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Selecting the right Centrifuge for your Applicaton

Scientiquipp. Pvt. Ltd. | Mumbai, India

A centrifuge is a critical instrument for the laboratory, and often a significant investment. Therefore, when the time comes to add a new centrifuge or replace an older unit, it is important to make an informed decision. There is a good chance that your needs may have changed since the last time you purchased a centrifuge. Laboratory space comes at a premium, hence the overall instrument footprint is important, and activity levels have increased substantially, with multiple users working around the clock. Perhaps you may want to try a new method.

With science and technology changing rapidly, it is wise to educate yourself about the wide range of centrifuge options now available in India and especially at *Scientiquipp.* This will help you select a centrifuge that will suit your needs currently and in future.

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The following questions can be used to determine the type of centrifuge that will best meet your needs:

• What applications and protocols will the centrifuge be used to support?	• What is the maximum and minimum f-force (relative centrifugal force, RCF and volume requirements?
• How many tubes or samples must be processed in a run, shift or day?	• What type of sample formats will the centrifuge need to support? (i.e. micro plates, blood collection tubes, conical tubes)
• What type of rotor will be needed to support your application (i.e. fixed angle or swing-out)	• How many people will be using the centrifuge?
• Is flexibility important for you? (i.e. do you anticipate the need for a broad range of protocols or will you or will you be performing the same standardized protocol every single day?	• The last and most important question is: What is your budget?

Floor Model Centrifuge or Bench-top centrifuge?

Centrifuges are classified as either floor standing or bench-top models. There are multiple platforms from which to select. The centrifuge you select is determined by the performance, protocols, availability of space, versatility, budget and after sales support. Plasto Crafts general purpose centrifuges such as the **ROTA 4R V/FM** and the **ROTA 6R V/FM** offer versatility and convenience, and can support a broad range of applications, making them a cost-effective solution for many laboratories. Benchtop platforms include general-purpose centrifuges, micro centrifuges, small clinical centrifuges, and high-speed models.

Whether you are looking for something versatile that your laboratory can grow into or a dedicated centrifuge for specific protocols, there is a ***Scientiquipp.*** *centrifuge* to meet those needs.

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Rota 4R



Max. Capacity mL	700ml (4x175ml)
Max. RCF	32,198 x g (RCF)
Max. RPM	20,000 (RPM)
Temp Range	-10°C - +40°C

Rota 6R



Max. Capacity mL	2000ml (4x500ml)
Max. RCF	25'901
Max. RPM	14,000 (RPM)
Temp Range	-20°C - +40°C

Benchtop Centrifuges

These workhorse units (Figure 1.) are the most common type of centrifuge found in the laboratory. Their versatility makes them extremely useful instruments for academia, research or industry. The ***Scientiquipp. ROTA 6R V/FM*** from ***Scientiquipp.*** offers a high capacity swing-out rotor with a capacity of 4x500ml for twenty tubes of 50mL or 48 tubes of 15ml as well as a fixed angle rotor with a capacity of 6x250ml at 10'000RPM or 15'540x*g (RCF).* This unit offers speed, volume, and versatility in a single unit to meet the needs of today and tomorrow.

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The general-purpose centrifuges from Plasto Crafts are typically used for:

Cell harvesting in cell culture	DNA/RNA research	Fermentation	PBMC's
Protein Purification	Food Testing	Molecular Biology	Microbiology
Cosmetic Stability Testing			

Most of the *Scientiquipp.* centrifuges can be equipped with a broad range of swinging-bucket, fixed angle and 96 well-plate rotors, making them an excellent fit in any multi-user laboratory work-flow and where RCF's of up-to 32'198 x g (RCF) are sufficient

About Scientiquipp. Pvt.Ltd.

Since the 1980's Scientiquipp (formerly known as Plasto Crafts) has been synonymous with customer-oriented processes and innovative products, such as laboratory devices. Today, we serve as experts and advisors, using our unique knowledge and experience to support laboratories and research institutions around India. The foundation of the company's expertise is its focus on its customers. Scientiquipp's exchange of ideas with its customers results in comprehensive solutions that in turn become industry standards. Scientiquipp will continue this path in the future, to the standard set by the company's founders: that of *enabling the future of medicine.*

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