



Three Roll Mill

Practical and well dispersed!

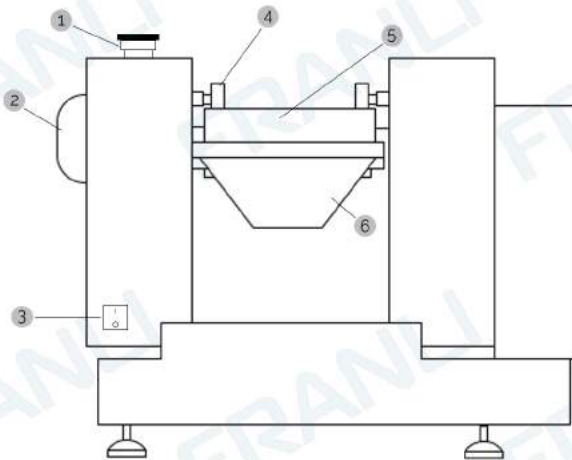
TRL SERIES

Lab Three Roll Mill

Application: Mainly used for ointment, lubricant grease, cosmetics, CNT, metal paste, new ceramic material, electronics paste, solar paste etc...

Feature

- Variable speed to mix, refine, disperse, or homogenize viscous materials fed into it.
- Spring-tensioning scraper holder is more precise and effective for discharge. Scraper/Knife tightness can be adjusted.
- Final fineness can be reached to 1-20 microns.
- Compact design saves space and lighter for transport.
- PLC system with touch panel is available for digital and smart control.
- Roller gap to lum.
- Ceramic or Chrome hardened rollers.



Equipment details

- Emergency stop button
- Speed control box
- Switch
- Baffle
- Roller
- Scraper knife

Type	Data
Roller dia (mm)	50
Working length(mm)	150
Capacity(L/H)	0.02-10
Speed Ratio	4:2:1
Speed(rpm)	580
Main motor power(kw)	0.15-0.2
Weight(kg)	20
Size(mm)	350x250x300

Equipment details

- ① Ceramic roll
- ② Scraper knife
- ③ Teflon baffle
- ④ Emergency stop button
- ⑤ Operation desk
- ⑥ Schneider electrical component



Type	Data
Roller dia (mm)	80
Working length(mm)	200
Capacity(L/H)	0.02-20
Speed Ratio	9:3:1
Speed(rpm)	480
Main motor power(kw)	1.1
Weight(kg)	80
Size(mm)	350x250x300

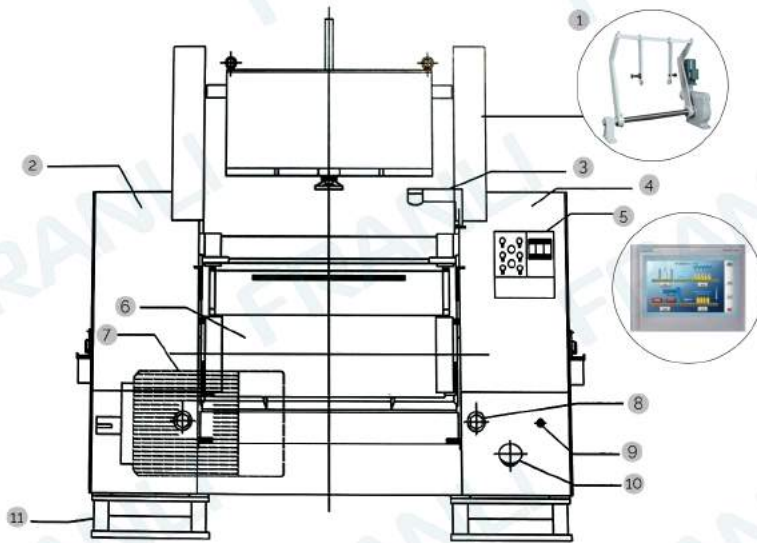


TRH SERIES Horizontal Three Roll Mill

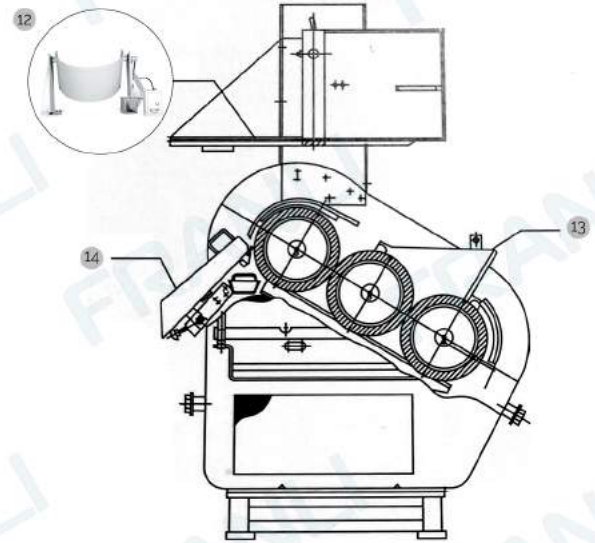
Application: Mainly used in ink, pigment, battery slurries, electronic paste, cosmetics, lubricant grease and so on...



