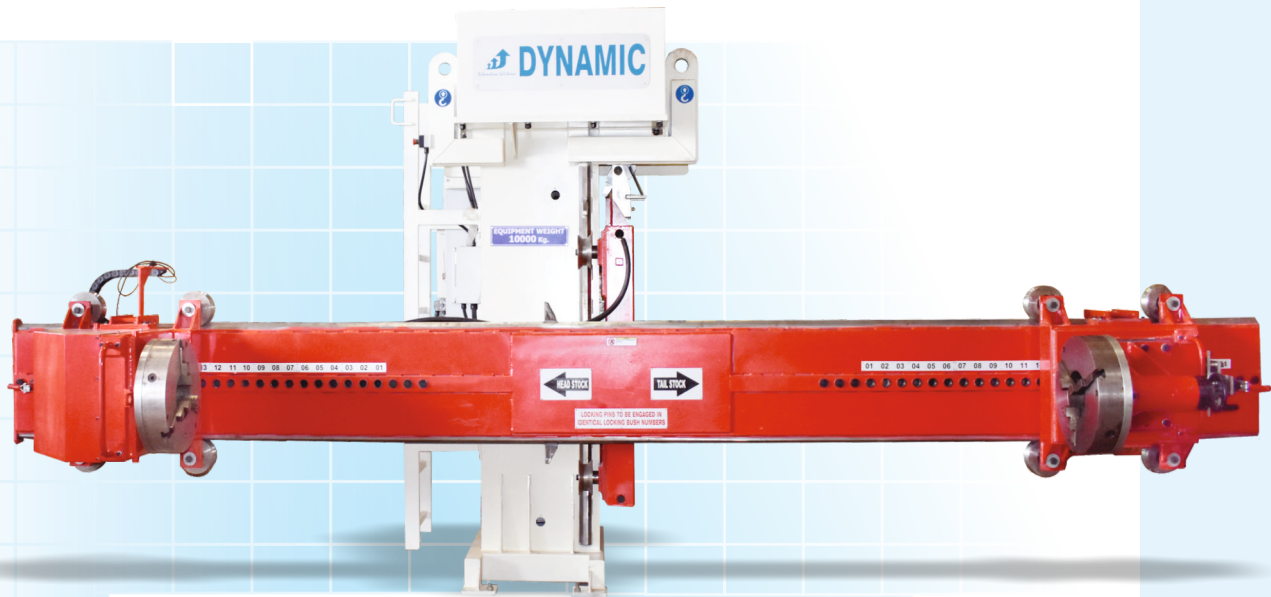


**Fixed type –Two Axes - Manipulation of Screw Conveyor in Rotational & Up-down axes.**

**Two Axes manipulation – Rotational & Up-down**



**Equipment Variant no. 2**

**Table- Technical specifications :**

**Table- Equipment Variant no. 1**

Description	Unit	Specification
Maximum Job diameter	mm	600
Maximum Job length	mm	2600
Minimum Job length	mm	700
Maximum Job weight	Kg	600
Overall dimensions of the equipment	mm	6300x3050x3050

**Table- Equipment Variant no. 2**

Description	Unit	Specification
Maximum Job diameter	mm	1020
Maximum Job length	mm	4000
Minimum Job length	mm	500
Maximum Job weight	Kg	1500
Overall dimensions of the equipment	mm	4500x1850x3100



