

KRAFTLER
DAMPING SYSTEM



Responsibility. Attentiveness. Efficiency.

Polymer Springs

KRAFTLER.COM



INTRODUCTION

Kraftler specializes in the design, engineering and manufacturing of components for all industries, where large amounts of energy must be absorbed (railway industry, heavy engineering, automotive industry, oil-producing industry, shipbuilding, mining industry, machinery and etc.). We are professionals in field of damping systems and energy absorption.

Our production capability allows us to develop and produce high quality products in accordance with international standards. We are not afraid of non-standard tasks, and we are so happy to undertake the most ambitious projects!

Polymer pads are manufactured by unique patented technology

Due to design features and special characteristics of the material, each pad has a resistance to extreme loads and physical damaging. We can design and produce the polymer springs according to the requirements of each client.

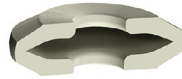
Polymer springs have high energy

Superior performance in temperatures range from -60°C to +60°C. All products have an excellent resistance to chemicals, grease, oils, solvents, and abrasive environments.

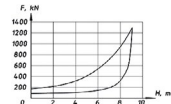


Kraftler's pads - are manufactured of high-performance TPE elastomer, which exceeds the performance of metal, rubber, urethane and/or hydraulic-based springs in terms of life cycle, reliability and fatigue resistance.

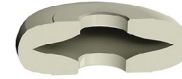
1C2K52110116H63H00



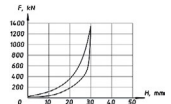
Energy absorption	>5 kJ
Damping	>50 %
Pre-tension force	≥150 kN
Max. End force	≤1300 kN
Stroke	≤9.2 mm
Pad Diameter at full stroke	200 mm



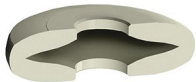
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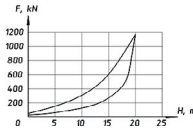
Energy absorption	>11 kJ
Damping	>48 %
Pre-tension force	≥22 kN
Max. End force	≤1350 kN
Stroke	≤30 mm
Pad Diameter at full stroke	200 mm



0C0K51116092H45H45



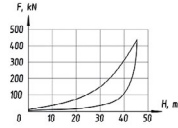
Energy absorption	>10 kJ
Damping	>40 %
Pre-tension force	≥52 kN
Max. End force	≤1170 kN
Stroke	≤20 mm
Pad Diameter at full stroke	200 mm



0C0K52142116H00H63



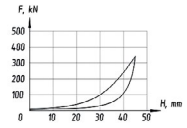
Energy absorption	>5 kJ
Damping	>30 %
Pre-tension force	≥8 kN
Max. End force	≤430 kN
Stroke	≤45 mm
Pad Diameter at full stroke	170 mm



0C1K52142100H00H63



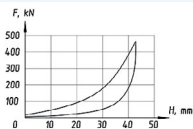
Energy absorption	>4 kJ
Damping	>40 %
Pre-tension force	≥5.8 kN
Max. End force	≤340 kN
Stroke	≤45 mm
Pad Diameter at full stroke	180 mm



0C1K52142116H00H63



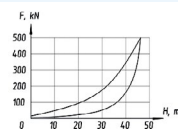
Energy absorption	>5.8 kJ
Damping	>30 %
Pre-tension force	≥10 kN
Max. End force	≤470 kN
Stroke	≤42 mm
Pad Diameter at full stroke	180 mm



0C0K52142100H00H04



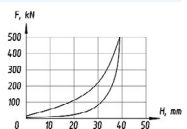
Energy absorption	>5.4 kJ
Damping	>40 %
Pre-tension force	≥9.5 kN
Max. End force	≤500 kN
Stroke	≤46 mm
Pad Diameter at full stroke	180 mm



0C0K52142114H00H24



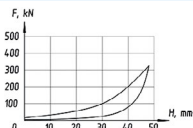
Energy absorption	>5 kJ
Damping	>50 %
Pre-tension force	≥9 kN
Max. End force	≤500 kN
Stroke	≤39 mm
Pad Diameter at full stroke	160 mm



0C1K52142100H00H34



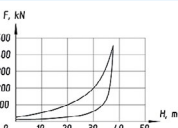
Energy absorption	>4 kJ
Damping	>45 %
Pre-tension force	≥7 kN
Max. End force	≤320 kN
Stroke	≤48 mm
Pad Diameter at full stroke	180 mm



0C0K52142116H00H54



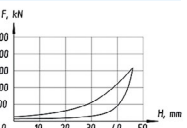
Energy absorption	>5.8 kJ
Damping	>35 %
Pre-tension force	≥7 kN
Max. End force	≤460 kN
Stroke	≤38 mm
Pad Diameter at full stroke	180 mm



