

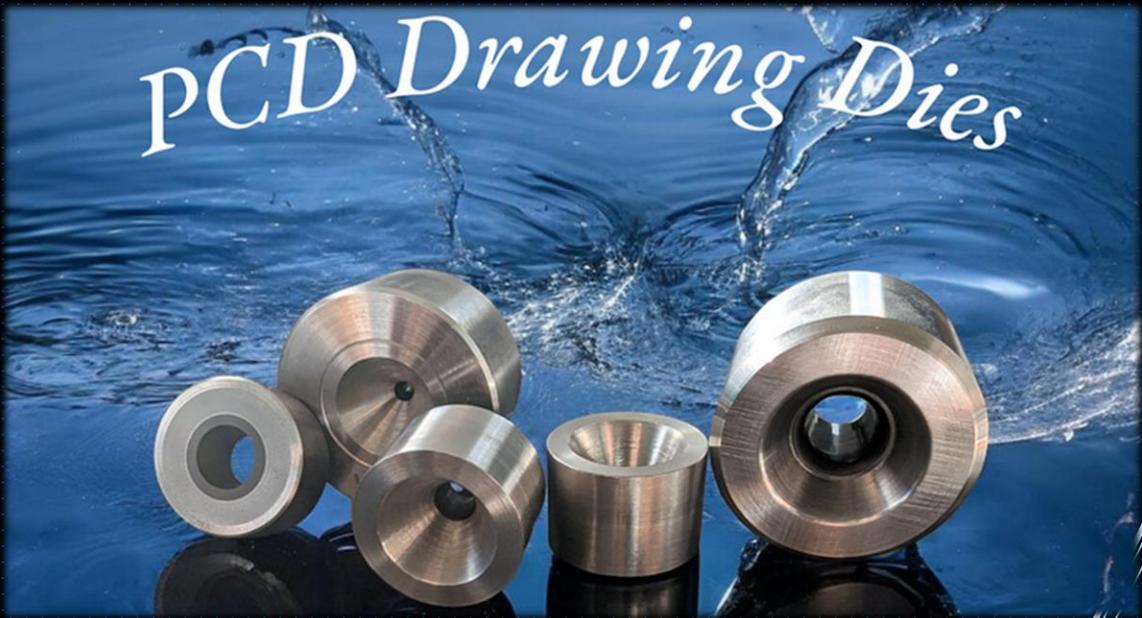
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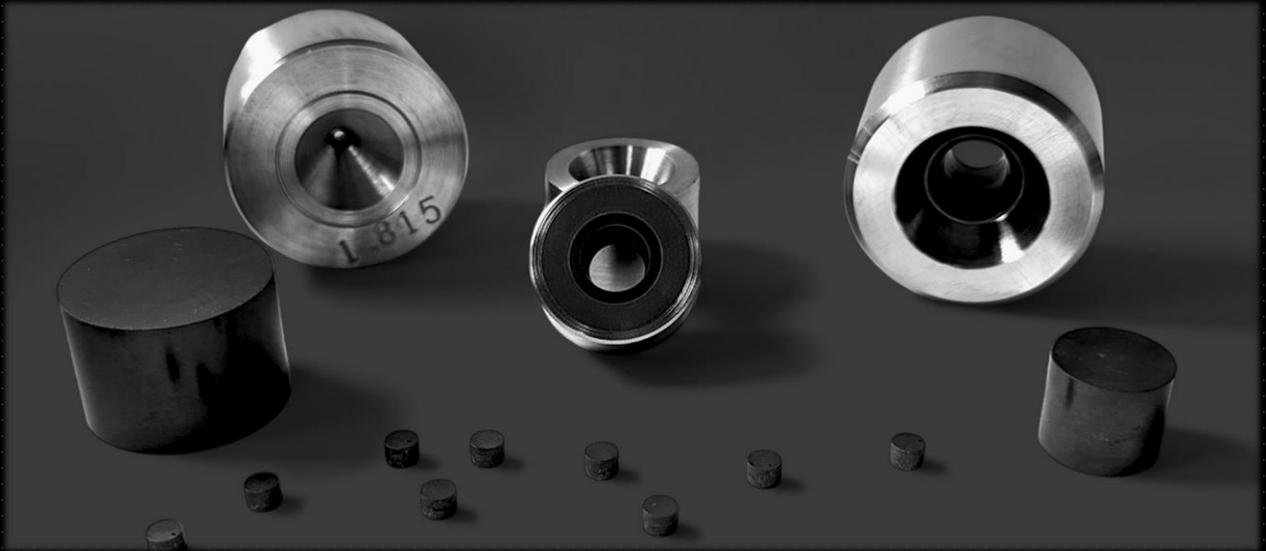
Polycrystalline Diamond Dies (PCD)

