



INOFlex® VD

4-Backen-Handspannfutter ohne Durchgang
4-jaw closed center manual chuck

ANWENDUNG

- Spannen von runden, quadratischen/rechteckigen und geometrisch unregelmäßigen Bauteilen
- Für verformungsempfindliche Bauteile geeignet
- Innen- und Außenspannung

TECHNISCHE MERKMALE

- Zentrisch ausgleichendes Spannen
- Spannhubkontrolle

APPLICATION

- Clamping of round, square/rectangular and irregular parts
- For deformation sensitive parts
- Internal and external clamping

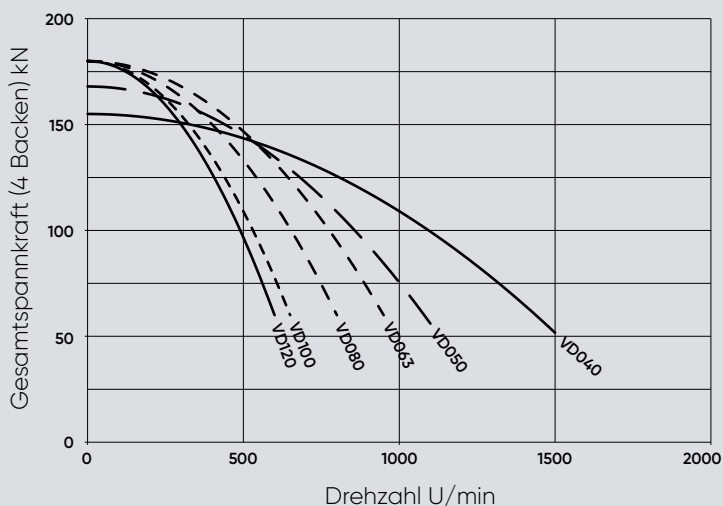
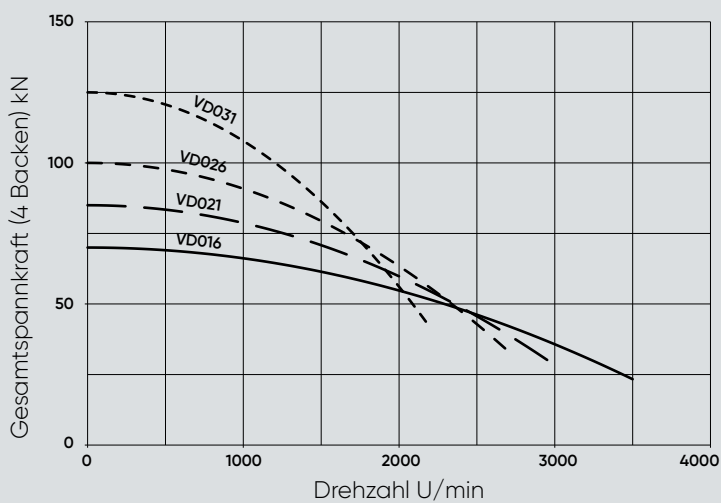
TECHNICAL FEATURES