0C1K52142100H00H54



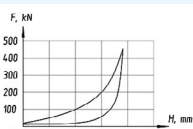
Energy absorption	>3.7 kJ
Damping	>50 %
Pre-tension force	≥6.8 kN
Max. End force	≤320 kN
Stroke	≤46 mm
Pad Diameter at full stroke	180 mm



0C1K52142116H00H54



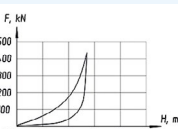
Energy absorption	>5 kJ
Damping	>40 %
Pre-tension force	≥8 kN
Max. End force	≤460 kN
Stroke	≤38 mm
Pad Diameter at full stroke	180 mm



1C2K52142116H63H00



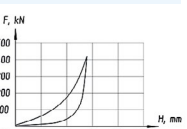
Energy absorption	>3 kJ
Damping	>50 %
Pre-tension force	≥5.9 kN
Max. End force	≤430 kN
Stroke	≤26 mm
Pad Diameter at full stroke	160 mm



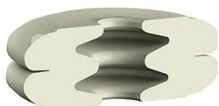
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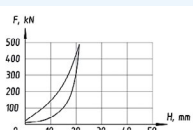
Energy absorption	>4 kJ
Damping	>40 %
Pre-tension force	≥3.6 kN
Max. End force	≤420 kN
Stroke	≤28 mm
Pad Diameter at full stroke	180 mm



1C2K52115116H63H00



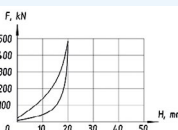
Energy absorption	>3.8 kJ
Damping	>30 %
Pre-tension force	≥7.2 kN
Max. End force	≤490 kN
Stroke	≤21 mm
Pad Diameter at full stroke	185 mm



1C2K5287116H63H00



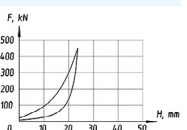
Energy absorption	>3.6 kJ
Damping	>30 %
Pre-tension force	≥12 kN
Max. End force	≤490 kN
Stroke	≤20 mm
Pad Diameter at full stroke	185 mm



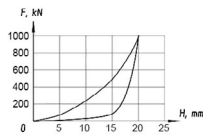
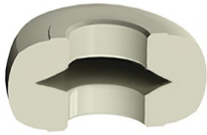
1C2K52110116H63H00



Energy absorption	>3.2 kJ
Damping	>30 %
Pre-tension force	≥7.2 kN
Max. End force	≤460 kN
Stroke	≤23 mm
Pad Diameter at full stroke	185 mm

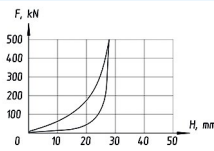
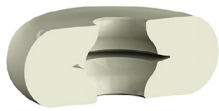


1C2K52123145H56H00



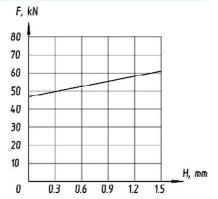
Energy absorption	>8.7 kJ
Damping	>60 %
Pre-tension force	≥30 kN
Max. End force	≤1000 kN
Stroke	≤20 mm
Pad Diameter at full stroke	190 mm

0C1K52120160H61H00



Energy absorption	>20 kJ
Damping	>35 %
Pre-tension force	≥4.8 kN
Max. End force	≤500 kN
Stroke	≤28 mm
Pad Diameter at full stroke	260 mm

0C0K45220103H551

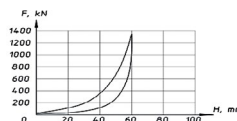


Pre-tension force	≥47 kN
Max. End force	≤62 kN
Stroke	≤1.5 mm
Pad Diameter at full stroke	280 mm

Draw-Gear Spring Package

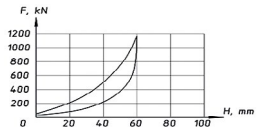


120.135.60.23



Energy absorption	>23 kJ
Damping	>48 %
Pre-tension force	≥22 kN
Max. End force	≤1350 kN
Stroke	≤60 mm
Pad Diameter at full stroke	200 mm

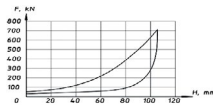
160.117.60.22



Energy absorption	>22 kJ
Damping	>40 %
Pre-tension force	≥52 kN
Max. End force	≤1170 kN
Stroke	≤60 mm
Pad Diameter at full stroke	200 mm

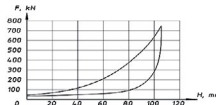
Buffer Springs

KT-30



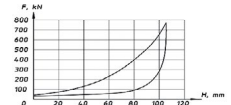
Energy absorption	>30 kJ
Damping	>50 %
Pre-tension force	≥52 kN
Max. End force	≤710 kN
Stroke	≤105 mm
Pad Diameter at full stroke	165 mm

