



## “UTTAM” Rubber Mixing Mills

### 1. "UTTAM" make Bull Gear Drive Rubber Mixing Mill with bushes/Roller Bearings

Model	Chilled Rolls Barrel Dimensions		Capacity Per Batch		Required Motor
	Dia	Length	Mastication	Mixing	HP
URM-BGD/W-1	6	16	0.8 kg	2 kg	7.5
URM-BGD/W-2	8	18	1.5 kg	4 kg	10
URM-BGD/W-3	10"	24"	4 kg	8 kg	20
URM-BGD/W-4	12"	30"	9 kg	20 kg	30
URM-BGD/W-5	14"	36"	14 kg	30 kg	40
URM-BGD/W-6	16"	42"	18 kg	40 kg	60
URM-BGD/W-7	18"	48"	27 kg	60 kg	75
URM-BGD/W-8	22"	60"	50 kg	90 kg	125



#### Major Constructional Details :

**Rolls :** Made of Chilled Cast Iron rollers with surface hardness 480/520 BHN. The rolls are cooled by water or heated by steam inside.

**Stands & Apron :** Steel Fabricated.

**Bed :** Common bed construction, Single Steel Gudder and steel bedplate fabricated.

**Bushes :** Phosphorous Bronze bushes with line in forged EN8 Steel.

**Bearing :** Anti Friction Roller Bearings.

**Lubrication :** Force-feed lubrication motorized pump for recirculation of oil in brass bushes.

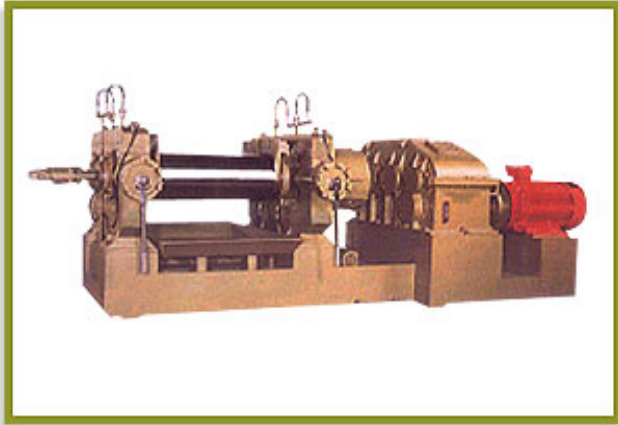
AND Manual Grease pump for lubrication of Anti Friction Roller Bearings in dust sealed housing.

**Roll Clearance Adjusting Unit :** NIP adjustment at two roller ends is done manually using two separate screws attached to the brass housing body.

**Reduction Gear Box :** Worm reduction gearbox, ratio 1:10, Greaves Make.

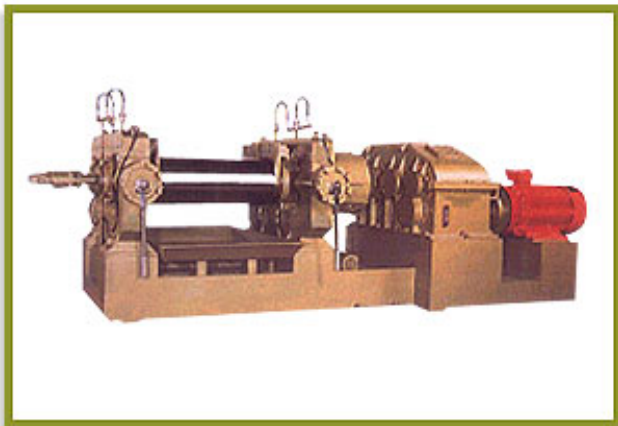
2. **"UTTAM" make Uni Drive Rubber Mixing Mill with Bush Bearings with Helical Gearbox of Greaves/Shanti :**

**UPTO 10% to 12% Power Saving Design of Machine as compared to Conventional Mills.**



3. **"UTTAM" make Uni Drive Rubber Mixing Mill with Anti Friction Roller Bearings with Helical Gearbox of Greaves/Shanti :**

