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CNAS L0454

**NETEC**®  
建研检测

# Test Report

Report No. WT NET 24-252

**Name of Product:** MEGELINEAR Lift belt

**Model of Product:** 30P3 HL-42KN

**Applicant:** Megadyne Industrial Belts Production  
(Qingdao) Co., Ltd.

**Manufacturer:** Megadyne Industrial Belts Production  
(Qingdao) Co., Ltd.

**Category of test** Commission

**NETEC Inspection and Testing (Beijing) Co., Ltd.**  
**National Elevator Inspection and Testing Center**

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Name of product		MEGELINEAR Lift belt	
Model of product		30P3 HL-42KN	
Batch number		/	Production date 2023-12
Applicant	Name	Megadyne Industrial Belts Production (Qingdao) Co., Ltd.	
	Address	Jiefang Avenue South, Yingliu Road West, Automobile Industry Park, Jimo District, Qingdao, Shandong, China	
Manufacturer	Name	Megadyne Industrial Belts Production (Qingdao) Co., Ltd.	
	Address	Jiefang Avenue South, Yingliu Road West, Automobile Industry Park, Jimo District, Qingdao, Shandong, China	
Manufacturing address		Jiefang Avenue South, Yingliu Road West, Automobile Industry Park, Jimo District, Qingdao, Shandong, China	
Receiving date	2024-04-15	Sample No.	Q2024-0405
Test date	2024-05-14~2024-06-13	Sample state	No abnormal
Test place	NETEC	Sample amount	1
Test condition	Ambient temperature: 23.4 °C~31.1 °C, relative humidity: 23%~56%		
Test basis	GB/T 39172—2020 <i>Non-steel wire rope suspension means for lifts</i> §5.3.1, §5.3.5 a)		
Test conclusions	<p>The test results of the MEGELINEAR Lift belt test items meet the requirements of the corresponding clauses in the test basis.</p> <p>Issue date: 2024-06-28</p>		

Reported by:  Verified by:  Issued by: 

## 1 Main technical parameter and configuration of the sample

Name of product	MEGELINEAR Lift belt
Model of product	30P3 HL-42KN
Minimum breaking force	42 kN
Minimum safety factor allowed in use	12
Declare the number of simple bends	10 million times
Nominal width	30 mm
Nominal thickness	3 mm
Mass per unit length	0.210 kg/m
Material of internal core rope	Galvanized steel
Number of internal core ropes	10 pieces
Structure of internal core rope	7×7
Diameter of internal core rope nominal	$\phi 1.80$ mm
Internal bearing body cross-sectional area	1.57 mm <sup>2</sup>
Nominal tensile strength of internal core rope	2809.8 N/mm <sup>2</sup>
Coating material	Thermoplastic polyurethane elastomer (TPU)

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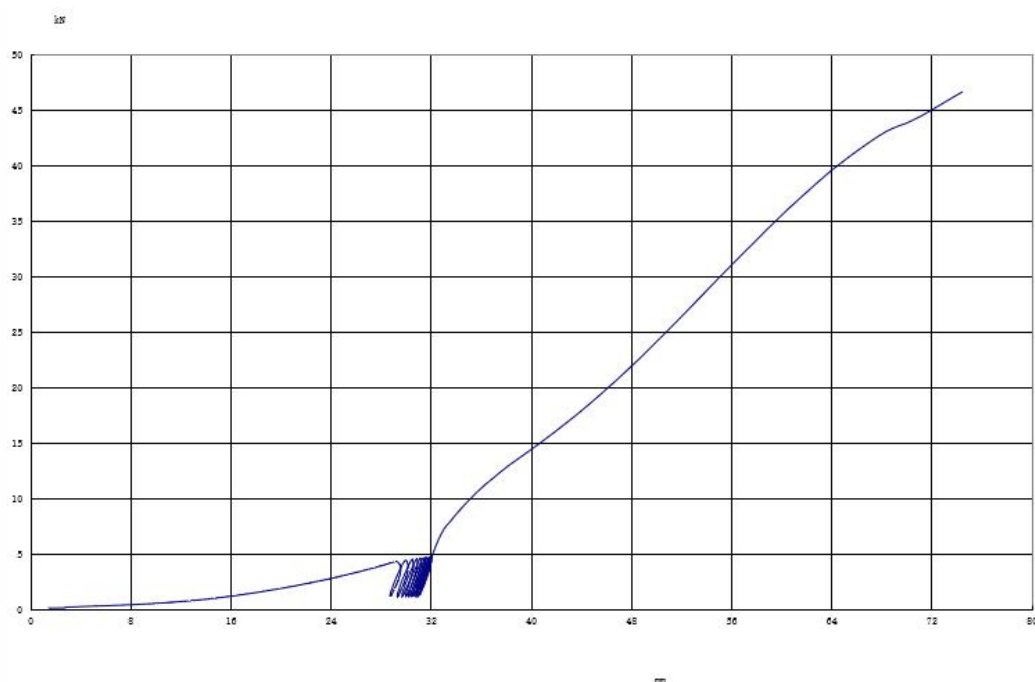
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## 2 Test items and results

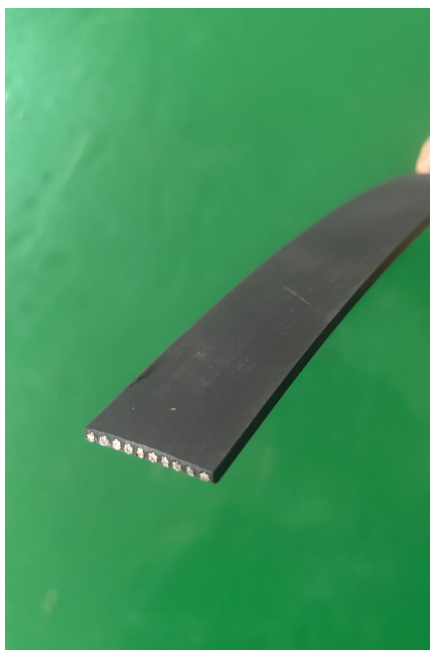
No.	Standard clause number/ Test items	Test content and requirements	Test results
1	GB/T 39172—2020 §5.3.1 Measured breaking force	The measured breaking force shall not be less than the minimum breaking force of the coating rope (belt).	Measured breaking force: 46.59 kN Comply with requirements
2	GB/T 39172—2020 §5.3.5 a) Bending fatigue performance	On the test wheel matched with the coating rope (belt), and under its minimum breaking force load of 1/12, the bending fatigue performance of the coating rope (belt) shall meet the requirement of not less than 10 million simple bending times.	Load with minimum breaking force of 1/12: 357 kg Test load: 360 kg Material of test wheel: 45 Pitch diameter of test wheel: 80 mm Package corner: 57° Bending times: 10000000 times During the test, no maintenance was carried out on the sample, and there was no visible damage or abnormal wear on the surface of the sample after the test.

## 3 Test curve

Force-Displacement Curve



4 Sample photo



Breaking tensile test



Bending fatigue test