



Prototyp2 - Prototyp2 - 10.00-60.00 Nm - Angle Exact 60-170 - Bosch - Schrauber (allg.)

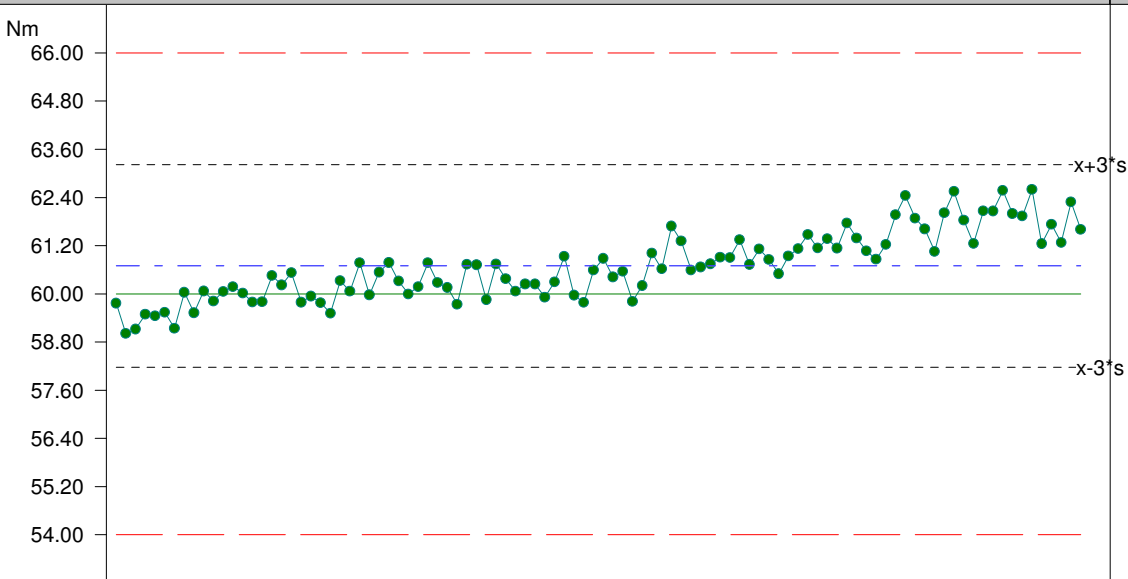
BMW AG  
TP-521

vom 05.07.2010

Artmann  
Tel. 08731-76-31002

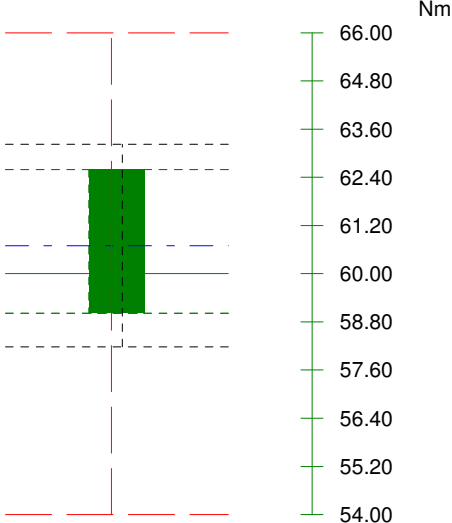
Gedruckt am:  
16.07.2010 11:21:07  
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Einzelwertkarte

