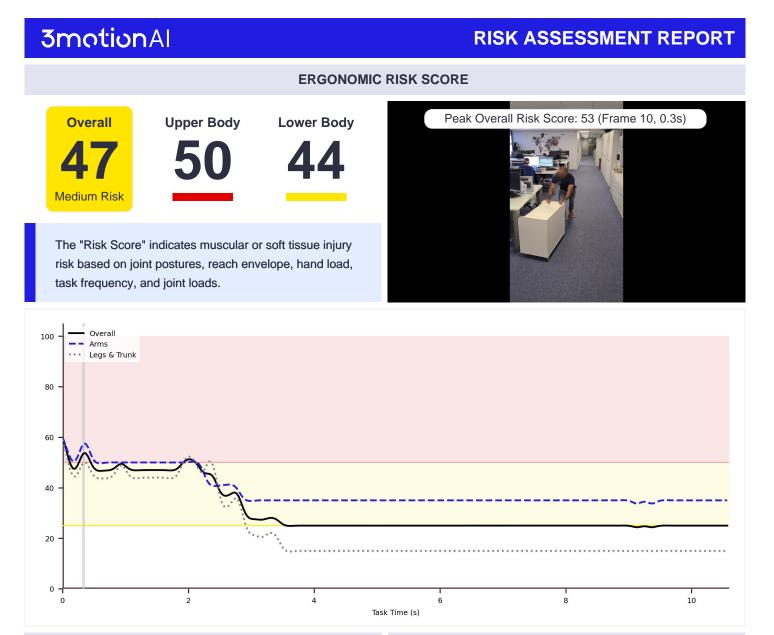
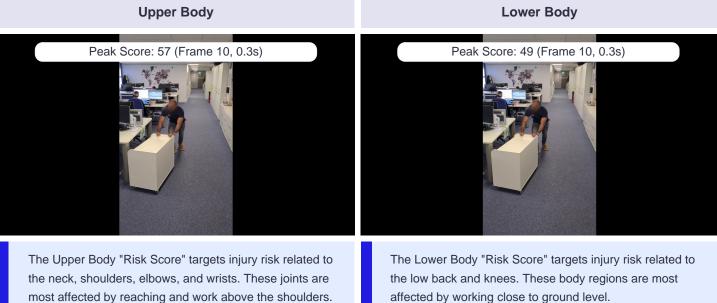


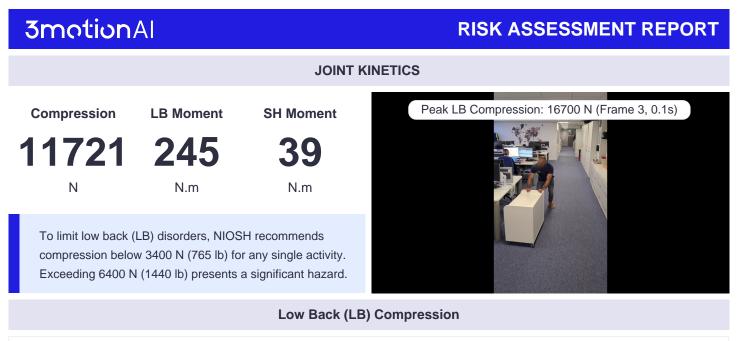
## **Recommendations to Reduce Risk**

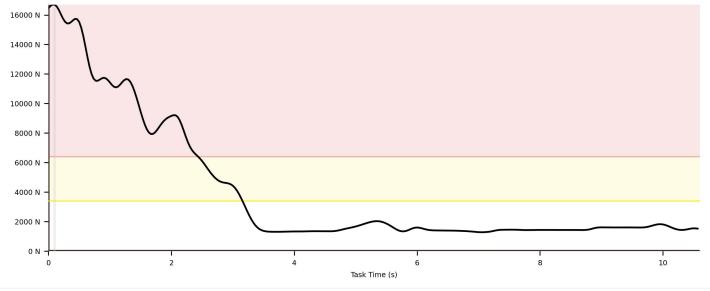
Your analysis showed moderate overall risk (particularly for the upper body) with the low back as the riskiest joint. Consider raising the work location to limit low back flexion and reduce the risk level.





