



ÇANKAYA ÜNİVERSİTESİ

Türkiye'de Sismik İzolatör Deney Laboratuvarı Kurulması
Fizibilite Çalışma Toplantısı

Polat Gülkan

11 Aralık 2015

Ankara Kalkınma Ajansına bu toplantıyı desteklediđi için teŖekkür ederiz. Ayrıca Çankaya Üniversitesi Rektörlüğüne, Teknoloji Transfer Ofisine ve anketi dolduran katılımcılara Ŗükranlarımızı ifade ediyoruz.

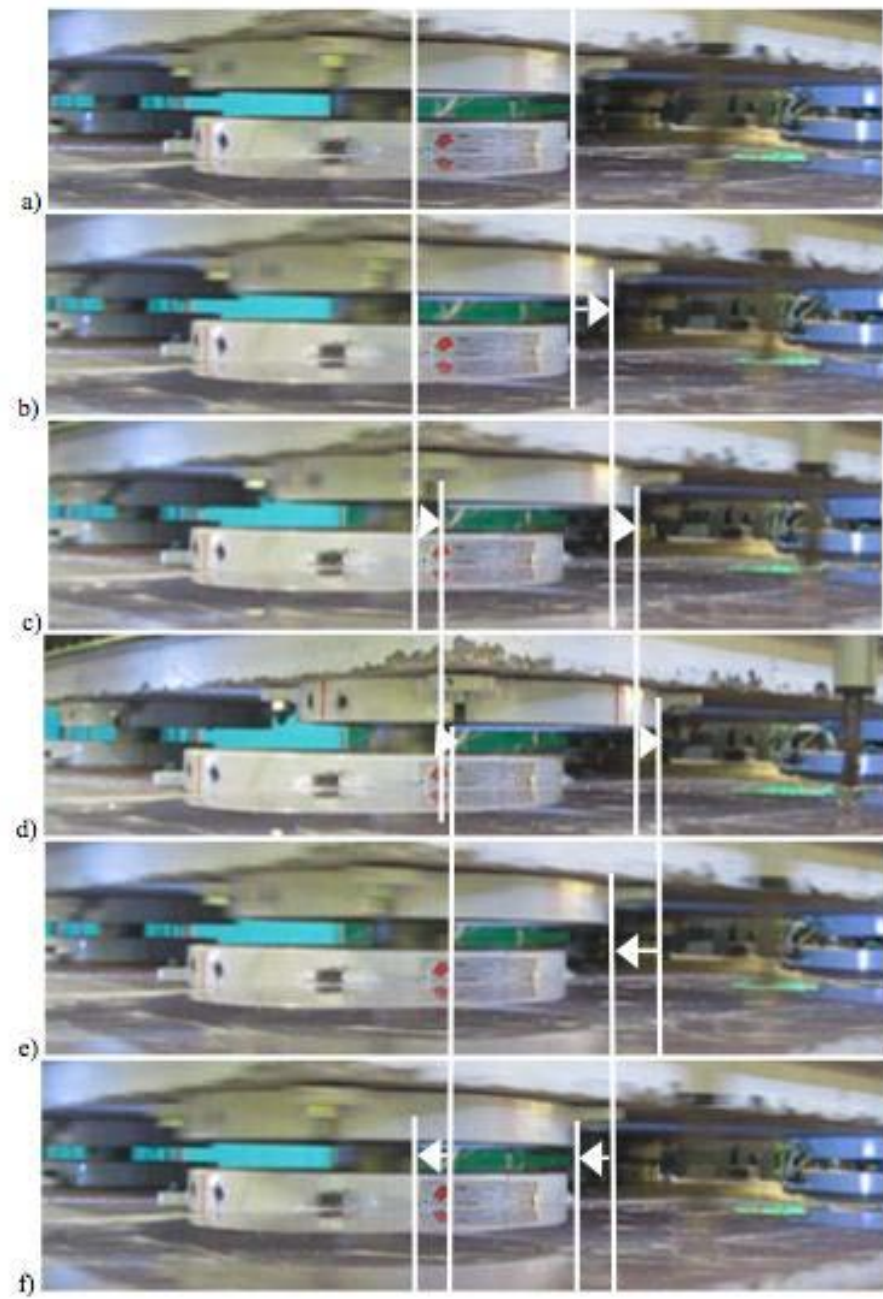
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GÖKHAN TUNÇ	ATILIM ÜNİVERSİTESİ	AKADEMİK ARAŞTIRMACI
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Murat Dicleli	ODTÜ	DANIŞMAN
Akay Bulut	YDA İNŞAAT SANAYİ TİCARET A.Ş.	MÜTEAHHİT FİRMA
gaye kaplan	Figes A.Ş.	İleri Mühendislik Hizmeti, Test Sistemi Tasarımı ve Kurulumu
HASAN EMRAH YEYEN	FIGES A.Ş.	PROJE FİRMA
BERK DEMIRKOZ	BRISA	ÜRETİCİ / PAZARLAMACI FİRMA
ÖZGÜR ÇETİNKAYA	BENSUM MÜHENDİSLİK	PROJE FİRMA
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Ali Karimzadeh Naghshineh	Özdekan Rubber Industries	PROJE FİRMA
Roberto Dalpedri	HIRUN	ÜRETİCİ / PAZARLAMACI FİRMA

- European Standard EN 15129 on Anti-Seismic Devices
 - 4 General design rules
 - 4.6 Validation of anti-seismic devices
 - 5 Rigid connection devices
 - 5.3.4 Type Testing
 - 5.3.5 Factory Production Control Tests
 - 6 Displacement Dependent Devices
 - 6.4.4 Type tests of devices
 - 6.4.5 Factory production control testing of devices
 - 7 Velocity Dependent Devices
 - 7.4.3 Factory production control
 - 8 Isolators
 - 8.2 Elastomeric Isolators
 - 8.2.4 Testing
 - 8.3 Curved Surface Sliders
 - 8.3.4 Testing
 - 8.4 Flat Surface Sliders
 - 8.4.4 Testing
 - 9 Combinations of Devices
 - 9.4.2 Type Testing
 - 9.4.3 Factory Production Control testing
 - 10 Evaluation of conformity
 - 10.2 Type testing

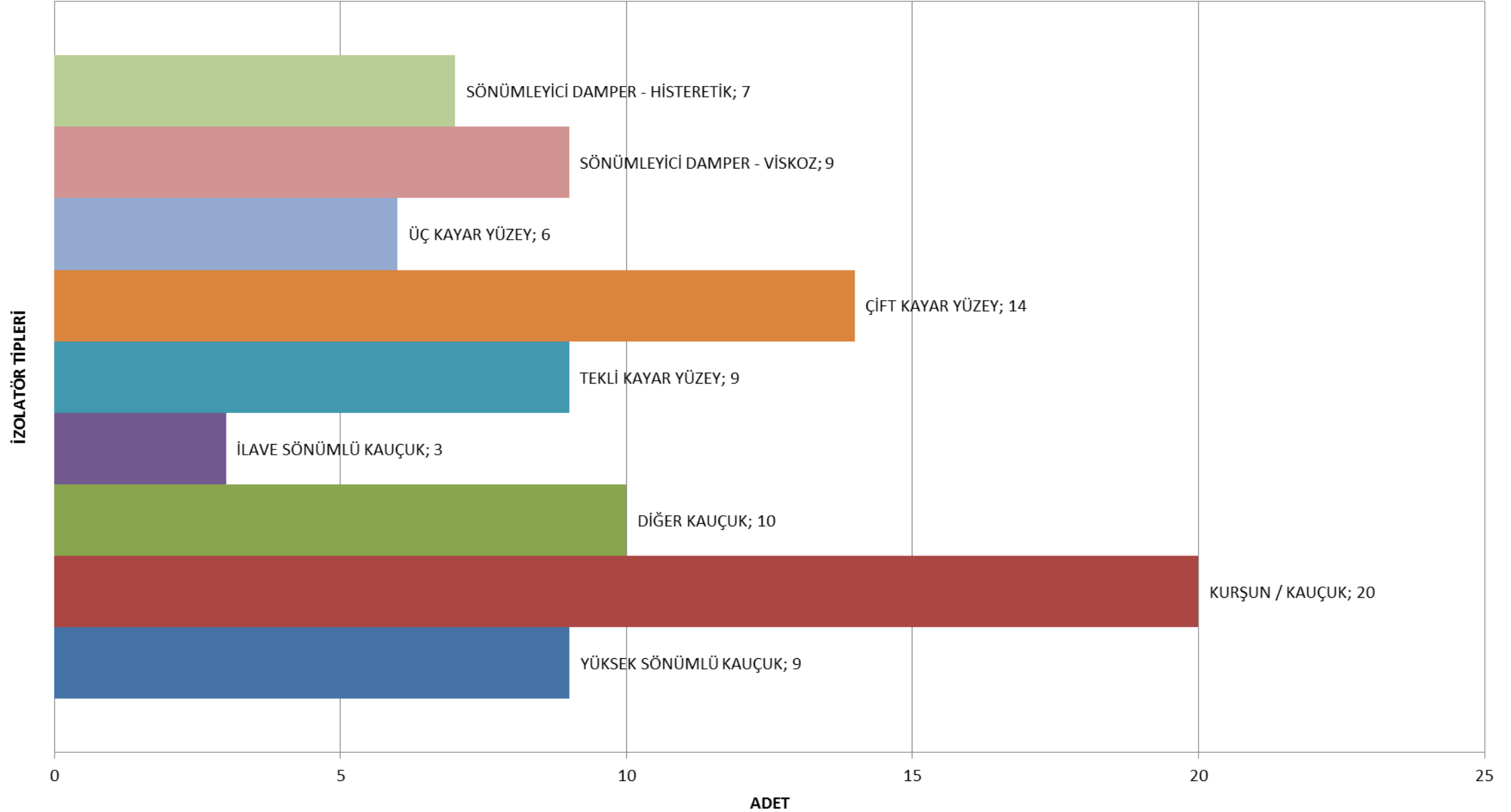
- European Standard EN 1337 on Structural Bearings
- Eurocode 8: Design of Structures for Earthquake Resistance
- ASCE/SEI 7-10: Minimum Design Loads for Buildings and Other Structures
 - 17 Seismic Design Requirements for Seismically Isolated Structures
 - 17.8 Testing
 - 17.8.2 Prototype Tests
 - 18.9.2 Production Testing

Testing Protocols for Seismic Isolation Systems

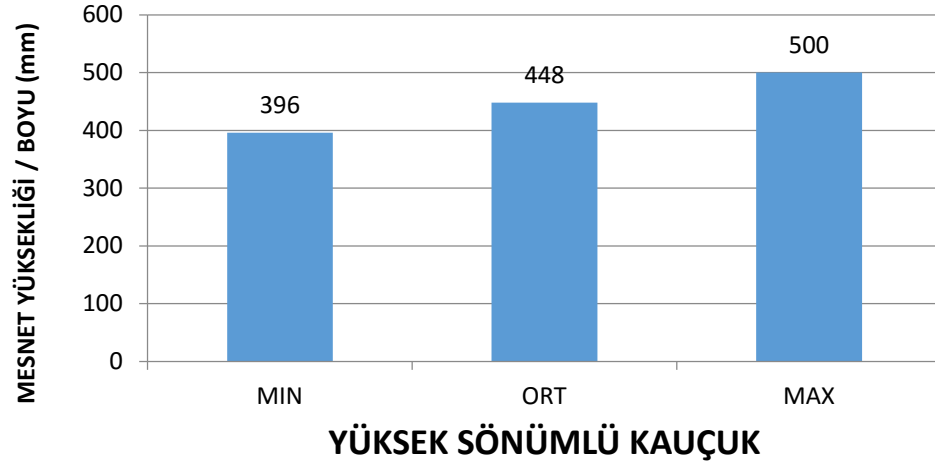




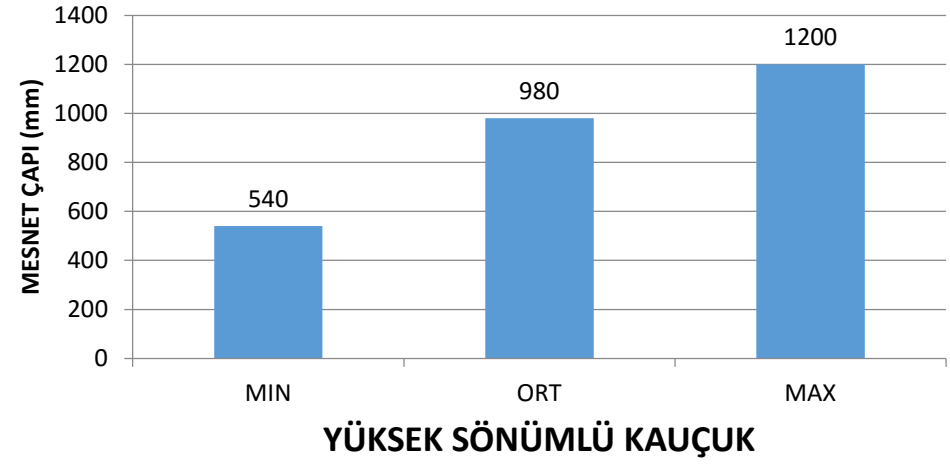
UYGULAMALARINIZDA KULLANDIĞINIZ / TASARLADIĞINIZ / ÜRETTİĞİNİZ SİSMİK İZOLATÖR TİPLERİNİ BELİRTİNİZ



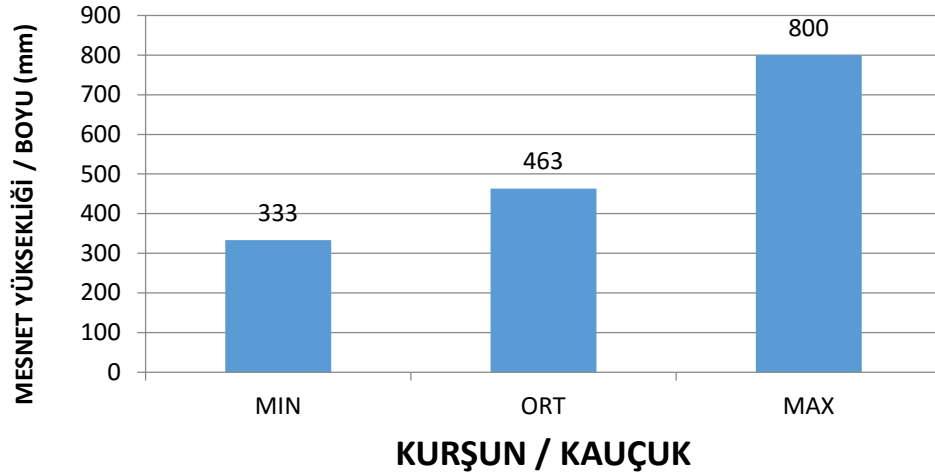
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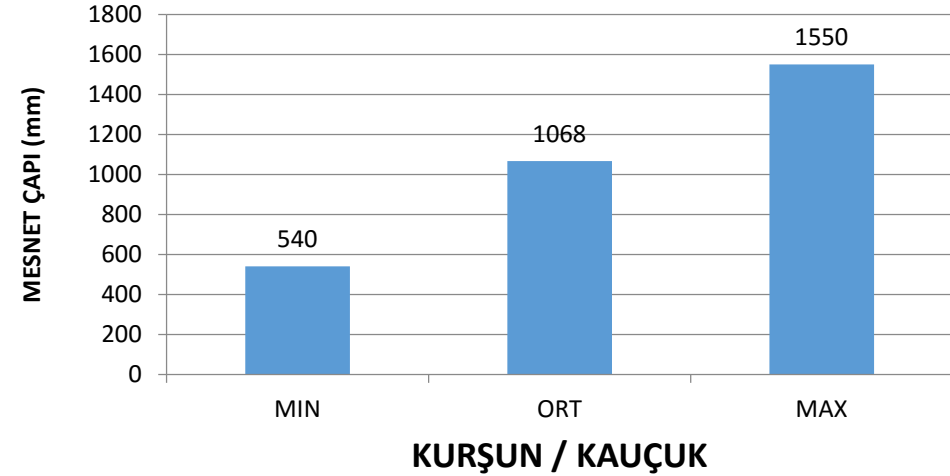
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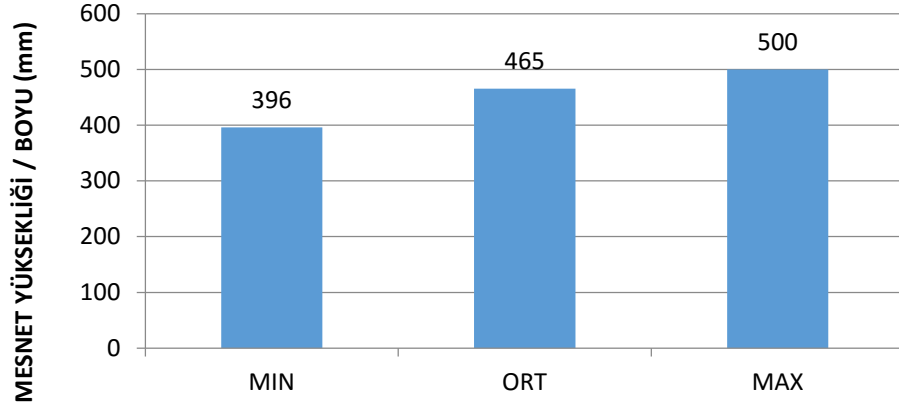
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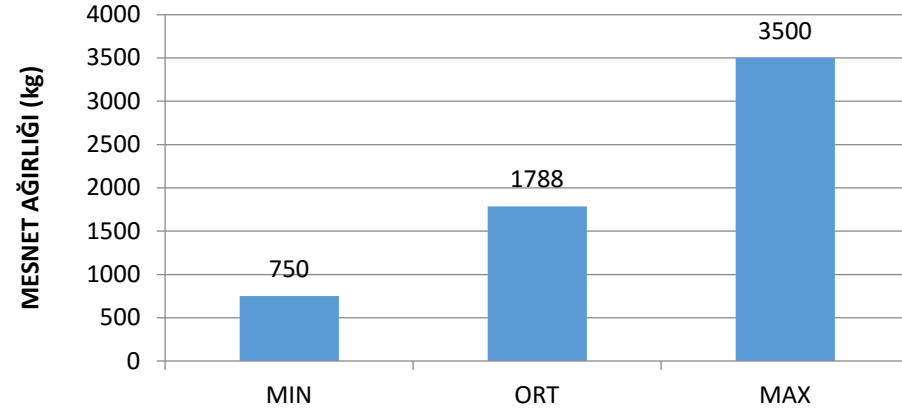


