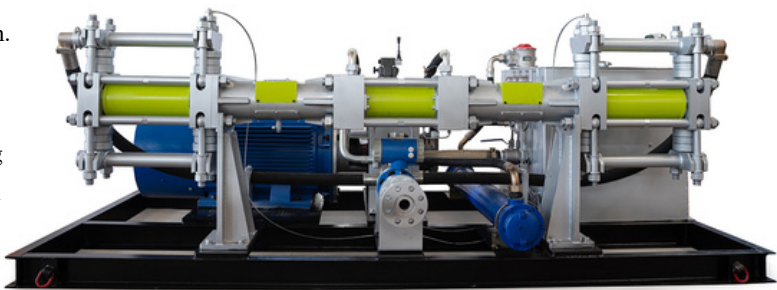


Containerised Intelligent Backfilling System

OVERVIEW

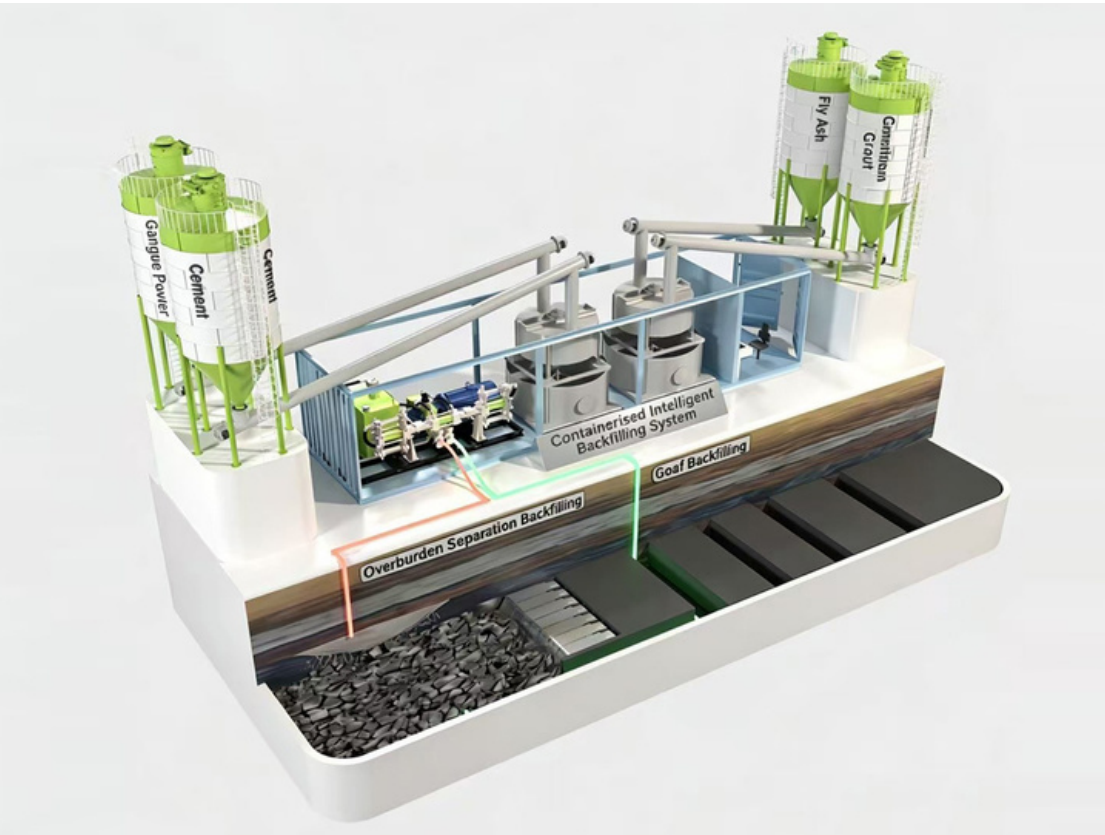
A modular, rapidly deployable, and highly automated backfilling material preparation and conveying system. Its core concept is to integrate all key equipment traditionally fixed within a plant—such as mixers, pumping systems, control centres, and additive dosing systems—into one or more standardised containerised modules. Combining IoT, automated control, and big data technologies, the system enables intelligent management of the entire backfilling process.



