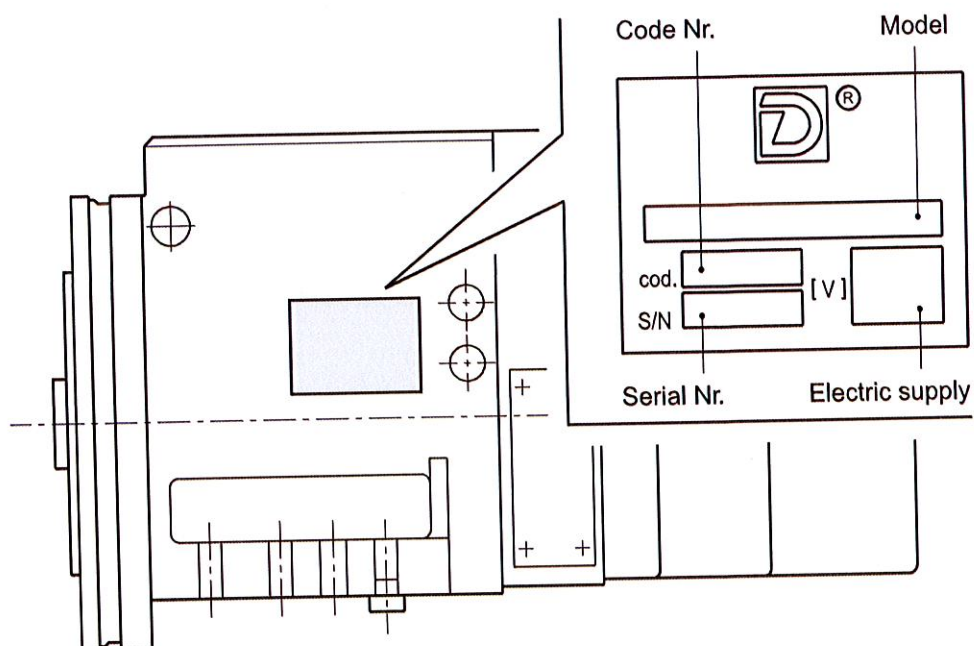


2 - TURRET IDENTIFICATION

2.a - Turret name plate

The details for turret identification are printed on a name plate fixed on turret housing.



2.b - Model identification

SM - P - * - * - * - * /30 - * - E* - *

CLAMP. /UNCLAMPING SYSTEM
PNEUMATICALLY OPERATED

SIZE	CODE
200	20

VERSION	CODE
STANDARD	—
AXIAL THROUGH BORE	PA

SERIE	30 ÷ 39 (1)
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POSITIONS	CODE
Nr. 8 Pos.	8
Nr. 12 Pos.	12

OPTIONALS

E0 CONTROL UNIT FOR
REMOTE INSTALLATION

3~ VOLTAGE SUPPLY	
230	230 VAC - 3~ 24 VDC
400	400 VAC - 3~ 24 VDC

CODE	VERSION
—	RIGHT
S	LEFT

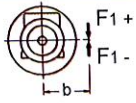
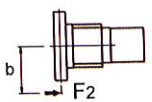
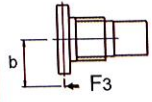
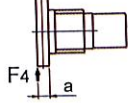
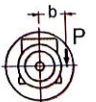
(1) From 30 to 39 the performance and the overall dimensions do not change.