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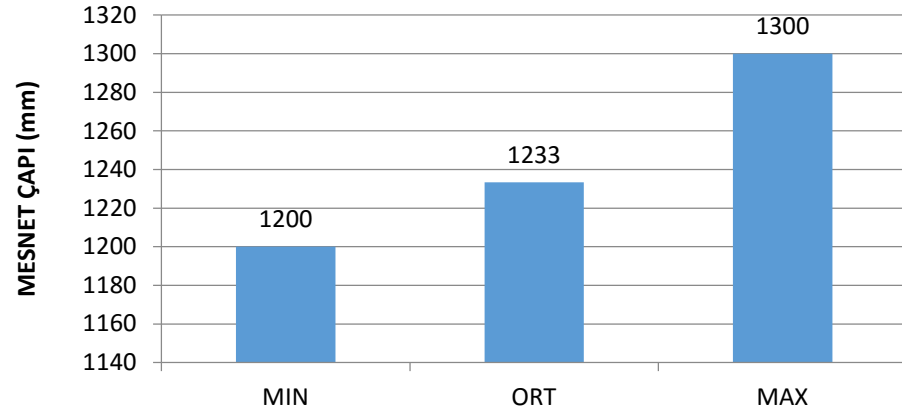
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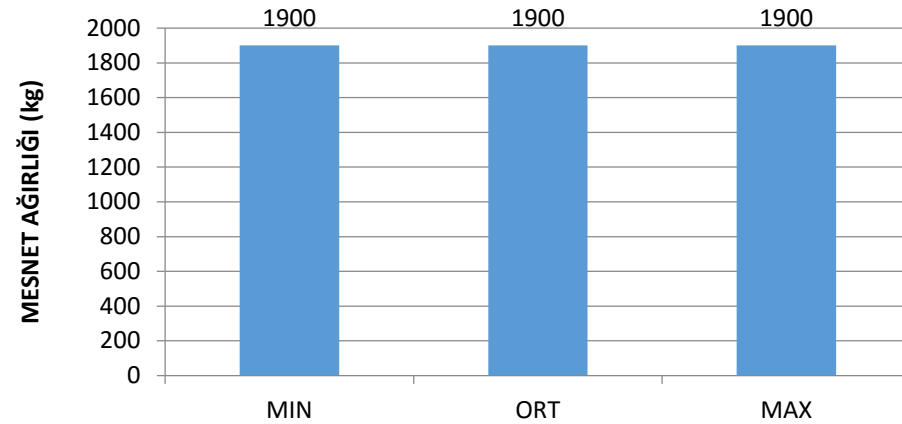
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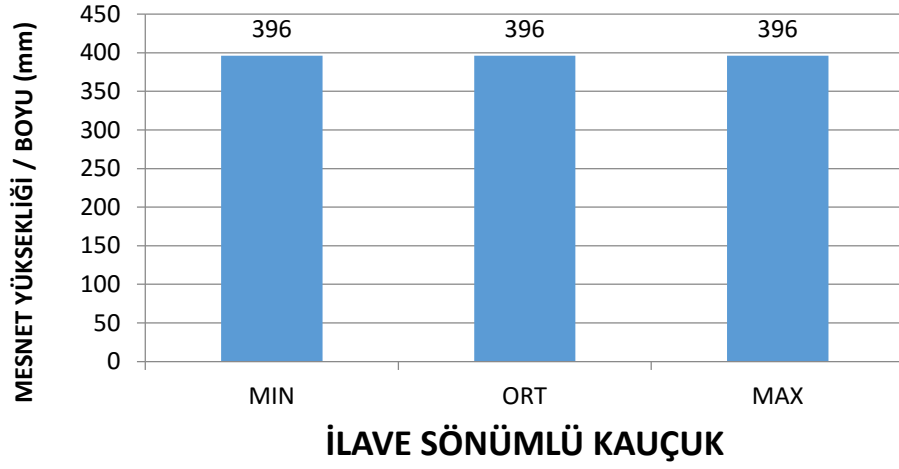
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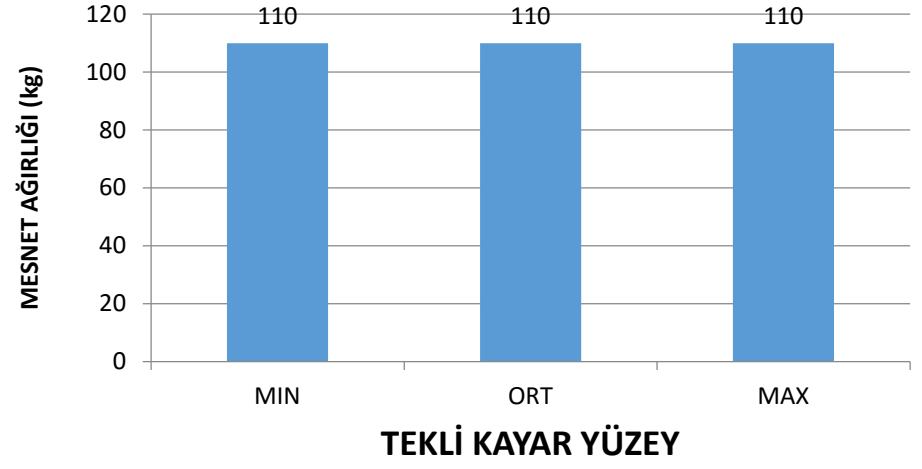


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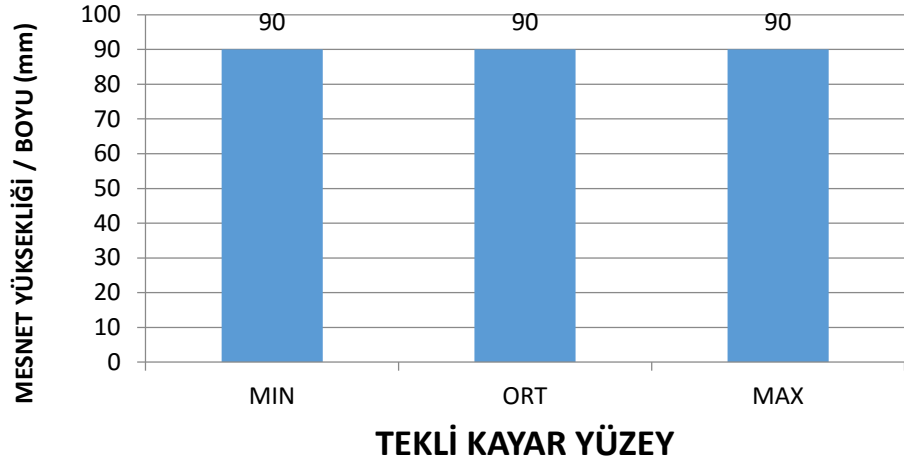
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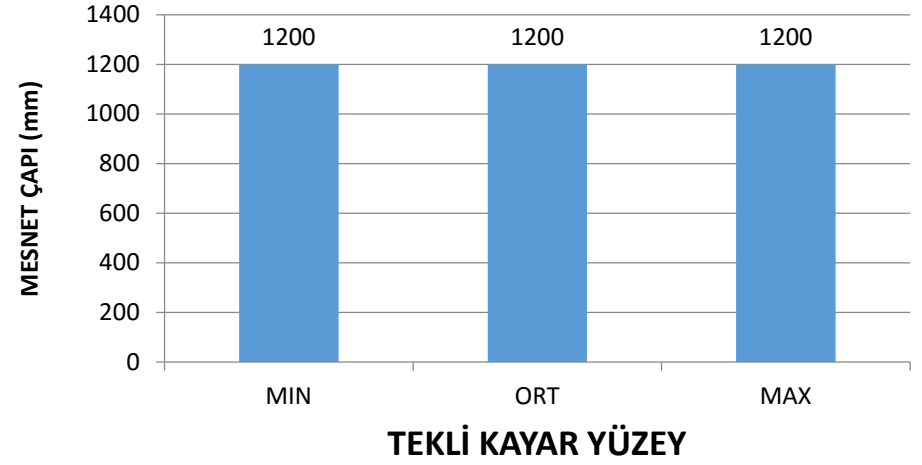
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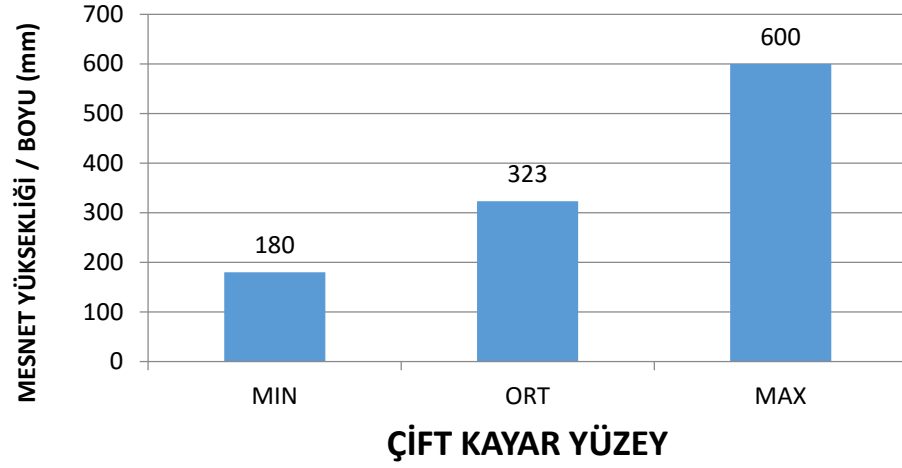
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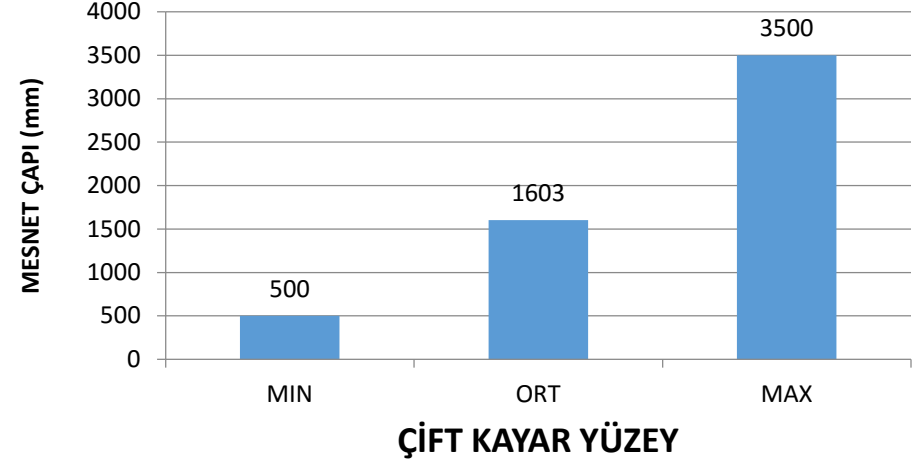
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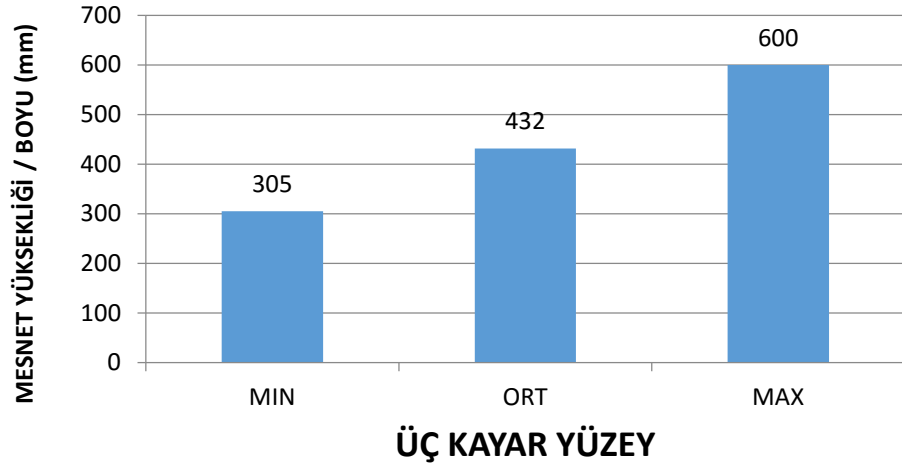
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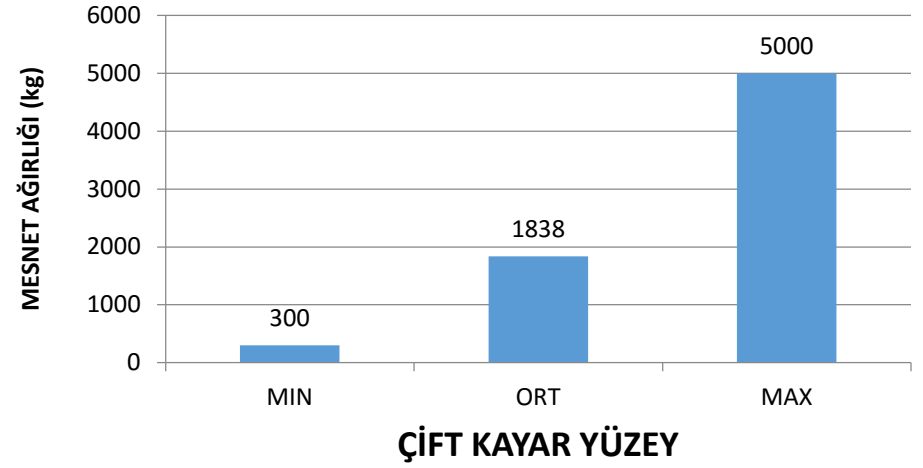
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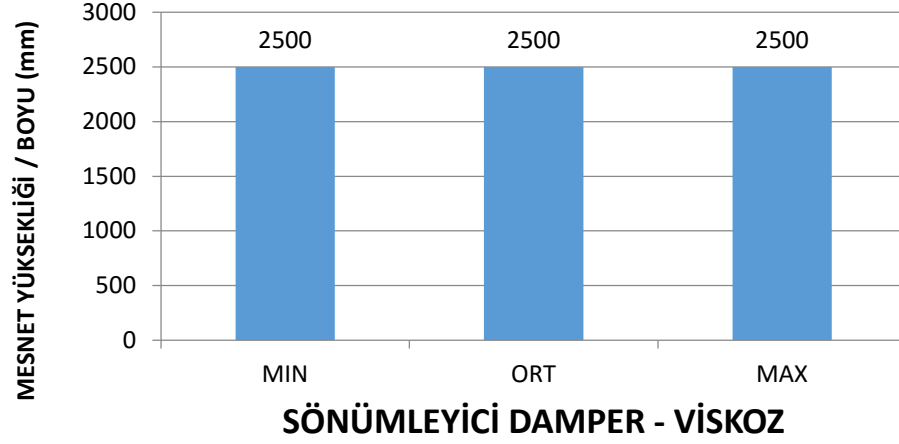
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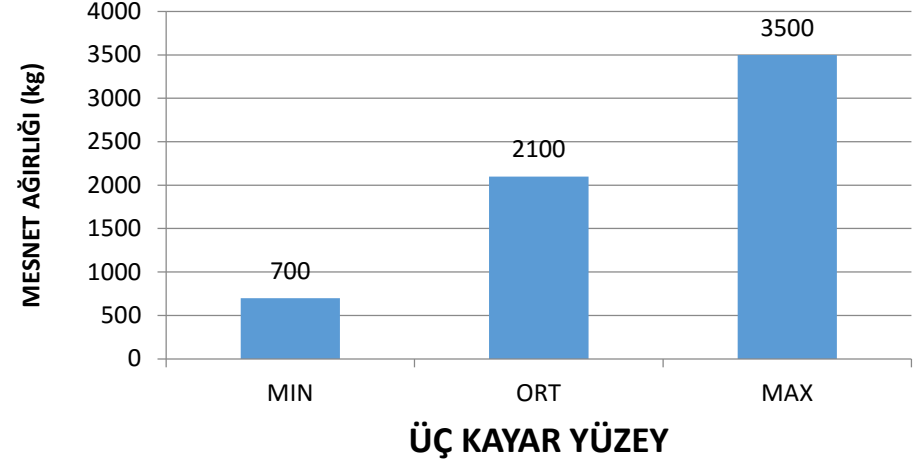
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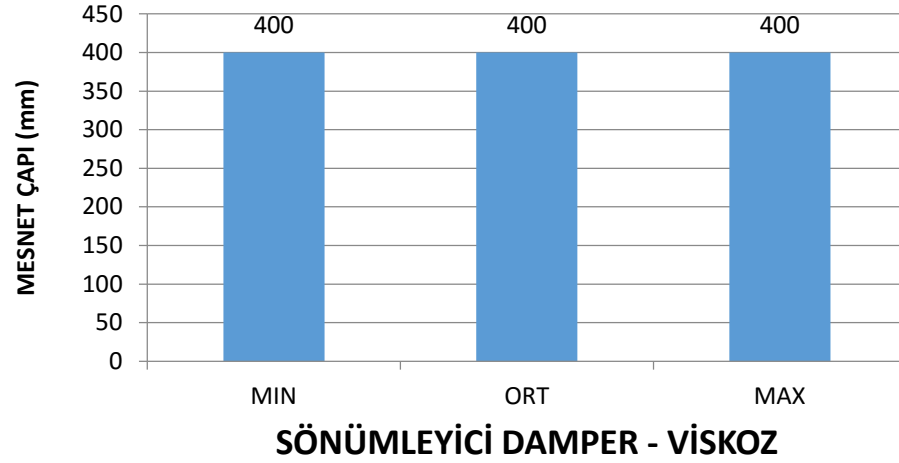
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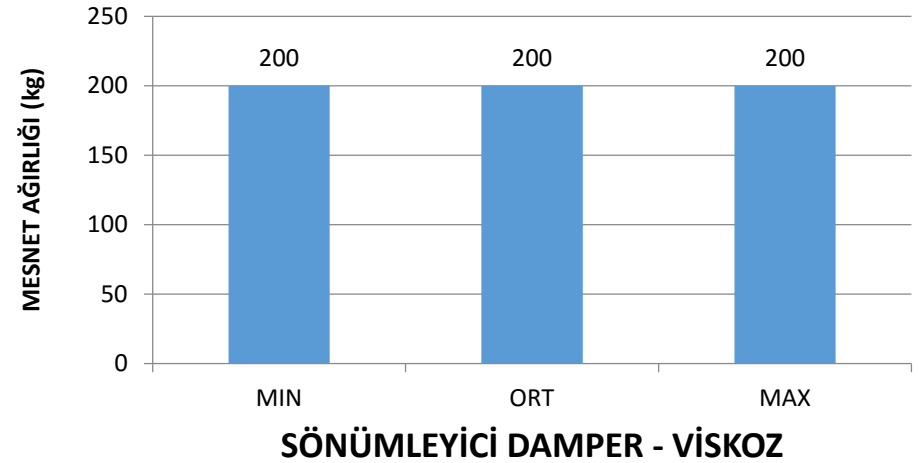
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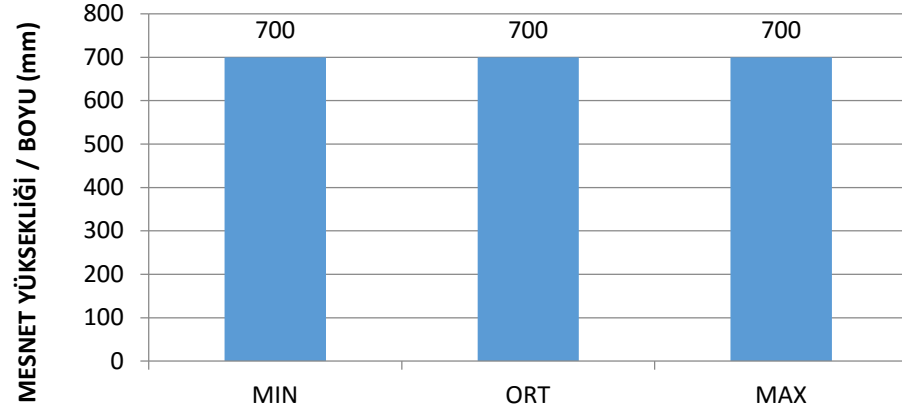
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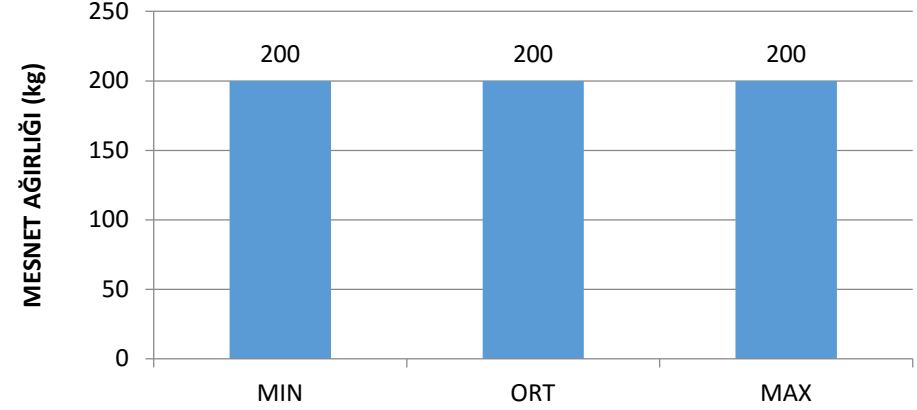