QUALITY MEETS INNOVATION



Vassena Filiere is proud to announce a significant milestone in its product portfolio: the introduction of PCD and natural diamond drawing dies. This development marks a major step forward for the company, enhancing its offering and providing an excellent opportunity to offer comprehensive solutions to its already extensive customer base. With the addition of these high-performance drawing tools, Vassena is poised to strengthen its market position and meet the growing demands of the industry with cutting-edge precision.





Wire Drawing Dies with nibs as follows:

Natural Diamond

Monocrystalline Diamonds (Monodie)

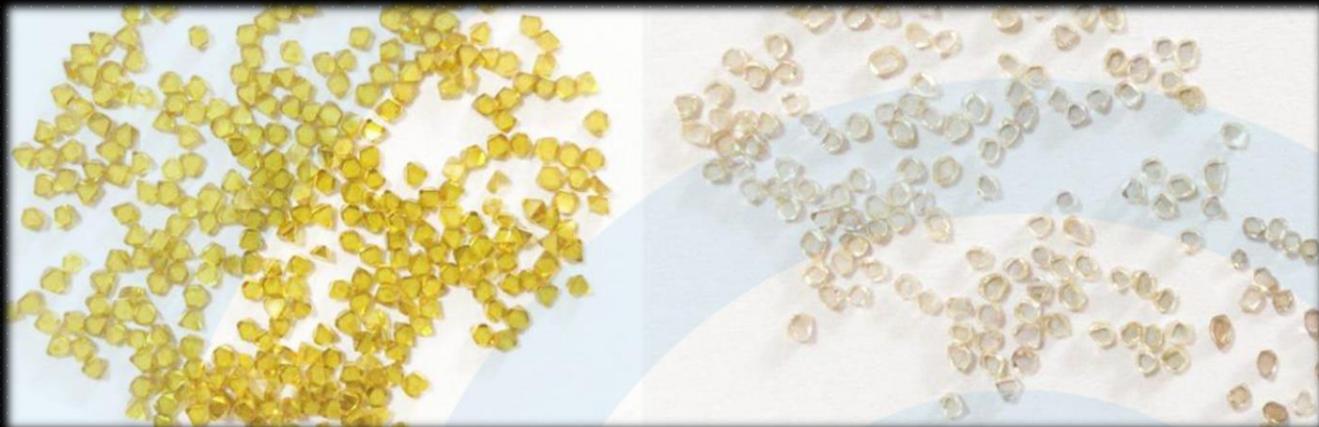
**Polycrystalline Diamonds (PCD) and next-generation BN
Diamonds**

**For all applications we select only the most advanced
technology and the strongest synthetic diamond nibs**



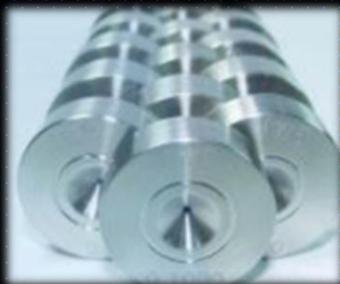
Wire Dies as Natural Diamond-Or Monodie

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Vassena offers a large selection of natural diamonds for wire and tube drawing. Through strict and precise selection, the natural diamonds are processed in their hardest 111 orientation to guarantee the greatest possible wear resistance.