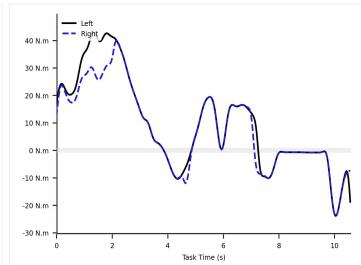
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Low Back (LB) Moment

Shoulder (SH) Moment



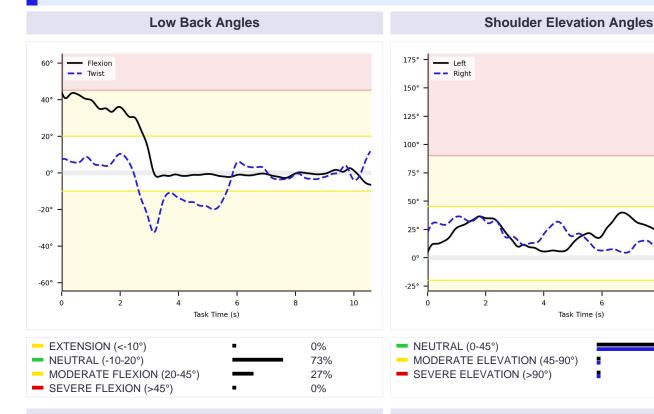
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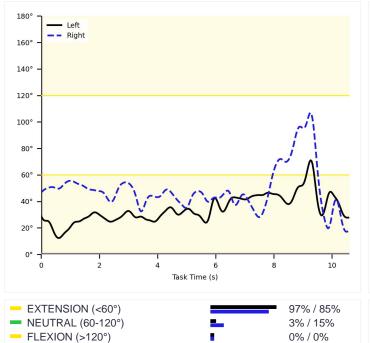
# **RISK ASSESSMENT REPORT**

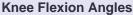
#### JOINT KINEMATICS

The 3motionAl system uses advanced computer vision and artificial intelligence (AI) to track human body motion. It creates a detailed, scaled 3D body model, which is used to calculate 3D joint angles. Research shows that injury risk is minimized when joints are in a neutral posture, while extreme postures can increase the likelihood of injury.



#### **Elbow Flexion Angles**





6

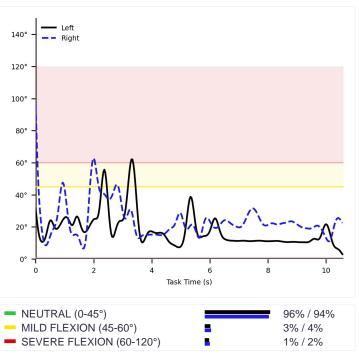
8

10

100% / 100%

0% / 0%

0% / 0%



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# 3motionAl

# **RISK ASSESSMENT REPORT**

#### **RAPID ENTIRE BODY ASSESSMENT (REBA)**

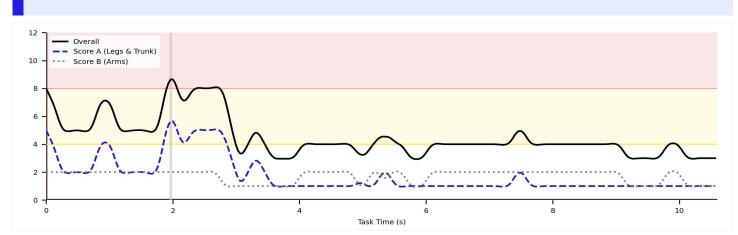
Scoring outcomes based on Rapid Entire Body Assessment (REBA), Highnett & McAtamney, Applied Ergonomics 31 (2000), 201-205.