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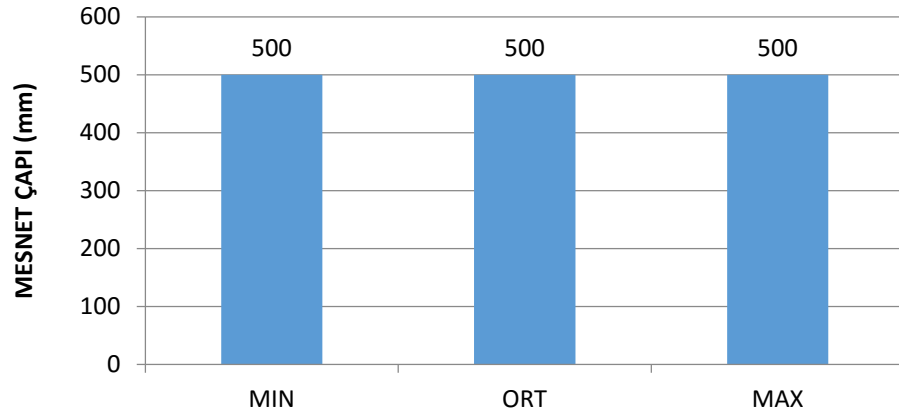
SÖNÜMLEYİCİ DAMPER - HİSTERETİK

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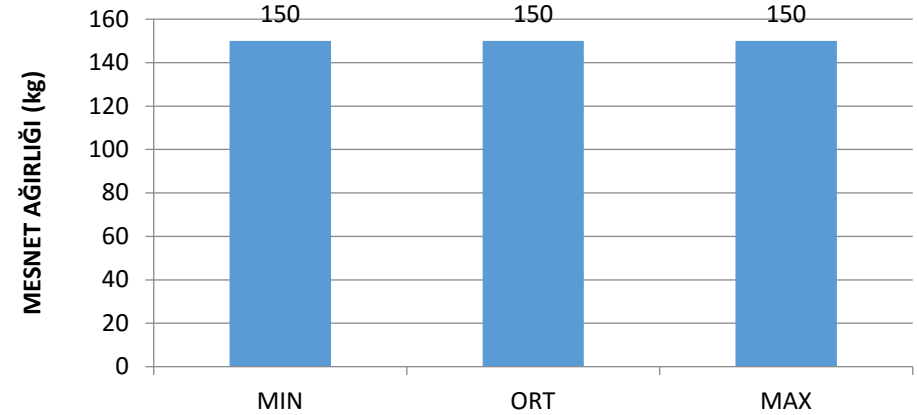
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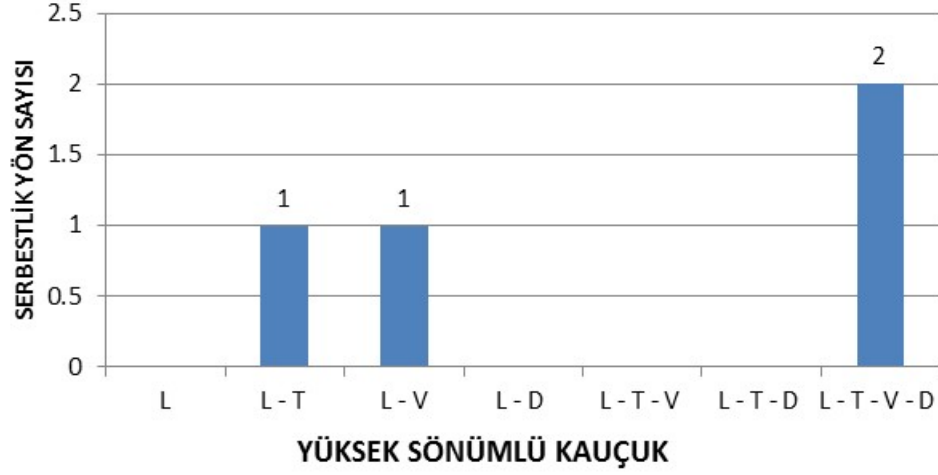
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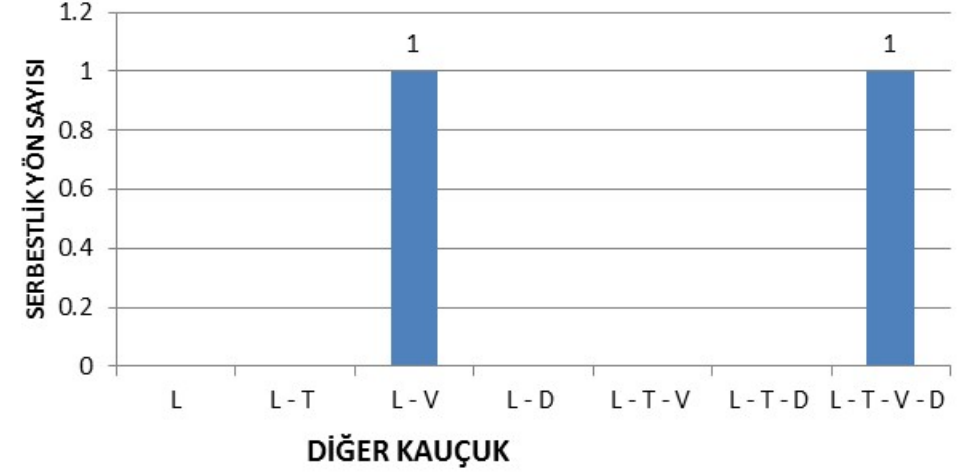


