

DESIGN RD 1000

- For use with high pressure spray guns SP 1000, SP 1000 ME and high pressure lances. After changing the lance it is also useable for SP 400.
- Dust tight, encapsulated eddy current brake.
- Cooling sleeve.
- Wear resistant rotary action with labyrinth seal.
- Hollow shaft precisely supported by bearings.
- Nozzle inserts recessed in nozzle head.
- With protective cover.
- Hose connecting nipple (code no. 01.02981.0454) connection 3/8" to M 24 x 1,5

Typical applications

- Cleaning facades, removing old paint.
- Cleaning concrete, floor tiles and paving.
- Paint spray booth cleaning, (oil, paint overspray etc.) booth floor grids, conveyor chains.
- Removing old expansion joints.



When working with hand held guns or lances the max. permissible axial reaction force is 250 N. If the reaction force exceeds 150 N, the blasting tool must be fitted with a support device such as a shoulder stock.

Version 1 & 2



Version 3



Technical data

	Version 1	Version 2	Version 3
Operating pressure max.:	1000 bar		
Flow rate max.:	60 l/min		28 l/min
Pressure loss at 25 l/min:	10 bar		
Pump power:	37 - 70 kW	22 - 50 kW	15 - 30 kW
Speed of rotation:	1000 - 2000 min ⁻¹		
Weight approx.:	1.6 kg	1.6 kg	1.7 kg
Length:	166 mm		
Diameter:	60 mm		
Connection A/F:	24 mm		
Connection thread:	G 3/8"		
Nozzle inserts:	2 x design "A"		2 x design "P"

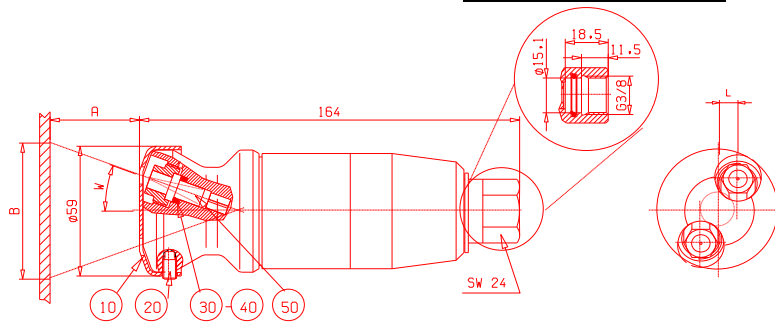
For nozzle inserts see reverse.

RD 1000	Code no.
Version 1*	09.00530.2532
Version 2*	09.00530.2542
Version 3*	00.00786.0170

* To select see reverse.

ROTORJETS

ACCESSORIES FOR DESIGN RD 1000 VERSION 1 + 2



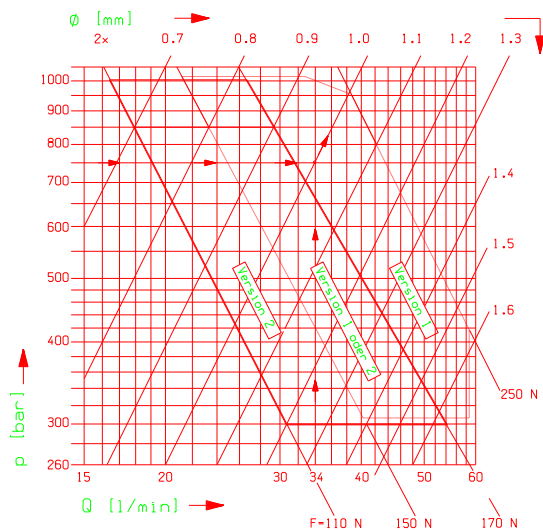
RD 1000	W Nozzle angle	L Nozzle offset (mm)	A Stand off distance (mm)	B Working width (mm)
Version 1	20°	8	15	55
			45	70
			95	100
Version 2	27°	8	15	55
			45	85
			95	140

Item no.	Qty.	Description	Code no. per single item
10	1	Protect. cover	01.01894.0021
20	3	Set screw	02.00894.0107
30	2	O-ring	04.00730.0033
40	2	Support ring	04.00738.0405

