Carbonitrided Steels - Brittle surface

1944

Grinding

	Steps	PG	FG	FG 2	FG 3
Surface	Type	SiC Foil #320	SiC Foil #500	SiC Foil #1200	MD-Largo
	Disc speed (rpm)	300	300	300	150
Abrasive	Type				DiaPro Allegro/Largo 9 µm
	Predosing/dosing				3/6
Lubricant	Type	Water	Water	Water	
	Predosing/dosing				
	Force (N)	30	30	30	30
	Holder direction	>>	>>	>>	>>
	Holder speed (rpm)	150	150	150	150
	Time (min)	1	1	1	5

Polishing

	Steps	DP	DP 2
Surface	Type	MD-Dac	MD-Nap
	Disc speed (rpm)	150	150
Abrasive	Type	DiaPro Dac 3 µm	DiaPro Nap B 1 µm
	Predosing/dosing	3/10	3/14
Lubricant	Type		
	Predosing/dosing		
	Force (N)	30	20
	Holder direction	>>	>>
	Holder speed (rpm)	150	150
	Time (min)	4	1

Method comments

The method is developed to fit a standard equipment configuration with 30 mm specimen on 300mm disc. Dosing levels are valid for following equipment: Tegramin, AbraPol and LaboPol

For advice on how to adjust the method to fit your equipment, please take a look at Preparation Parameters.

The preparation time for the plane grinding (PG) step depends very much on the condition of the samples and if they are prepared as single specimens or clamped in a specimen holder. Please check the samples after the first step and repeat it if necessary.

Take a look at Preparation Parameters