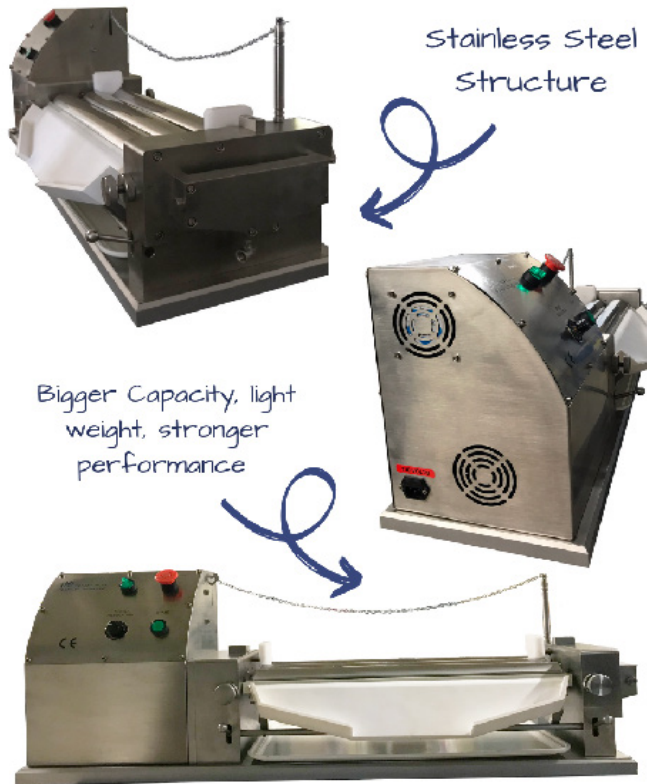


# T65SL Three Roll Mill

## INTRODUCTION

Award winning manufacturer Torrey Hills Technologies is launching its latest model T65SL (2.5"x20") three roll mill. Compared with the tremendously popular T65 (2.5"x5") lab model, and T65B (2.5"x10") pilot production 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 large scale 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 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 and food with comparative advantages in mixing efficiency, continuous feeding capability, and quality control.



T65SL model offers fast roller speeds and higher throughput .

## PREMIUM FEATURES

### Rollers

- Three 20" - 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.
- Rollers are ground to 5 $\mu$ m concentricity and 0.5 $\mu$ m 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

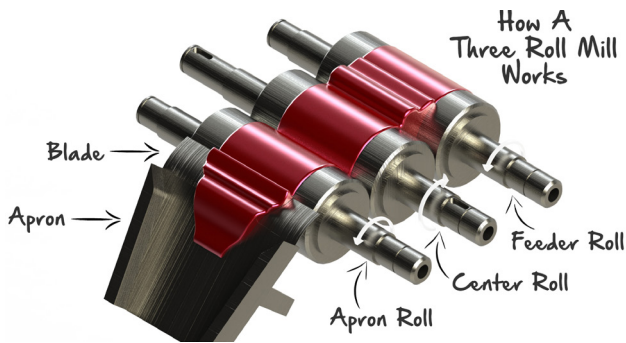
- Roller spacing and adjustment are set manually with quick engagement mechanism by the use of four small hand wheels. The mechanism is a combination of flexibility and stability.
- Gap spacing remains consistent and rollers stay perfectly parallel to each other throughout operation.

### Accessories

- Easily adjustable Teflon end plates prevent materials from splashing out from gaps and sides.
- Strapper blade is durable, individually replaceable as well.
- Teflon receiving apron provides a nonporous, smooth surface promising minimum leftovers on it.
- Easily accessible stop and start buttons.
- Emergency pull cord on top of the machine as an extra safety feature.

# T65SL Three Roll Mill

## TECHNICAL PARAMETERS



Parameter	T65SL Three Roll Mill	
Roller Material	Stainless Steel	
Diameter of Roller	2.5" (65mm)	
Length of Roller	20.0" (520mm)	
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	220 lbs (100kg)	
Throughput	~40 kg/hr	
Overall Dimension	40"x11"x15" (1020mmx280mmx381mm)	

## THREE ROLL MILL COMPARISONS

	Exakt 80	T65SL	Exakt 120-450	Ross 52TC	Buhler SDX600	Lehman 3-A
Cost	\$33,000	\$40,390	\$60,000*	\$70,000*	\$130,000*	\$78,000*
Rollers	80x250mm (3.1"x9.8")	63.5x508mm (2.5"x20")	120x450mm (4.7"x17.7")	228.6x609.6mm (9"x24")	200x600 mm (7.9"x23.6")	228.6x609.6mm (9"x24")
Weight	70kg (154lbs)	100kg (220lbs)	~220 kg (~485lbs)	1542 kg (2400lbs)	1285 kg (2833lbs)	2268kg (5000lbs)
Production	20 L/hr (5.3 gal/hr)	40 L/hr (10.6 gal/hr)	60 L/hr (15.9 gal/hr)	30-170L/hr (8 - 45 gal/hr)	Not available	Not available
Overall Dimension	650 x 550 x 530 mm	1016 x 279 x 381 mm	870 x 950 x 1320 mm	1676 x 1219 x 1270 mm	900x1355x1070 mm	4122 x 102 mm Floor space
Operating Costs **	\$2,284 yearly	\$2,891 yearly	\$7,738 yearly	not available	\$69K - 90K yearly	not available

\* approximately    \*\*based on an average hours and CA electricity rates