



Young
MFRS.
Foundry Equipments

Young
EQUIPMENT SERVICES

A 3D rendering of industrial foundry equipment is shown against a background of molten metal. The equipment includes a large ladle on the right and a conveyor system with a motor on the left. The word "Young" is written in large, 3D, orange and silver letters, and "EQUIPMENT SERVICES" is written in smaller, 3D, silver letters below it.

SPECIALIST IN FOUNDRY EQUIPMENTS

SAND MIX MULLER :

“ YOUNG ”- Heavy duty Sand Mix-Muller are specially designed, sturdy constructions and easy maintenance. Best Quality and tested raw materials are used and hence long life ensured even at high working rate. Means fit it forget it.

SCRAPERS : Two scraper are provided for combined mixing and aerating action. One aerating the sand the periphery of the pan and the other around the center block. These scrapers are so arranged that sand is continually through in the path of rollers which ensure through mixing & mulling

Muller : Muller are made of heavy weight and having more width. The special design of eliminate the possibility of jamming.

Mixer : Special design of mixing arm helps to mix quickly. Usually the plate of mixing arm needs often replacement. Due to special design replacement of plate becomes very easy.

Bearing : Right type and size of bearing and use of more number of bearing in cover the life of machine and consume less power.

Gear & Electrical : electrical motor and gears are totally enclosed by covers. Enclosed mechanism protect against accidents and also reduce the vibration and notice. Self lubricating gears are reduce the maintenance cost down time and increase the life of gears and bearings.

Most useful for FOUNDRY ❀ ABRASIVE ❀ POWDER ❀ CERAMIC FERTILIZER ❀ COLOUR ❀ DETERGENT ❀ REFRACTORY ❀ MINERALS FOOD ❀ PAINT AND MASALA industries etc.

Batch Capacity (approx.)	Ele. Motor H.P	Muller Size Dia. x w.	R.P.M. OF Muller (approx.)	Dia. Of pan m.m.- ft. (approx.)
25 KG.	2.0 H.P.	10" x 5"	24-28	750-2.5'
75 KG.	3.0 H.P.	12" x 6"	24-28	900-3'
150 KG.	5.0 H.P.	16" x 8"	24-28	1200-4'
250 KG.	7.5 H.P.	18" x 9"	24-28	1500-5'
300 KG.	10.0 H.P.	18" x 9"	24-28	1500-5'
500 KG.	20.0 H.P.	20" x 10"	24-28	1650-5.5'
750 KG.	25.0 H.P.	20" x 10"	24-28	1800-6'
1000 KG.	30.0 H.P.	24" x 12"	24-28	1800-6'
2000 KG.	50.0 H.P.	24" x 12"	24-28	2100-7'
3000 KG.	75.0 H.P.	27" x 18"	24-28	2900-8'
4000 KG.	100.0 H.P.	30" x 18"	24-28	2700-9'
5000 KG.	150.0 H.P.	36" x 21"	24-28	3000-10'



CORE SAND MIXER :

“ YOUNG ” Core Mixer is specially designed on sound principles for mixing Foundry CORE SAND and similar materials. The Sturdy chassis is robustly fabricated from heavy section M.S. Capable of with-chassis standing continuous heavy & hard use. The ‘S’ type Impellers (Blades) are of fabricated steel with tips of wear resistive edge are replaceable, and mounted on center bracket. Breaker Blocks are provided at suitable height which gives a kneading action for a through mixing. The discharge door is side door type with positive locking. The counter system drive through V-Belt by motor. which in turn drive the Reduction Gear Box for Maximum efficiency. This is advance design for Big and Small Foundry.