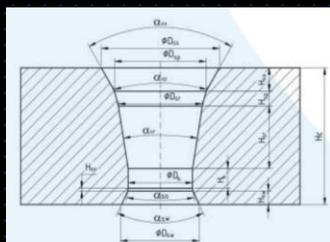
Monocrystalline diamonds are an alternative to ND to guarantee even tool wear.



Advantages:
Best Surface Results
Finest Wire down to 0,012 mm
Precise tolerances

Application:
Stainless Steel Wire
Saw Wire
Alloys (Gold, Cu, Al)
EDM Wire

Selection of Natural Diamond Sizes

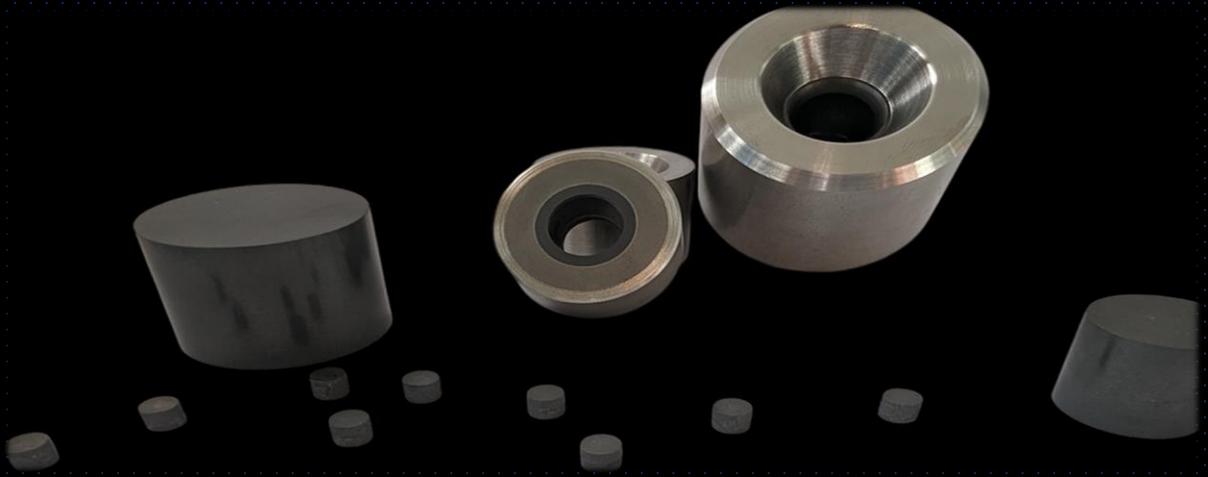


Neustein		Nacharbeits-Bereich
mm	ND-Größe	mm
0,050 - 0,099	1#	0,100 - 0,200
0,100 - 0,199	2#	0,201 - 0,300
0,200 - 0,299	3#	0,301 - 0,400
0,300 - 0,399	4#	0,401 - 0,500
0,400 - 0,499	5#	0,501 - 0,600
0,500 - 0,599	6#	0,601 - 0,700
0,600 - 0,799	8#	0,801 - 0,900
0,800 - 0,999	10#	0,901 - 1,099
1,000 - 1,199	12#	1,101 - 1,299

PCD – Drawing Dies

Polycrystalline Diamonds

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PCD drawing dies are the ideal choice for long production times compared to ND, Mono and HM materials.

PCD diamonds are available in different grain sizes and designs. They are characterized by longevity and high wear resistance.



