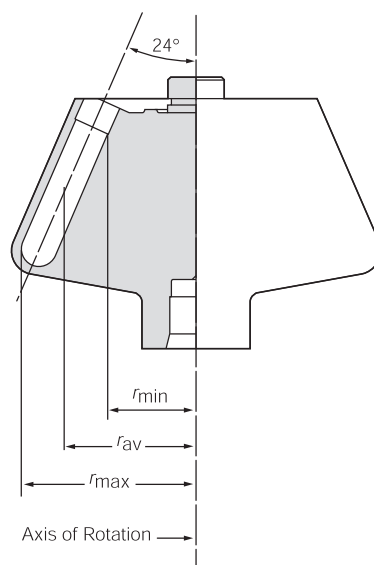


TYPE 70.1 Ti ROTOR



SPECIFICATIONS

Maximum speed	70 000 rpm
Density rating at maximum speed	1.2 g/mL
Relative Centrifugal Field* at maximum speed	
At r_{\max} (82.0 mm)	$450\,000 \times g$
At r_{av} (61.2 mm)	$336\,000 \times g$
At r_{\min} (40.5 mm)	$222\,000 \times g$
k factor at maximum speed	36
Conditions requiring speed reductions	see RUN SPEEDS
Number of tube cavities	12
Available tubes	see Table 1
Nominal tube dimensions (largest tube)	16×76 mm
Nominal tube capacity (largest tube)	13.5 mL
Nominal rotor capacity	162 mL
Approximate acceleration time to maximum speed	
(fully loaded)	6 min
Approximate deceleration time from maximum speed	
(fully loaded)	4 min
Weight of fully loaded rotor	5.9 kg (13.0 lb)
Rotor material	titanium

* Relative Centrifugal Field (RCF) is the ratio of the centrifugal acceleration at a specified radius and speed ($r\omega^2$) to the standard acceleration of gravity (g) according to the following formula:

$$\text{RCF} = \frac{r\omega^2}{g}$$

where r is the radius in millimeters, ω is the angular velocity in radians per second ($2\pi \text{ RPM} / 60$), and g is the standard acceleration of gravity (9807 mm/s^2). After substitution:

$$\text{RCF} = 1.12 r \left(\frac{\text{RPM}}{1000} \right)^2$$