KT-35



Energy absorption	>35 kJ
Damping	>50 %
Pre-tension force	≥47 kN
Max. End force	≤750 kN
Stroke	≤105 mm
Pad Diameter at full stroke	165 mm

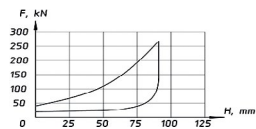
KT-40



Energy absorption	>40 kJ
Damping	>52 %
Pre-tension force	≥16 kN
Max. End force	≤850 kN
Stroke	≤105 mm
Pad Diameter at full stroke	165 mm

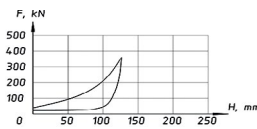
Polymer Springs

300.27.92.11



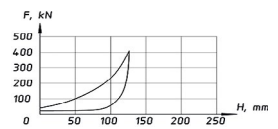
Energy absorption	>11 kJ
Damping	>40 %
Pre-tension force	≥41 kN
Max. End force	≤270 kN
Stroke	≤92 mm
Pad Diameter at full stroke	180 mm

380.36.123.18



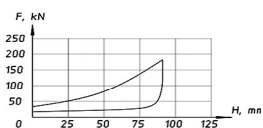
Energy absorption	>18 kJ
Damping	>35 %
Pre-tension force	≥40 kN
Max. End force	≤360 kN
Stroke	≤123 mm
Pad Diameter at full stroke	185 mm

380.41.123.20



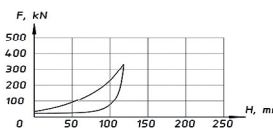
Energy absorption	>20 kJ
Damping	>38 %
Pre-tension force	≥39 kN
Max. End force	≤410 kN
Stroke	≤123 mm
Pad Diameter at full stroke	185 mm

300.18.92.08



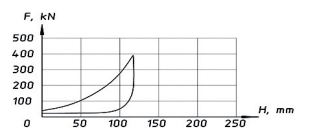
Energy absorption	>8 kJ
Damping	>37 %
Pre-tension force	≥34 kN
Max. End force	≤180 kN
Stroke	≤92 mm
Pad Diameter at full stroke	175 mm

385.33.116.15



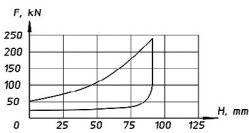
Energy absorption	>15 kJ
Damping	>35 %
Pre-tension force	≥34 kN
Max. End force	≤330 kN
Stroke	≤116 mm
Pad Diameter at full stroke	180 mm

385.39.116.18



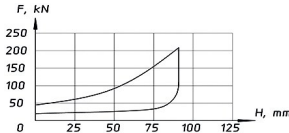
Energy absorption	>18 kJ
Damping	>37 %
Pre-tension force	≥39 kN
Max. End force	≤390 kN
Stroke	≤116 mm
Pad Diameter at full stroke	180 mm

300.24.92.10



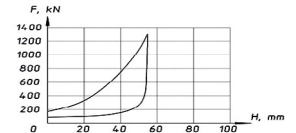
Energy absorption >10 kJ
Damping >33 %
Pre-tension force ≥ 51 kN
Max. End force ≤ 240 kN
Stroke ≤ 92 mm
Pad Diameter at full stroke 175 mm

300.21.92.09



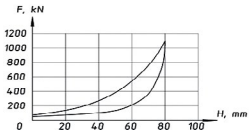
Energy absorption >9 kJ
Damping >38 %
Pre-tension force ≥ 45 kN
Max. End force ≤ 210 kN
Stroke ≤ 92 mm
Pad Diameter at full stroke 175 mm

TCK135.16.000



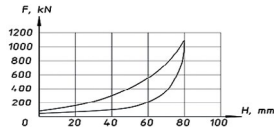
Energy absorption >30 kJ
Damping >50 %
Pre-tension force ≥ 150 kN
Max. End force ≤ 1300 kN
Stroke ≤ 55 mm
Pad Diameter at full stroke 200 mm

282.110.80.25



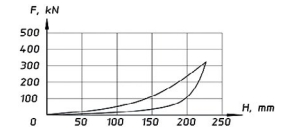
Energy absorption >25 kJ
Damping >40 %
Pre-tension force ≥ 72 kN
Max. End force ≤ 1100 kN
Stroke ≤ 80 mm
Pad Diameter at full stroke 205 mm

282.110.80.26



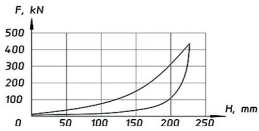
Energy absorption >26 kJ
Damping >40 %
Pre-tension force ≥ 73 kN
Max. End force ≤ 1100 kN
Stroke ≤ 80 mm
Pad Diameter at full stroke 205 mm

