

Grinding units W100** for Simoloyer[®] CM100

Types of grinding-units W100b**					
standard types (100 l)	approx. weight	commer	nts	ports	
W100b	(600kg)	standard	(batch-) processing	1x main 1x side	
W100bsu	(600kg)		(batch-) processing, auxiliary por all (e. g. flanges for measurement	ts 1x main	
W100b-s2	(620kg)	for auto-	batch & batch processing	2x main 1x side	
W100b-s1	(630kg)	for semi-	continuous processing	1x main 1x side 4x tangential	
W100b-s12			ressel (for R&D-purposes) tion of W100-s1 and W100-s2	3x main 1x side 4x tangential	
Further types:					
W100b-s5	(630kg)	improved	d discharging processing	1x main 2x discharging (main)	
W100b-SiN	(620kg)	standard	(batch) processing	1x main	
W100b-THM	(650kg)	standard	(batch-) processing	1x side	
W100b-50lm	standard (batch-) processing, smaller grinding-unit (volume 50 ltr.)			r.) 1x main	
W100b-75lm	standard (batch-) processing, smaller grinding-unit (volume 75 ltr.) 1x side			r.) 1x side	
applications / features					
applications	HEM, MA, RM, processing under vacuum, inert-gas, air				
operation pressure ¹⁾	1x10 ⁻⁴ mbar0,5 bar (overpressure; option: up to 2 bar overpr				
net weight	500-650kg [depending on type of grinding-unit (grinding-media excluded)				
nominal volume (nominal	W100b: 100 litro	es (1,1 kW/	W100b-50lm**: 50 litres (2,2 kW/l) W100b 75lm**: 75 litres (1.45 kW/l)		
power)	W1006-/5IM**: /5 litres (1,45 KW/I)				
operation temperature	process temperature usually 20-50°C chamber-lining with WC-Co; rotor blades THM, shaft covered with THM-coated bushes for Fe-				
type THM	contamination free processing, in particular carbide-, oxide-, and nitride- based hard-phased materials				
type SiN	chamber lined with Si3N4 plates, rotor blades Si3N4, shaft covered with ceramic-coated bushes for Fe- contamination free processing, in particular ceramic and composite materials				
cooling system	vessel / side-walls / bearing-flange / bearing support / rotor: G ¹ / ₂ -G ³ / ₄ (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 HTB	Medium - High Temperature Operation, Reactive Milling, Bonding (only for standard types of grinding-units)				
connections	air-lock DN63-DN100 (tangential ports W100b-s1: DN63)				
material vessel ¹⁾	stainless steel 1.4301 (in case of lining: see above)				
material rotor ¹⁾	stainless steel 1.4301/Stellite [®] /THM/WC-Co/SiN				
product ¹⁾	as-milled usually <150µm, depending on application < 3mm				
PBR ¹⁾				[PBR = powder to ball ratio]	
grinding media ¹⁾ amount of grinding- media ¹⁾	$\begin{array}{llllllllllllllllllllllllllllllllllll$				
¹⁾ : depending on application	1				
examples: (W100b)			(W100b-s12)	(W100b-s2)	

technical data subject to alterations