1: Negligible Risk

4-7: Medium Riisk. Further investiagte and change soon.8-10: High Risk. Investigate and implement change.

11+: Very High Risk. Implement change.

2-3: Low Risk. Change may be needed.



#### **Peak Overall REBA Score**

#### Peak A Score (Legs & Trunk)

#### Peak B Score (Arms)







	Posture	Adjust	Score		Posture	Adjust	Score		Posture	Adjust	Score
NECK	2	0	2	NECK	2	0	2	NECK	2	0	2
TRUNK	3	0	3	TRUNK	3	0	3	TRUNK	3	0	3
LEGS	1	2	3	LEGS	1	2	3	LEGS	1	2	3
UPPER ARM	2	0	2	UPPER ARM	2	0	2	UPPER ARM	2	0	2
LOWER ARM	2	-	2	LOWER ARM	2	-	2	LOWER ARM	2	-	2
WRIST	1	0	1	WRIST	1	0	1	WRIST	1	0	1
LOAD	COUPLING		ACTIVITY	LOAD	COUPLING		ACTIVITY	LOAD	COUPLING		ACTIVITY
2	0		1	2	0		1	2	0		1
15.0 KG	Good		10.0 / MIN	15.0 KG	Good		10.0 / MIN	15.0 KG	Good		10.0 / MIN
A SCORE	B SCORE	ſ	OVERALL	A SCORE	B SCORE		OVERALL	A SCORE	B SCORE		OVERALL
6	2		9	6	2		9	6	2		9

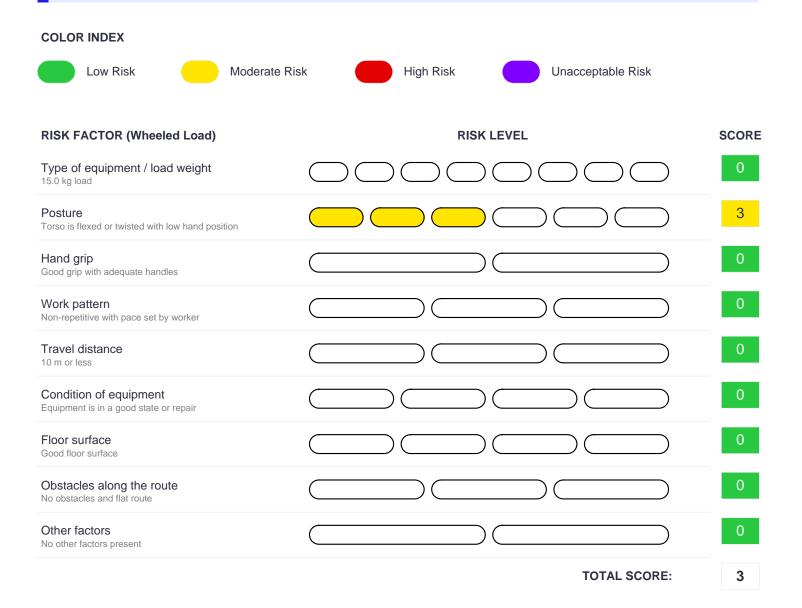
# 3motionAl

# **RISK ASSESSMENT REPORT**

#### **RISK ASSESSMENT OF PUSHING AND PULLING (RAPP) - WHEELED LOAD**

#### **Risk Assessment of Pushing and Pulling (RAPP) Tool**

This tool aids in assessing key risks in manual pushing and pulling tasks requiring whole-body effort, such as moving loaded trolleys or hauling loads. Used alongside the Manual Handling Assessment Charts (MAC), it helps identify high-risk activities and evaluate the effectiveness of risk-reduction measures for workplace health and safety.



### Action Your Risk Data

Review the color and numerical scores, focusing on amber and red risks. Modify tasks to reduce these risks and prioritize actions by addressing the task with the highest total score first.