Advantages:
 High Wear Resistance
 Diameter of 0,075-30 mm
 Different grain sizes

Application:
 Stainless Steel Wire
 Saw Wire
 Welding Wire
 Copper

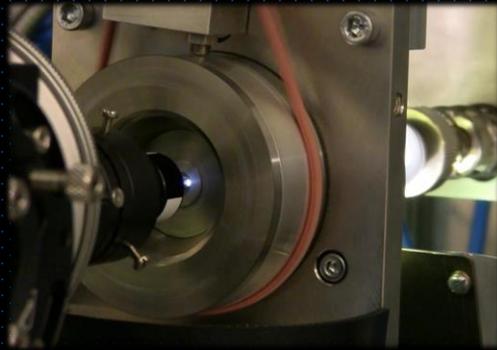
Typical Reduction Angles for different Metals

Verlängerung	Querschnitts- verminderung	Zink Silber Gold	Harte Al- Legierungen Nickel Kupfer	Bronze Kupferlegierungen Edelstahl	High-Carbon Stahl	Heißzug von Wolfram
5 - 9 %	5 - 8 %	14	10	9	8	10
9 - 14 %	8 - 12 %	16	12	11	10	10
14 - 19 %	12 - 16 %	18	14	13	12	12
19 - 33 %	16 - 25 %	22	18	16	15	14
33 - 54 %	25 - 35 %	24	22	18	18	16

High-quality repair service

Repolishing or Recutting - Service

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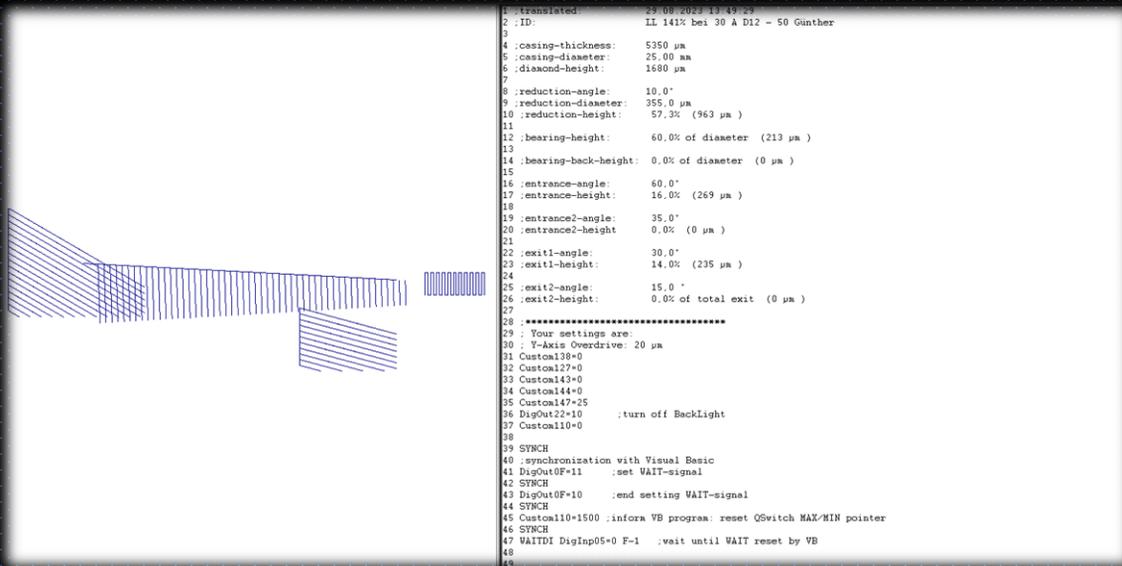


Vassena offers a repair and maintenance service. Benefit from short distances and fast service. Your satisfaction is our greatest success. We always strive to exceed your expectations and provide you with a reliable and timely repair.



Trust through reliability

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Our commitment to the highest standards and best-in-class results has made us a trusted partner for companies around the world.

At Vassena we stand for quality, reliability and excellent customer service. We are ready to assist you with any project. Contact us today to find out how we can support you.

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