



DIVISION OF  
**CHICAGO BOILER**  
COMPANY SINCE 1891

WAB

# DYNO<sup>®</sup>-Mill - Ceramic

## Models KD 20B / KD 25 / KD 45D / KD 60

CB Mills carries a full-line of DYNO<sup>®</sup>-Mills that are equipped with ceramic parts for a contamination-free environment. The expert design and construction of the DYNO<sup>®</sup>-Mill Series provides for great advantages when used with ceramic materials. From the KD Series to the ECM Series, CB Mills will help you find the mill that best suits your application.



Model shown is the KD 45D.



*Easy Cleaning and Maintenance.*

*A built-in track and carriage system allows for effortless removal of the milling vessel for servicing.*



### *PLC Controls*

*Assure easy-to-use operator interface and include self-diagnosis of process faults, plus automatic announcement of preventative maintenance schedules.*



The contamination-free dispersion and wet grinding of sensitive products require mill equipment of the highest quality and wear resistance. These requirements can be met with high-grade ceramic materials. The DYNO<sup>®</sup>-Mill can be equipped standard with product contacted wear parts of fine ceramic.

# CB Mills / DYNO-Mill: Models KD 20B / KD 25 / KD 45D / KD 60

Model	Motor	Production Capacity *	No. of Agitator Discs	Grinding Container Volume	Weight (approx.)	Dimensions (L x W x H)
<b>KD 20B</b>	25 HP	154-1,100 lbs. / hr.	6	16 liters	1,540 lbs.	59.25 x 32.5 x 60
<b>KD 25</b>	30 HP	220-1,540 lbs. / hr.	9	25 liters	1,760 lbs.	69 x 32.5 x 60
<b>KD 45D</b>	50 HP	396-1,760 lbs. / hr.	8	46 liters	3,520 lbs.	77 x 45.5 x 71
<b>KD 60</b>	60 HP	440-2,860 lbs. / hr.	9	60 liters	3,930 lbs.	83.5 x 45.5 x 71

\* The capacity of the DYNO-Mill depends on the product being processed. Capacities indicated are average – the actual numbers may be lower or higher.

<b>Drive:</b>	Three-phase standard motor, foot mounted, voltage, frequency, mechanical, and explosion protection ratings according to requirements. Agitator shaft speed can be adjusted by using exchangeable belts and pulleys for agitator disc peripheral speeds of 10 / 13 / 16 m/sec.	
<b>Grinding Container:</b>	Jacketed with exchangeable inner cylinder. Container removing device.	
<b>Cooling System:</b>	Grinding container with spiral jacket for maximum heat exchange efficiency.	
<b>Shaft Seal:</b>	KD 20 and KD 25B: Std. Double Lipseal or optional Double Mechanical Seal KD 45D and KD 60: Double Mechanical Seal.	
<b>Separator:</b>	Completely adjustable, self-cleaning dynamic ring gap separation system suitable for media diameters ranging from 0.4mm to 2.0mm.	
<b>Electrical Controls:</b>	Explosion-proof operator interface for placement in Class 1, Div. 1, Group D environments. NEMA 4 control packages are also available.	
<b>Safety and Monitoring Instruments:</b>	Contact pressure gauge in mill inlet and contact thermometer in mill outlet. Capacitive proximity switches for the level control of the seal rinsing liquid. Contact pressure gauge to control the pressure in the shaft seal rinsing circuit. Inductive proximity switches prevent the mill from starting in case the grinding container or front cover is dismantled.	
<b>Materials Options:</b>	Machine parts, that contact the product and are subject to wear, are available in different materials; such as hardened steel, stainless steel, hard chrome-plated stainless steel, polyurethane, tungsten carbide, or ceramic.	
<b>Temperature and Pressure Limits:</b>	Product Temperature: 40° – 185° F Pressure Grinding Container: 60 PSI Temperature Cooling System: 50° - 175° F	Pressure Cooling System: max. 85 PSI Cooling Water Quantity: 3.5 - 8 GPM
<b>Connections:</b>	Product inlet/outlet 1½", cooling water 1", seal cooling system ½"	

Appropriate pumps & electrical controls available to meet your requirements. Grinding Media shipped from stock.

The DYNO-Mill KD Series is designed to be used for continuous dispersion and fine wet grinding of solids in a liquid system. It is important that no uncontrolled reactions occur as a result of pressure, temperature, or milling action. Product should remain flowable after processing.

**SPECIFICATIONS AND TECHNICAL DATA SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.**

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*For additional information or to arrange for a demonstration, please contact us.*



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