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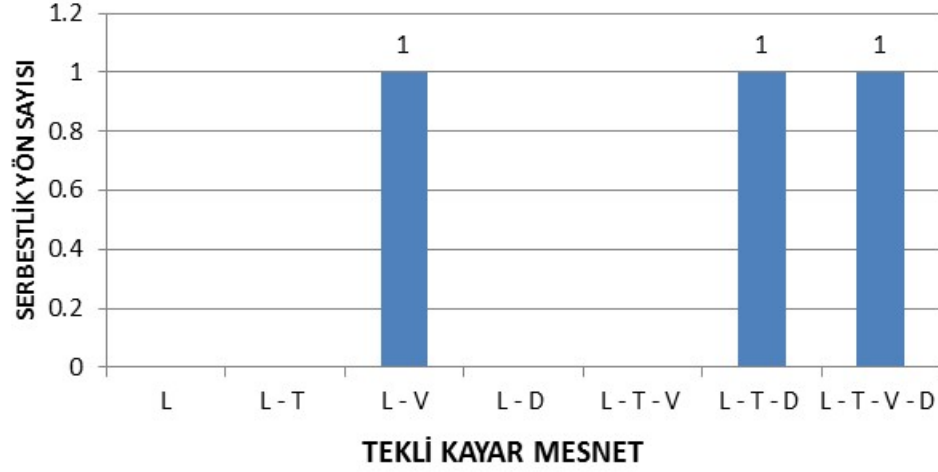
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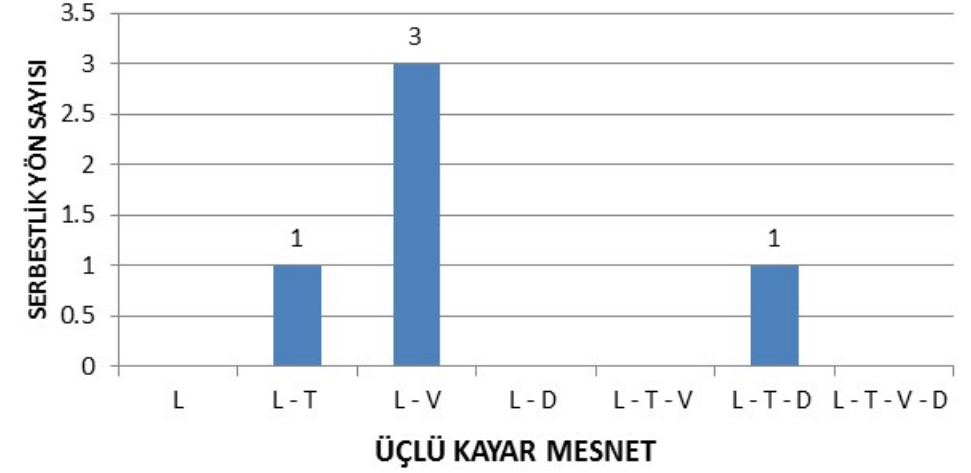
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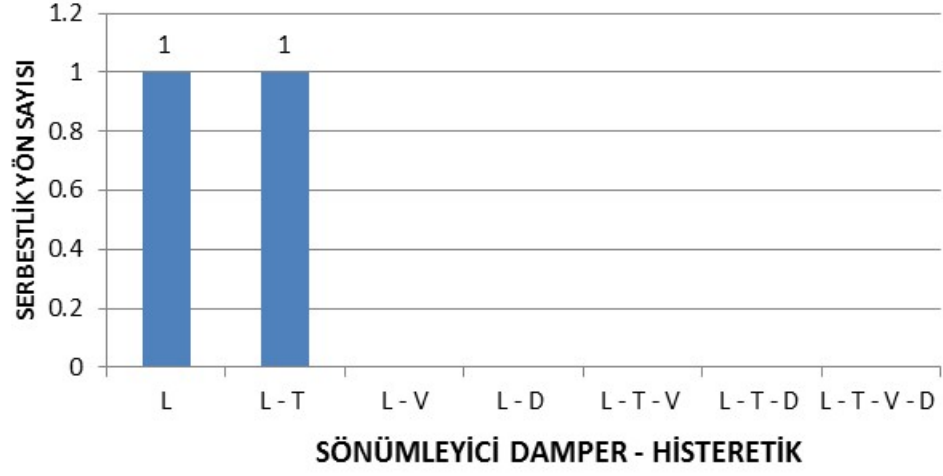
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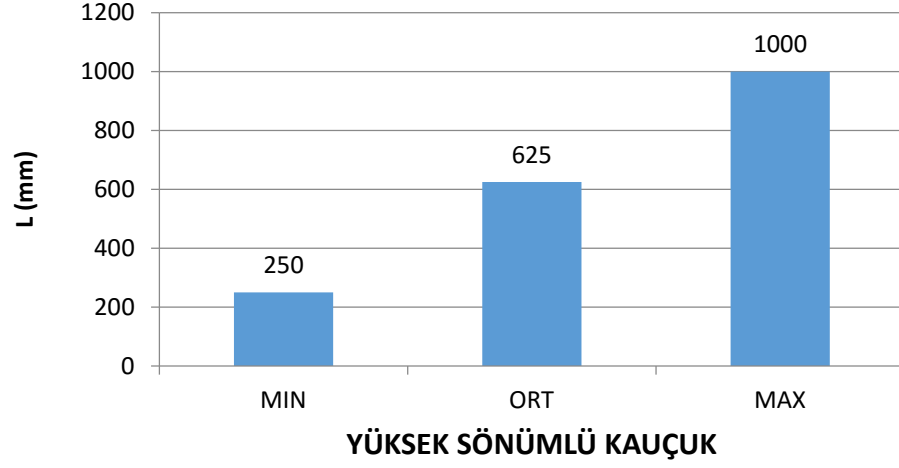
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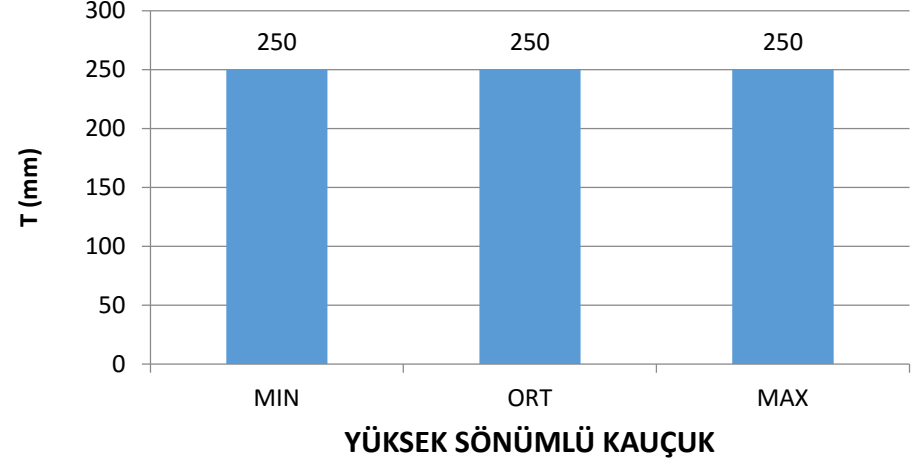
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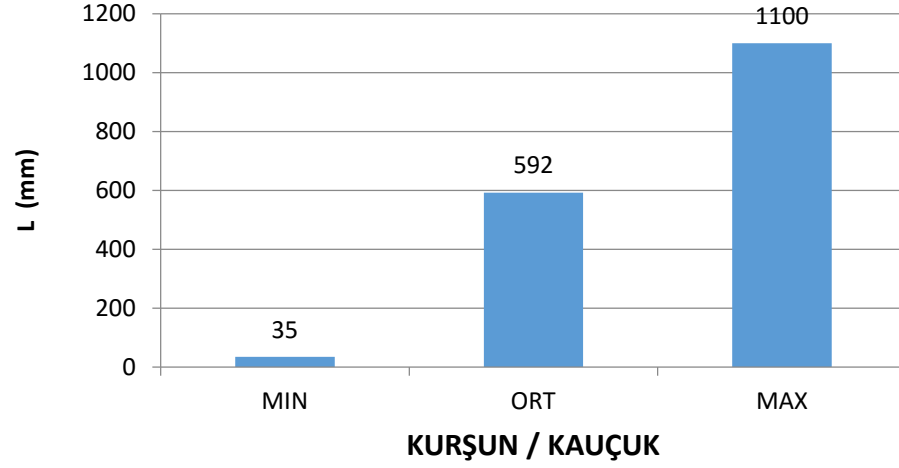
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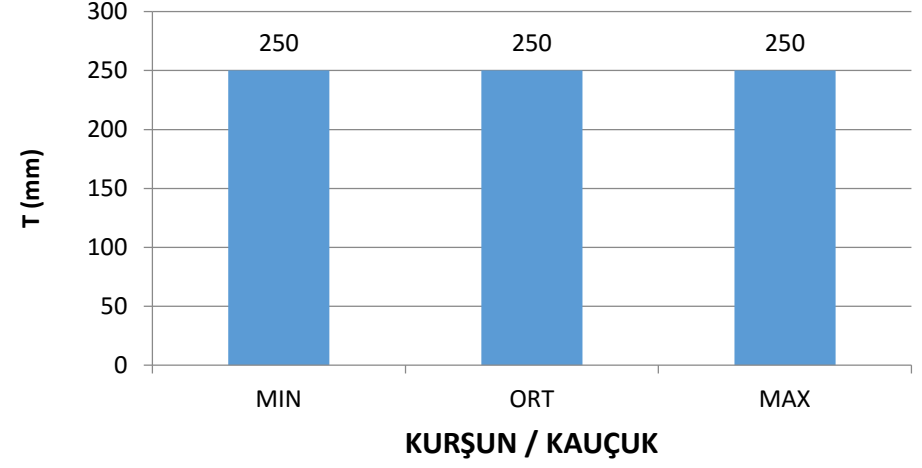
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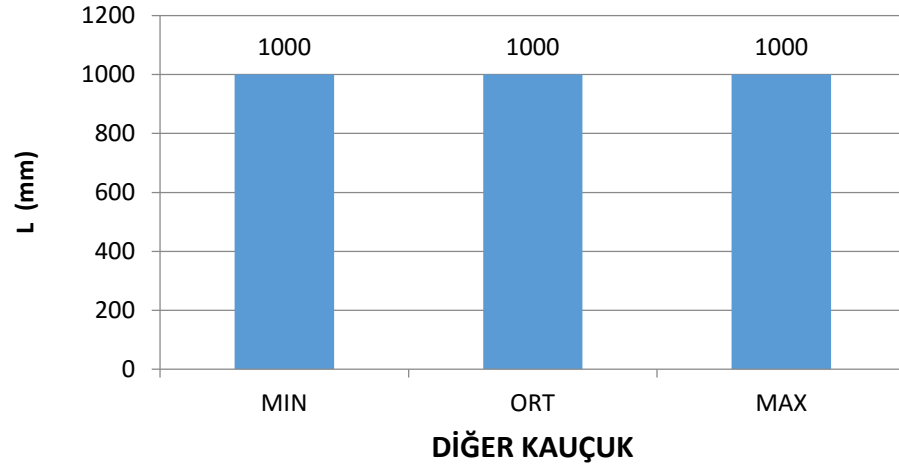
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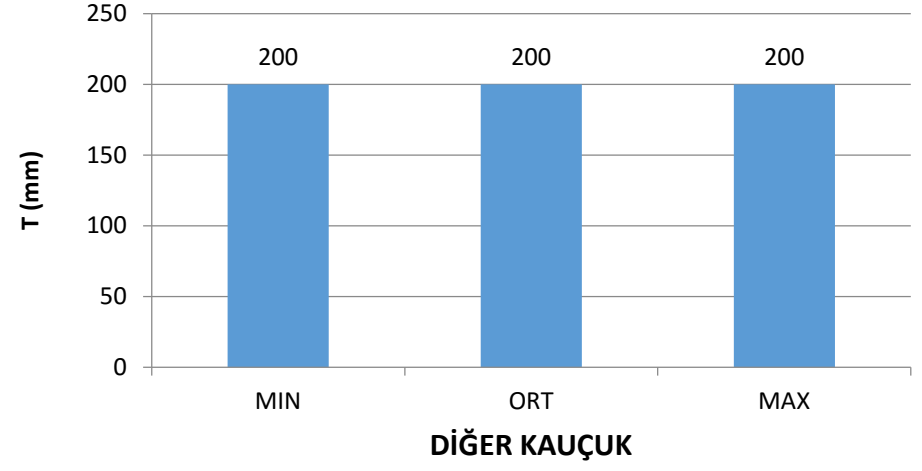
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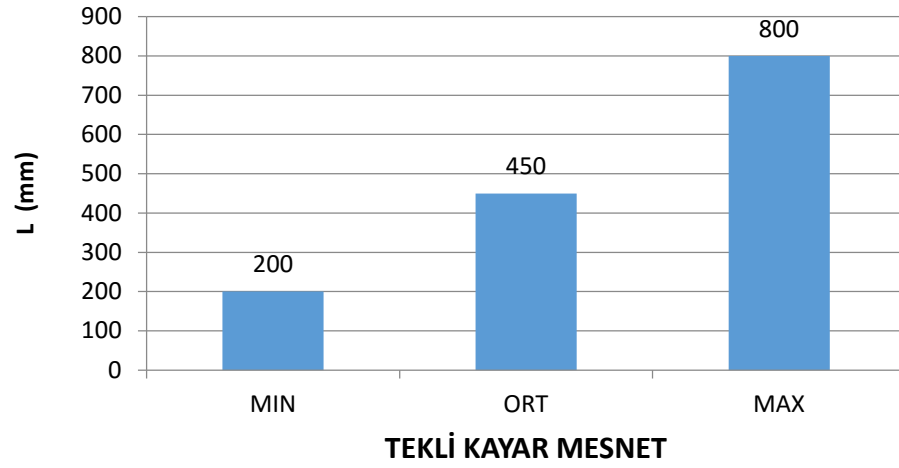
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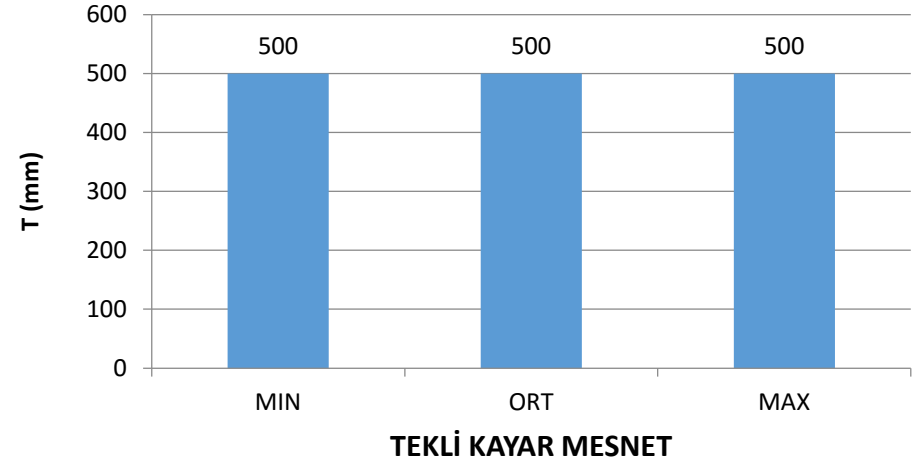
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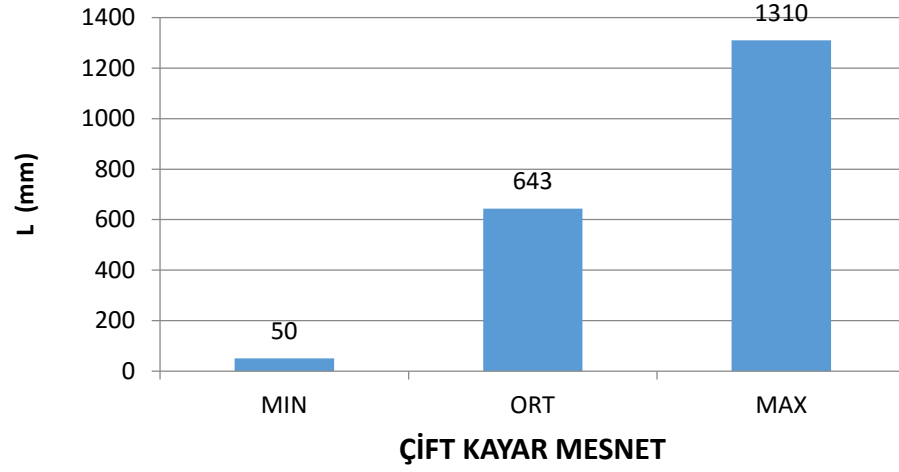
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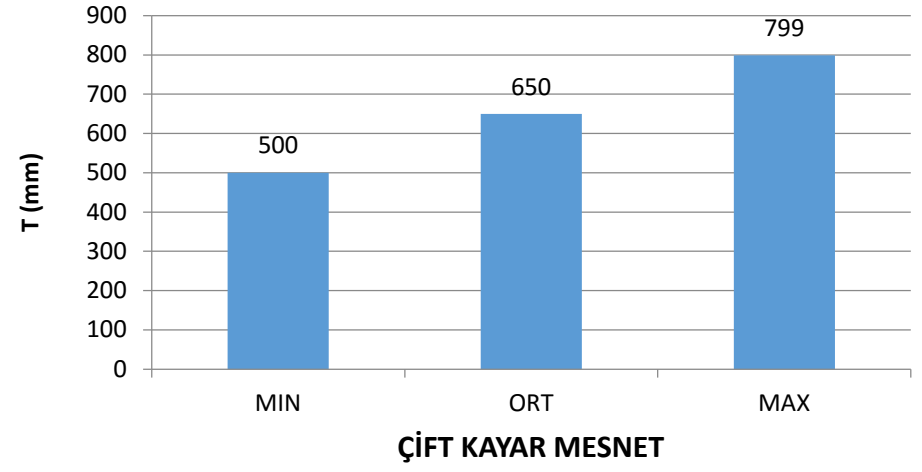
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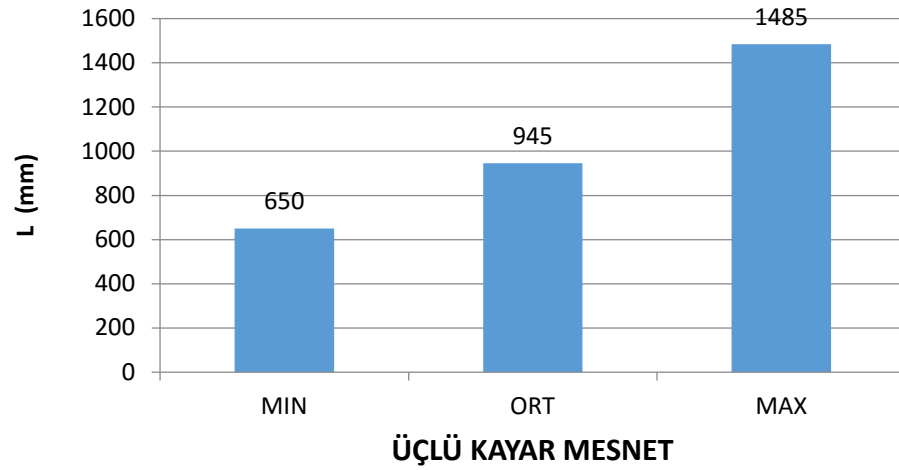
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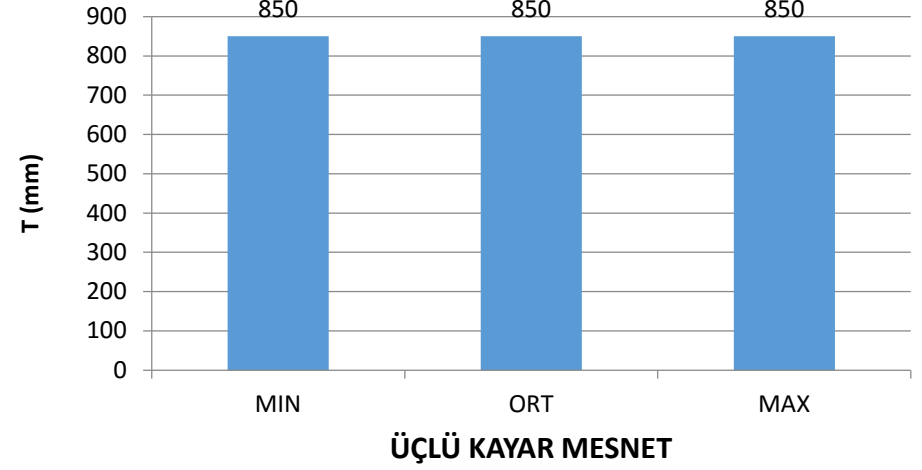
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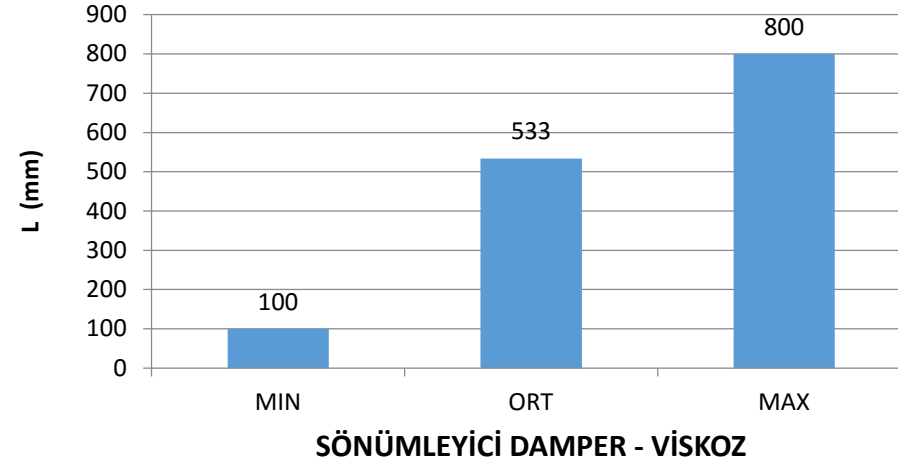
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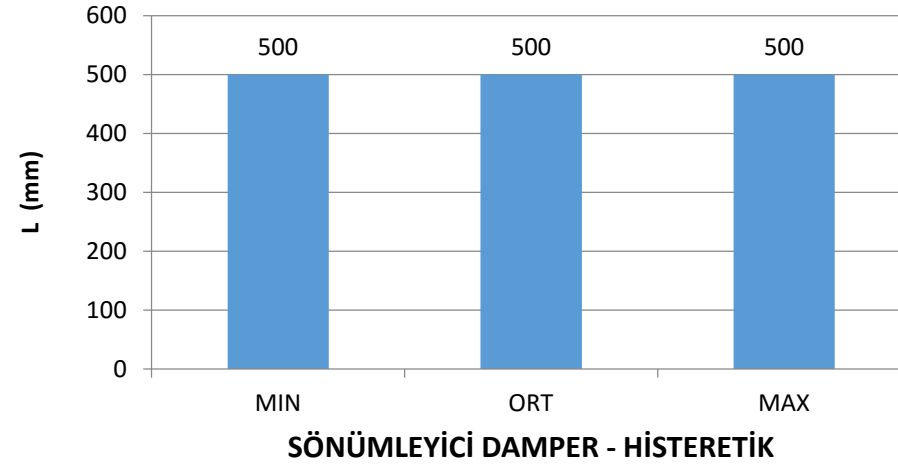
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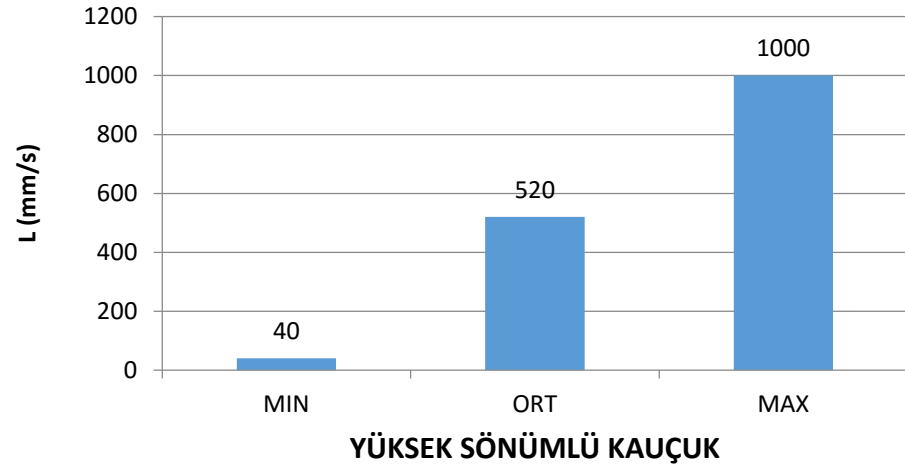
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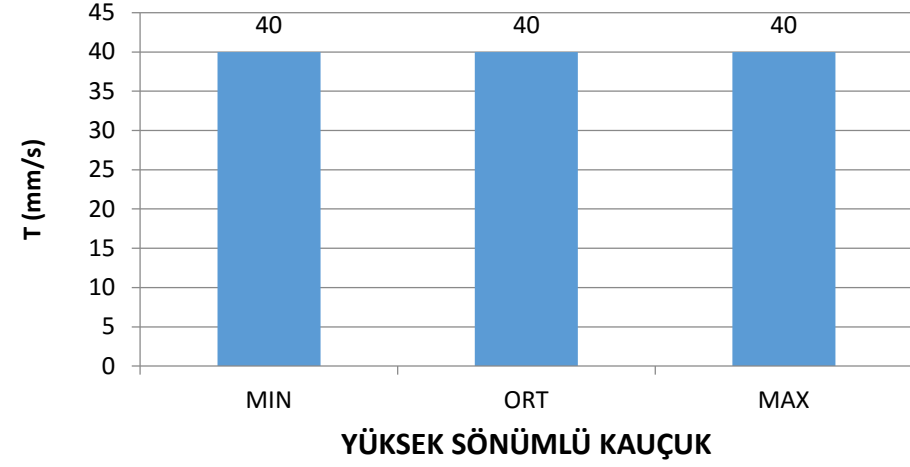
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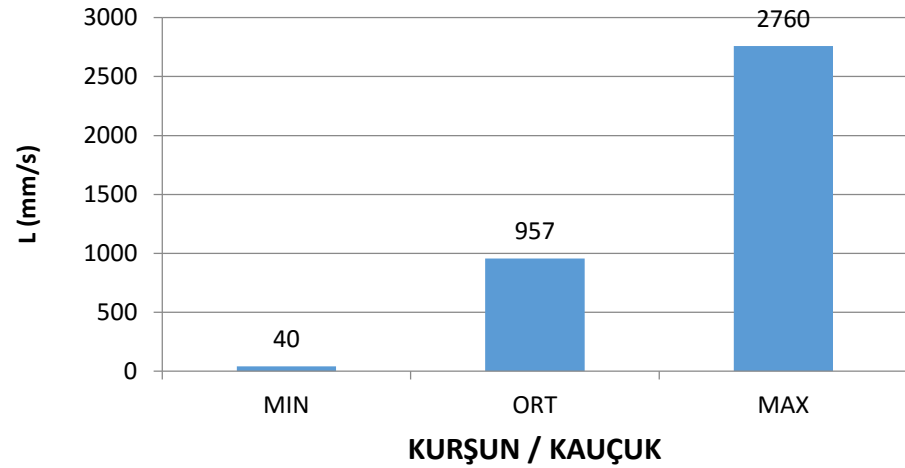
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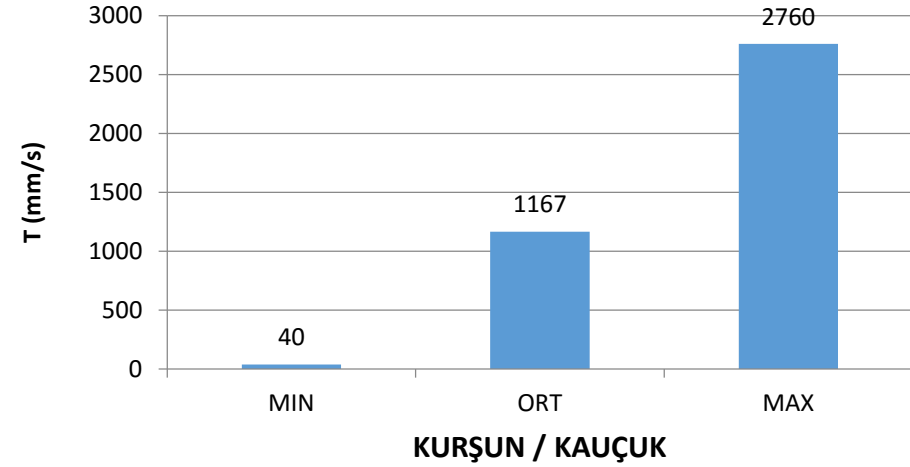
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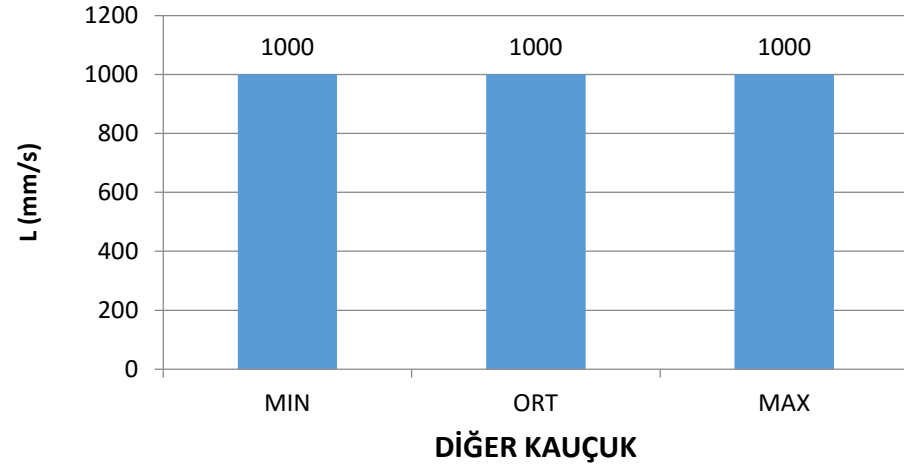
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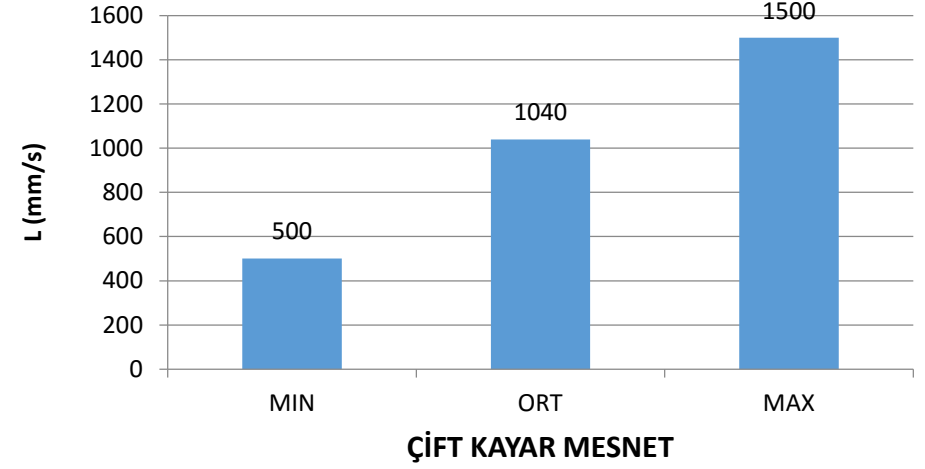
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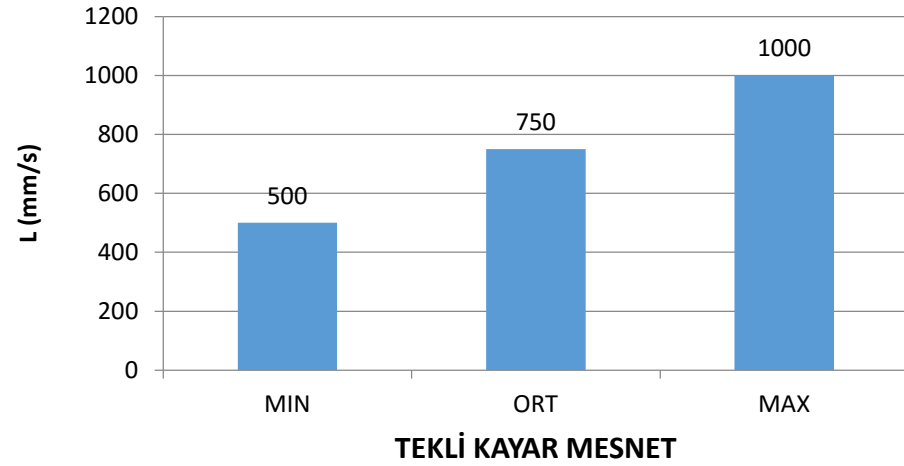
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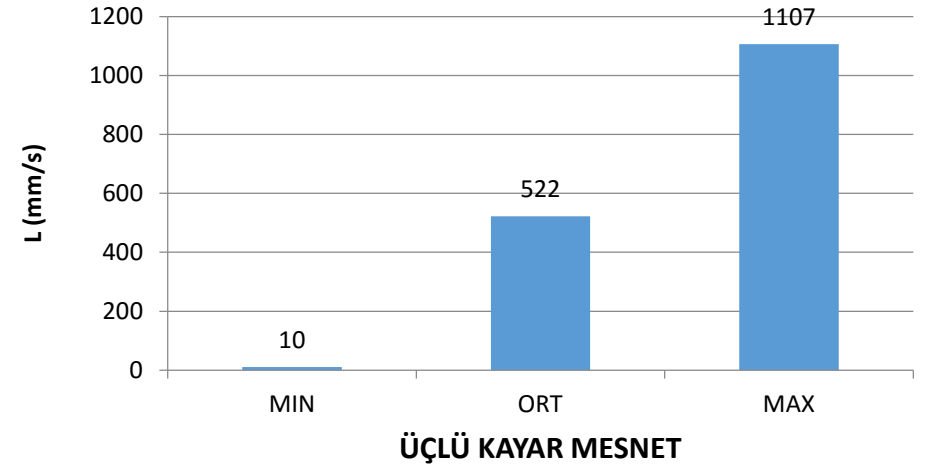
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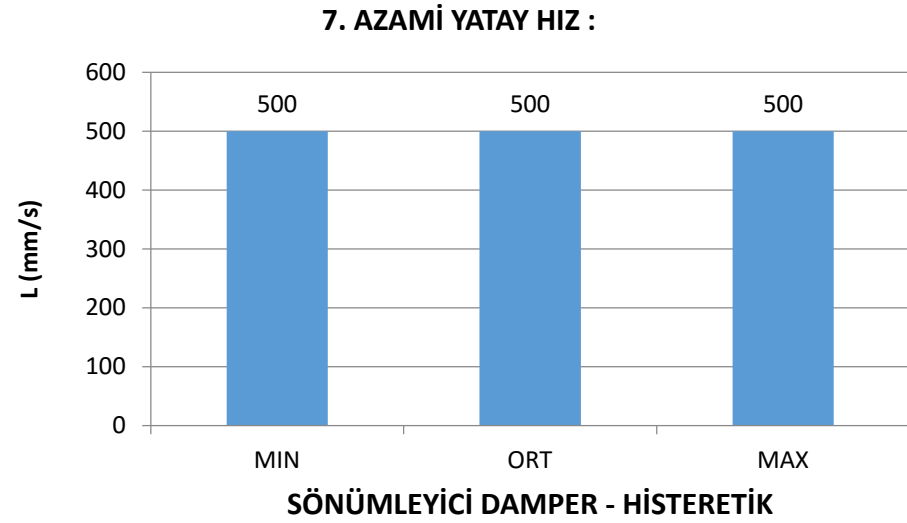
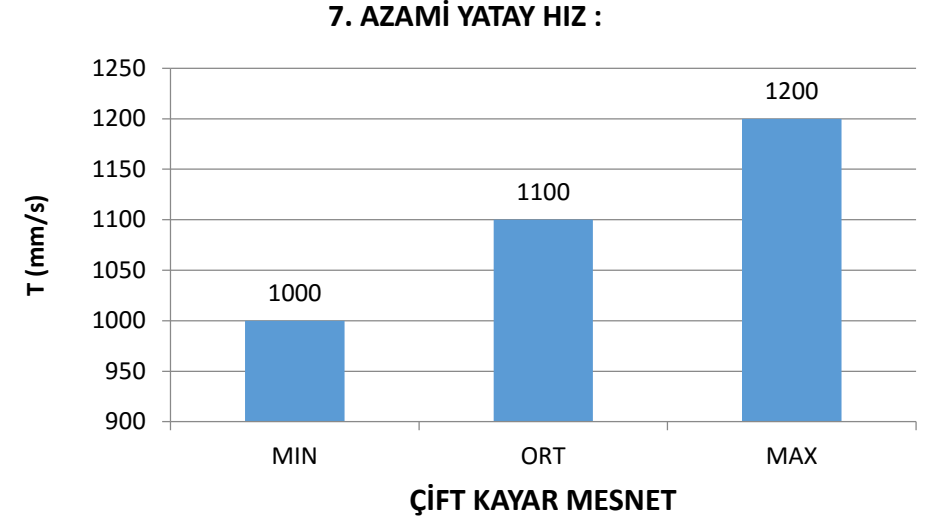
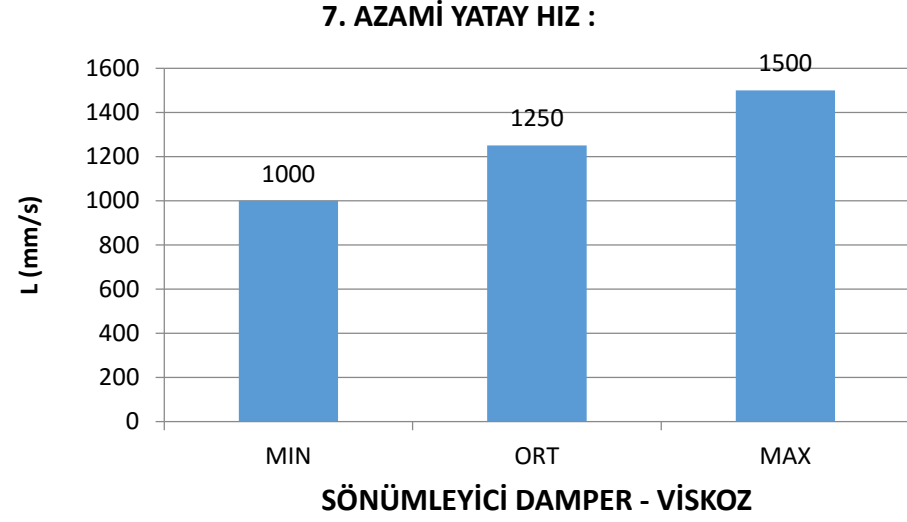