Most useful for **FOUNDRY** ❀ **ABRASIVE** ❀ **CERAMIC**
ERTILIZER ❀ **COLOUR** ❀ **MASALA** ❀ **REFRACTORY**
FOOD ❀ **DETERGENTS** ❀ **MINERALS INDUSTRIES ETC.**



Batch Capacity (apprx.)	R.P.M. OF Impellers	Ele. Motor H.P.	Dia. Of pan m.m.- Ft.
25 KG	33-40	2.0 H.P.	750-2.5'
75 KG	33-40	3.0 H.P.	750-2.5'
150 KG	33-40	5.0 H.P.	900-3.0'
250 KG	33-40	7.5 H.P.	900-3.0'
300 KG	33-40	10.0 H.P.	1200-4.0'
500 KG	33-40	15.0 H.P.	1500-5.0'
750 KG	33.40	20.0 H.P.	1500-5.0'
1000 KG	33.40	30.0 H.P.	1800-6.0'
2000 KG	33.40	50.0 H.P.	2100-7.0'



INTENSIVE MIXER :

“ YOUNG ” Intensive sand mixers are special built heavy duty & very compact designed machines.

The special “S” type curved blades rotation causes a cascading movement of the sand from the centre dome to the ribbed walls. Thus maintaining continuous VORTEX ACTION, Which has proved to the most effective method mixing. Intensive& uniform coating of binder separate aeration required as no formation. Blending Blades rotate at high speed and anticlockwise direction. Additives or Binders are perfectly mixed and every particles are evenly coated all around. Intensive mixing of oil bonded sand & Silicate Sand which has been found to be the most efficient method of mixing. In every short-time (3 to 4 minutes) the batch can be ready for discharge as a completely aerated perfectly homogeneous mixture. High working efficiency, smooth operation, sturdy & sleek design, minimum additive consumption & maintenance problems have made these machines very efficient & Popular.



Capacity Batch	Pan Dia.	H.P. Of the motor		RPM of	
		Mixing	Blender	Mixer	Blender
100-150	900 m.m.	7.5 H.P.	3 H.P.	35.40	300
250-300	1200 m.m.	10 H.P.	5 H.P.	35.40	300
400-500	1350 m.m.	15 H.P.	7.5 H.P.	35.40	300

SWING FRAME GRINDER :

If casting jobs can't go to grinder, the Grinder must go to castings, through "YOUNG" If casting, billets, ingots & jobs are too heavy to carry to your grinder, you have to go to get a Swing Frame Grinder that can grid your jobs. "YOUNG" manufacture a range of Grinders for Foundry and Steel Plant. The main body is constructed from heavy, seamless pipe. The main heavy Plated Wheel Housing is mounted on front side and Ele.

Motor is on rear side of pipe on fabricated structure/ the Bearing Housing, V-Belt & Belt guard are provided on one side of machine. Right & Heavy duty bearing increase the life of machine & consume less power.

The belt tightening provision is made at the motor end. The Grinder is precisely made to make the machine vibration free. The complete machine is balanced and suspended by chain.



IDEAL SOLUTION FOR HEAVY AND UNTRANSPORTABLE CASTING & JOBS.

- ✿ SIMPLE MECHANISM LESS MAINTENANCE.
- ✿ CHOOSE THE ONE THAT FITS YOUR NEED.

Grinding Wheel Dia. x Wid. x Bore	300 x 40 x 25.4 m.m.	400 x 65 x 152.4 m.m.	500 x 75 x 203.2 m.m.	600 x 100 x 300 m.m.
Grinding Wheel R.P.M.	2200	2100	1730	1500
Ele. Motor H.P.	5 H.P.	7.5 H.P.	10 H.P.	15 H.P.
Heavy Type	7.5 H.P.	10 H.P.	15 H.P.	20 H.P.
Centre Distance				
Motor & Wheel	900 m.m.	1400 m.m.	1700 m.m.	2000 m.m.
Weight Kg. (Apprx.)	100 Kg.	200 Kg.	300 Kg.	500 Kg.

PEDESTAL GRINDER :

"YOUNG" Pedestal Grinders are specially design to provide heavy metal removal at economical cost.. The Grinder is a rigidly fabricated from heavy M.S. Plate. The accurately machined spindle is made out of high tensile sheet. It is mounted in double row self aligning Bearings. so as to take unbalance of two grinding wheels. The spindle is also provide with two speed stepped V- pulley. Which is connected to the V-Belt from the motor. Tool rests with both H and V adjustments are provided for maximum wheels use. Rigid guards are provided on both Course & Medium grit abrasive wheels.