MAIN APPLICATIONS

A modular backfilling solution designed for slurry preparation, mixing, storage and long-distance pumping in underground mining operations. Typical applications include:

- Underground mine backfilling and void filling
- Goaf backfilling and ground stabilisation
- Long-distance slurry conveying to underground workings
- Grouting and ground reinforcement in mines and tunnels
- Water sealing and leakage control
- Other specialised backfilling and grouting applications



KEY FEATURES

- Containerised modular design with compact structure, rapid installation and dismantling, convenient relocation and transportation, and improved operational efficiency. Other structural configurations can also be customised according to project and operational requirements.
- Integrates intelligent automatic slurry mixing, slurry storage, and grouting functions into one system.
- Fast slurry preparation speed; supports sequential feeding of multiple powder materials, automatic arch-breaking in silos, and automatic switching during material shortage. High-speed vortex flow combined with forced mixing ensures complete slurry homogenization immediately after feeding is completed.
- The core equipment uses our newly developed fully hydraulic-controlled backfilling pump, featuring low noise, long service life, a compact structure, and convenient maintenance. It is capable of ultra-long-distance conveying, ultra-high-pressure operation, and large-capacity backfilling and grouting applications.

TECHNICAL PARAMETERS

Product Model	Grouting Flow Rate (m³/h)	Grouting Pressure (MPa)	Rated Power (kW)	Weight (kg)	Dimensions (mm) (±50)
2ZBYSB(38.8~9.0)/(1~10)-55	0~39.6	0~11	55	1904	2700×1408×1234
2ZBYSB(18.0~5.4)/(5~15)-55	0~21.6	0~18	55	1904	2700×1408×1234
2ZBYSB(14.5~3.6)/(1~25)-55	0~15	0~28	55	1904	2700×1408×1234
2ZBYSB(10.2~1.5)/(1~30)-55	0~10.5	0~35	55	1904	2700×1408×1234
2ZBYSB(46.8~12.0)/(1~10)-75	0~48	0~11	75	2300	3102×1433×1235
2ZBYSB(28.8~8.2)/(1~16)-75	0~30	0~18	75	2300	3102×1433×1235
2ZBYSB(23~3.5)/(1~28)-75	0~24	0~30	75	2300	3102×1433×1235
2ZBYSB(58.6~17.6)/(1~11)-90	0~60	0~12	90	2600	3200×1500×1300
2ZBYSB(41.8~12.9)/(1~15)-90	0~45	0~18	90	2600	3200×1500×1300
2ZBYSB(24.5~7.7)/(1~25)-90	0~26	0~28	90	2600	3200×1500×1300
2ZBYSB(105.0~30.0)/(1~7)-110	0~106	0~8	110	2900	3400×1750×1400
2ZBYSB(67.1~21.6)/(1~11)-110	0~69	0~13	110	2900	3400×1750×1400
2ZBYSB(47.9~15.8)/(1~15)-110	0~50	0~18	110	2900	3400×1750×1400
2ZBYSB(28.1~9.5)/(1~25)-110	0~30	0~28	110	2900	3400×1750×1400
2ZBYSB(110.0~20.0)/(1~9)-160	0~114	0~12	160	3200	3540×1810×1452
2ZBYSB(53.0~14.0)/(1~19)-160	0~56	0~21	160	3200	3540×1810×1452
2ZBYSB(34.0~8.0)/(1~28)-160	0~36	0~30	160	3200	3540×1810×1452
2ZBYSB(220.0~20.0)/(1~9)-320	0~228	0~12	320	6500	Pump Station Section: 4000×2100×1500 / Pumping Section: 3200×1500×1500
2ZBYSB(106.0~14.0)/(1~19)-320	0~112	0~21	320	6500	Pump Station Section: 4000×2100×1500 / Pumping Section: 3200×1500×1500
2ZBYSB(68.0~8.0)/(1~28)-320	0~72	0~30	320	6500	Pump Station Section: 4000×2100×1500 / Pumping Section: 3200×1500×1500