, and sprayed concrete to form a three-dimensional support system after the tunnel excavation, thereby ensuring the structural stability of the tunnel.



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APPLICATION CONDITION

- Weak geological conditions
- Rock layers prone to subsidence
- Fault zones or sedimentary geological conditions
- Frequently changing tunnel conditions
- Reconstruction of collapsed tunnels and old tunnels
- Municipal construction tunnels such as subway projects



MAIN ADVANTAGES

- All components have been verified through actual tunnel engineering and are not laboratory data
- Complex working and hard rock layers conditions have been verified
- Efficient self drilling installation technology
- Easy installation by on-site personnel
- Reliable and innovative system components
- Full size coverage and flexible length usage
- Innovative combination mode of central fixator and drill rod

YOUR RELIABLE PARTNER FOR DRILLING SYSTEM



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Pipe Umbrella

Type	Article Number	Out Diameter [mm]/[in]	Wall Thickness of Pipe [mm]/[in]
YUS-2.5	96-9602507600	76.3/2.5	5.2/0.2
YUS-3.0	96-9603008900	89.0/3.0	5.2/0.2
YUS-3.5	96-9603510100	101.5/3.5	5.6/0.22
YUS-4.0	96-9604011400	114.3/4.0	6.0/0.24
YUS-5.0	96-9605013900	139.8/5.0	6.9/0.27

* The length and hole position of the pipe can be designed and cut according to customer requirements

* Our regular steel is S235 and S355, but we can also produce according to the customer's steel requirements

Accessories Umbrella-Main Bit

Type	Article Number	Out Diameter [mm]/[in]	Length [mm]/[in]
YUS-2.5MB	96-9602507601	41.0/1.6	143.0/5.6
YUS-3.0MB	96-9603008901	55.0/2.2	178.5/7.0
YUS-3.5MB	96-9603510101	61.0/2.4	200.5/7.9
YUS-4.0MB	96-9604011401	71.0/2.8	200.5/7.9
YUS-5.0MB	96-9605013901	91.0/3.6	201.0/7.9

Accessories Umbrella-Ring Bit

Type	Article Number	Out Diameter [mm]/[in]	Length [mm]/[in]
YUS-2.5RB	96-9602507602	93.0/3.7	88.0/3.5
YUS-3.0RB	96-9603008902	100.0/4.0	65.0/2.6
YUS-3.5RB	96-9603510102	112.0/4.4	70.0/2.8
YUS-4.0RB	96-9604011402	125.0/4.9	70.0/2.8
YUS-5.0RB	96-9605013902	148.0/5.8	70.0/2.8

* All accessories are designed by our company and can adapt all customer's thread requirements

* Can provide special design assistance if the customer has special needs



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