The drive is mounted on a hinged base for ease of V-Belts tension adjustments. Two speed V-Belts drive to spindle is provided for correct GW speed. The drive motor & starter are fully wired ready to be connected to the main at the rear end of the body.



Wheel	12"	14"	16"	18"	20"	24"
H.P.	2	3	5	5	7.5	7.5

TILTING LADLE :

“ YOUNG ” Tilting Geared Ladles are manufactured as per I.S.I. standard and made out of tested heavy section materials for heavy & hard use. The bail arm is strong enough to withstand heat & load for years together without any distortion. Refractory retaining rings provided for holding the lining. Vent holes are provided to remove gases. A locking device is provided to keep the ladle vertical during handling. Ladles are designed for C.I. and steel foundry with adequate provision of safety factor. The Gear Box is of robust construction with precision machined parts and total dust proof protection. The Ladles are turn through one full rotation. The Tilting Ladles are finely balanced, so that little force is required to turn easily. Ladle of customers choice and specification can also be supplied.



30 Kgs. To 50 Tons Capacity.

- ❁ TEA SPOUT POURING ❁ DRUM TYPE
- ❁ BOTTOM POURING ❁ LIP POURING
- ❁ TRANSFER TYPE

SAND DRIER :

“ YOUNG ” Sand Drier is specially designed to improve quality of the sand which ultimately reflects in quality and economy of the castings. The sand is made free from moisture which is most suitable for moulding processes and other applications. “ YOUNG ” Sand Drier is sturdy in design and rigid in construction. The drum body is specially designed to withstand high temp of firing unit. It is fully fabricated to give long life and trouble free services. The machine is specially designed for maximum sand drying capacity in minimum time. To avoid heat loss the drum is insulated. The drum is rotated on Rollers, The motor and Gearbox is provided for drum drive system. The Burner with Blower is mounted on one end of drum.



Capacity Per Hr.	250 Kg.	500 Kg.	1 Ton	2 Ton	3 Ton	5 Ton
H.P.	1	2	3	5	7.5	10

FUEL :-

- ❁ Furnace Oil ❁ LDO
- ❁ Diesel ❁ Kerosene

TILTING FURNACE :

“ YOUNG ” Offer ruggedly constructed, the oil fired crucible furnace can withstand both thermal stresses and severe working conditions.

The steel furnace casing is lined with high Grade Alumina refractories and backed with insulation. The furnace is supplied with L.A.P Oil Fired Burner and designed for firing of any grade of Oil. A separate Motorised blower delivers the air required for combustion.

For General foundry use, it is the smoothest working and simplest Oil Fired furnace used for melting Al, Brass, Gun Metal, Copper, Non-Ferrous Alloys and Cast iron. Refractory, Electrical & Pipe fitting are not supply with the furnace. It is inexpensive, easy to installed and costs little to maintain.



THE FURNACE SUPPLY WITH...

Shell ❁ Stand along with Bearing Coupled - Pedestals
Reduction gear assembly ❁ Motorised ❁ Blower
Burner ❁ Oil Tank ❁ Ladles.

TYPE : MELTING ❁ HOLDING

TILTING : MECHANICAL ❁ HYDRAULIC
BALE-OUT / FIXED TYPE



MOLDING MACHINE :

“ YOUNG ” H.M. Machine has rigid construction and easy for operation. Now a days this is favorable in Small & Medium Foundry also. The design of machine incorporates the central fabricated structure. The minimum force for lifting is required because of special lever type design. Special lock system is provided for lifting. So without manual lifting of handle the roads will not give any movement. Covers are provided on all side to protect from sand. The operating lever can be adjusted to minimize lifting force.

They are ideal for accurate & repetitive types Molding jobs. Simple in design but sturdy in construction and also easy to maintain.

PIN LIFTING
MANUAL ❁ HYDRAULIC
PNEUMATIC.