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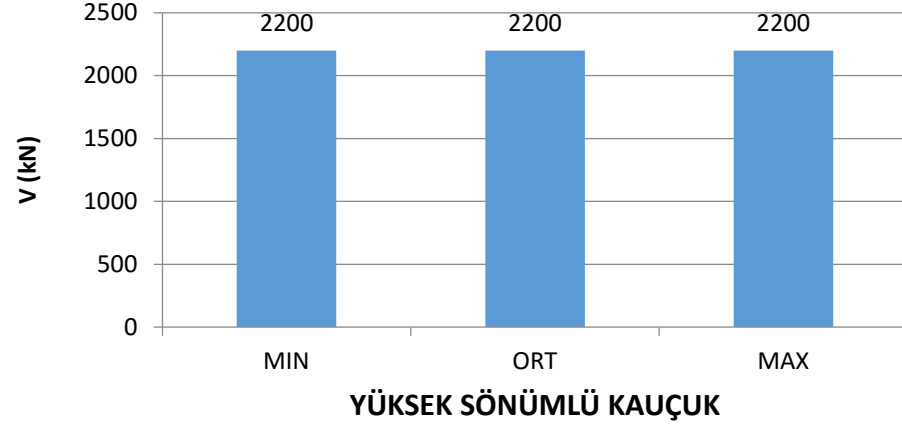