- Compensating concentric clamping
- Clamping stroke control

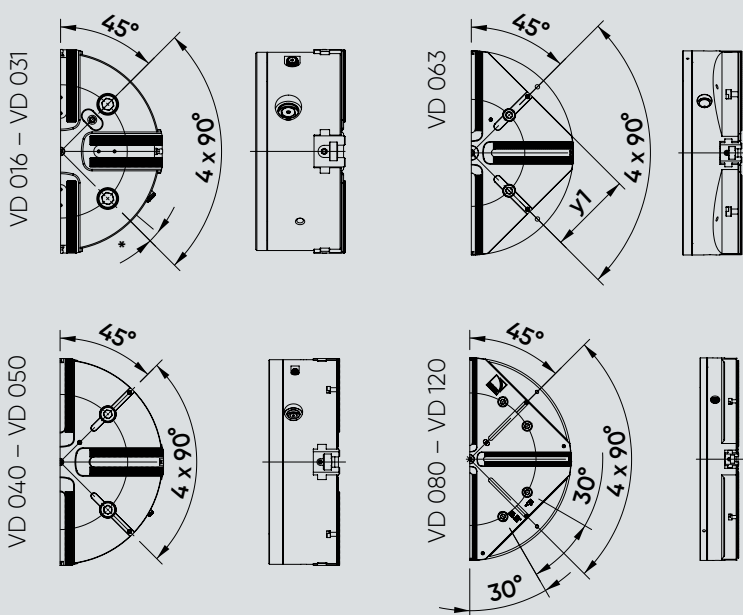
| Technische Daten technical information | | VD016 | VD021 | VD026 | VD031 | VD040 | VD050 | VD063 | VD080 | VD100 | VD120 |
|--|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ident-Nr. / ident-no. | | 841016 | 841021 | 841026 | 841031 | 841040 | 841050 | 841063 | 841080 | 841100 | 841120 |
| Durchmesser diameter | mm | 165 | 210 | 255 | 315 | 400 | 500 | 630 | 800 | 990 | 1150 |
| Hub pro Backe radial jaw stroke | mm | 4,3 | 5,2 | 5,2 | 6,1 | 6,9 | 8,7 | 11,3 | 11,3 | 11,3 | 11,3 |
| Ausgleichshub compensation | mm | 2,5 | 3,5 | 3,5 | 4 | 4,5 | 6,1 | 8 | 8 | 8 | 8 |
| max. Anzugsmoment max. tightening torque | Nm | 70 | 110 | 145 | 180 | 245 | 270 | 280 | 280 | 280 | 280 |
| max. Spannkraft max. gripping force | kN | 70 | 95 | 110 | 135 | 170 | 185 | 200 | 200 | 200 | 200 |
| max. Drehzahl max. speed | 1/min r.p.m. | 3500 | 3000 | 2700 | 2200 | 1500 | 1100 | 950 | 800 | 650 | 600 |
| Masse (ohne Backen) weight (without top jaws) | kg | 12 | 22 | 39 | 75 | 127 | 226 | 340 | 545 | 720 | 1100 |
| Massenträgheitsmoment moment of inertia | kg • m ² | 0,04 | 0,12 | 0,32 | 0,97 | 2,63 | 7,39 | 16,9 | 24,5 | 84,5 | 176,4 |
| Nutenstein standard t-nut | – | GP05 | GP07 | GP11 | GP11 | GP13 | GP21 | GP21 | GP21 | GP21 | GP21 |
| Standard weiche Aufsatzbacke standard soft jaw | – | VS10 | VS12 | VS16 | VS16 | VS21 | VS25 | VS25 | VS25 | VS25 | VS25 |
| Standard harte Greiferbacke standard hard gripper jaw | – | VG10 | VG12 | VG16 | VG16 | VG21 | VG25 | VG25 | VG25 | VG25 | VG25 |

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Spannkraft-/Drehzahl-Diagramm Clamping force - speed diagram

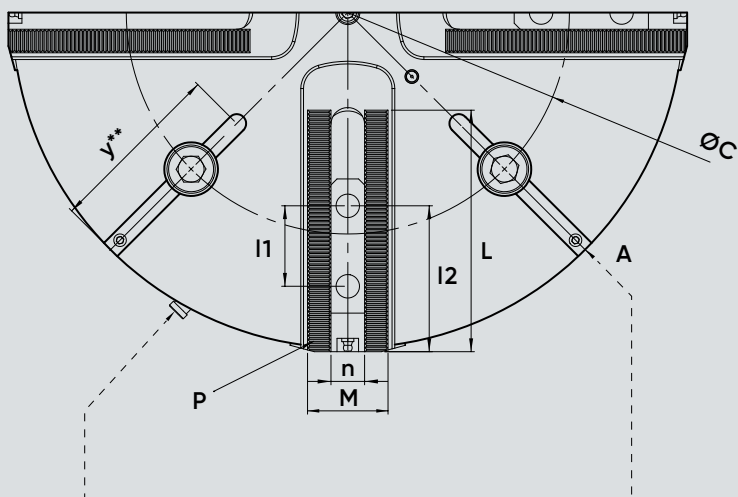


Beim Einsatz der weichen Standardbacke bündig außen aufgebaut.
When using the soft standard jaw mounted even with the outer diameter of the chuck.



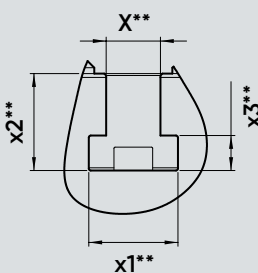
* Lochkreis bei VD 016 um 5° nach links versetzt
* Bolt circle in VD 016 displaced by 5° to the left

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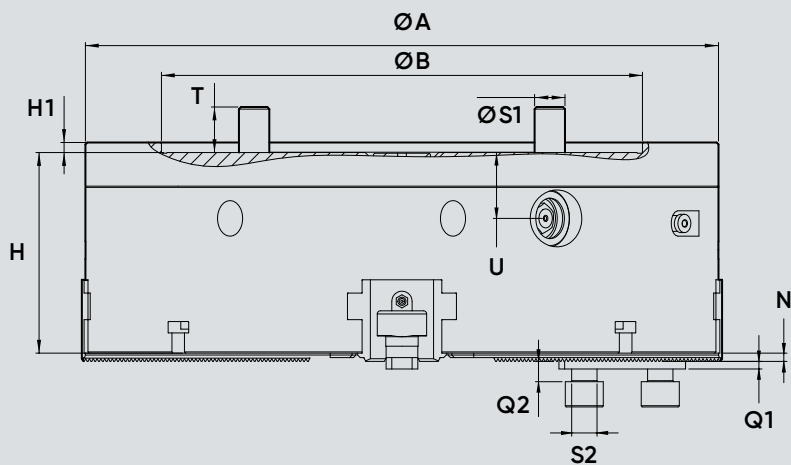


