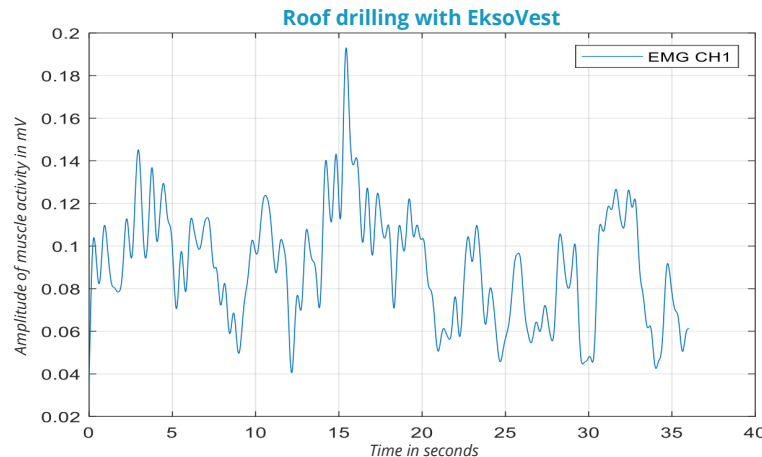
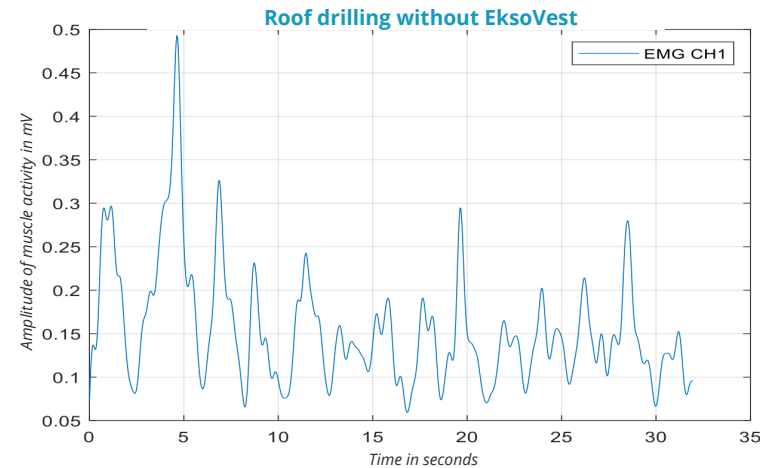


Exploring the advantages of the EksoVest

In the European Union, up to **44 million workers** are affected by **workplace-related musculoskeletal disorders (MSDs)**, fatigue, and injuries, representing a total annual cost of more than **€240 billion**.



An experimental study by the University of Gävle has found that **peak muscle activity of workers can be reduced up to 60%** when using the EksoVest to perform various drilling operations.



Assistive exoskeletons Lab at the University of Gävle, Sweden



Drilling operations with the EksoVest at the University of Gävle

Study powered by:

Interreg
North Sea Region
EXSKALLERATE

European Regional Development Fund



EUROPEAN UNION

S.No.	Drilling positions	Muscle activity without Exo (RF)	Muscle activity with Exo (BV)	Efficiency $\eta = \frac{RF-BV}{RF} * 100\%$
1	Roof	0.4913 mVolt	0.193 mVolt	60.71%
2	Wall	0.490 mVolt	0.191 mVolt	60%

Peak muscle activity measured by EMG sensor kit at Biceps

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