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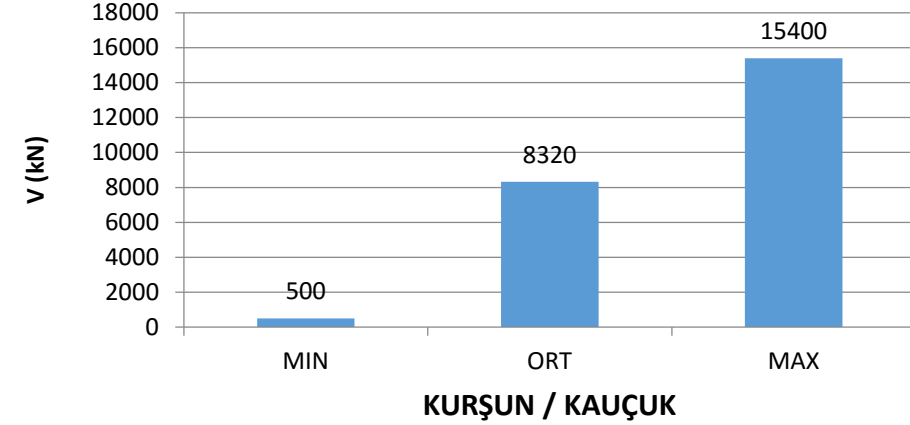




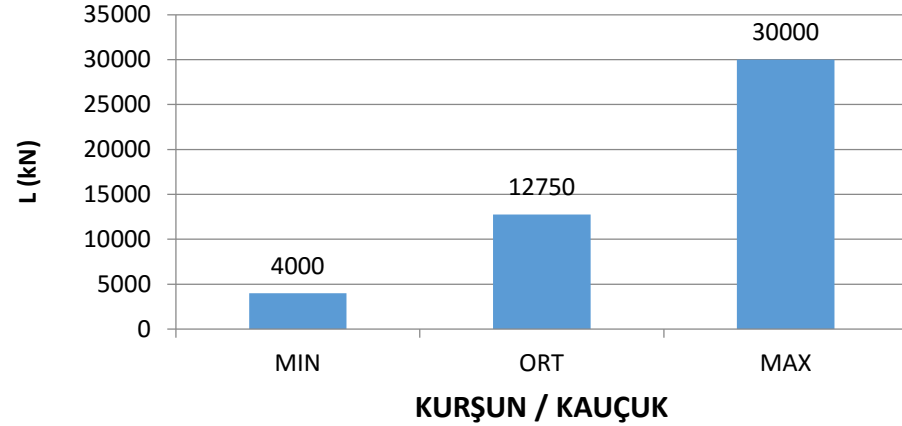
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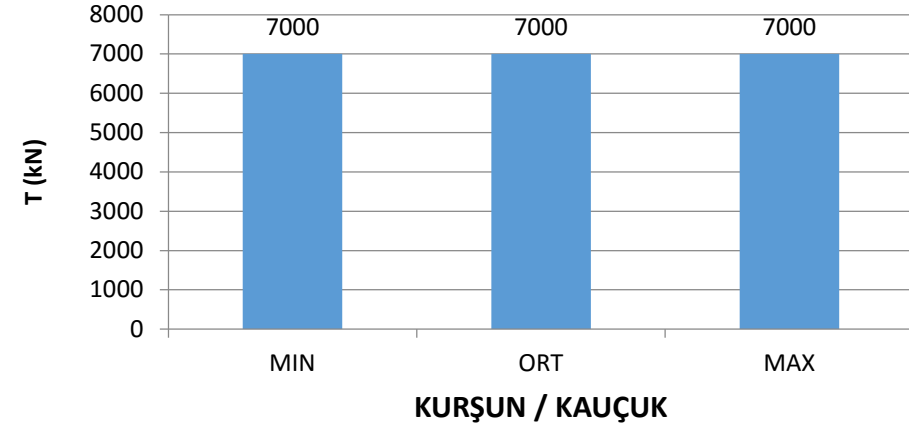
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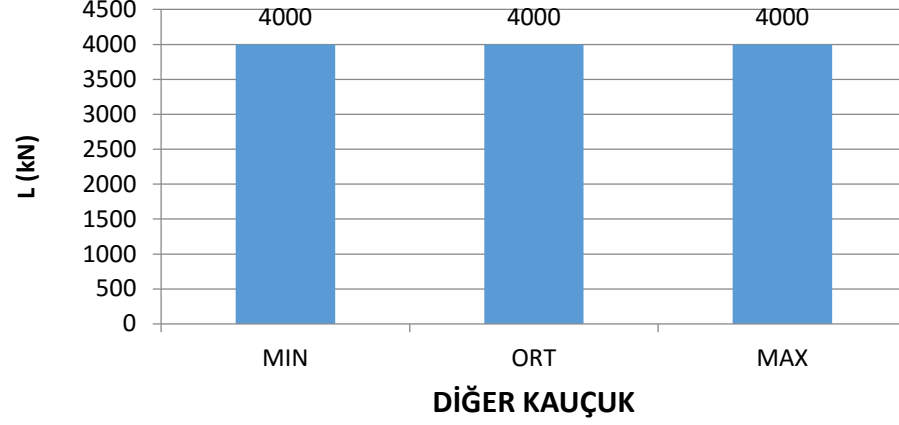
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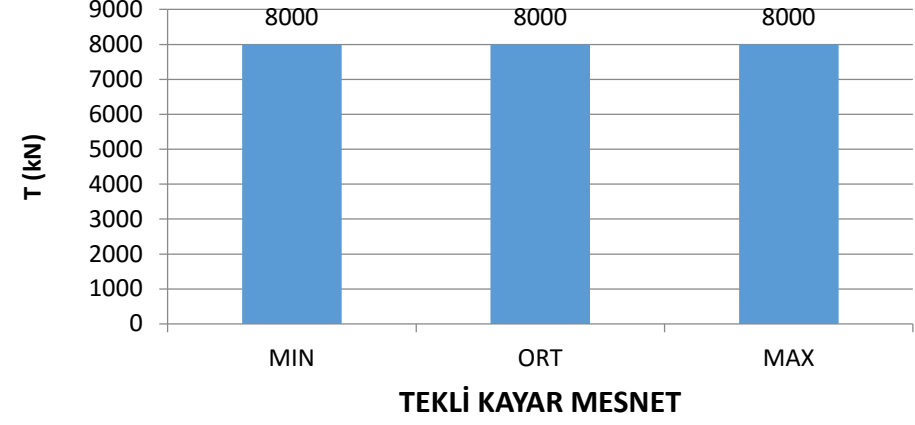
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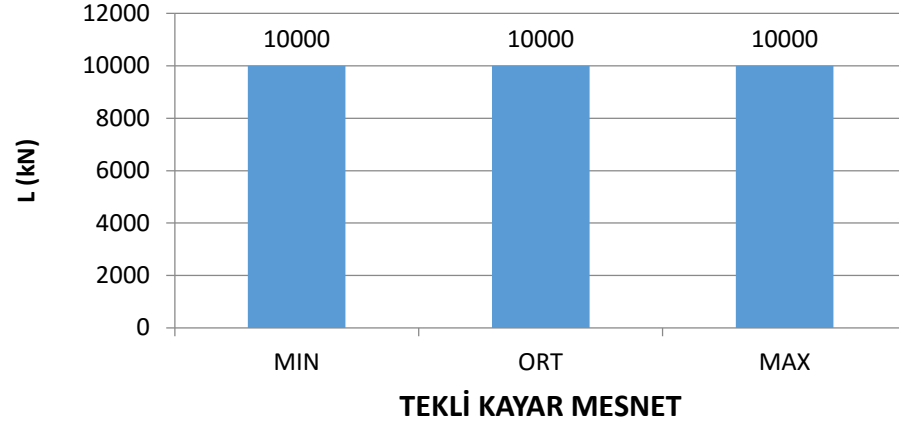
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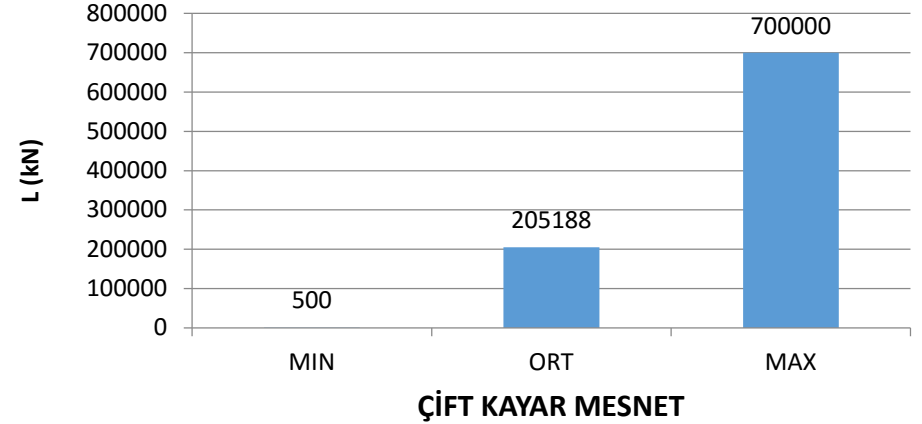
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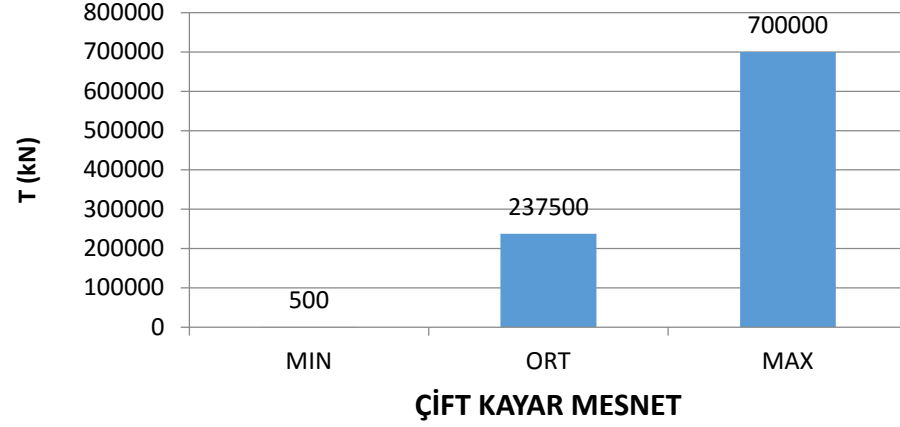
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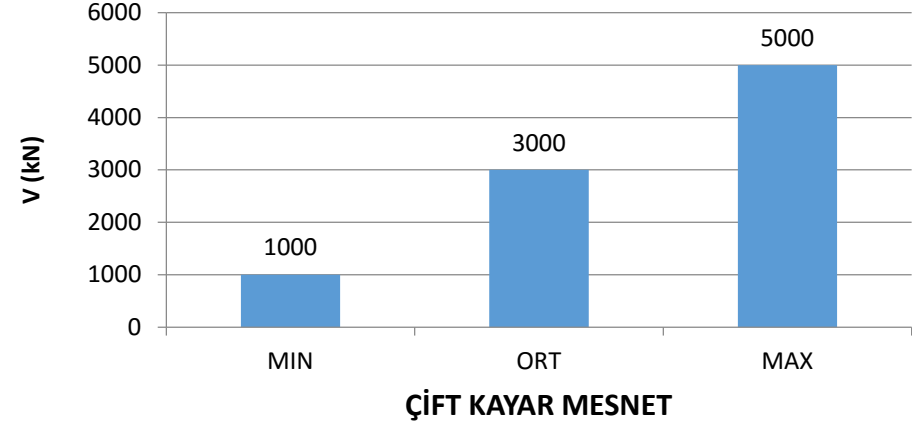
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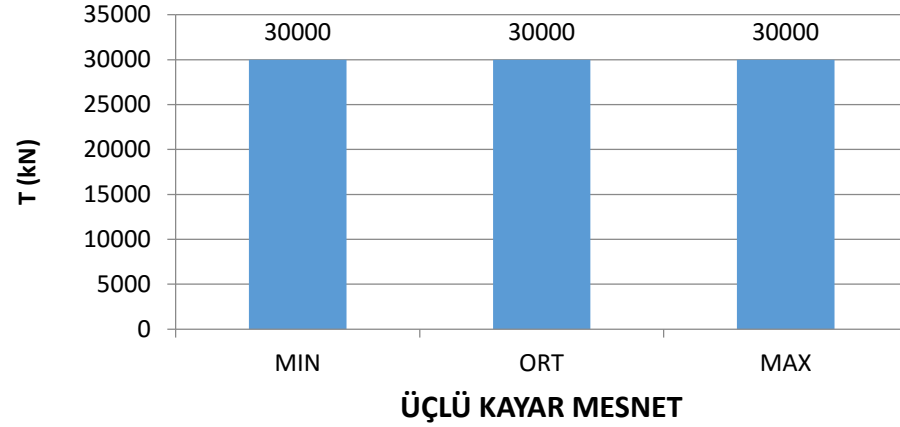
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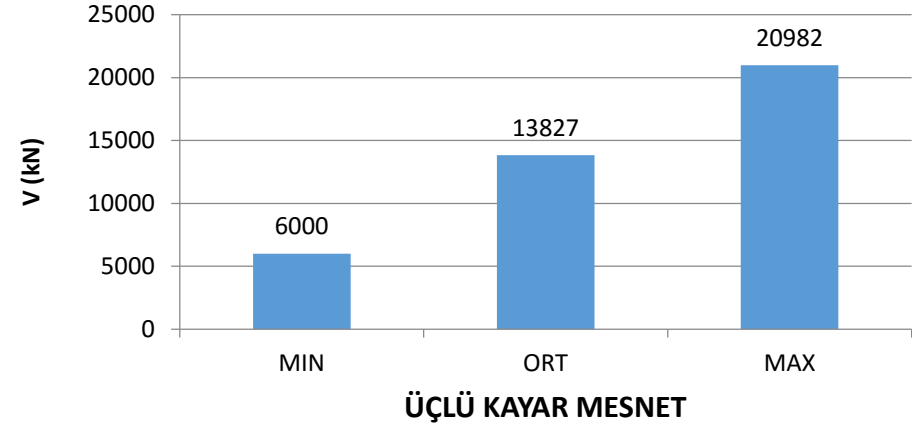
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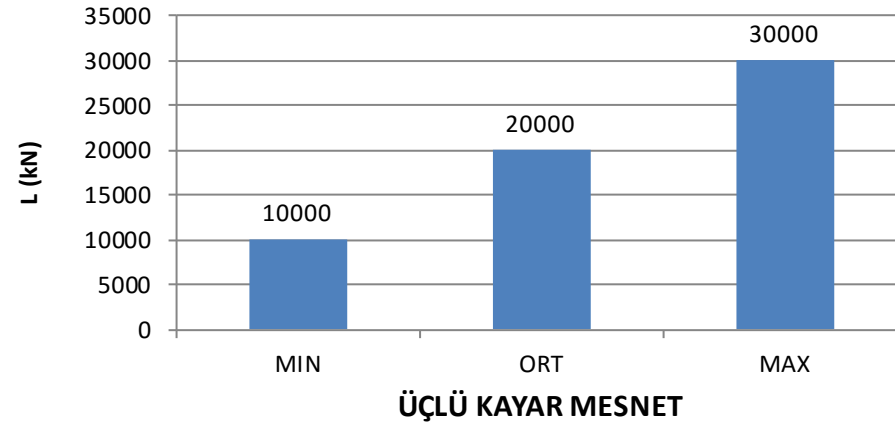
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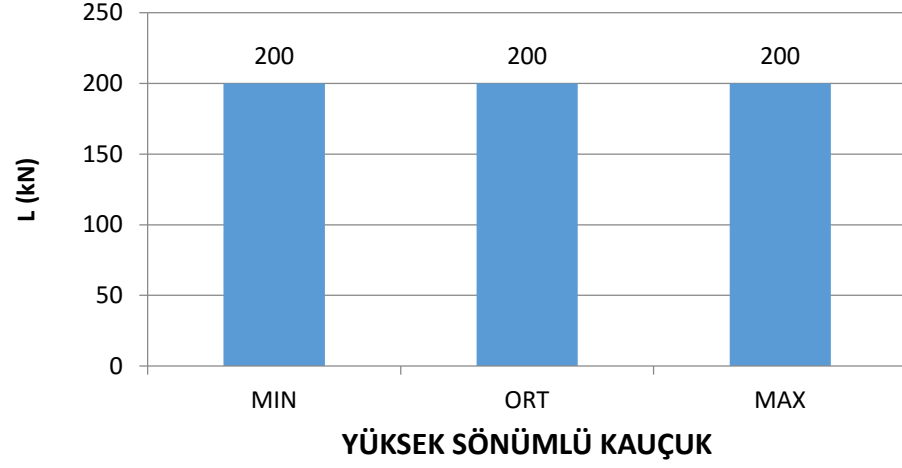
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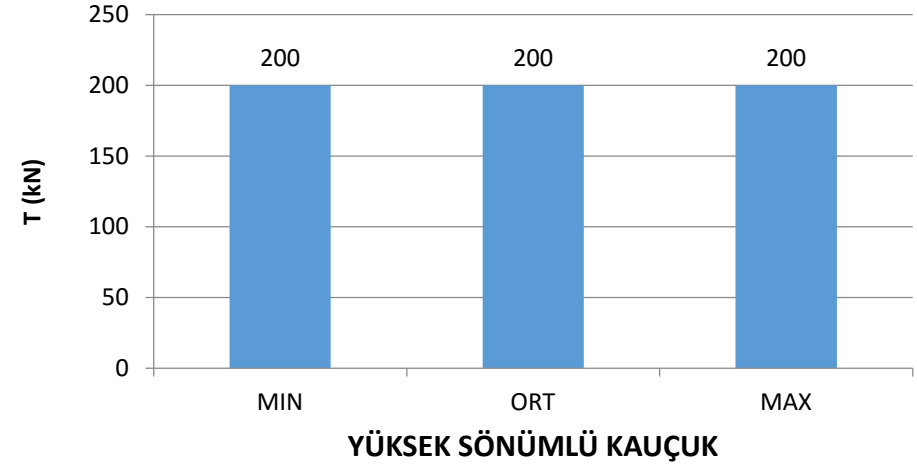
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YÜK :**



