

CASE STUDY: CS-17

Underground Coal Mine

Site:	Caledon Cook Colliery
Application:	ABM continuous miner cutter head to boom bolting
Original Set-Up:	M42 Socket Head Cap Screws tightened with Torque Multiplier
Issues Experienced:	<ul style="list-style-type: none">● OH&S concerns associated with torque multiplier (Pinch Points)● very tight working conditions● Not all bolts are able to be tighten sufficiently due to space limitations● Due to incorrect bolt loads being applied units continually vibrate loose during operation
Technofast Product Used:	Special M42EziTite [®] Hydraulic Bolts
Benefits Experienced:	<ul style="list-style-type: none">● Easy installation and handling● removed major OH&S concerns● Nuts no longer vibrate loose during operation
Installation Time:	Old Method = 3 hours 30 minutes (2-3 personnel) New Method = 30 minutes(2 personnel)
	Time Saving = 3 hours
Feedback Received:	“The use of the hydraulic bolts has improved the amount of time to bolt the head to the boom and also allowed for increased machine operation because the bolts are not coming loose”

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FM233-CS017 (Rev-2)

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Application Pictures



ABM25 continuous miner without boom installed showing bolt locations.

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