Item no.	Nozzle inserts: Design "A" Round jet efficiency factor: 0.95					
50	Code no. 04.05318.0xxx xxx = see table for last 3 digits of code no.					
	Ø (mm)	xxx	Ø (mm)	xxx	Ø (mm)	xxx
	0.7	072	1.1	076	1.5	025
	0.8	073	1.2	077	1.6	080
	0.9	074	1.3	078		
	1.0	075	1.4	079		

Example: Nozzle insert design "A"
Ø 0,7 mm = code. 04.05318.0072

Nozzle insert selection and optimum performance range



Example:

Parameters

Operating pressure: 750 bar
Flow rate: 34 l/min

Select

Correct nozzle Ø: 2 x 1.0 mm
Rotorjet with W = 20°

- Ø = Nozzle insert diameter
- p = Operating pressure
- Q = Flow rate (without leakage)
- F = Reaction force

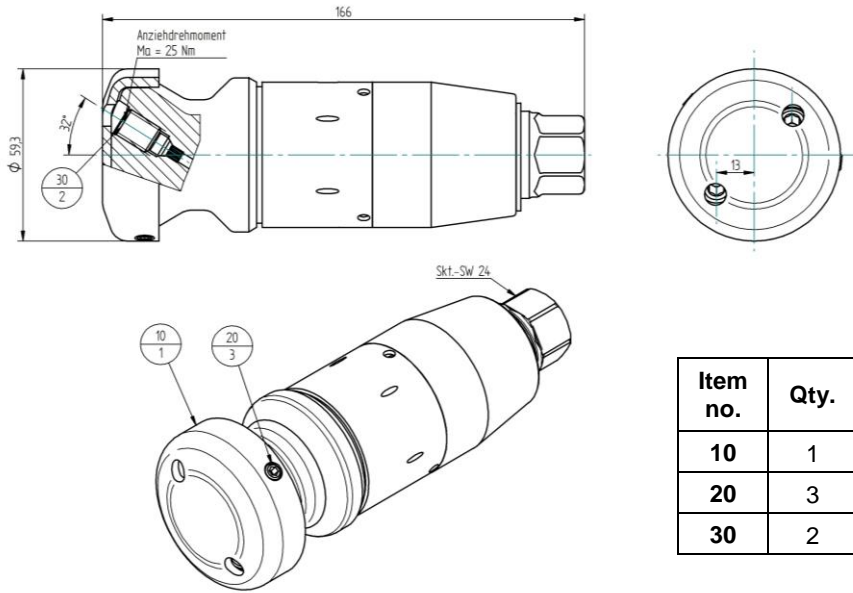


Do not exceed right side limit of performance range: Danger of overpowering!

For safety rules governing reaction force, see previous page!



ACCESSORIES FOR DESIGN RD 1000 VERSION 3



Item no.	Qty.	Description	Code no. per single item
10	1	Protect. cover	01.01894.0050
20	3	Set screw	02.00894.0107
30	2	Nozzle design "P"	04.00790.xxxx

Item no.	Nozzle inserts: Design "P", Round jet efficiency factor: 0.7					
30	Code no. 04.00790.0xxx xxx = see table for last 3 digits of code no					
	Ø (mm)	xxx		Ø (mm)	xxx	
	0.6	092		0.75	192	
	0.65	186		0.8	094	
	0.7	093		0.9	095	

Example: Nozzle insert design "P",
Ø 0.7 mm = Code no. 04.00790.0093

Nozzle insert selection and optimum performance range

		Operating pressure									
		200	300	400	500	600	700	800	900	1000	
2x Nozzle - design P	bar mm										
	0.60								10.2	10.8	
	0.65								11.3	12.0	12.7
	0.70						11.4	12.3	13.1	13.9	
	0.75					11.9	13.1	14.1	15.1		
	0.80					13.6	14.9	16.1			
	0.90				15.4	17.2	18.8				
	1.10			19.9	22.9						
1.30	22.7	27.8									

Flow - l/min
+ Leakage 0.3 – 1.0 l/min