SIZE : 12” X 12” to 36” X 36”



ROTARY OIL FIRED FURNACE :

“ YOUNG ” offers an efficient & ideal new design unit for high temp. And low fuel cost for melting C.I., Alloy, Ferrous & Non. Ferrous metals. Simplicity of operation & high thermal efficiency. The shell is fabricated robustly from M.S. Plates and remaining other parts from heavy gauge sheets. The center portion is cylindrical & the ends are conical. Two M.S. Tyres are provided on the shell rotation. The base frame structure is robustly fabricated for continuous heavy & hard use. The drive support and guide rollers are of cast iron. The roller shafts are mounted on heavy duty bearings coupled pedestals.

The Burning system consists of a high capacity & efficient Burner. An efficient new design steel tube Recuperate and burner is used to preheat the air more. Result in fuel saving & also ensures quicker melts.

Rapid Melting, Intimate Mixing, Flexibility of production, Lower Melting Cost.

REFRACTORY, ELECTRIC & PIPE FITTING ARE NOT SUPPLY WITH FURNACE. ON COMPLETION OF ERECTION GIVING A COMPLETE SATISFACTORY TRIAL.

The Furnace is supplied complete with following units...

- (1) Frame with rollers running on bearing coupled pedestals.
- (2) Reduction gear with Ele. Motor for shell driven.
- (3) Motorised Air Blower
- (4) Draught chamber
- (5) Exhaust Bends
- (6) Recuperator
- (7) Shell & Cones
- (8) Chimney
- (9) Oil Tank
- (10) Ladles
- (11) Burner
- (12) Trolley
- (13) Rail

Melting Capacity (apprx.)	Melting Time Minutes (apprx.)	Heating Time Minutes	H.P. Of Shell H.P.	Ele. Motor Blower H.P.	Ground Area required L x W
50 KG	16	10	0.5	3.0	15' x 12'
100 KG	20	10	1.0	5.0	18' x 12'
150 KG	25	15	1.0	5.0	18' x 12'
250 KG	35	15	1.0	7.5	22' x 15'
500 KG	55	15	2.0	10.0	25' x 15'
750 KG	70	15	2.0	12.5	25' x 18'
1000 KG	90	20	3.0	15.0	30' x 20'
2000 KG	120	25	5.0	20.0	36' x 25'



SAND WASHING MACHINE :

“YOUNG” offer most useful and efficient machine to wash the moulding sand. Design “U” shape having nos. Of blades to move the sand upside, continuous water jet spray into U bend from the top by Art and flush the clay content. Mix the water by adding continuous water supply. Most efficient blades move the sand by easy way means minimum H.P. required. Machine is in inclined position. Charger Hopper consists of the safer sieve frame to remove stone, pebbles, garbage and other impurities. And totally wash sand discharge from front door especially main spindle consists suitable nos. Of worm-designed blades.

Machine consists of heavy and hard use working condition, worm reduction gearbox with sprocket, Gear assembly to reduce the RPM of the main spindle. Motor to GB by V-Belts for safety factor. To cut down and break down directly machine clockwise. Feeding rate of sand 35 kg/min and water supply 100/150 liters/mm.



This machine is most useful in Foundry & Construction units.

SAND SCREENING :

“YOUNG” Offers vibrating Screens for Faster, More Accurate Sizing, Splitting or Correction Sand Vibrator is designed on scientific principles, Sturdy & Compact Construction of M.S. With simple mechanism. The sieve is easily replaceable as and when required. The bearings are greased lubricated and housed in dust proof housing.

The vibrator is portable and hence quickly available in any part of corner, where screening is essential. The unit is more than “just a screen.” It is a precision tool producing accurate grades, not merely rough grouping of size. It is economical of power and space. Long life screen replacement. Sand vibrator dispense with strenuous manual work, incresises output and indispensable to any foundry. Available in several models, special size, multi deck and be completely enclosed desired for dust proof operation.

Most useful for **FOUNDRY** ✳ **ABRASIVE** ✳ **CERAMIC**
COSMETIC ✳ **PHARMACEUTICAL** ✳ **FERTILIZER**
COLOUR ✳ **MINERAL** ✳ **REFRACTORY** ✳ **MASALA**
DETERGENT & other industries etc.

