

Simplex Jet Grouting Systems (HDI) D 88.9 – D 114.3

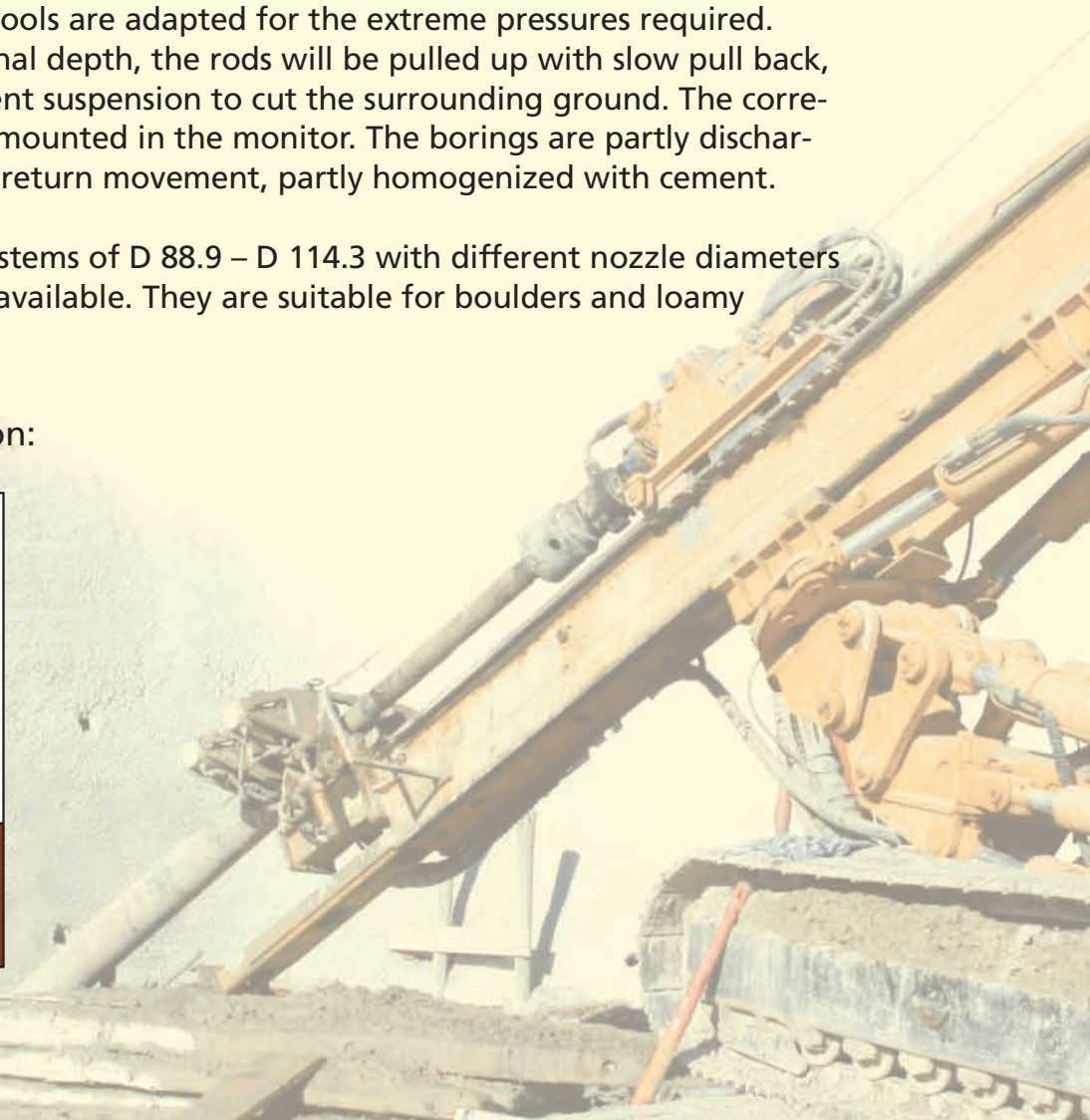
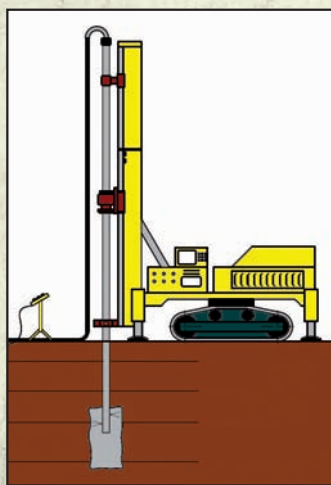
with rotary head and hydraulic chuck

These drilling systems are especially used for grout injection to improve the ground conditions by i.e. consolidation, vertical shoring or lining slicing the soil structure by means of a jet of grout at pressures of 100 to 600 bar.