Hubkontrolle
Stroke control

Ansicht A



**** Ab VD 040**
** starting at VD 040





Schauen Sie sich das
VD-Handspannfutter im Detail an!
Look at the VD-manual chuck in detail!

| Abmessungen dimensions | VD016 | VD021 | VD026 | VD031 | VD040 | VD050 | VD063 | VD080 | VD100 | VD120 |
|--|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| A mm | 165 | 210 | 255 | 315 | 400 | 500 | 630 | 800 | 990 | 1150 |
| B H6 mm | 140 | 170 | 220 | 220 | 300 | 380 | 380 | 520 | 720 | 720 |
| C mm | 104,8 | 133,4 | 171,4 | 171,4 | 235 | 330,2 | 330,2 | 463,6 | 647,6 | 647,6 |
| H mm | 76 | 85 | 105 | 130 | 136,5 | 158,5 | 163,5 | 163,5 | 169,5 | 169,7 |
| H1 mm | 5 | 5 | 5 | 5 | 5 | 8 | 8 | 8 | 8 | 8 |
| L mm | 60 | 78 | 93 | 111 | 141 | 180 | 246 | 315 | 420 | 498 |
| M mm | 31 | 35,5 | 40 | 40 | 50 | 60 | 60 | 60 | 60 | 60 |
| N mm | 5 | 5 | 5 | 5 | 6,5 | 6,5 | 10,5 | 10,5 | 10,5 | 10,3 |
| Verzahnung / serration | P mm | 1,5 x 60° | 1,5 x 60° | 1,5 x 60° | 1,5 x 60° | 1,5 x 60° | 3,0 x 60° | 3,0 x 60° | 3,0 x 60° | 3,0 x 60° |
| Q1 mm | 2,5 | 3 | 3 | 3 | 3,5 | 6 | 6 | 6 | 6 | 6 |
| Q2 mm | 10,5 | 11,5 | 11,5 | 11,5 | 11,5 | 16,4 | 16,4 | 16,4 | 16,4 | 17,4 |
| Futter geöffnet / chuck open | R mm | 84,8 | 107,9 | 130,7 | 161,1 | 201,9 | 252,8 | 314,3 | 399,3 | 504,3 |
| S1 mm | M10 x 80, 4 x | M12 x 90, 4 x | M16 x 110, 4 x | M16 x 130, 4 x | M20 x 110, 4 x | M24 x 140, 4 x | M24 x 130, 4 x | M24 x 180, 7 x | M30 x 120, 7 x | M30 x 180, 7 x |
| T mm | 16 | 17,6 | 21,6 | 22,6 | 30 | 36 | 34,3 | 41,5 | 41,5 | 41,5 |
| U mm | 28 | 32 | 37 | 50 | 53 | 52 | 59 | 59 | 65 | 65 |
| Schlüssel- weite / wrench width | W mm | 12 | 12 | 17 | 17 | 21 | 21 | 21 | 21 | 21 |
| l1 mm | 18 | 20 | 30 | 30 | 30 | 60 | 60 | 60 | 60 | 60 |
| min./max. | l2 mm | 25 / 52 | 28 / 68 | 41 / 60 | 41 / 97 | 43 / 122 | 70 / 150 | 80 / 228 | 80 / 295 | 80 / 395 |
| n H8 mm | 10 | 12 | 16 | 16 | 21 | 25 | 25 | 25 | 25 | 25 |
| S2 mm | M8 x 25 | M10 x 25 | M12 x 30 | M12 x 30 | M16 x 35 | M20 x 55 | M20 x 55 | M20 x 55 | M20 x 55 | M20 x 55 |
| xH12 mm | — | — | — | — | 14 | 14 | 22 | 22 | 22 | 22 |
| x1 mm | — | — | — | — | 23 | 23 | 40 | 40 | 40 | 40 |
| x2 mm | — | — | — | — | 25 | 25 | 38 | 38 | 38 | 38 |
| x3 mm | — | — | — | — | 9 | 9 | 16 | 16 | 16 | 16 |
| y mm | — | — | — | — | 118 | 133 | 200 | 285 | 245 | 290 |