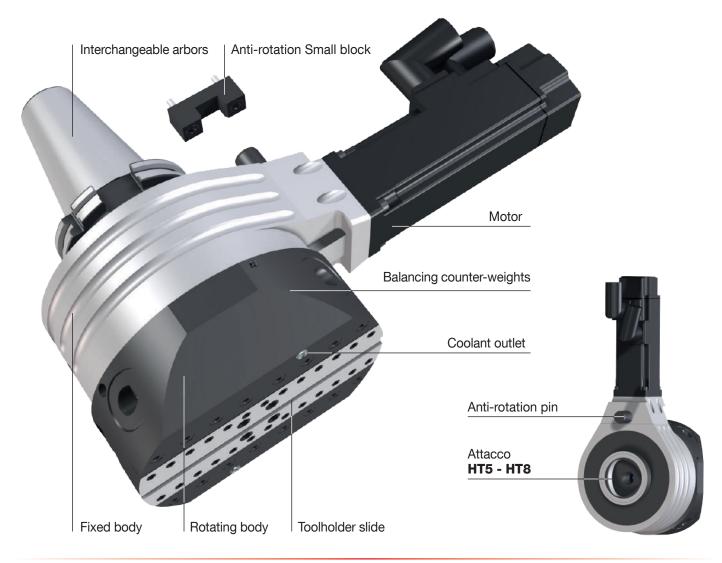
TA-TRONIC 2 TA-T2

 TA-TRONIC 2 - Boring and facing heads designed to be applied manually on small boring machines, machining centers and special machines.
 The integrated servomotor, connected to the CN, manages the toolholder slide movement.
 The stationary body is held in position by a flange or, for light operations, by a simple anti-rotation pin.



COMMAND

The control of the TA-T2 heads takes place through the direct connection to the "U" axis of the numerical control of the machine tool that allows boring, internal, external and back facing, internal and external turning, grooves, facing for serration, threads and taper bores, as well as concave and convex radius machining through interpolation with the other axes.

APPLICATION

TA-T2 is mounted on the machine using a taper (4). The anti-rotation pin (8) inserted in the stop block (10) locked on the head of the machine tool, preventing the fixed body of TA-T2 to rotate. The stop block (10) is applied on a fixed part around the spindle in relation to the dimensions of **pic.1**, adjusting the height indicated by way of a thickness **S**.

CNC

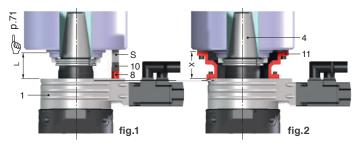
For heavy machining it is advisable

D'ANDREA

to apply a flange (11) with a dimension X in tolerance \pm 0.005 mm. To make the TA-T2 solidly connected with the head of the machine tool

with the head of the machine tool (pic.2-3) it is always advisable to use a flange with TA-T2 170. The type of flange required depends on the model of the machine and may be easily built by the Customer or supplied by D'Andrea.

All data for flange application are available in the instruction manual.



Coolant supply pic.1

In the TA-T2, coolant exits from the two adjustable nozzles are located next to the slide after crossing the of coolant does not taper and the rotating body of the head. This noteworthy advantage ensures longer duration of the cutting edge, quicker

cutting speed and for obtaining good surface finishes.

The centralized supply harm the TA-T2 of which the internal labyrinth protected by an O-ring. It is advisable not to exceed 50 BAR of pressure.



Balancing pic.2

TA-TRONIC heads are designed with two counter-weights (5) for automatic balancing, that move opposite to the slide (3) allowing to machine at a higher number of rpms without noticeable oscillations.

PREARRANGEMENTS



SUPPLY



ARBORS HT / P120 - P130 see p.70-71



K02 TA-T2.170 1FK7032-2AK74-1EA2 501201700400 K02 TA-T2.170 FANUC βis 1/6000 501201700800

FLANGE TA-T2.110 / TA-T2.170



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z		<u>e e</u>	
о <u>,</u>			<u>= 0.01</u>

TA-T2 110 33 ± 0.05 TA-T2 170 26 ± 0.05	
TA-T2 110 = 90 TA-T2 170 = 1 = 20	۵A
	,

TECHNICA D	ATA	TA-T2.110	TA-T2.170	
ØA	mm	110	170	
В	mm	104	164	
C radial traverse	mm	± 15	± 30	
D	mm	8 ^{+ 0.04} + 0.02	10 ^{+ 0.04} + 0.02	
E	mm	31	40	
F	mm	M 4	M5	
G	mm	38	54	
HT	mm	5	8	
L	mm	108	136	
М	mm	42	56	
N mm		12.5		
Feed mm/min		1 ÷ 500		
Radial force	daN	150	250	
Maximum speed RPM		2000	1600	

TECHNICAL DATA		TA-T2.110	TA-T2.170			
Torque	Nm	400	800			
Weight without the cone	Kg	5.3 without motor	15.8 without motor			
Boring accuracy		Н	H7			
Max workable ø	mm	200	320			
Max chip removal on C40 steel	mm ²	0,75	1			
Roughness	Ra	0.8 - 1.2				
SIEMENS Motors Dimensions		Siemens 1FK7022	Siemens 1FK7032			
卷 1		55	72			
※ 2 ※ 3 ※ 4		55	72			
※ 3		178	173			
※ 4		90	120			
FANUC Motors Dimensions		FANUC βis 1/6000				
※ 1		60				
※ 2		60				
 ※1 ※2 ※3 		111	.5			
※ 4		92/	120			

TECHNICAL DATA

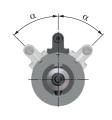


AUTORADIAL

AUTORADIAL - Automatic facing heads that can be applied on machining centers and on NC machines without the need for an electronic interface or interlock. They perform automatic working cycle without ever stopping the rotation of the spindle.