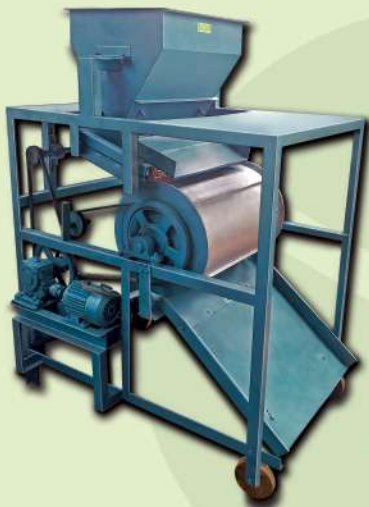


Screening Area	Ele. Motor H.P.	Capacity (apprx.)
2.5' Dia	0.5 H.P.	1-2 TPH
3.0' Dia	1.0 H.P.	1-2 TPH
5'L x 3'W	2.0 H.P.	3-4 TPH
6'L x 3'W	2.0 H.P.	4-5 TPH
8'L x 3'W	2.0 H.P.	5-6 TPH
2'O x 6'L Rotary	2.0 H.P.	5-6 TPH
3'O x 12'-18'L	3.0 H.P.	6-10 TPH



MAGNETIC SEPARATOR :

“ YOUNG ” offer Drum type Magnetic Drum Separator for highest purity of powder & mixer. An Isotropic high power Permanent Magnetic Plate is provided at material outlet. It having highest correctivity & everlasting magnetic strength. Vibrating material hopper for quicker discharge. Totally enclosed design to avoid dusting & pollution. A simple mechanism & easy to maintain, PMDS are available in standard Drum Dia. of 300 m.m. to 500 m.m. and width from 400 m.m. to 1250 m.m. and available in single, double & Triple Drum type for highest purity.



TYPES :
DRUM (SINGLE & DOUBLE)
❁ ROLLER BELT TYPE

PMDS are widely used in FOUNDRY, MINERAL, CHEMICAL, FOOD, FLOOR, PLASTIC, GRAIN, GLASS, CEMENT, FERTILIZER, ABRASIVES, ORE, ROCK, SLAG for the separation of non contamination.

LUMP BREAKER :

“ YOUNG ” offer after pouring the metal in lump boxes, the sand which is in direct contact with Hot metal, Temperature up to 1100 degree C. Sand becomes hard due to binder and hardener and overheat. It converts in lump formation which are also hard, it's time to dispose. We have develop new machine to break such these type of lumps into original sand formation by a easy way, and not by hammering, or crushing, or beating. Very easy way by shearing concept, minimum power and maximum output. Easy to operate and easy to maintain.



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EQUIPMENT SERVICES

STURDY DURABLE RELIABLE



RESIN SAND COATER :

“ YOUNG ” Sand Coating Plant is working on a warm coating process. This shell sand coating Plant producing resin coated sand for shell process. Machine is available with auto resin, catalyst & sand charging with dust collector. Indirect type Hot Air Generator

SYSTEM :

Electrical Heating or LPG Heating

SPECIFICATION :

Mixer Chamber with 'S' Type blades.
Special hot air chamber with a blower in it.
It has a special vibrating screen.

SIZE INFORMATION :

Batch capacity: 75kg, 150Kg, 250Kg, 500Kg.

CATEGORY :

Semi Automatic & Fully Automatic.



COMPANY PROFILE

“ YOUNG ” offers Foundry Equipments designed on sound principle and unique requirements of there trough workmanship with built in quality & safety features. That assures long trouble free unmatched services price fetch you real value for your investments.

All machine backed by years of experience in design & developments. Our complete Foundry Equipments are also designed to best suit the INDIAN climatic as well as WORKING conditions. The performance SUPERIORITY of our Equipments are reflected in the REPEAT orders from the users of other make Equipments also.

We have earned a name SPECIALIST for ourselves for the workmanship and efficiency after sales-services.



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EQUIPMENT SERVICES



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