

RD MASTERJETS

- For use with high pressure spray guns (e.g. SP 3000 E) and high pressure lances.
- Built-in three-step eddy current brake.
- Cooling sleeve.
- Wear resistant rotary action with HPS sealing technology / labyrinth seal (1800 bar).
- Hollow shaft precisely supported by bearings.
- Nozzle inserts are countersunk in the nozzle carrier.
- With blast back shield.



TYPICAL APPLICATIONS (FOR HANDHELD USE)

- For descaling and removal of paint from metal surfaces.
- To clean grids, shuttering/formwork, etc.
- Removal of concrete surfaces.
- To clean, remove paint from ships' hulls, turbines and ships' propellers and for "spot blasting".



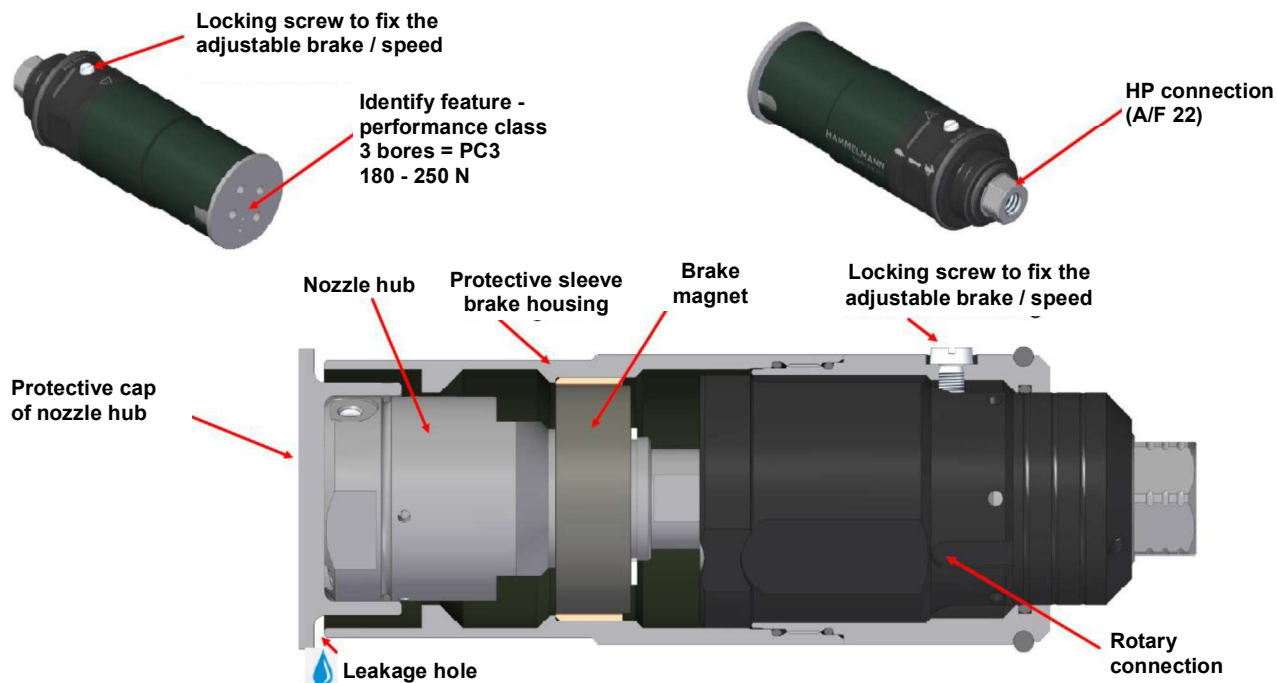
When working with hand held guns or lances the max. permissible axial reaction force is 250 N.

If the reaction force exceeds 150 N, the blasting tool must be fitted with a support device such as a shoulder stock.

Note

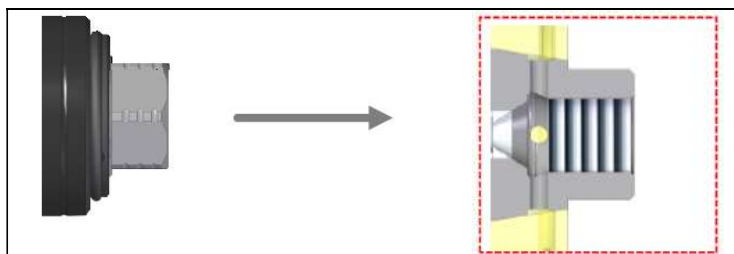
For detailed information see document "Product information RD MASTERJET".

CONSTRUCTION OF THE RD MASTERJET



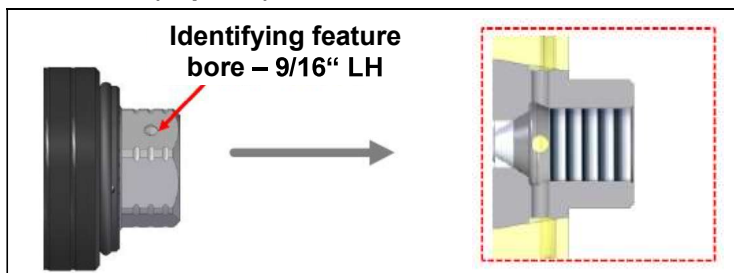
CONNECTION THREADS

Metric



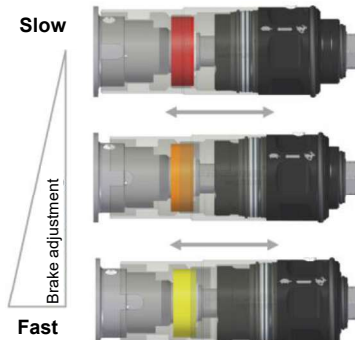
HP connection: M14 x 1.5 LH

American (imperial)