3 - CHARACTERISTICS AND PERFORMANCES

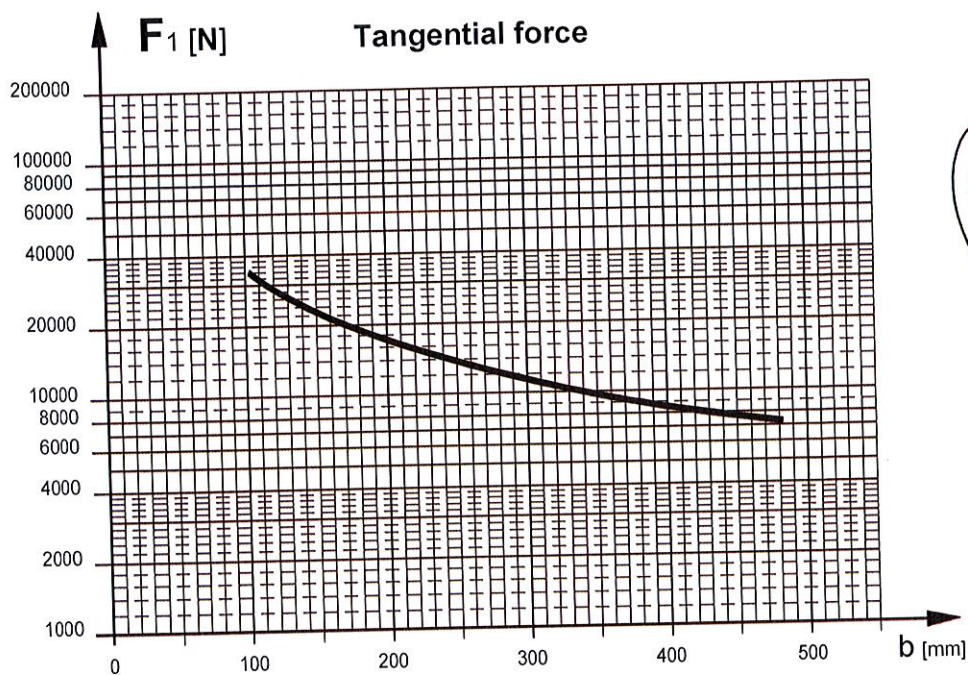
3.1 - Technical data

Size		SM-P-20		
Tool stations		N°	8÷12	
Inertia of transportable masses		Kgm ²	3	5
<u>Positioning times:</u>				
one step index time (acc. / dec. included)	30°	s	0,24	0,31
	45°	s	0,30	0,38
	180°	s	0,74	0,82
step-less rotation time	30°	s	0,10	0,10
	45°	s	0,15	0,15
Unclamping time	T _s	s	0,12	
Clamping time	T _b	s	0,12	
Indexing frequency	α = 90°	Cycle/min	12	10
Indexing accuracy		Deg°	±4"	
Repeatability accuracy		Deg°	±1,6"	
Pneumatic working pressure (50μ filter)		bar	5 ± 20%	
Electric supply - Inputs / Outputs			see electric diagram	
Mass (without disc)		Kg	90	
Ambient temperature range		°C	5 ÷ 40	
Coolant supply : (Filtering ≤ 150 μm)				
• Costant flow		bar	7	
• Pressure cut-off during turret rotation		bar	14	
Protection degree (DIN 40050)			IP 65	

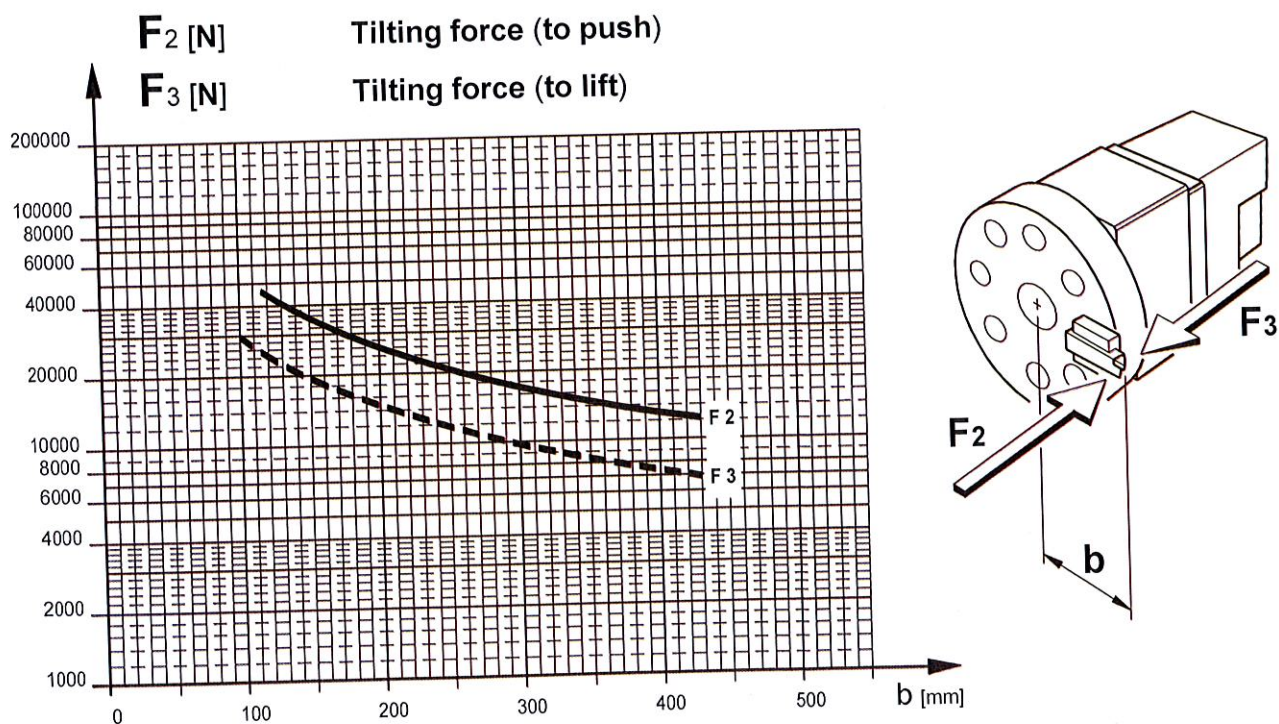
3.2 - Loading capacity

	Max. tangential torque	F1xb	Nm	3.500
	Max. tilting torque to push	F2xb	Nm	5.200
	Max. tilting torque to lift	F3xb	Nm	3.000
	Max. radial tilting torque	F4xa	Nm	3.000
	Unbalancing torque (during turret rotation)	Pxb	Nm	40