In the AUTORADIAL the slide is moved forward by holding back the drive flange **(8)** while the spindle is rotating. The T-block supplied with the K-NC KIT **(K)** is to be applied to a fixed part around the spindle, observing the measurements indicated. If the stroke of the check pin is not 5 mm \pm 0.25, you must adjust the position of the T-block using the spacer **S**. The angle α is freely adjustable by loosening the 3 screws (**A**), turning the flange (**8**) to the desired angle and tightening the screws (**A**).



K-NC

ASSEMBLY



KO2 SPECIAL AUTORADIALS ON REQUEST

ST

R

		K02 AR 125	K02 AR 160	
REF.	Fmm/ひ	CODE	CODE	
K02 ARF.0.05 ±0.005	0.05	500612520050	500616020050	
K02 ARF.0.1 ± 0.005	0.1	500612520100	500616020100	
K02 ARF.0.2 ± 0.01	0.2	500612520200	500616020200	
K02 ARF.0.3 ± 0.01	0.3	500612520300	500616020300	
K02 ARF.0.4 ± 0.02	0.4	500612520400	500616020400	
K02 ARF.0.5 ± 0.02	0.5	500612520500	500616020500	

500612520600 500616020600

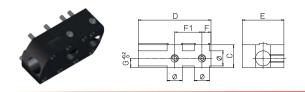
0.6





	R.80	R.110	
REF.	CODE	CODE	
K-NC RAR125	394112508002	394112511002	
K-NC RAR160	394116008002	394116011003	

K02 AR...-F.0.6 ± 0.02



REF. CODE ØH7 С D Е F F1 G Kg. AR 125 - P 110 45.5 16 433056381200 25 39 121 56 15 1.3 AR 160 - P 110 433063481600 32 19 63 21 2.5 49 164 63

P110

MHD'



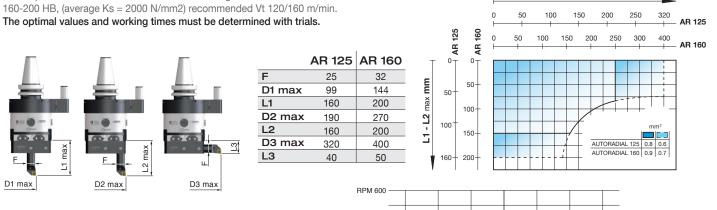
REF.	MHD' Gamma completa dei coni a pag.10
AR 125	63
AR 160	80

INTERCHANGEABLE FEEDS

INTERCHANGEABLE FEEDS F								
	·		K02 AR 125		K02 AR 160			
REF	•	Fmm/ひ	CODE		CODE			
F. 0.05-AR	± 0.005	0.05	382006105001		382006205001			
F. 0.1 - AR	± 0.005	0.1	382006110001		382006210001			
F. 0.2 - AR	± 0.01	0.2	382006120001		382006220001			
F. 0.3 - AR	± 0.01	0.3	382006130001		382006230001			
F. 0.4 - AR	± 0.02	0.4	382006140001		382006240001			
F. 0.5 - AR	± 0.02	0.5	382006150001		382006250001			
F. 0.6 - AR	± 0.02	0.6	382006160001		382006260001			

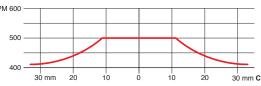
D1 - D2 - D3 mm

CHIP REMOVAL CAPACITY - MAX ROTATION SPEED

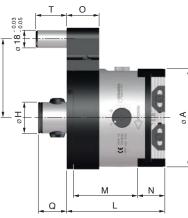


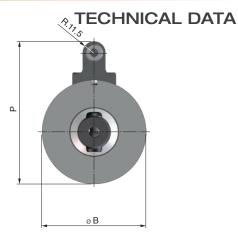
For good AUTORADIAL head operations and to protect it from damages, it is advisable to follow the chart below that indicates the maximum rpm, based on the travel of the slide.

The chip removals are indicative for normal working conditions on steels with hardness



= 0.01 G υ 0 E F





TECHNICAL	DATA	AR 125	AR 160	TECHNICAL	DATA	AR 125	AR 160
ØA	mm	125	160	Μ	mm	75	83
ØВ	mm	130	130	Ν	mm	28	35
C radial traverse	mm	± 20	± 35	0	mm	35	35
D	mm	10 ^{+ 0.03}	12 ^{+ 0.03}	Р	mm	156.5 / 186.5	171.5 / 201.5
E	mm	40	50	Q	mm	38.5	44.5
F	mm	63 ^{- 0.003} - 0.007	80 -0.003	S	mm	12.5	15
G	mm	M5	M6	Т	mm	39.5	45.5
ØН	mm	(MHD'63) 42 - 0.005 0.008	(MHD'63) 42 - 0.005 0.008	Maximum speed	RPM	500	400
	mm	80/110	80/110	Weight without the cor	ne Kg	9	14
L	mm	110	125	Quick return	mm/ひ	0.8	0.8