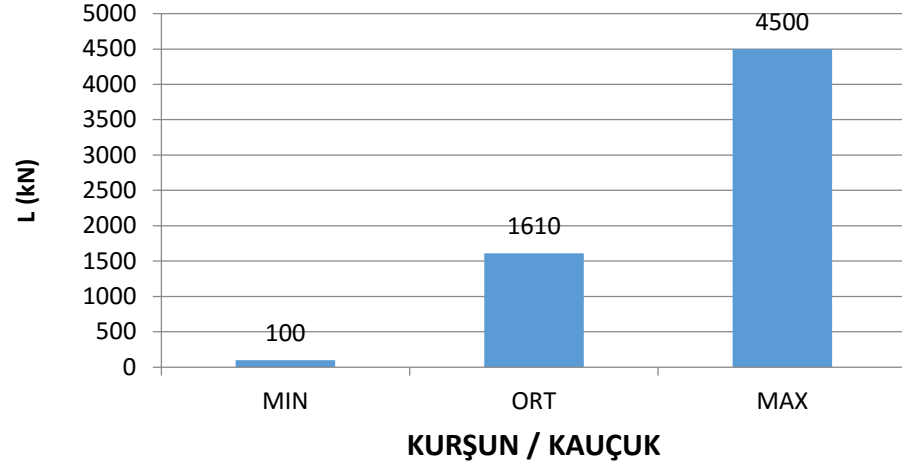
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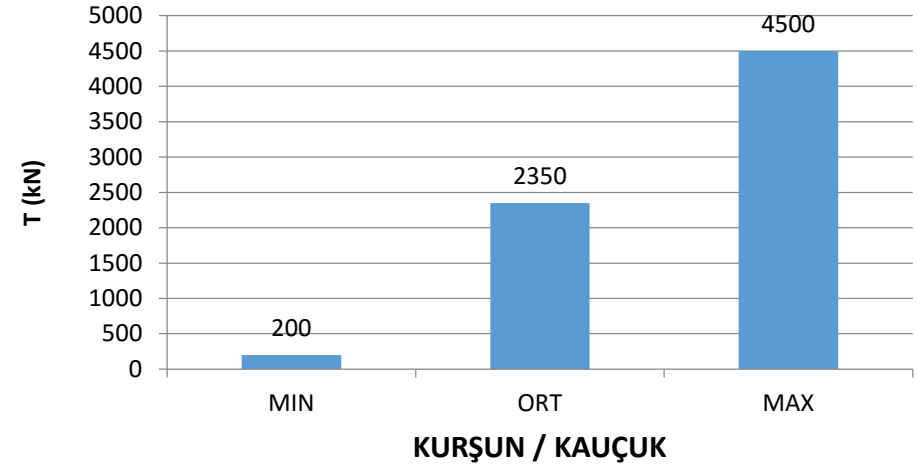
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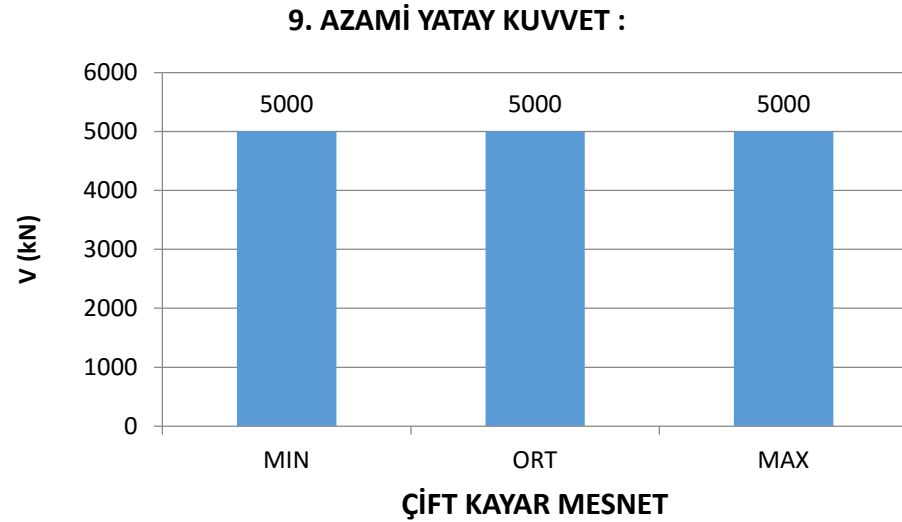
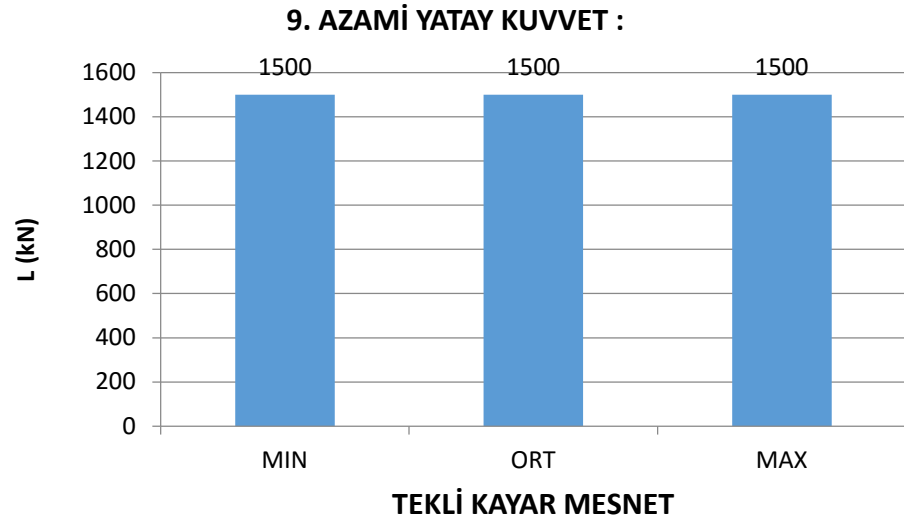
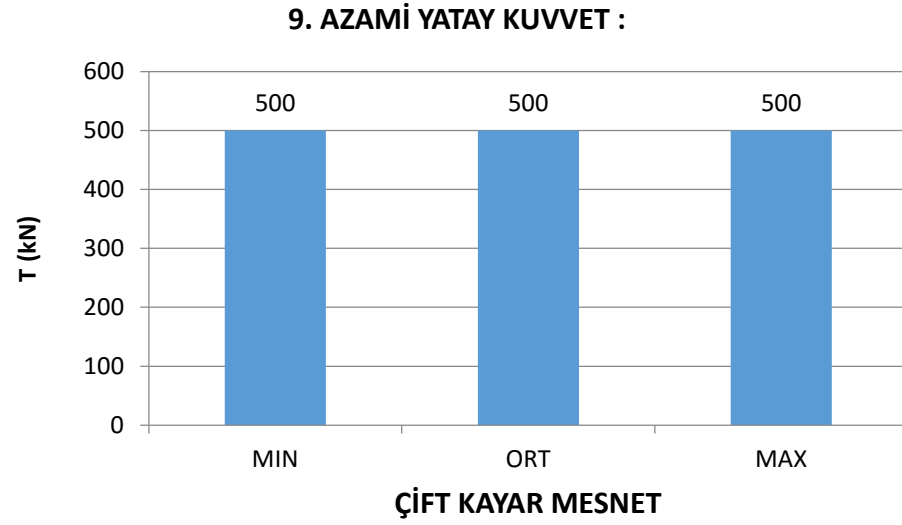
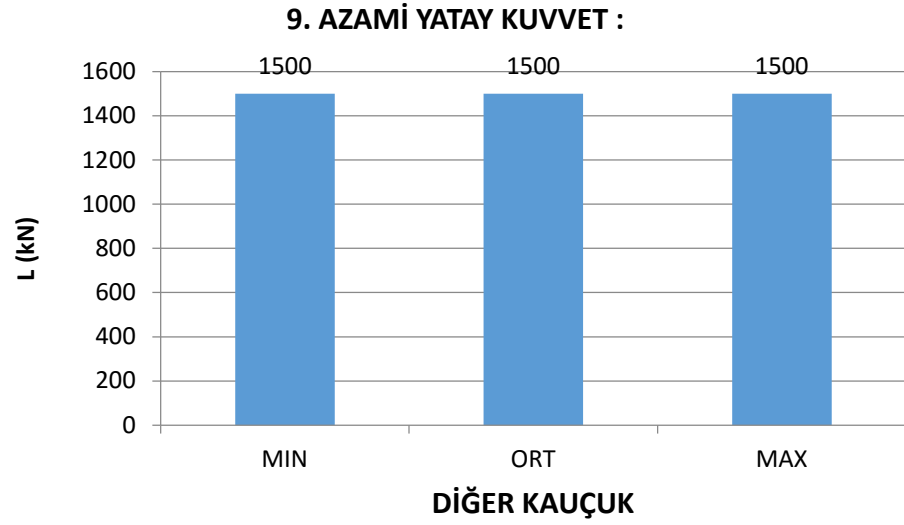


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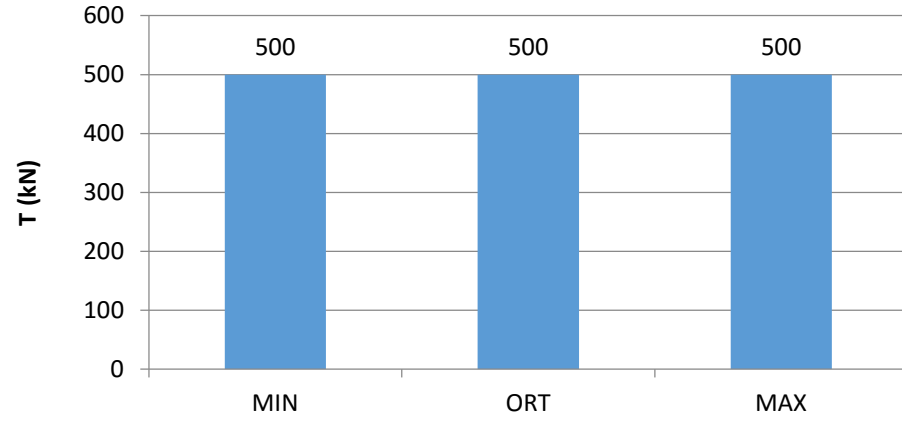


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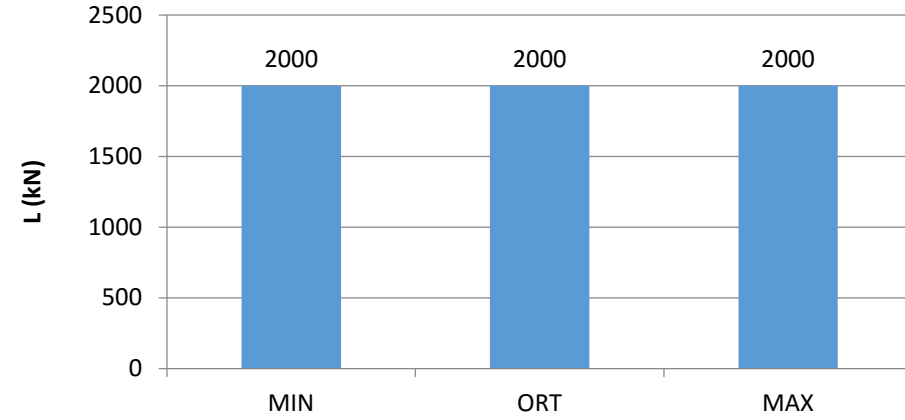


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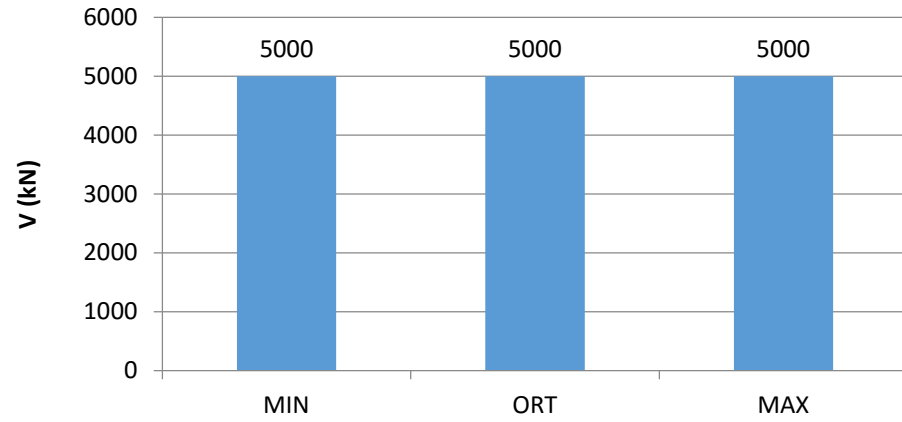
ÇİFT KAYAR MESNET