**UPTO 25% to 30% Power Saving Design of Machine as compared to Conventional Mills.**



Model	Chilled Rolls Barrel Dimensions		Capacity Per Batch		Required Motor	Weight Approx.
	Dia	Length	Mastication	Mixing	HP	KG
URM-UDM/G-1	10"	24"	4 kg	8 kg	15	3200
URM-UDM/G-2	12"	30"	9 kg	20 kg	25	5200
URM-UDM/G-3	14"	36"	14 kg	30 kg	30	6700
URM-UDM/G-4	16"	42"	18 kg	40 kg	50	9000
URM-UDM/G-5	18"	48"	27 kg	60 kg	60	13000
URM-UDM/G-6	22"	60"	50 kg	90 kg	100	21000
URM-UDM/G-7	24"	72"	65 kg	120 kg	150	25000
URM-UDM/G-8	26"	84"	80 kg	160 kg	200	35000

### Salient Features :

1. Superior Mixing Performance.
2. Low Operating Cost with High Productivity.
3. Compact Construction, maximum Floor Utilization.
4. Latest Technology Update, Meets Current World Standards.
5. Maintenance Free.
6. Reliable and Experienced Service Back Up.
7. Easy to Install & Ready to Run.
8. No continuous Lubrication hence heavy saving on lubrication cost, wear & tear and maintenance.
9. Auto reversing electric Panel.
10. Simple & easy maintenance.

### Major Constructional Details :

**Rolls :** Made of Chilled Cast Iron rollers with surface hardness 480/520 BHN. The rolls are cooled by water or heated by steam inside.

**Stands & Apron :** Steel Fabricated.

**Bed :** Common bed construction, Single Steel Gudder and steel bedplate fabricated.

**Journal Bearing :** The Housing is made of EN-8 steel forging with Anti Friction roller Bearing.

**Lubrication of Journal Bearing :** Manual Grease pump for lubrication of Anti Friction Roller Bearings in dust sealed housing.

**Electric Control Panel :** Star Delta Electric operating panel with Auto Reversing, Forward, Voltmeter, Ammeter arrangement.

**Roll Clearance Adjusting Unit :** Through worm and worm gear drive clutch rod for Parallel sheeting hand wheels to close the NIP from One point only.

**Reduction Gear Box :** Helical Reduction Gear Box Shanti/Greaves make which is driven by the motor through a flexible coupling available in the market.

**4. "UTTAM" make Uni Drive Rubber Mixing Mill with Anti Friction Roller Bearings with "UTTAM" make Gearbox**

**UPTO 40% Power Saving Design of Machine as compared to Conventional Mills.**

Model	Chilled Rolls Barrel Dimensions		Capacity Per Batch		Required Motor	Weight Approx.
	Dia	Length	Mastication	Mixing	HP	KG
URM-AFB-1	10"	24"	4 kg	8 kg	12.5	3200
URM-AFB-2	12"	30"	9 kg	20 kg	20	5200
URM-AFB-3	14"	36"	14 kg	30 kg	25	6700
URM-AFB-4	16"	42"	18 kg	40 kg	40	9000
URM-AFB-5	18"	48"	27 kg	60 kg	50	13000
URM-AFB-6	22"	60"	50 kg	90 kg	75	21000
URM-AFB-7	24"	72"	65 kg	120 kg	125	25000
URM-AFB-8	26"	84"	80 kg	160 kg	150	35000



**Salient Features :**

1. Superior Mixing Performance.
2. Low Operating Cost with High Productivity.
3. Compact Construction, maximum Floor Utilization.
4. Latest Technology Update, Meets Current World Standards.
5. Maintenance Free.
6. Reliable and Experienced Service Back Up.
7. Easy to Install & Ready to Run.
8. No continuous Lubrication hence heavy saving on lubrication cost, wear & tear and maintenance.
9. Auto reversing electric Panel.
10. Simple & easy maintenance.

**Major Constructional Details :**

**Rolls :** Made of Chilled Cast Iron rollers with surface hardness 480/520 BHN. The rolls are cooled by water or heated by steam inside.

**Stands & Apron :** Steel Fabricated.

**Bed :** Common bed construction, Single Steel Gudder and steel bedplate fabricated.

**Journal Bearing :** The Housing is made of EN-8 steel forging Material with Anti Friction roller Bearing.

**Lubrication of Journal Bearing :** Manual Grease Pump in Dust sealed housing of Anti Friction Bearings.

Electric Panel: Star Delta Electric operating panel with Auto Reversing, Forward, Voltmeter, Ammeter arrangement.

**Roll Clearance Adjusting Unit :** Through worm and worm gear drive clutch rod for Parallel sheeting hand wheels to close the NIP from One point only.

**Reduction Gear Box :** Three Stage Reduction Gear Box with Helical gears. Being totally enclosed, the gearbox is lubricated by Self Splashing. Gears are made of EN Series forged steel.