Equipment details



- ① Feeding system
- ② Left upper cover of frame
- ③ Ultrasonic probe
- ④ Right upper cover of frame
- ⑤ Operation desk
- ⑥ Roller
- ⑦ Electric motor



- ⑧ Lifting bolt
- ⑨ Inlet
- ⑩ Outlet
- ⑪ Base support
- ⑫ Hopper
- ⑬ Baffle
- ⑭ Scraper knife

Equipment features

- Accurate roller gap adjustment
- PLC system for easier operation
- 3 times working efficiency than manual type three roll mill
- High wear resistant allot steel with good quality
- Level detection system



Technical data

Roller diameter (mm)	Working length (mm)	Roller Speed(rpm)			Main motor power (kw)	General pressure (Mpa)	Pump power (kw)	Weight (kg)	Overall size (mm)
		Slow	Middle	Fast					
150	300	44	103	240	5.5	W6.17	0.75	950	1060x1100x1100x650
200	600	52	144	400	11-15	W6.17	1.1	1500	1420x1210x1100x700
260	650	49	140	400	18.5-22	W6.17	1.1	2400	1670x1450x1290x900
400	800	31	122	400	30	W6.17	1.5	4500	2040x1790x1390x1150
400	1000	31	122	400	37	W6.17	1.5	5000	2240x1790x1390x1150
400	1300	31	122	400	55	W6.17	1.5	5280	2540x1790x1390x1150

Flat Hydraulic Three Roll Mill

The best advantage of hydraulic three roll mill is the adoption of inverter for controlling speeds. It is equipped with mechanical (or hydraulic) gap adjustment devices, which can adjust the gap freely without dismounting the rolls, so as to make it into the best condition to process all kinds of high, medium and low viscosity materials. Its production capacity is 3 times bigger than traditional manual three roll mill.



Equipment details

- 1 Emergency stop button
- 2 Roller working pressure
- 3 Total pressure
- 4 Scraper knife pressure
- 5 Baffle
- 6 Scraper knife
- 7 Hand wheel for adjust gap of roll
- 8 Operation desk

Roller diameter (mm)	Working length (mm)	Roller Speed(rpm)			Main motor power (kw)	Output Height (mm)	General pressure (Mpa)	Pump power (kw)	Weight (kg)	Overall size (mm)
		Slow	Middle	Fast						
150	300	44	103	0-240	5.5	750	6.3	0.75	950	1060x1100x1100x650
200	600	52	144	0-400	11-15	650	6.3	1.1	1500	1420x1210x1100x700
260	650	49	140	0-400	18.5-22	680	6.3	1.1	2400	1670x1450x1290x900
400	800	31	122	0-400	30	700	6.3	1.5	5000	2040x1790x1390x1150
400L	1000	31	122	0-400	37	700	6.3	1.5	5500	2240x1790x1390x1150

Other configurations



Optional configuration table

Configuration table		
● Standard / ○ Optional		
Explosion-proof		○
Material of body frame	Stainless steel	○
	Carbon steel	●
Topple over device hopper		○
Chamber/Tank		○
Inverter control		○
Level sensor		○
Hydraulic		●
Control-panel		○
PLC		○
Dust-proof cover		○

TRS SERIES

Manual Three Roll Mill

Application: Mainly used in Soap, paint, cosmetics, pigment, lubricant grease, carbon fiber and so on...

Feature

- Chain gears driving, oil tank gear box, fewer noise, longerlife time.
- Hydraulic cylinder drive, pressure guage to show the rollpressure
- SUS304 discharge hopper

Equipment details

- 1 Cooling system
- 2 Baffle
- 3 Hand wheel for adjust gap of roll
- 4 Scraper knife
- 5 Lifting adjustment



Optional configuration table

Configuration table		
● Standard / ○ Optional		
Material of body frame	Stainless steel	○
	Carbon steel	●
Adopting gap adjusting		●
Topple over device hopper		○
Chamber		○
Inverter control		○
Baffle material (metal or teflon)		○

Technical parameter

Model	Roller diameter (mm)	Working length (mm)	Roller Speed(rpm)			Main motor power (kw)	Weight (kg)	Overall size (mm)
			Slow	Middle	Fast			
TRS5"	120	280	26	70	186	1.5	400	830x750x920
TRS6"	150	300	38	87	203	2.2	500	1070x880x950
TRS8"	200	600	22	67	200	5.5	1500	1380x910x1080
TRS9"	260	675	27	76	217	7.5	2300	1800x1400x1180
TRS12"	305	760	22.5	70	217	11	3800	2100x1550x1230
TRS16"	406	810	19	58	178	15	5300	2050x1810x1500
TRS16" L	406	1000	19	58	178	22	5800	2250x1810x1500

Other configurations



TRM



TRX



TRQ

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FRANLI MACHINERY CO.,LTD

Tel:+86 15306118977

E-mail:Judy@franli.com

Add:Maker Space-5,Science &
Education Town,No.18Changwu
Middle Road, China

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www.franli.com