**Equipment Variant no. 1**

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# DYNAMIC

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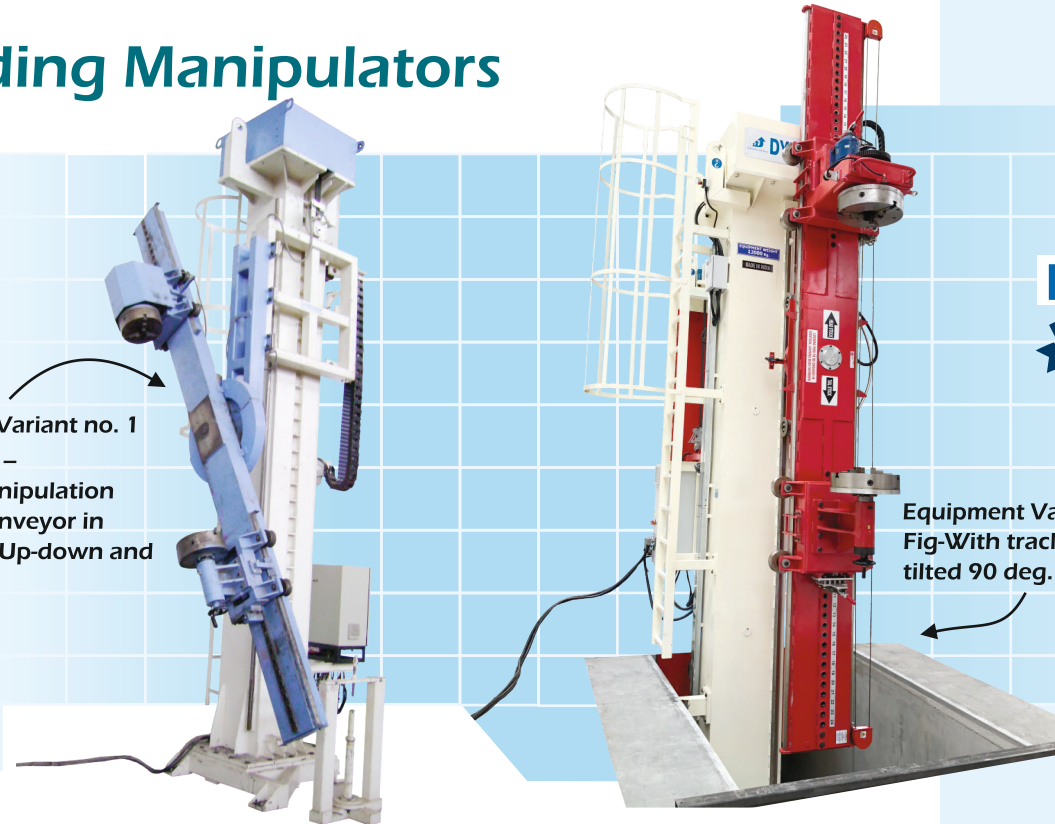
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## Welding Manipulators



**Equipment Variant no. 1**  
Tilting type –  
3 Axes - Manipulation  
of Screw conveyor in  
Rotational, Up-down and  
tilting axes

**Equipment Variant no. 2**  
Fig-With track  
tilted 90 deg. Vertical

**Function - Manipulation of job (screw conveyor) in order to provide 1G position for welding**

### Salient Features :

- ✓ Ease of welding for operators as it provides 1G position.
- ✓ Ease of handling heavy jobs & desired positioning.
- ✓ High Productivity with safe working.
- ✓ Consistent Quality of operation.
- ✓ Axes manipulation – Rotational, Up-down & Tilting axes.
- ✓ Motorized movement for head stock and tail stock (optional).
- ✓ Customizable according to requirement

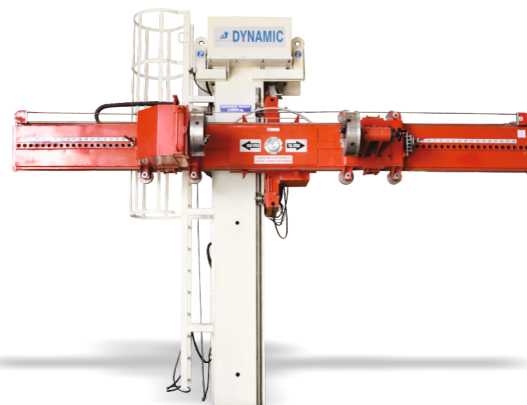


Fig- With track horizontal, Equipment commissioned in pit

### Table- Technical specifications :

**Table- Equipment Variant no. 1**

Description	Unit	Specification
Maximum Job diameter	mm	600
Maximum Job length	mm	2600
Minimum Job length	mm	1200
Maximum Job weight	Kg	600
Overall dimensions of the equipment	mm	4500x2100x5500

**Table- Equipment Variant no. 2**

Description	Unit	Specification
Maximum Job diameter	mm	1020
Maximum Job length	mm	4000
Minimum Job length	mm	500
Maximum Job weight	Kg	1500
Overall dimensions of the equipment	mm	6280x3050x7100

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Manual, Time  
consuming process ?

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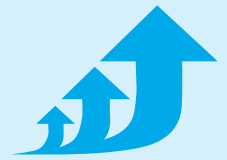
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Screw Flight Welding Machine

MCCIA INNOVATION AND  
ENTREPRENEURSHIP AWARDS 2018  
**HARIMALINI JOSHI**  
AWARD WINNER  
2018

### Features

1. Indigenous technology – Service available in INDIA
2. 120 minutes (Approx.) manual welding work completed in 8-10 minutes.
3. Consistent welding quality
4. Qualified welder not required.
5. Free from welder's welding quality & productivity dependency.
6. Torch manipulation gives dynamic response to change in face out & run out of weld joint.
7. Low cost as no complicated controls involved.

### Specifications:

Description	Unit	Specification
Maximum diameter of Flight	mm	400 Approx.
Maximum Length of material	mm	2000 Approx.
Maximum Weight	Kg	200 Approx.
Loading/Unloading of the coil		Manually/by EOT
Input Supply	V.A.C	415, 50 HZ, 4 Wire

### Stop!

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consuming & unsafe  
method to weld  
screw flights ?

