

Einsatzwerte Kegelsenker-Satz 90° HSS Dreischneider (Art.-Nr. 1003120 178-183)



| Materialgruppen für Schnittwerte | Festigkeit [N/mm²] | Bezeichnung nach DIN | Vc [m/min] | f [mm/U] bei Durchmesser | | | | | | |
|-------------------------------------|-----------------------|-------------------------|---------------|--------------------------|-----------|-----------|-----------|-----------|------------|------------|
| | | | | 4-6 | 6-10 | 10-16 | 16-25 | 25-40 | 40-63 | 63-80 |
| 1. Stähle | | | | | | | | | | |
| 1.1 | < 900 | 9 S 20 | 25-35 | 0.06-0.08 | 0.08-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.25 | 0.25-0.325 | 0.325-0.35 |
| 1.2 | <500 | ST 37-2 | 25-35 | 0.06-0.08 | 0.08-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.25 | 0.25-0.325 | 0.325-0.35 |
| 1.3 | > 500 | ST 60-2 | 25-30 | 0.06-0.08 | 0.08-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.25 | 0.25-0.325 | 0.325-0.35 |
| 1.4 | <1000 | 42 CrMo 4 | 25-30 | 0.06-0.08 | 0.08-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.25 | 0.25-0.325 | 0.325-0.35 |
| 1.5 | <1000 | GS-45 | 15-20 | 0.04-0.06 | 0.06-0.09 | 0.09-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.22 | 0.22-0.25 |
| 1.6 | <1200 | 16 MnCr 5 | 8-20 | 0.04-0.06 | 0.06-0.09 | 0.09-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.22 | 0.22-0.25 |
| 1.7 | <1100 | X 10 Cr 13 | 5-12 | 0.04-0.06 | 0.06-0.09 | 0.09-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.22 | 0.22-0.25 |
| 1.8 | >1000 | 43 CrMo 4 | 5-10 | 0.04-0.06 | 0.06-0.09 | 0.09-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.22 | 0.22-0.25 |
| 1.9 | <1300 | 31 CrMoV 9 | 8-17 | 0.04-0.06 | 0.06-0.09 | 0.09-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.22 | 0.22-0.25 |
| 1.10 | <1300 | X 38 CrMoV 5 1 | 3-10 | 0.04-0.06 | 0.06-0.09 | 0.09-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.22 | 0.22-0.25 |
| 2. Rostfreie Stähle | | | | | | | | | | |
| 2.1 | <1100 | G-X 2 CrNiMo 18 15 | 3-12 | 0.04-0.06 | 0.06-0.09 | 0.09-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.22 | 0.22-0.25 |
| 3. NE-Metalle | | | | | | | | | | |
| 3.1 | <500 | Al99.9 | 50-90 | 0.06-0.1 | 0.1-0.12 | 0.12-0.18 | 0.18-0.26 | 0.26-0.3 | 0.3-0.4 | 0.4-0.45 |
| 3.2 | <500 | G-AlSi12 | 25-60 | 0.06-0.1 | 0.1-0.12 | 0.12-0.18 | 0.18-0.26 | 0.26-0.3 | 0.3-0.4 | 0.4-0.45 |
| 3.3 | <1200 | CuSn4 | 25-45 | 0.06-0.08 | 0.08-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.25 | 0.25-0.325 | 0.325-0.35 |
| 3.4 | <850 | CuNi12Zn24 | 25-50 | 0.06-0.08 | 0.08-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.25 | 0.25-0.325 | 0.325-0.35 |
| 3.5 | <600 | Cu Zn 20 | 40-80 | 0.06-0.1 | 0.1-0.12 | 0.12-0.18 | 0.18-0.26 | 0.26-0.3 | 0.3-0.4 | 0.4-0.45 |
| 3.6 | <600 | Cu Zn 39 Pb 3 | 40-80 | 0.06-0.1 | 0.1-0.12 | 0.12-0.18 | 0.18-0.26 | 0.26-0.3 | 0.3-0.4 | 0.4-0.45 |
| 3.7 | <100 | PVC, Acrylglas | 15-50 | 0.06-0.1 | 0.1-0.12 | 0.12-0.18 | 0.18-0.26 | 0.26-0.3 | 0.3-0.4 | 0.4-0.45 |
| 3.8 | <150 | Bakelit, Melamin | 15-50 | 0.06-0.1 | 0.1-0.12 | 0.12-0.18 | 0.18-0.26 | 0.26-0.3 | 0.3-0.4 | 0.4-0.45 |
| 3.9 | <1500 | CFK, GFK | | | | | | | | |
| 3.10 | <60 | C8000 | 15-25 | 0.06-0.1 | 0.1-0.12 | 0.12-0.18 | 0.18-0.26 | 0.26-0.3 | 0.3-0.4 | 0.4-0.45 |
| 3.11 | | | | | | | | | | |
| 4. Guss | | | | | | | | | | |
| 4.1 | <260 HB | GG10 | 10-20 | 0.06-0.08 | 0.08-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.25 | 0.25-0.325 | 0.325-0.35 |
| 4.2 | <310 HB | GGG 40 | 10-20 | 0.06-0.08 | 0.08-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.25 | 0.25-0.325 | 0.325-0.35 |
| 4.3 | <280 HB | GTW-55 | 10-20 | 0.06-0.08 | 0.08-0.12 | 0.12-0.14 | 0.14-0.18 | 0.18-0.25 | 0.25-0.325 | 0.325-0.35 |
| 5. Sonderlegierungen | | | | | | | | | | |
| 5.1 | <1200 | TiAl5Sn2,5 | 4-12 | 0.02-0.04 | 0.04-0.07 | 0.07-0.09 | 0.09-0.11 | 0.11-0.12 | 0.12-0.16 | 0.16-0.18 |
| 5.2 | <1400 | NiCr21Mo | 2-6 | 0.02-0.04 | 0.04-0.07 | 0.07-0.09 | 0.09-0.11 | 0.11-0.12 | 0.12-0.16 | 0.16-0.18 |
| 5.3 | <1400 | X45CrSi 9 3 | 2-6 | 0.02-0.04 | 0.04-0.07 | 0.07-0.09 | 0.09-0.11 | 0.11-0.12 | 0.12-0.16 | 0.16-0.18 |