50C0K52142100H00H33



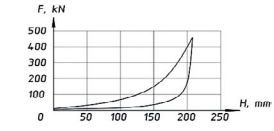
Energy absorption >21 kJ
Damping >35 %
Pre-tension force ≥ 7 kN
Max. End force ≤ 320 kN
Stroke ≤ 223 mm
Pad Diameter at full stroke 180 mm

50C0K52142100H00H63



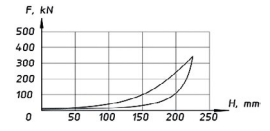
Energy absorption >26.5 kJ
Damping >30 %
Pre-tension force ≥ 8 kN
Max. End force ≤ 430 kN
Stroke ≤ 223 mm
Pad Diameter at full stroke 170 mm

50C0K52142116H00H63



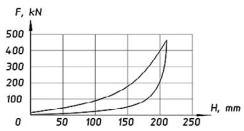
Energy absorption >30 kJ
Damping >45 %
Pre-tension force ≥ 12 kN
Max. End force ≤ 460 kN
Stroke ≤ 208 mm
Pad Diameter at full stroke 180 mm

50C1K52142100H00H63



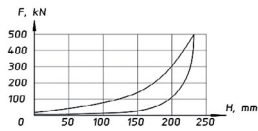
Energy absorption >21 kJ
Damping >40 %
Pre-tension force ≥ 5.6 kN
Max. End force ≤ 340 kN
Stroke ≤ 224 mm
Pad Diameter at full stroke 180 mm

50C1K52142116H00H63



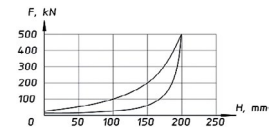
Energy absorption >29 kJ
Damping >30 %
Pre-tension force ≥ 10 kN
Max. End force ≤ 470 kN
Stroke ≤ 208 mm
Pad Diameter at full stroke 180 mm

50C0K52142100H00H04



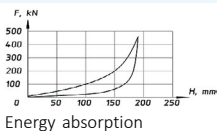
Energy absorption >33 kJ
Damping >40 %
Pre-tension force ≥ 9.5 kN
Max. End force ≤ 500 kN
Stroke ≤ 232 mm
Pad Diameter at full stroke 180 mm

50C0K52142114H00H24



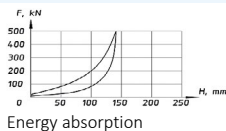
Energy absorption >30 kJ
Damping >50 %
Pre-tension force ≥ 9 kN
Max. End force ≤ 500 kN
Stroke ≤ 197 mm
Pad Diameter at full stroke 160 mm

50C1K52142116H00H54



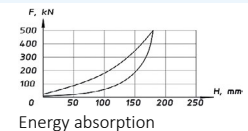
Energy absorption >25 kJ
Damping >40 %
Pre-tension force ≥ 8 kN
Max. End force ≤ 460 kN
Stroke ≤ 192 mm
Pad Diameter at full stroke 180 mm

50C1K52120160H61H00



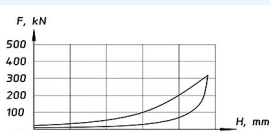
Energy absorption >20 kJ
Damping >35 %
Pre-tension force ≥ 4.8 kN
Max. End force ≤ 500 kN
Stroke ≤ 140 mm
Pad Diameter at full stroke 260 mm

51C2K52123145H56H00



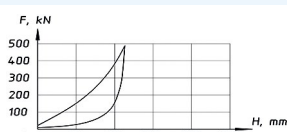
Energy absorption >29 kJ
Damping >35 %
Pre-tension force ≥ 8 kN
Max. End force ≤ 500 kN
Stroke ≤ 180 mm
Pad Diameter at full stroke 190 mm

60C0K52142100H00H33



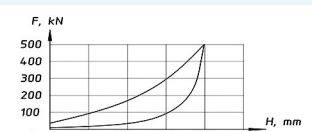
Energy absorption >24 kJ
Damping >35 %
Pre-tension force ≥ 30 kN
Max. End force ≤ 320 kN
Stroke ≤ 238 mm
Pad Diameter at full stroke 180 mm

61C2K52115116H63H00



Energy absorption >20 kJ
Damping >30 %
Pre-tension force ≥ 30 kN
Max. End force ≤ 490 kN
Stroke ≤ 112 mm
Pad Diameter at full stroke 185 mm

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Energy absorption >18 kJ
Damping >50 %
Pre-tension force ≥ 30 kN
Max. End force ≤ 500 kN
Stroke ≤ 197 mm
Pad Diameter at full stroke 190 mm

KRAFTLER

DAMPING SYSTEM



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