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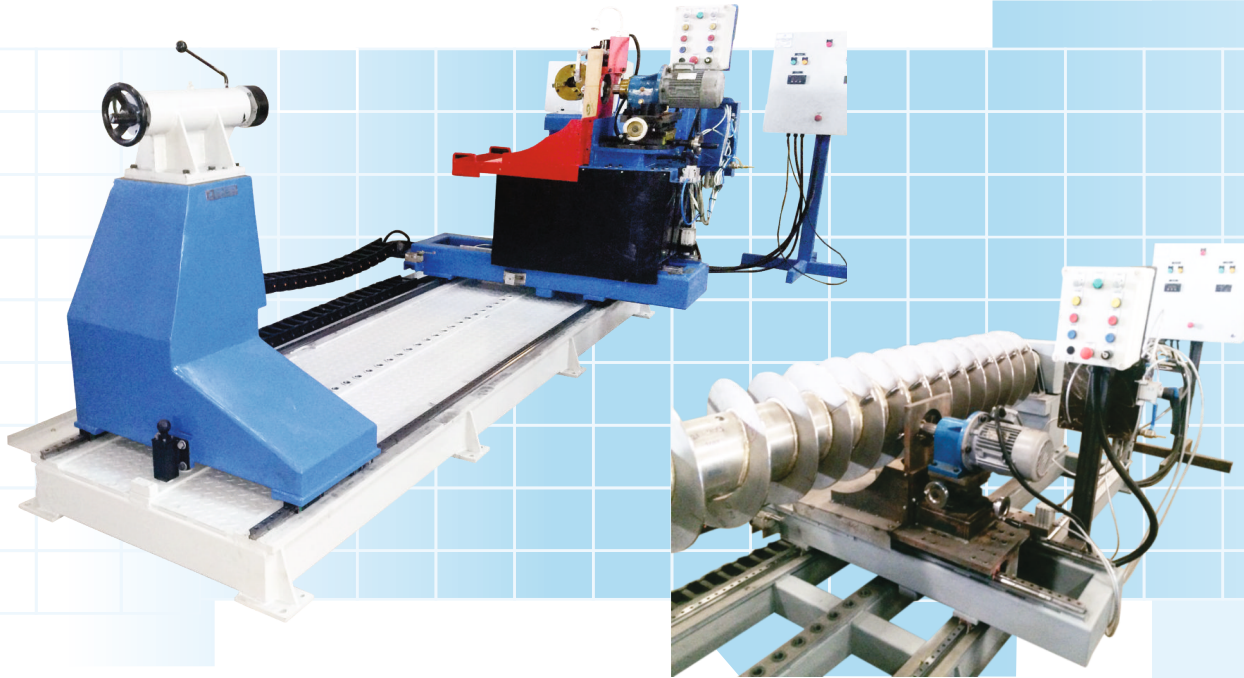
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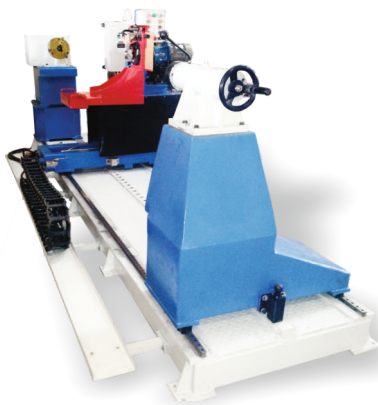
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## Screw Conveyor Deburring Machine



**Function:** Removal of residual burr from screw conveyor flight edge, after its machining  
Providing radius / chamfer on outer diameter of the flight as required for hard facing.



### Table- Technical specifications :

Description	Unit	Specification
Maximum diameter of job	mm	450
Minimum diameter of job	mm	200 approx.
Maximum job Length	mm	2400
Minimum job Length	mm	1000
Maximum job Weight	Kg	600
Maximum screw flight pitch	mm	250 approx.
Minimum screw flight pitch	mm	90
Overall dimensions of the Equipment	mm	4210x1400x1400

### Salient Features :

- ✓ Burr removal made Easy.
- ✓ High Productivity.
- ✓ Enhancement in job quality.
- ✓ Cost effective, Value added machine.
- ✓ Tedious manual work avoided.
- ✓ Making operations safe.
- ✓ Customizable according to requirements

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## Hard Facing Machine for Decanter Screw flight conveyor



**Function- Automation of hard facing/Tungsten Carbide coating process for decanter screw conveyors.**

### Salient Features :

- ✓ Vertical up/down, Horizontal forward/reverse manipulation of hard facing equipment.
- ✓ Up/down manipulation of Operator Platform can be done.
- ✓ Various diameters, Pitches & lengths of Decanter screw conveyors can be processed.
- ✓ Auto adjustable according to job variation by specially designed mechanism.
- ✓ Provision of operator platform for close monitoring & fine tuning of process settings
- ✓ Ease of Operations & Monitoring.
- ✓ High Productivity.
- ✓ Consistent Quality of operation
- ✓ Customizable according to requirements