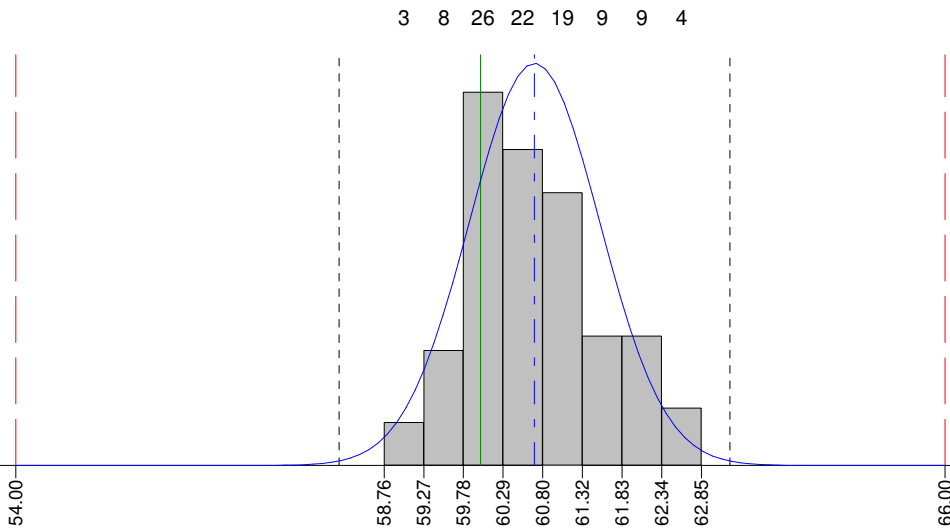


statistische Kenndaten

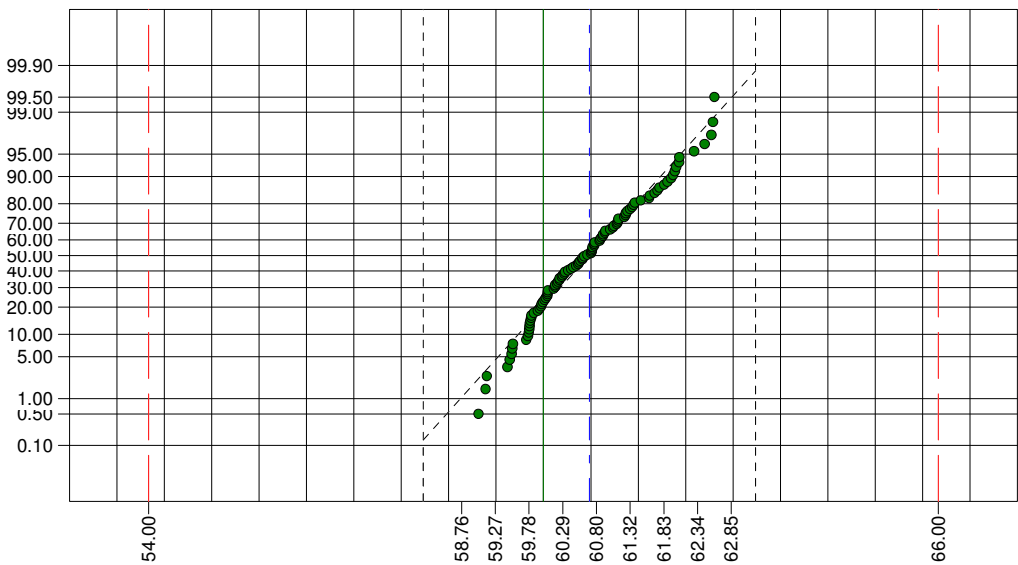
Cm: 2.38  
Cmk: 2.10  
Tol. unten: 54.00  
Tol. oben: 66.00  
Sollwert: 60.00  
Maximum: 62.60  
Minimum: 59.01  
x-Quer: 60.70  
s: 0.84  
x + 3s: 63.22  
x - 3s: 58.17  
Anzahl Messwerte: 100  
Winkel: 360  
Verschraubungsklasse: 31 Klasse 3 Labor  
rechtsdrehend  
mittlere Geschwindigkeit: 177



Häufigkeitsbild



Wahrscheinlichkeitsnetz



Prototyp2 - Prototyp2 - 10.00-60.00 Nm - Angle Exact 60-170 - Bosch - Schrauber (allg.)

MFU vom 05.07.2010 auf 3860 (3860SK.031 - 3860SK.031) Zelle/Kanal 3

Einheit: Nm  
Normalverteilung

Anzahl Messwerte: 100  
Toleranz  
Mittelwert (x-quer): 60.70  
Standardabweichung: 0.84  
Sollwert

Cm: 2.38  
Cmk: 2.10  
Mittelwert (x-quer):  
6s (x ± 3 s)

i.O.