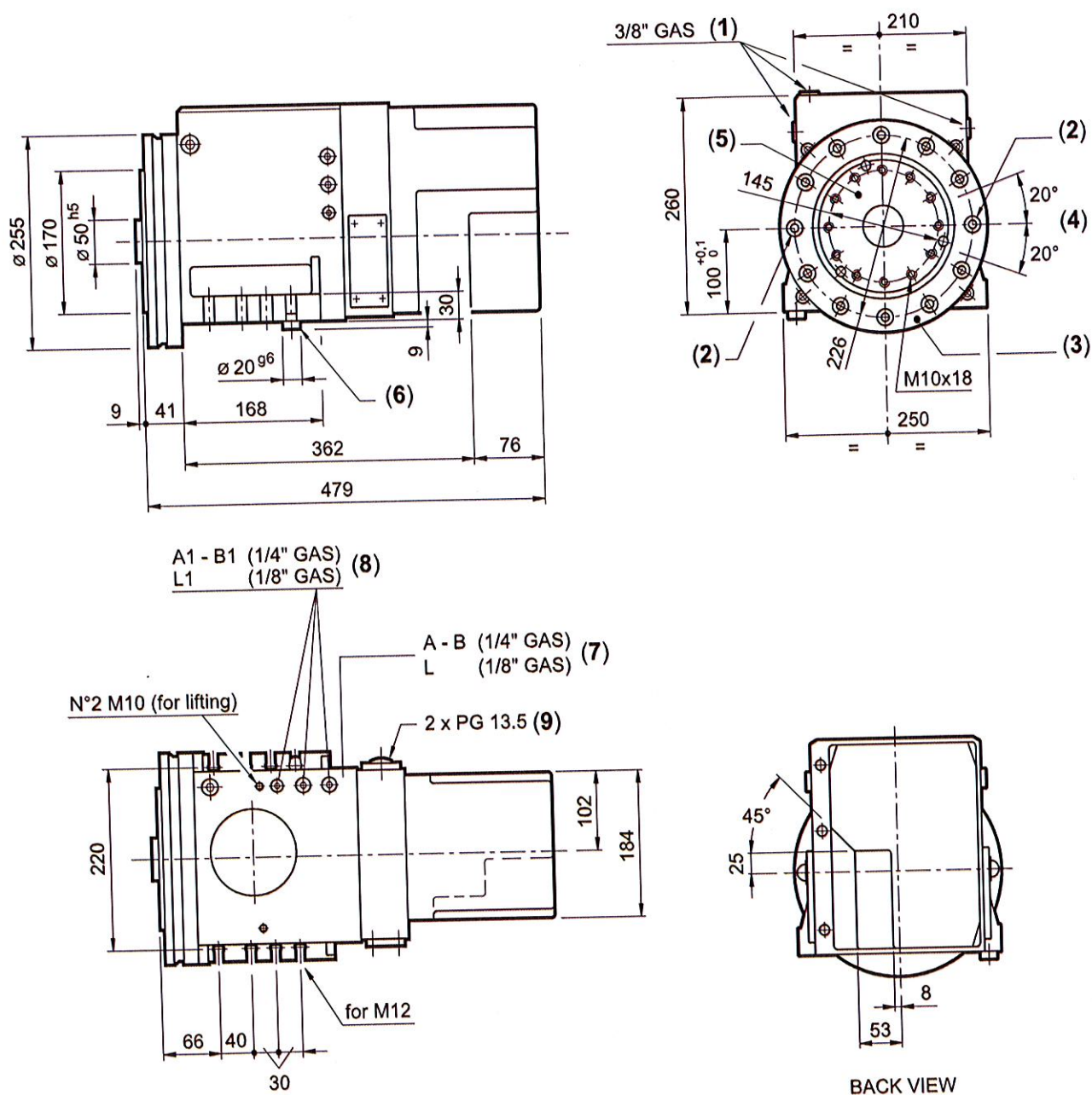
3.3 - SM-*-20 Duty performances



The diagram refers to F_1 values which cause elastic yielding within the rates shown in the schedule.



