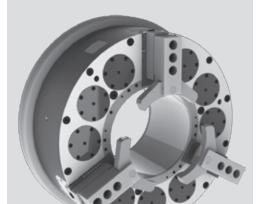
BIG BORE®

INCH serration

Front-end spring clamp power chucks EXTRA LARGE THROUGH HOLE Ø 275 - 565 mm ■ chuck size 600 - 1020

- Clamping with spring packs
 Rapid and clamping stroke



proofline® series

fully sealed-low maintenance

Application/customer benefits

- End machining of long pipe/self centering clamping
- Long jaw stroke to clear upset piping
- Highest productivity/open and clamp time < 3 sec.
- Low maintenance = high availability of the machine
- Step mode for partial opening/clamping for shimming
- Full spindle bore can be used

Technical features

- Self centering clamping with either 9/6/3 spring packs
- Encapsulated spring packs
- Opening via integrated cylinder
- Permanent grease lubricated for constant grip force
- Step mode for opening/clamping for shimming
- Long jaw stroke with rapid and clamping stroke
- Low air consumption
- Stroke control
- proofline® chucks = fully sealed low maintenance

Standard equipment

Chuck with mounting bolts 1 set of soft top jaws 1 set of T-nuts and bolts

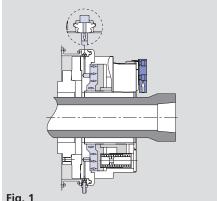
Ordering example

Big Bore SC 850-395 ld. No. 053350

Accessories

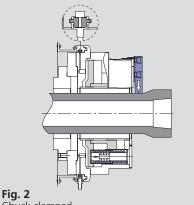
Air control AC-SC

The reliable principle: Clamping via encapsulated spring packs/opening via air cylinder



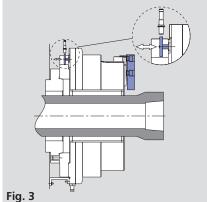
Chuck open (only at stopped spindle). The SMW profile seal collapses radial under the air pressure and seals against the chuck body. The cylinder chamber is filled.

The piston is compressing the springs, the jaws



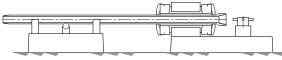
Chuck clamped.

The SMW profile seal lifts off the chuck body due to elastic force. The springs expand and transmit their force onto the jaws via the wedge hook drive. The spindle can rotate.

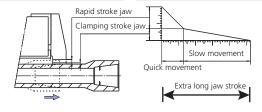


Stroke control.

The position of the jaws can be monitored via a mechanical cam by 1 or 2 proximity



End machining of tubes with front and rear chucks



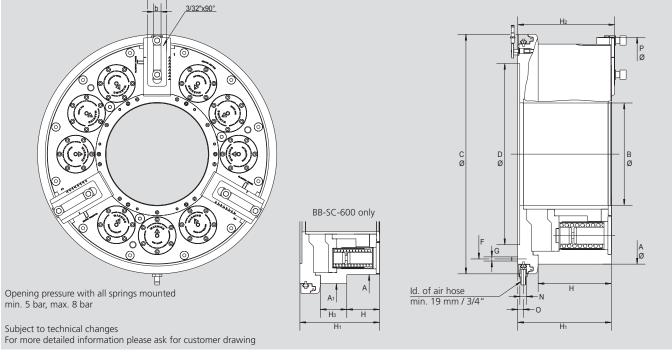
Technical data

SMW-AUTOBLOK Type			BB-SC 600-275			BB-SC 850-395			BB-SC 1020-565		
ld. No.		053540			053350			053570			
Chuck trough hole	mm	275			395			565			
Total stroke per jaw	mm	25.4			27			27			
Rapid stroke per jaw*	mm	16.9			15		15				
Clamping stroke per jaw	mm	8.5			12		12				
Operating pressure at 9 springs	bar	5 bar			5 bar		5 bar				
Max. gripping force at 3/6/9 springs	kN	50	100	150	57	113	170	57	113	170	
Max. speed	r.p.m	1000		700		420					
Air consumption to open at 5 bar (73 psi)	liter	60		115		139					
Weight (without jaws)	kg	510			930			1260			
Moment of inertia	kg·m²	34		101		223					

^{*}must not be used for clamping

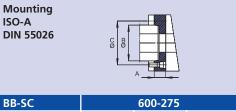






SMW-AUTOBLOK Type Mounting			BB-SC 600-275	BB-SC 850-395	BB-SC 1020-565 Z870		
			Z520	Z700			
	Α	mm	605	850	1020		
(BB-SC-600-275)	A 1	mm	675	-	-		
Through hole	В	mm	275	395	565		
	C	mm	750	925	1095		
	D H6	mm	520	700	870		
	F	mm	640	810	980		
	G		M12 (12x)	M16 (12x)	M16 (12x)		
	Н		126.7	282.5	282.5		
	H1		307.5	361.5	361.5		
	H2		320.5	374.5	374.5		
(BB-SC-600-275)	Нз		102	-	-		
	N		G 3/4"	G 3/4"	G 3/4"		
	0		21.5	21.5	21.5		
max. swing	P		655.8	902.8	1074		
	a		58	73	73		
	b		25.5	30	30		
Rapid stroke		mm	16.9	15	15		
Clamping stroke		mm	8.5	12	12		
Total clamping stroke		mm	25.4	27	27		

Spindle adapters



BR-2C	600-275			850-395			1020-565			
Spindle nose	A11	A15	A20	A15	A20		A15	A20	A28	
ld. No.	on request	053590	053591	053362	053358		on request	053595	053596	