## Prototyp2 - Prototyp2 - 10.00-60.00 Nm - Angle Exact 60-170 - Bosch - Schrauber (allg.)

BMW AG  
TP-521

vom 05.07.2010

Artmann  
08731-76-31002Gedruckt am:  
16.07.2010 11:21:07  
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## Einzelwerte

1. 59.77 Nm (349.00°)	21. 59.94 Nm (347.00°)	41. 60.38 Nm (331.00°)	61. 60.67 Nm (304.00°)	81. 61.97 Nm (283.00°)
2. 59.01 Nm (348.00°)	22. 59.78 Nm (344.00°)	42. 60.06 Nm (326.00°)	62. 60.74 Nm (304.00°)	82. 62.45 Nm (285.00°)
3. 59.12 Nm (351.00°)	23. 59.52 Nm (342.00°)	43. 60.24 Nm (331.00°)	63. 60.91 Nm (300.00°)	83. 61.88 Nm (281.00°)
4. 59.49 Nm (344.00°)	24. 60.33 Nm (348.00°)	44. 60.25 Nm (322.00°)	64. 60.90 Nm (296.00°)	84. 61.62 Nm (283.00°)
5. 59.45 Nm (354.00°)	25. 60.06 Nm (343.00°)	45. 59.92 Nm (327.00°)	65. 61.35 Nm (297.00°)	85. 61.05 Nm (264.00°)
6. 59.54 Nm (348.00°)	26. 60.77 Nm (347.00°)	46. 60.29 Nm (325.00°)	66. 60.73 Nm (295.00°)	86. 62.02 Nm (270.00°)
7. 59.14 Nm (347.00°)	27. 59.97 Nm (337.00°)	47. 60.93 Nm (327.00°)	67. 61.11 Nm (294.00°)	87. 62.55 Nm (272.00°)
8. 60.04 Nm (353.00°)	28. 60.54 Nm (339.00°)	48. 59.96 Nm (318.00°)	68. 60.85 Nm (290.00°)	88. 61.83 Nm (272.00°)
9. 59.53 Nm (352.00°)	29. 60.78 Nm (341.00°)	49. 59.78 Nm (320.00°)	69. 60.50 Nm (289.00°)	89. 61.25 Nm (271.00°)
10. 60.07 Nm (349.00°)	30. 60.32 Nm (339.00°)	50. 60.59 Nm (318.00°)	70. 60.94 Nm (293.00°)	90. 62.06 Nm (276.00°)
11. 59.82 Nm (352.00°)	31. 59.99 Nm (338.00°)	51. 60.88 Nm (314.00°)	71. 61.13 Nm (294.00°)	91. 62.06 Nm (273.00°)
12. 60.06 Nm (351.00°)	32. 60.18 Nm (343.00°)	52. 60.42 Nm (315.00°)	72. 61.48 Nm (295.00°)	92. 62.58 Nm (274.00°)
13. 60.18 Nm (350.00°)	33. 60.77 Nm (342.00°)	53. 60.56 Nm (316.00°)	73. 61.14 Nm (280.00°)	93. 62.00 Nm (270.00°)
14. 60.02 Nm (352.00°)	34. 60.28 Nm (341.00°)	54. 59.81 Nm (304.00°)	74. 61.37 Nm (290.00°)	94. 61.94 Nm (261.00°)
15. 59.79 Nm (349.00°)	35. 60.16 Nm (339.00°)	55. 60.20 Nm (308.00°)	75. 61.14 Nm (289.00°)	95. 62.60 Nm (264.00°)
16. 59.80 Nm (350.00°)	36. 59.74 Nm (329.00°)	56. 61.01 Nm (310.00°)	76. 61.76 Nm (287.00°)	96. 61.25 Nm (257.00°)
17. 60.46 Nm (353.00°)	37. 60.73 Nm (334.00°)	57. 60.62 Nm (310.00°)	77. 61.39 Nm (288.00°)	97. 61.73 Nm (256.00°)
18. 60.22 Nm (346.00°)	38. 60.72 Nm (337.00°)	58. 61.69 Nm (310.00°)	78. 61.07 Nm (278.00°)	98. 61.28 Nm (258.00°)
19. 60.53 Nm (351.00°)	39. 59.85 Nm (329.00°)	59. 61.32 Nm (299.00°)	79. 60.86 Nm (279.00°)	99. 62.29 Nm (253.00°)
20. 59.79 Nm (340.00°)	40. 60.74 Nm (332.00°)	60. 60.59 Nm (303.00°)	80. 61.23 Nm (283.00°)	100. 61.60 Nm (251.00°)

Prototyp2 - Prototyp2 - 10.00-60.00 Nm - Angle Exact 60-170 - Bosch - Schrauber (allg.)

MFU vom 05.07.2010 auf 3860 (3860SK.031 - 3860SK.031) Zelle/Kanal 3

Einheit: Nm  
NormalverteilungAnzahl Messwerte: 100  
ToleranzMittelwert (x-quer): 60.70  
Standardabweichung: 0.84  
Sollwert

Cm: 2.38

Cmk: 2.10

i.O.