This drilling process is normally carried out using a rotary head and external flushing. The drilling tools are adapted for the extreme pressures required. Having reached the final depth, the rods will be pulled up with slow pull back, allowing a jet of cement suspension to cut the surrounding ground. The corresponding nozzles are mounted in the monitor. The borings are partly discharged with the flushing return movement, partly homogenized with cement.

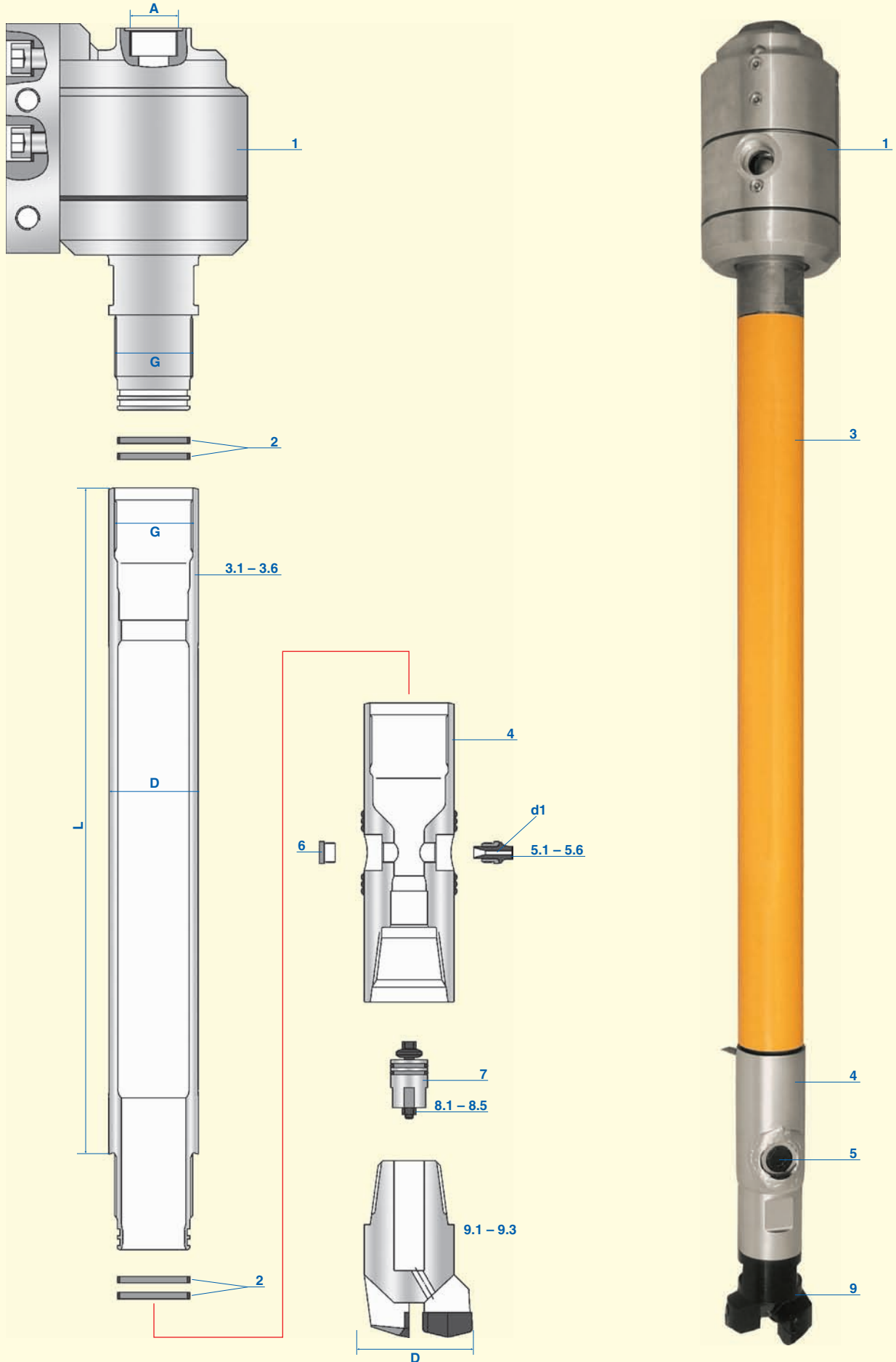
There are complete systems of D 88.9 – D 114.3 with different nozzle diameters and types of drill bits available. They are suitable for boulders and loamy grounds.

