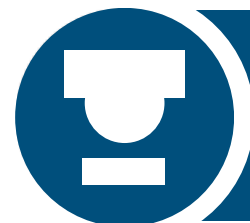


Modular Grinding Concept for SiC Puck Production



MODULAR GRINDING CONCEPT



The **GH SEED DOME GRINDER** is used to grind the flat surfaces of the boule. The surfaces can be ground precisely in alignment with the crystal lattice structure – without any angled clamping of the workpiece. This reduces setup time, increases accuracy, and ensures maximum process stability.



Lower Investment

Up to 50% cheaper than All-in-One systems

Smart Software

Automatic transfer of workpiece to process parameters

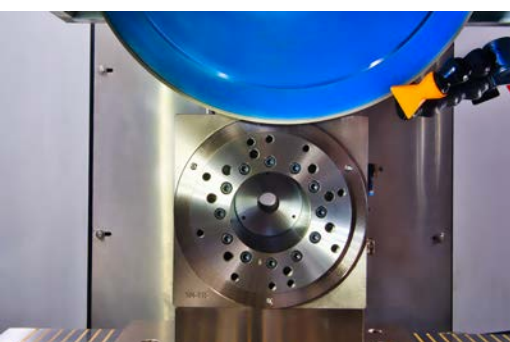
Customized Setup

Flexible workholding solution up to your requirements

High Uptime

No single point of failure – production continues despite downtime

The **GH OD NOTCH GRINDER** is used to precisely grind the diameter of the boules. The exact position of the reference surface is determined based on the measurement results. Depending on customer requirements, either a notch or a flat is applied there. This creates a reliable reference surface for the subsequent process steps in wafer production.



CNC CONTROL: HIGHEST STANDARDS, MAXIMUM FLEXIBILITY

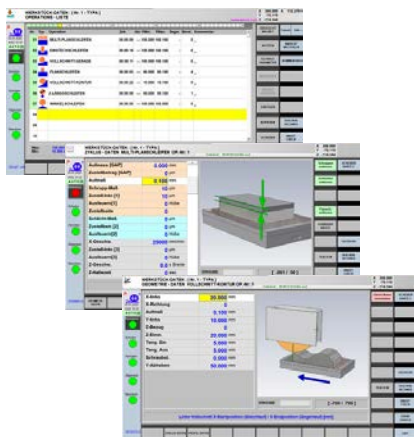
The CNC control system offers flexible adaptation to a wide range of production requirements. Process data such as workpiece, grinding wheel and dressing information are clearly stored in virtual index cards and available for quick changeovers. This function minimizes downtime, increases productivity and ensures a continuous production process.

The control system supports dialog-guided entry of geometry data, which can be entered as absolute dimensions or using the teach-in method. This flexibility facilitates adaptation to different workpieces, from individual parts to series production. The user-friendly structure also enables intuitive operation, even for more complex machining processes.

Thanks to expansion options such as additional axes and grinding spindles, the machine can be individually adapted to specific requirements. Network functionality and a remote maintenance option make the control system future-proof and ideal for use in a networked manufacturing environment.



- Efficient handling
- Flexible contour creation
- Teach-in function
- Scalable performance
- Quick setup
- Future-orientated



Karteikasten Schleifscheiben

Karte: 315 DIAMANT

Spezifikation: Durchmesser 300,000, Breite (mm) 28,000, Typ: Diamant-Scheibe

Name	Ab.	Nr.	Datum	Spezifikation	Typ	Durchmesser	Breite	Arzt
TEST	001	20.02.17	-	-	Hör	400.000	050.000	5
STANDARD	002	20.08.17	514448	-	Hör	400.000	100.000	-
DIAMANT	X	003	23.09.11	-	Hör	400.000	028.000	Da
DIAMANT	004	24.04.15	CS66A82018V3	-	Hör	306.650	010.700	4

Karteikasten Abrichter

Karte: 214 SCHWENKEN

Status: Öffnungs-Winkel 30°, Radius (Ø v. I.) 10.000 x 20.000, Radius (Ø v. U.) 40.000 x 60.000

Name	Ab.	Nr.	Datum	Typ	Radius	Winkel
KLAPP	001	20.11.11	0	0.001	150	-
SCHWENKEN	X	002	21.09.14	7	0.125	30
RADII_RADIUS_3	X	004	24.04.15	0	3	0
DOFFELABRUCHER	005	20.08.18	0	0.0	60	-

Karteikasten Werkstücke

Karte: 315 TYP A

Material: Sonderstahl, Sonderanfertigung, Zylinderkopf

Operational: 30 33, 60 61 11, 3-DIAMANT

Name	Ab.	Nr.	Datum	Material	Sonder	T
TEST	001	22.01.13	-	0	0	0
TEST	002	24.02.05	-	0	0	0
TEST	X	003	20.08.24	-	2	1
TEST	004	23.08.24	-	0	0	0

Karteikasten Konturzüge

Karte: 646 15_KTF_57_R2

eingestellt am: 06/06/24

Material: 15_KTF_57_R2

Name	Ab.	Nr.	Datum	Kommentar	Breite	Arzt	Typ
15_KTF_57_R2	006	24.06.05	-	SCHESSE 11	013.000	004	5/Ar
SCHUM_SEITENSCHESSE	005	21.09.29	-	-	013.000	043	5/Ar
Expant_3	003	21.09.16	-	-	027.142	010	5/Ar
HILT_1	002	20.11.13	-	-	000.000	004	5/Ar
HILT_2	004	20.02.17	-	-	024.000	009	5/Ar
STEG_AUF_STEG_3MM	001	15.02.17	-	3MM SCHUTZ	023.000	010	5/Ar

Type		GH OD NOTCH GRINDER	GH SEED DOME GRINDER
Grinding length	mm	1.000	800
Grinding width	mm	500	400
Grinding height	mm	425	375
Table load (max.)	kg	1.380	700

X-axis – longitudinal movement

Longitudinal movement	mm	20 – 1.050	20 – 850
Longitudinal speed	mm / min	1 – 35.000	1 – 35.000

Y-axis – vertical movement

Distance table to grinding spindle	mm	180 – 625	140 – 515
Vertical speed	mm / min	1 – 4.000	1 – 4.000

Z-axis – transverse movement

Transversal movement (max.)	mm	500	400
Transverse speed	mm / min	1 – 4.000	1 – 4.000

C-axis – workpiece spindle

Center height	mm	150	
Spindle speed	min ⁻¹	1 – 400	
Spindle clamping		hydraulically	

Horizontal grinding spindle

Grinding spindle speed	min ⁻¹	100 – 2.380	100 – 3.180
Grinding wheel peripheral speed	m / s	10 – 35	10 – 35
Grinding spindle motor power	kW	11	11
Grinding wheel, standard	mm	400x100x127	300x50x76,2

Vertical grinding spindle

Grinding spindle speed	min ⁻¹	100 – 6.000	
Grinding wheel peripheral speed	m / s	10 – 35	
Grinding spindle motor power	kW	9	
Grinding wheel, standard	mm	max. 200	

Subject to technical changes.



Who we are

At our site in Homberg (Ohm), Hesse, precision grinding machines and accessories have been manufactured since 1956. Today, more than 12,000 of our machines are in operation worldwide.

Every Geibel & Hotz machine is assembled, commissioned, and subjected to thorough quality control at our headquarters. This ensures the highest standards of precision and reliability.

Our service is centrally coordinated and strengthened by a global network of authorized partners. Working closely with our experienced factory fitters, they provide expert support and dependable service wherever you are in the world.

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