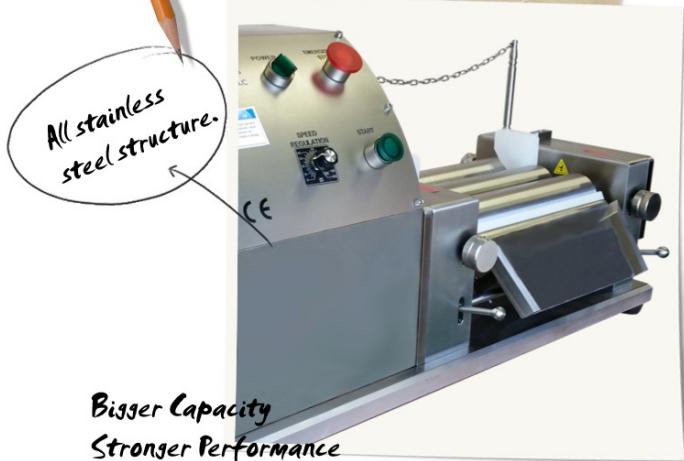
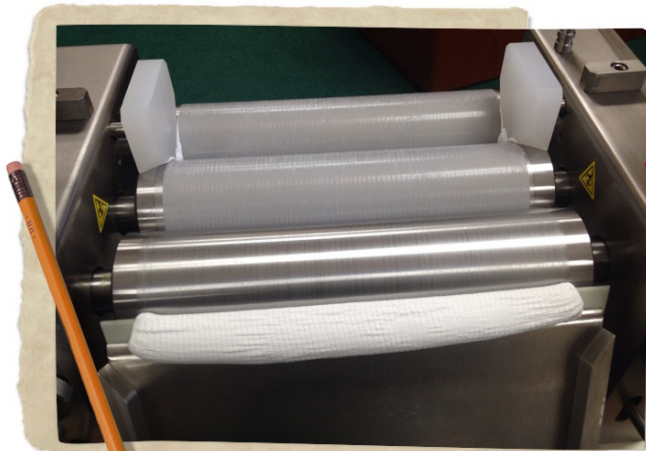


# T65B Three Roll Mill

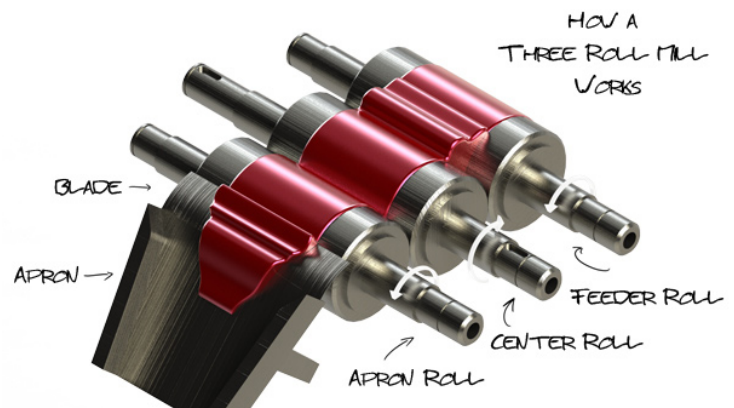
## INTRODUCTION

Award winning manufacturer Torrey Hills Technologies is launching its latest model T65B (2.5"x10") three roll mill. Compared with the tremendously popular T65 (2.5"x5") lab model, this machine is equally equipped with state-of-the-art control, streamlined design and modern all stainless steel structure. This three roll mill is ideal for laboratories and pilot production to finely disperse, mix, refine or homogenize viscous materials.

Under the hood the revolutionary mechanical driving system delivers high shear force with minimum operating noise. The rollers are crafted with 5µm concentricity and 0.5µm surface finish for precise applications. They are cored for either cooling or heating to keep the temperature at the desired level. The engineering team carefully matched the electrical components and bearing systems to maximum the power, dispersing efficiency, and throughput. A VFD is used to provide variable speed control. As a result of these innovations, minimal particle size milling down to submicron level occurs. An easily accessible pull switch adds extra operator protection. This mill is positioned as a leader in mixing tool for a wide range of industries including paints, inks, thick film pastes, adhesives, coatings, ceramics, cosmetics, food, and pharmacy compounding, with comparative advantages in mixing efficiency, continuous feeding capability, and quality control.



T65B model offers fast roller speeds and high throughput up to 15.5 gallons or 112 pounds per hour. The fast roller runs at 432 RPM. Variable frequency drive allows stepless speed control and slow speed runs. Roller spacing and adjustment is set manually with quick engagement mechanism by the use of four small hand wheels. Safety trip limit switch (in the form of a pull cord), emergency stop button, slow-speed washup mode capability and nip guard make this three roll mill very safe to operate. Other advantages include self-lubricating gears and Teflon end plates.



# T65B Three Roll Mill

## PREMIUM FEATURES

### Rollers

- Three 10"- long rollers ensure high output.
- Stainless steel rollers are made from precision ground 420J2 stainless steel to prevent rust or erosion. The hardness is rated at HR50-60 for reliable long-life usage.
- Ceramic rollers are made from cold iso-static pressed and fired 99.5% alumina. Three roll mills with ceramic rollers are recommended when metallic contamination is a concern for the milling process. Our ceramic rollers have been widely used in such applications as thick film paste, Dye Sensitized Solar Cell research, fuel cell research, etc.
- Rollers are ground to 5µm concentricity and 0.5µm surface finish for precise applications.
- Rollers are cored for either cooling for heating to meet the needs of different mixing conditions. Manifold, valve, and collection tank are standard.

### Motor

- Powerful motor is able to handle high-viscosity materials at high speed.
- Variable speed control allows adjustable/slower speed

runs.

### Gap Adjustment

- Roller spacing and adjustment are set manually with quick engagement mechanism by the use of four small hand wheels, The mechanism is a combination of flexibility and stability.
- Gap spacing remains consistent and rollers stay perfectly parallel to each other throughout operation.

### Accessories

- Easily adjustable Teflon end plates prevent materials from splashing out from gaps and sides.
- Teflon scrapper blade is durable, individually replaceable as well.
- Stainless steel receiving apron provides a nonporous, smooth surface promising minimum leftovers on it.
- Unit includes a free standing base allowing easy mobility.

### Safety

- Easily accessible stop and start buttons.
- Emergency pull cord on top of the machine as an extra safety feature.

## TECHNICAL PARAMETERS

| Parameter                  | T65B Three Roll Mill                                       |       |
|----------------------------|--|-------|
| Roller Material            | Stainless Steel / Ceramic (Alumina)                        |       |
| Diameter of Roller         | 2.5" (65mm)  |       |
| Length of Roller           | 10.0" (260mm)  |       |
| Roller Speed Ratio (Fixed) | 1:2:4  |       |
| Speed of Roller RPM        | Slow Roller  | 0~108 |
|                            | Middle Roller  | 0~216 |
|                            | Fast Roller  | 0~432 |
| Power                      | 3/4HP / .55kW  |       |
| Voltage                    | 110V 60 Hz or 220V 50 Hz (10% voltage fluctuation allowed) |       |
| Net Weight                 | 175 lbs (80kg)   |       |
| Throughput                 | Up to 45 l/h   |       |
| Overall Dimension          | 30"x11"x15" (770mmx280mmx381mm)                            |       |