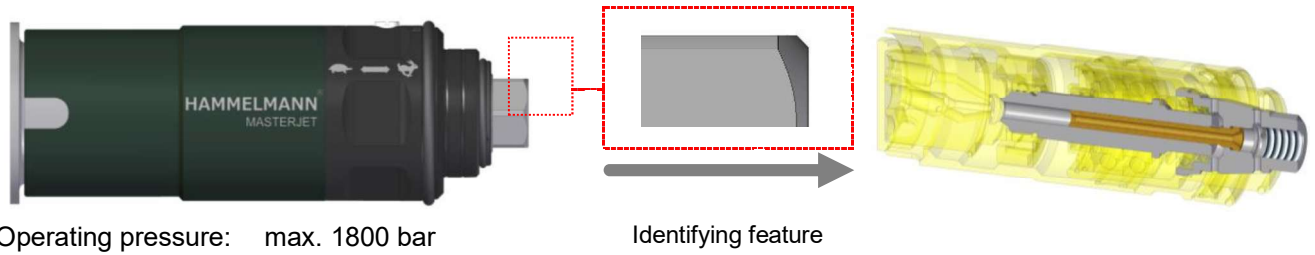
HP connection: 9/16" UNF LH

BRAKE ADJUSTMENT

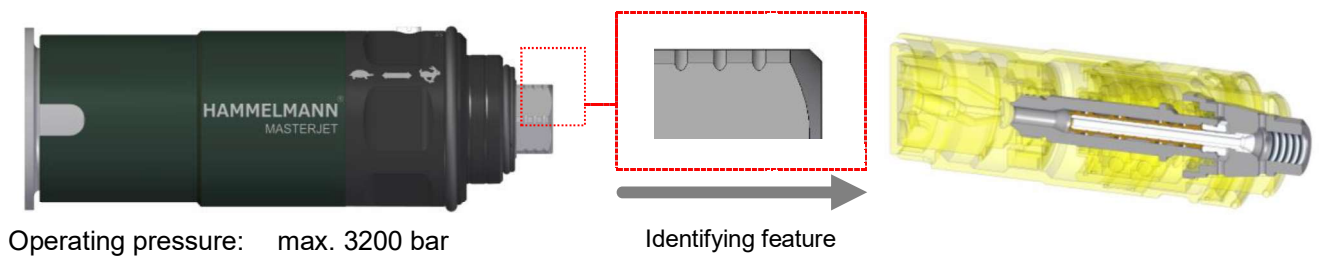


DIFFERENCES 1800 AND 3200 HPS

▪ Masterjet 1800



▪ Masterjet 3200

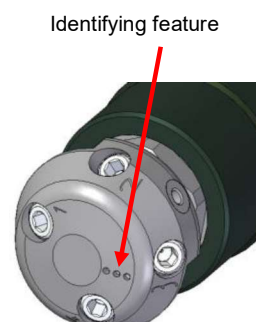


RD MASTERJETS PC3

5 NOZZLE DESIGN

13.A.26 – 08/2022

RD MASTERJETS – Performance class **PC3 M**
FOR USE ON HP SPRAY GUNS



RD MASTERJET 3200 PIPE HPS PC3	
Code no.	
00.00786.0331	
HP connection:	M14 x 1.5 LH (60° metallic seal cone)
Operating pressure:	max. 3200 bar min. 500 bar
Flow rate:	max. 50 l/min
Leakage:	approx. 0.2 - 0.6 l/min
Length:	190 mm
Diameter:	52 mm
Brake:	adjustable magnetic brake (variable speed)
Sealing:	HPS - 3200 bar – i/d 3.2 mm (industrial design)
Reaction force:	150 - 280 N [see nozzle table]
Rotation speed:	approx. 1000 - 3500 min ⁻¹ at 280 N reaction force approx. 800 - 2500 min ⁻¹ at 150 N reaction force 3-stage adjustable via eddy current brake
Nozzle hub:	5 nozzles (5 nozzles design "P or T", equal nozzle Ø!)
Nozzle inserts:	Nozzle design "P" (sapphire), max. 3000 bar Nozzle design "T" (diamond), max. 3200 bar Thread M10 (not part of the subassembly)
Plug:	01.05214.0045 (not part of the assembly)
Protective cap:	upon request
Spare parts kit:	00.05617.0030
Adapter for SP 1000:	01.05320.0256 max. 1000 bar, 3/8"
Total weight:	1.3 kg

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RD MASTERJETS PC3

5 NOZZLE DESIGN

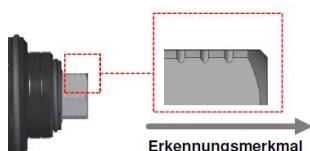
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Nozzle table (at maximum reaction force)

RD MASTERJETS **PC3 - 3200 bar**

Pressure	5 nozzles design "P"	Flow rate	Reaction force	
			<u>without</u> angle attack	<u>with</u> angle attack
3000	5 x 0.40 mm	21 l/min	265 N	200 N
2500	5 x 0.45 mm	25 l/min	280 N	215 N
2000	5 x 0.50 mm	27 l/min	275 N	210 N
1500	5 x 0.55 mm	29 l/min	250 N	190 N

3200 bar
Identifying feature HPS
[3 grooves at key flat]



The nozzle selection tables are exemplary. Other nozzle configurations are also possible in regard of the permissible reaction force (150 - 280 N).



If the nozzle inserts chosen are not suitable and cause a too high rotational speed of the nozzle hub, the rotorjet may suffer irreparable damage.

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