

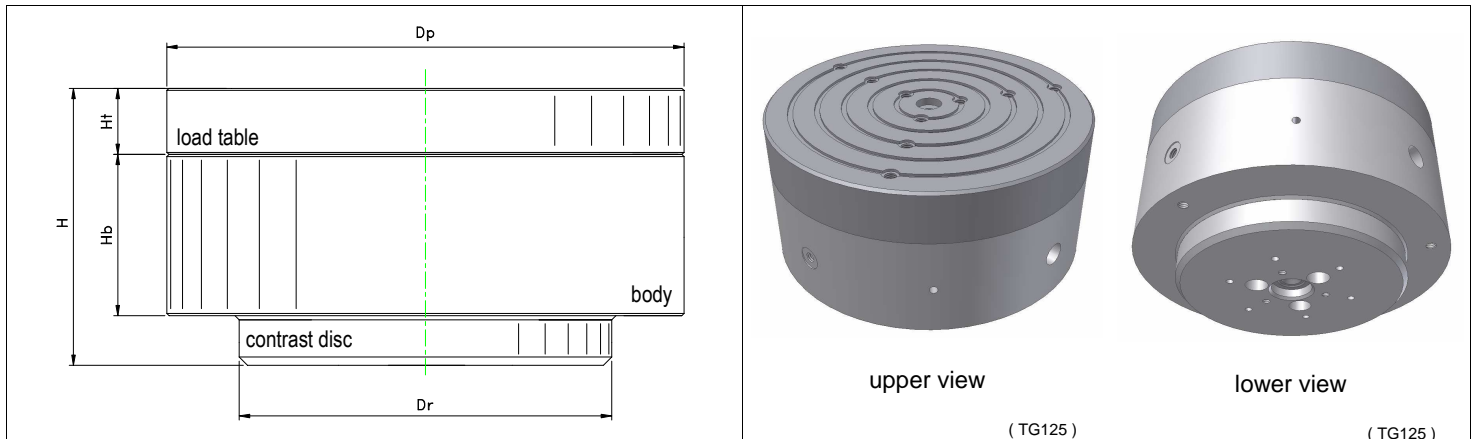
## PNEUMOSTATIC ROTARY TABLES **TG** series OVERVIEW

The pneumostatic rotary tables of the TG series have pneumostatic bearings either on axial and radial direction, with a wide range of load and stiffness capacity.

For the axial direction, they have an upper load bearing (load table) and a counterthrust bearing (contrast disc) for preload.

Main features of these tables are very high precise rotation, and very low friction moment.

They are suitable for the use on measuring and control systems (example: roundmeters, torque meters), and also with light machine tooling (example: micro milling) where high position accuracy is requested.



MAIN CHARACTERISTICS	TG125	TG200	TG300	TG500
standard code (TGxxx-N.N)	F0202-010000	F0202-020000	F0202-030000	F0202-040000
axial bearing technology	pneumostatic	pneumostatic	pneumostatic	pneumostatic
radial bearing technology	pneumostatic	pneumostatic	pneumostatic	pneumostatic
air inlet	M5 pipe d4	1/8GAS pipe d6	1/8GAS pipe d6	1/8GAS pipe d6
load table material	tempered AISI 420	tempered AISI 420	tempered AISI 420	tempered AISI 420
<sup>(1)</sup> tilting and centering table	TLC160	TLC250	TLC450	TLC650
<sup>(1)</sup> base	bTG125	bTG200	bTG300	bTG500

MAIN DIMENSIONS AND MASS	UM	TG125	TG200	TG300	TG500
load table diameter	$D_p$ mm	Ø 125	Ø 200	Ø 300	Ø 500
contrast disc diameter	$D_r$ mm	Ø 90	Ø 120	Ø 180	Ø 298
total height	$H$ mm	71	77	100	168
load table thickness	$H_t$ mm	20	23	32	60
body thickness	$H_b$ mm	39	39	49	79
total mass	$m$ kg	6,18	16,1	47,4	225
total moment of inertia of rotating parts	$I$ kg·m <sup>2</sup>	0,011	0,11	0,31	3,1

*dwf, dwg, step drawings available on request*

PNEUMOSTATIC PERFORMANCES	UM	TG125	TG200	TG300	TG500
standard supply pressure	$p$ bar	5	5	5	5
minimum / maximum supply pressure	$p_{m/M}$ bar	4 / 6	4 / 6	4 / 6	4 / 6
<sup>(2)</sup> pneumostatic operational axial payload	$L_a$ daN	150	550	1.200	2.900
<sup>(2)</sup> pneumostatic maximum axial payload	$L_{a \text{ lim}}$ daN	230	840	1.840	4.370
<sup>(2)</sup> pneumostatic axial stiffness	$R_a$ daN/μm	5	22	48	116
<sup>(2)</sup> pneumostatic radial payload	$L_r$ daN	75	85	132	280
<sup>(2)</sup> radial stiffness	$R_r$ daN/μm	5,0	5,7	8,8	18
<sup>(2)</sup> consumption Q (with no payload)	$Q$ NI/min	16	40	80	200
radial run-out at table level	$e_r$ μm	0,3	0,4	0,4	0,5
axial run-out	$e_a$ μm	0,2	0,3	0,5	0,7

(1) Optional

(2) Values of L, R and Q are referred to the standard supply pressure. Values at different supply pressure are directly proportional, in the range 4 ÷ 6 bar, to the difference from to the standard pressure. The pneumostatic round tables of the TG series have been designed for the use with the turning axes displaced in vertical position. Different displacements must be evaluated as the case may be.