9. AZAMI YATAY KUVVET :



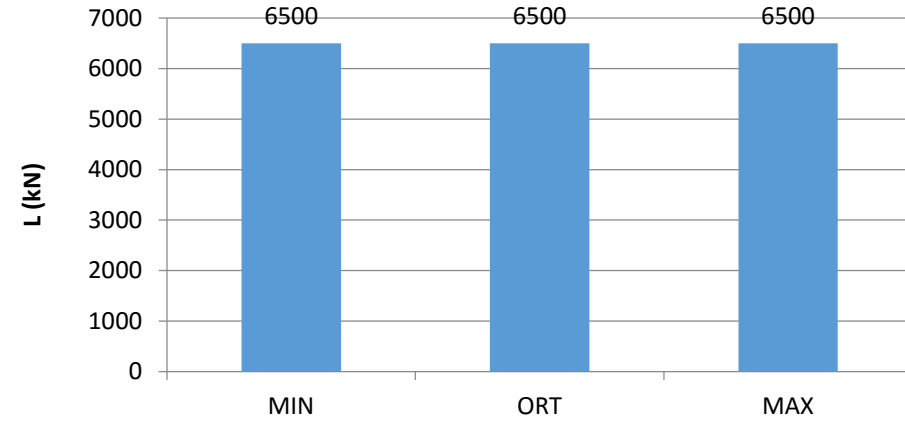
SÖNÜMLEYİCİ DAMPER - VİSKOZ

9. AZAMI YATAY KUVVET :



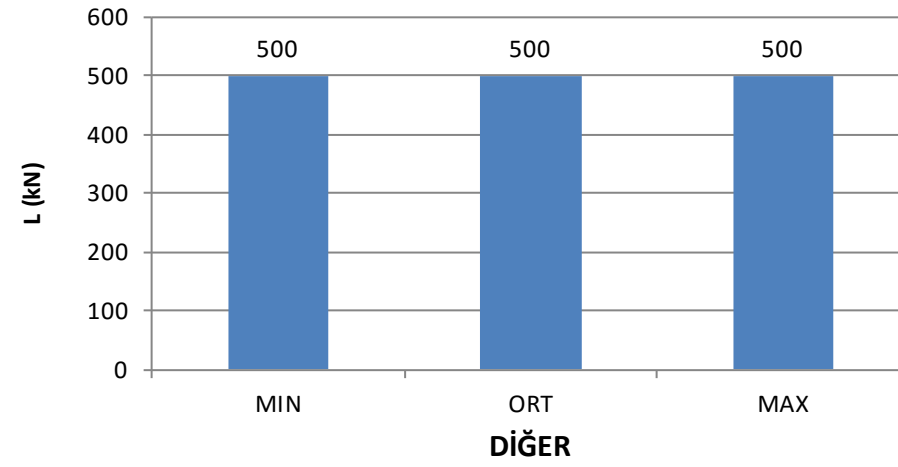
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9. AZAMI YATAY KUVVET :

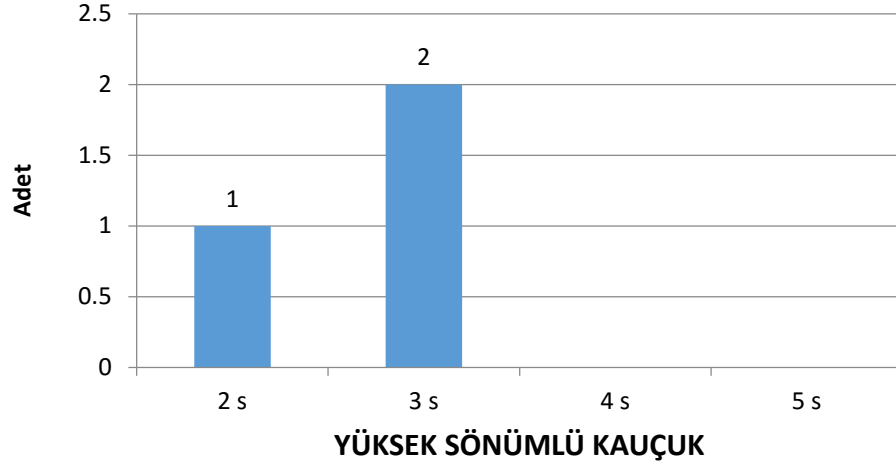


SÖNÜMLEYİCİ DAMPER - HİSTERETİK

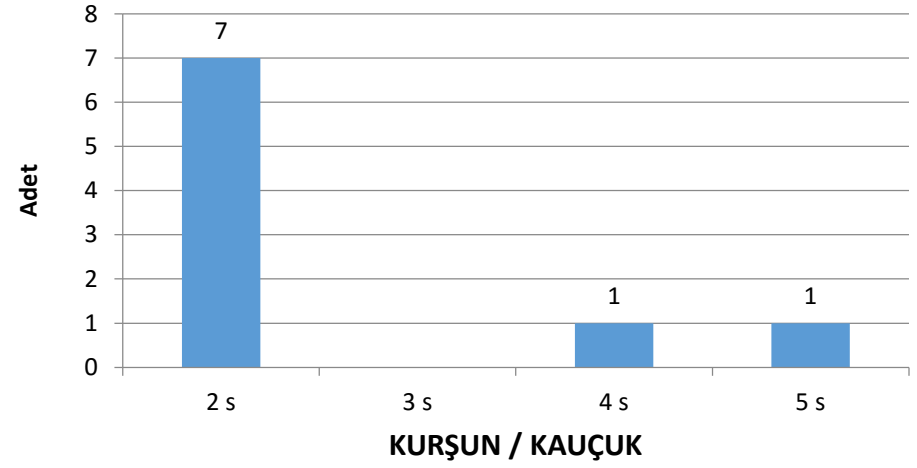
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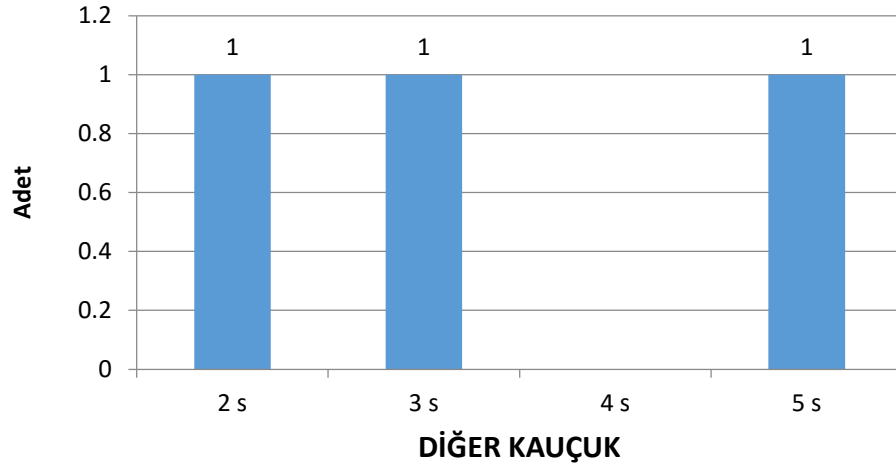
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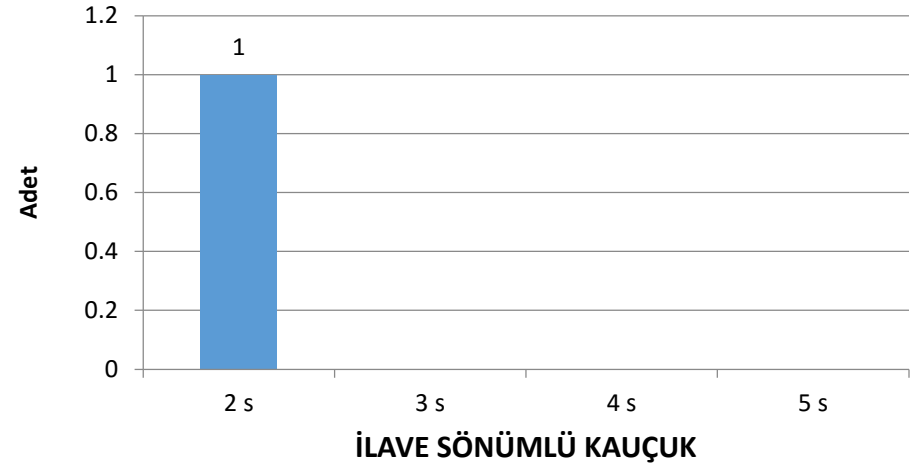
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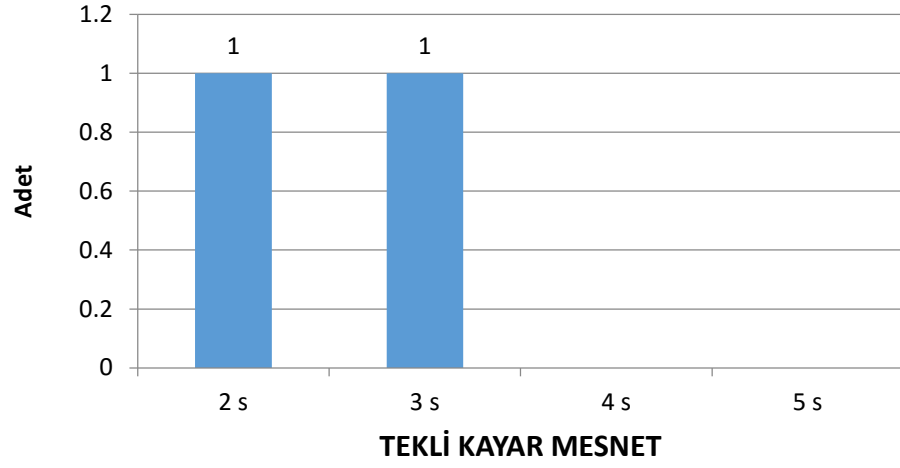
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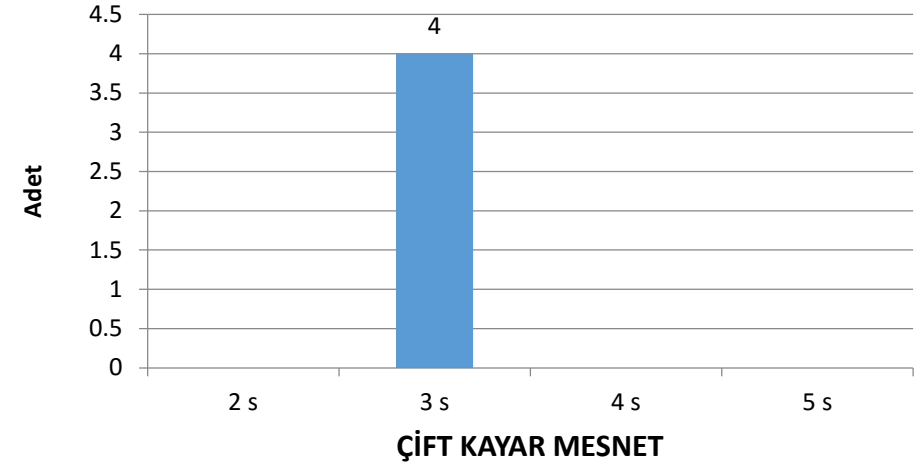
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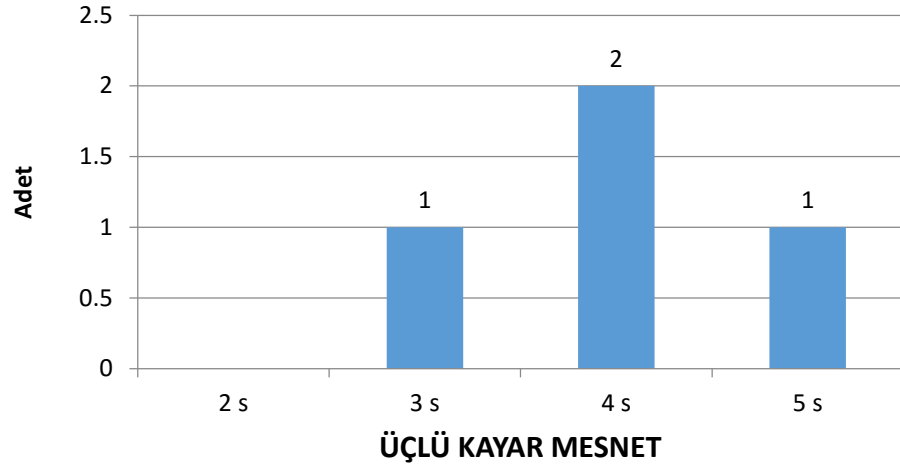
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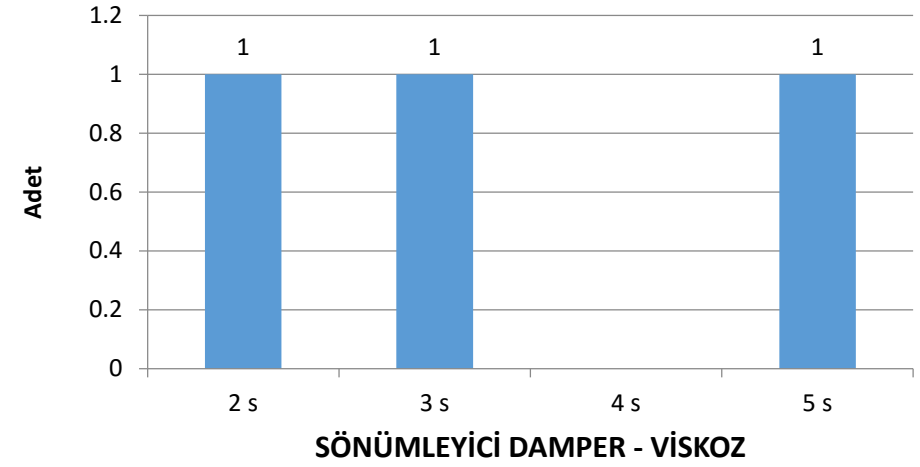
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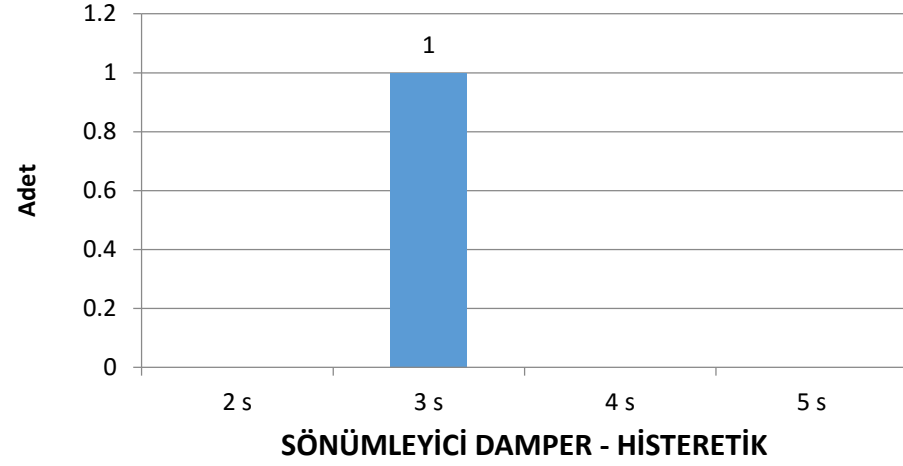
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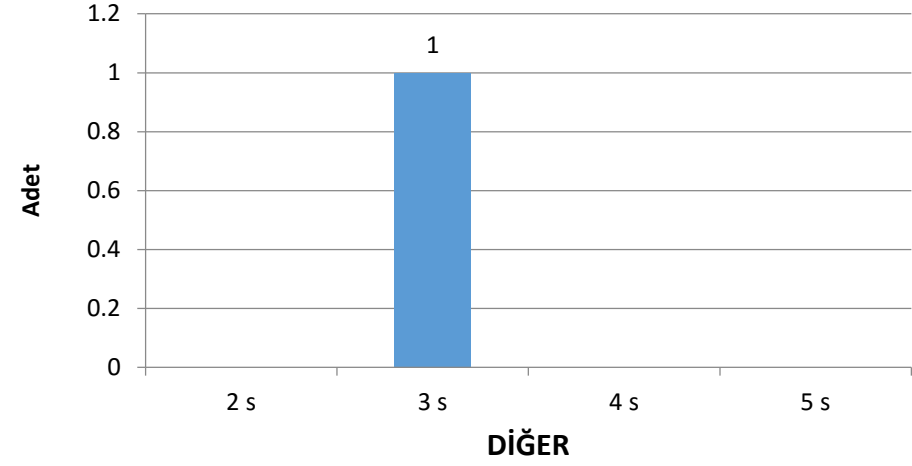
10. İZOLASYON PERİYODU :



10. İZOLASYON PERİYODU :



10. İZOLASYON PERİYODU :



11. TASARIMLARINIZA ESAS OLAN TEKNİK BELGELER :