6s (x ± 3 s) -----

# Kurvengrafik

Drehm.

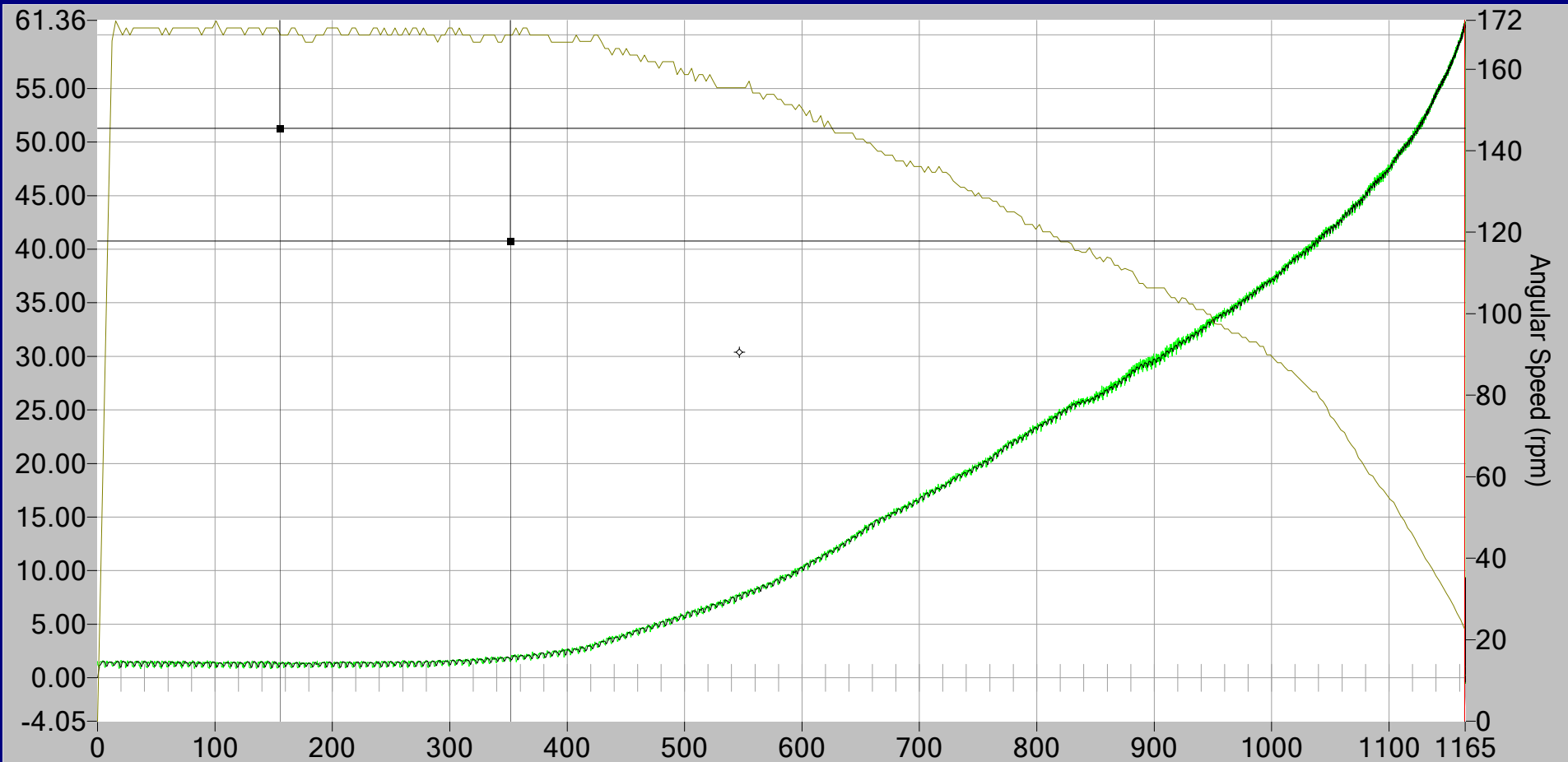
61.28

Winkel

258

Freq.

4000



Grenzfreq. 300 Hz

°: 546.722, Nm: 30.38

Drehm.-Zeit



Drehm.-Winkel

View Speed

☒ On/Off

Zoom

Drehm.



Geschwind.

