

## Grinding units W20\*\* for Simoloyer<sup>®</sup> CM20

Types of grinding-units W20**			
standard type (201)	smaller unit (101)	comments	ports
W20-20lm	W20-10lm		1
W20-20lm-SiN	W20-10lm-SiN	standard (batch-) processing	1x main port
W20-20lm-THM	W20-10lm-THM		1x side port
	W20 10III 11IW		
W20-20lm-s1		for semi-continuous processing	1x main port 1x side 4x tangential
W20-20lm-s2	W20-10lm-s2		
W20-20lm-s2-SiN		for auto-batch & batch processing	2x main ports
W20-20lm-s2-THM			1x side port
Special types:			
W20-20lm-Stl	standard (batch-) processing vessel and rotor coated with CoCr-based wear-resistant coating		1x main port
W20-20lm-Ni <sup>2)</sup>	standard (batch-) processing vessel and rotor coated with Ni-based wear-resistant coating		<sup>2)</sup> : scheduled
W20-20lm-d2	standard (batch-) processing additional discharging-ports		1x main ports 1x side ports 2x discharging ports
applications / fe			
applications	HEM, MA, RM, processing under vacuum, inert-gas, air		
operation pressure <sup>1)</sup>	1x10 <sup>-4</sup> mbar0,5 bar (overpressure; option: up to 2 bar overpressure)		
net weight	80-110kg [depending on type of grinding-unit (grinding-media excluded)]		
nominal volume (nominal power)	W20-20lm**: 20 litres (1,1 kW/l) W20-10lm**: 10 litres (2,2 kW/l)		
operation temperature	process temperature usually 20-50°C		
type THM	chamber-lining with WC-Co; rotor blades THM, shaft covered with THM-coated bushes for Fe-		
	contamination free processing, in particular carbide-, oxide-, and nitride- based hard-phased materials chamber lined with Si3N4 plates, rotor blades Si3N4 , shaft covered with ceramic-coated bushes for Fe-		
type SiN	contamination free processing, in particular ceramic and composite materials		
cooling system	vessel / bearing-flange / bearing support, connections vessel G½, connection bearing-flange/support: G3/8 cooling media: usually water/glycol-mixture (possible as well: oil) Separated cooling system of pre-seal unit from flange & vessel allows non-cooling (<80°C)or use of hot or cooled medium (HTB/TTB) in the double-jackets of flange & vessel (only for standard grinding-units)		
type TTB / HTB	Medium - High Temperature Operation, Reactive Milling, Bonding as well as Low Temperature Operation (only for standard types of grinding-units; TTB for W20**-THM/SiN upon inquiry)		
connections	air-lock DN50		ports W20-20lm-s1: DN40)
material vessel <sup>1)</sup>	stainless steel 1.4301 (in ca		
material rotor <sup>1)</sup>	stainless steel 1.4301/Stellite <sup>®</sup> /THM/WC-Co/SiN as-milled usually <150µm, depending on application < 3mm		
product <sup>1)</sup>			
PBR <sup>1)</sup>	usually 1:10 1:20		PBR = powder to ball ratio]
grinding media <sup>1)</sup>	100Cr6 (standard)	options: stainless-steel, ZrO <sub>2</sub> , S	
amount of grinding-	max. 40% of volume, usual	5 6 5	ax-values might be higher]
media <sup>1)</sup> <sup>1)</sup> : depending on application		W20-10lm*: 10-15kg	
examples:	(W20-20lm)	(W20-20lm-s2)	(W20-20lm-s1)

technical data subject to alterations

