

# Self Drilling Rib Bolt In Action

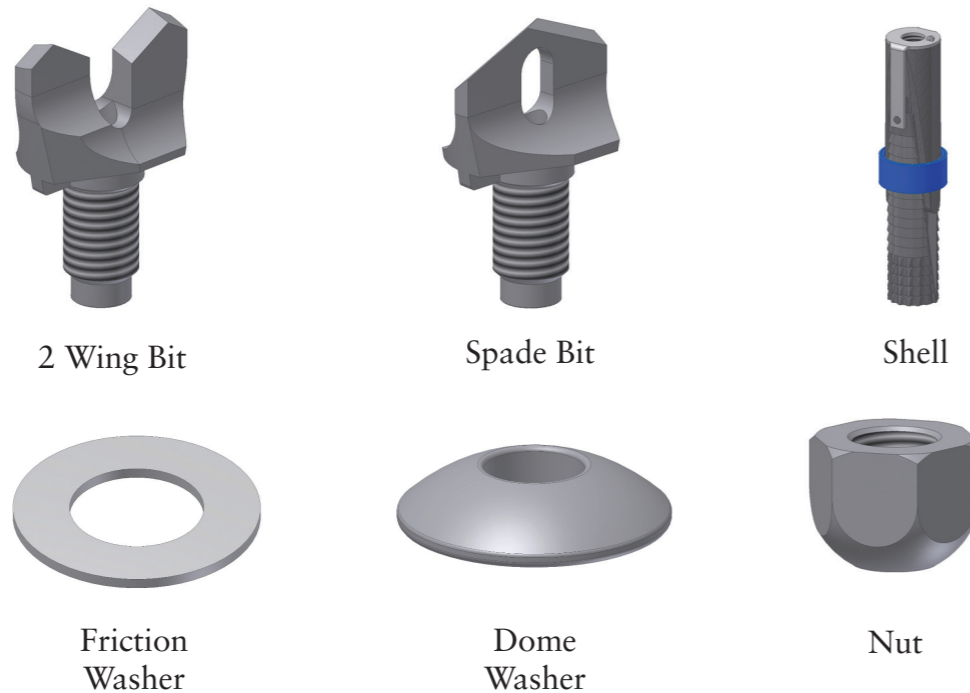




DESCRIPTION	
Hollow Bar	(OD = 19.05mm, ID = 9.5mm)
Bolt Length	Typically 1.2M
Expansion Shell	Frazer & Jones S10L (M20 x 2.0LH)
Nut	36 A/F (M20 x 2.0LH)
Friction Washer	HDPE (High Density Polyethelene)
Dome Washer	(OD = 60mm, ID = 21mm)
Drill Bit	Dia 36mm (Spade or Wing Bit)
Plate Washer	300mm Square or 150mm Square

	TYPICAL
Tensile Strength (kN)	140
Yield Strength (kN)	110
Bar Shear Strength (kN)	90
Standard Elongation (50mm)(%)	23 - 38

## SDB COMPONENTS



2 Wing Bit

Spade Bit

Shell

Friction Washer

Dome Washer

Nut

## TECHNICAL ADVANTAGES

### SAFETY

Improved safety for operators, as less time is spent on the rib bolt installation process.

### PRETENSION

The Sandvik SDB is pretensioned by use of a Mechanical Anchor forcing the rib layers together. The rib is actively supported all of the time.

### PRODUCTIVITY

Faster installation times through the combination of the drilling and bolting cycles into a single pass operation. This also reduces the variation in rib bolting cycle times in poor rib conditions via elimination of the insertion of the resin cartridge and the requirement to redrill the hole, and removes the problem of the chemical not setting the bolt.

### EASY ADAPTION

Similarity to current practice allows for easy adaption to the Sandvik SDB system.

### STRENGTH

Bond strength and bolt performance can be increased through the combined use of the mechanical anchor and encapsulation with either resin or cement grout.

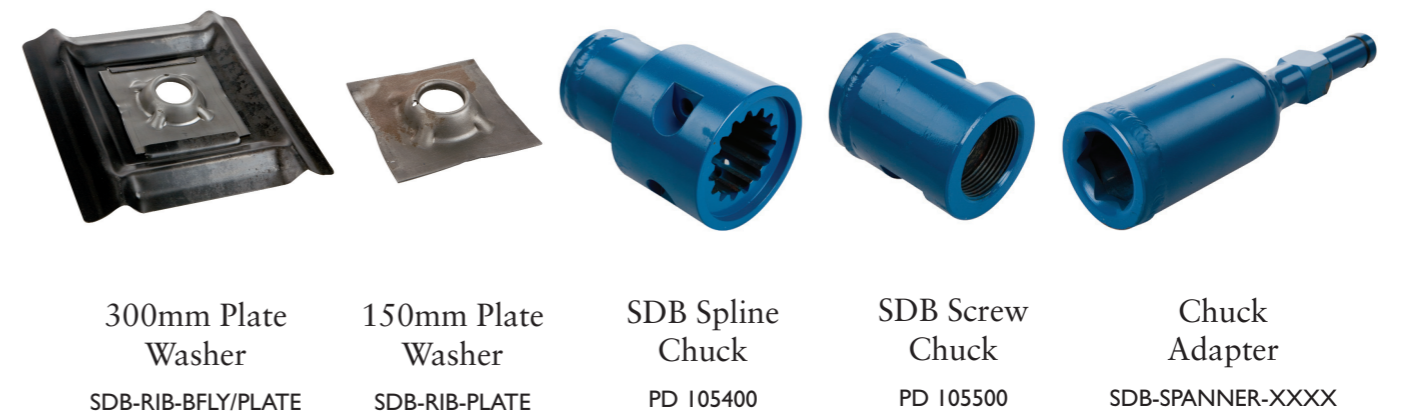
### LOWER MAINTENANCE

Less wear on the drill rig per bolt installed. The drill motor, carriage, and cylinder only operate once per installed bolt.

### TRAINING AND DOCUMENTATION

Through a process of risk management, a set of Safe Work Procedures have been developed to assist mine sites implement the Sandvik SDB system. Training packages are available to suit mine site requirements.

## ASSOCIATED PRODUCTS



300mm Plate Washer  
SDB-RIB-BFLY/PLATE

150mm Plate Washer  
SDB-RIB-PLATE

SDB Spline Chuck  
PD 105400

SDB Screw Chuck  
PD 105500

Chuck Adapter  
SDB-SPANNER-XXXX

### Contacts

Sandvik is looking for additional sites to trial the SDB. If you are interested please contact one of the following people.

Pokolbin – Steven Weaver  
0437 606 680

Penrith – Robin Genero  
0407 450 425

Mackay – Aivars 'Sid' Siderenko  
0417 440 527