Zoom

Restore

Laden

Speichern

Filter

Drucken

Ende

# Kurvengrafik

Drehm.

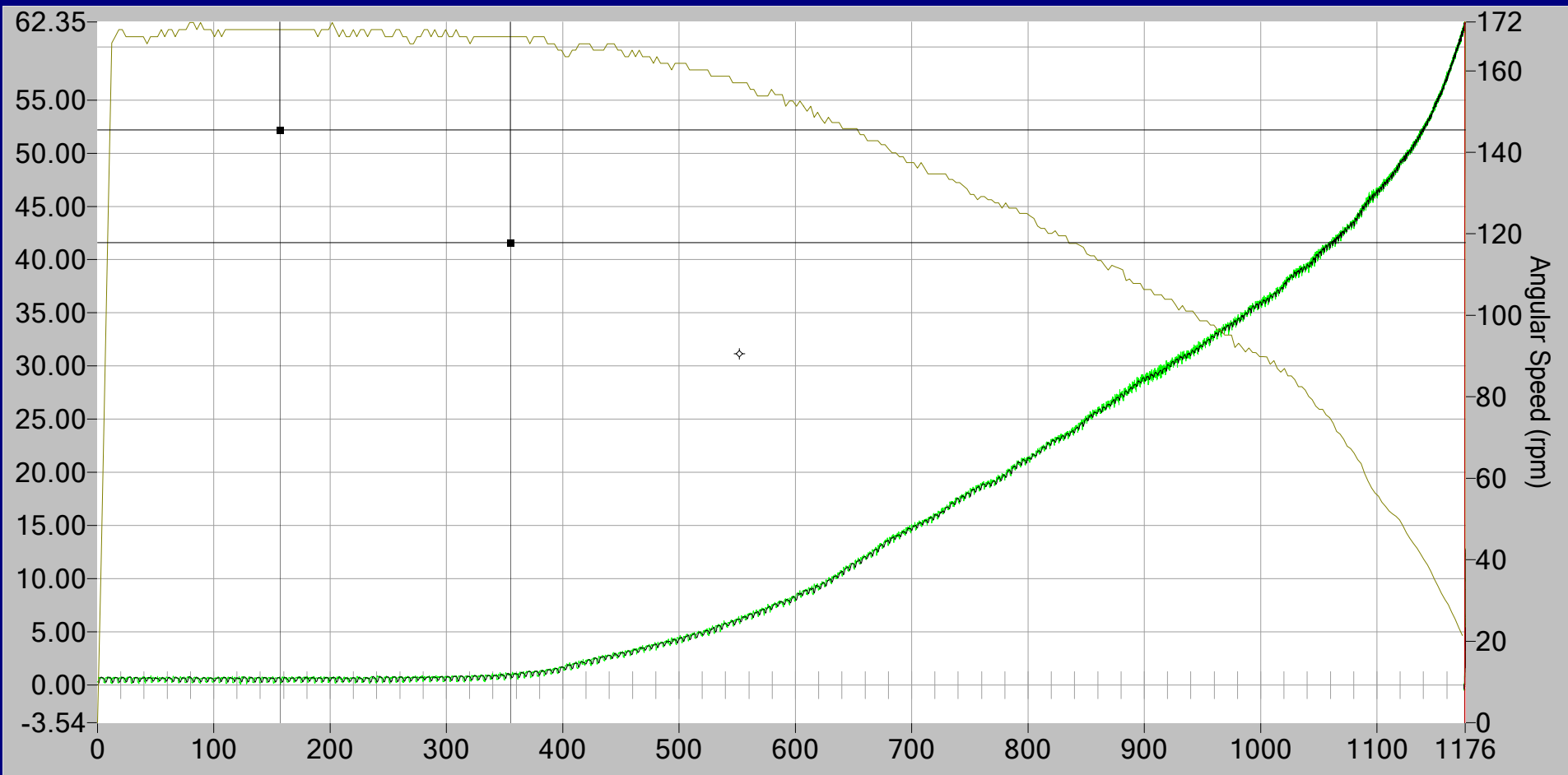
62.29

Winkel

253

Freq.

4000



Grenzfrequ. 300 Hz

°: 551.885, Nm: 31.14

Drehm.-Zeit



Drehm.-Winkel

View Speed

☒ On/Off

Zoom

Drehm.



Geschwind.

Zoom

Restore

Laden

Speichern

Filter

Drucken

Ende