3.4 - SM-P-20/30-E0 Overall dimensions



1) Inlet coolant positions, at choice.

2) Right or left coolant outlet position.

3) Adjustable coolant ring.

4) Coolant outlet displacement range.

5) Soft surface for boring the reference pins.

6) Reference pin to be positioned on both side, at choice.
Standard lenght 9,0 mm.
G1 version, lenght 14,0 mm.

7) Pneumatic connections, on both side.

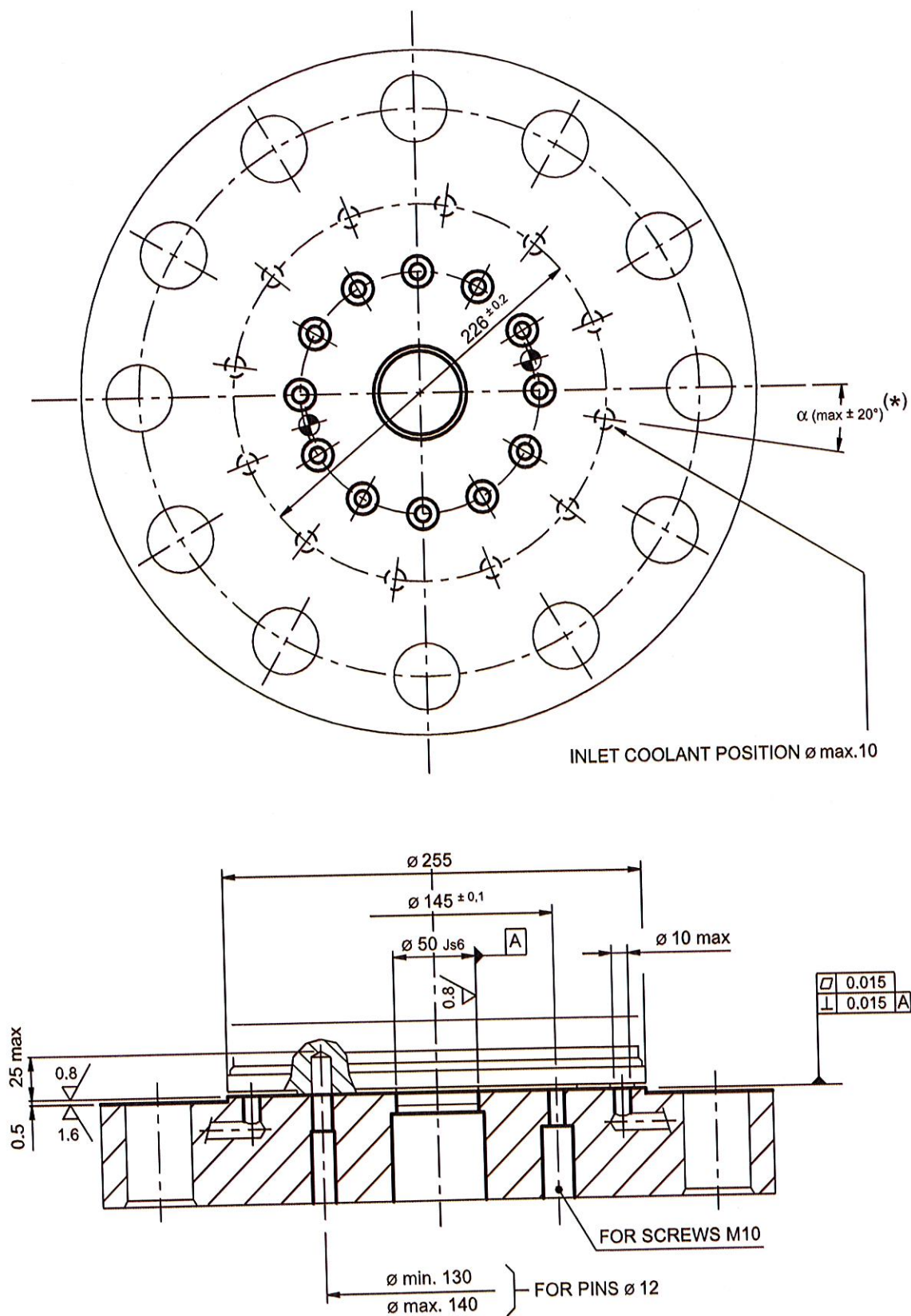
8) Pneumatic additional ports.

9) Electrical connections.

Important: the connection cables must be provided with fittings and gaskets in order to avoid penetration of water into the turret.

10) Note: Overall dimensions and fixing interchangeables with SM* turrets of previous series.

3.5 - SM-* -20 Tool disc interface specs



(*) If the disc must be used also with ODT-N 20 driven tool system, for α values see I.T. 6482.