Sample of application:



Simplex Jet Grouting Systems

with rotary head and hydraulic chuck



Simplex Jet Grouting System D 88.9

with rotary head and hydraulic chuck

Pos.	Description
1	Simplex jet grouting flushing head D 88.9, 1 start, con. RHT male (2 starts, cyl. RHT on option) (G) x A = G 1 1/4" RHT female
2	Seals
3	Jet grouting simplex tube D 88.9, 1 start, con. RHT. (2 starts, cyl. RHT on option) (G) x 8.8mm wth. Quality casing: high tempered steel; Welding ends: high tempered steel, friction welded
3.1	500 mm length
3.2	1000 mm length
3.3	1500 mm length
3.4	2000 mm length
3.5	3000 mm length
3.6	4000 mm length
4	Jet grouting simplex monitor D 88.9, 1 start, con. RHT female (2 starts, cyl. RHT female on option) x 2 7/8" API Reg. RHT female, short version, with 2 nozzle seats M 20 x 1.5mm
5	Jet grouting nozzles M 20 x 1.5mm
5.1	d1 = 2.0mm
5.2	d1 = 2.5mm
5.3	d1 = 3.0mm
5.4	d1 = 3.5mm
5.5	d1 = 4.0mm
5.6	d1 = 4.5mm
6	Sealing plug M 20 x 1.5mm
7	Jet grouting automatic valve for jet grouting simplex monitor D 88.9 without spring
8.1	Jet grouting spring blanc
8.2	Jet grouting spring green
8.3	Jet grouting spring copper
8.4	Jet grouting spring red
8.5	Jet grouting spring blue
9	Rotary bit D 88.9 x 2 7/8" API Reg. RHT, short version, male x D 127mm, 3 wings with TC plates
9.1	Rotary bit D 88.9 x 2 7/8" API Reg. RHT, short version, male x D 127mm, 3 wings with special TC inserts

Tool

Twin-bracket to fix the drive thread between jet grouting flushing head and jet grouting simplex tube

Signs & Symbols

LHT = left hand thread; RHT = right hand thread; D = outer diameter; d = inner diameter; cyl. = cylindrical; con. = conical; SF = spannerflat; L = length; wth = wall thickness; G = thread connection.

The following threads are on offer: right hand, left hand, cylindrical or conical. All casings can be made friction-welded or with nipples.

Please note that this production sheet shows only standard versions due to the lot of possible tool variations. Special designs on request.

Simplex Jet Grouting System D 114.3

with rotary head and hydraulic chuck

Pos.	Description
1	Simplex jet grouting flushing head D 114.3, 2 starts, cyl. RHT male (G) x A = G 1 1/2" RHT female
2	Seals
3	Jet grouting simplex tube D 114.3, 2 starts, cyl. RHT (G) x 8.8mm wth. Quality casing: high tempered steel; Welding ends: high tempered steel, friction-welded
3.1	500 mm length
3.2	1000 mm length
3.3	1500 mm length
3.4	2000 mm length
3.5	3000 mm length
3.6	4000 mm length
4	Jet grouting simplex monitor D 114.3, 2 starts, cyl. RHT female x 3 1/2" API Reg. RHT female, with 2 nozzle seats M 22 x 1.5mm
5	Jet grouting nozzles M 22 x 1.5mm
5.1	d1 = 2.0mm
5.2	d1 = 2.5mm
5.3	d1 = 3.0mm
5.4	d1 = 3.5mm
5.5	d1 = 4.0mm
5.6	d1 = 4.5mm
6	Sealing plug M 22 x 1.5mm
7	Jet grouting automatic valve for jet grouting simplex monitor D 114.3, without spring
8.1	Jet grouting spring blanc
8.2	Jet grouting spring green
8.3	Jet grouting spring copper
8.4	Jet grouting spring red
8.5	Jet grouting spring blue
9	Rotary bit D 114.3 x 3 1/2" API Reg. RHT male x D 150mm, 3 wings with TC plates
9.1	Rotary bit D 114.3 x 3 1/2" API Reg. RHT male x D 150mm, 3 wings with special TC inserts

Tool

Twin-bracket to fix the drive thread between jet grouting flushing head and jet grouting simplex tube

Signs & Symbols

LHT = left hand thread; RHT = right hand thread; D = outer diameter; d = inner diameter; cyl. = cylindrical; con. = conical; SF = spannerflat; L = length; wth = wall thickness; G = thread connection.

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