### Table- Technical specifications :

Table- Equipment Variant no. 1

Description	Unit	Specification
Maximum Job diameter	mm	600
Minimum Job diameter	mm	200
Maximum Job length	mm	2600
Minimum Job length	mm	1200
Minimum pitch	mm	60
Maximum Job weight	Kg	600
Maximum flight angle	Deg.	10
Overall dimensions of the equipment	mm	2870x3400x5300

Table- Equipment Variant no. 2

Description	Unit	Specification
Minimum Job diameter	mm	190
Maximum Job diameter	mm	1020
Minimum Job length	mm	1500
Maximum Job length	mm	4000
Minimum pitch	mm	50
Maximum Job weight	Kg	1500
Maximum flight angle	Deg.	10
Overall dimensions of the equipment	mm	3210x1500x6860

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## Milling machines for system balancing

Portable Milling Machine with Trolley



Pic - Machine with trolley to aid its movement along the shop floor & other variant in operation.

Equipment Variant no. 2

**Function : Removal of material from decanter bowl to balance the system**

### Salient Features :

- ✓ Wide range of decanter models can be accommodated in a Single machine.
- ✓ Portable machine making ease of operation.
- ✓ Accurate material removal from decanter bowl as per the command for its system balancing on the test bed.
- ✓ High Productivity with flexibility.
- ✓ Consistent Quality of operation.
- ✓ Speed & Feed control of the cutter with Vertical (Up-down) & Horizontal (Forward-reverse) movement control.
- ✓ Manual feed milling machines available
- ✓ Customizable according to requirements

### Table- Technical specifications :

Table- Equipment Variant no. 1

Description	Unit	Specification
Maximum Bowl diameter	mm	650
Minimum Bowl diameter	mm	386
Overall dimensions of the equipment		2870x3400x 5300

Table- Equipment Variant no. 2

Description	Unit	Specification
Maximum Bowl diameter	mm	1048
Minimum Bowl diameter	mm	386
Overall dimensions of the equipment		2500x900x 1900

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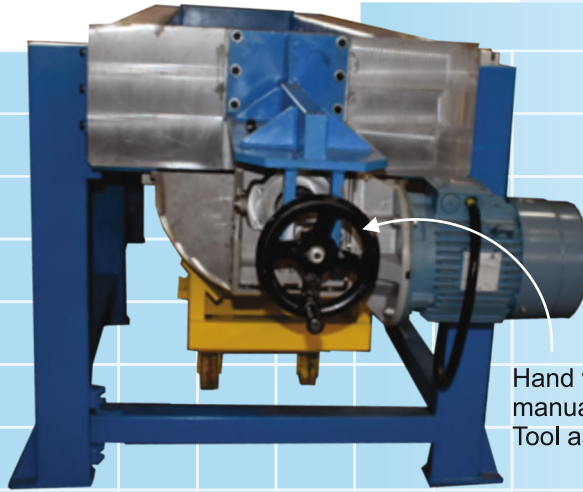
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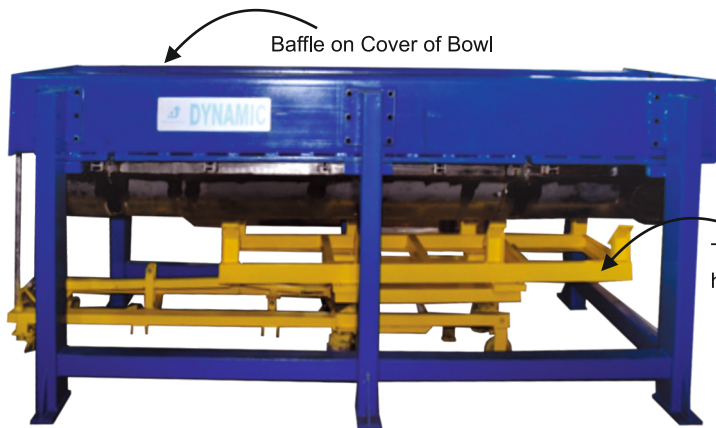
## Boring machine for Decanter Cover



Boring bar holding tool at Baffle position



Hand wheel for manual positioning of Tool as per baffle.



Baffle on Cover of Bowl

Trolley with roll out part which holds the bowl cover & slides in/out.

**Function: Baffle boring of Decanter cover as per required diameter & position.**

### Salient Features :

- ✓ Specially made as per diameters & lengths of Decanter cover.
- ✓ Adjustable cutter position manually according to cover baffle location.
- ✓ Ease of Operations & Monitoring.
- ✓ Consistent Quality of operation.
- ✓ Customized as per requirements.

**Stop!**  
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Manual, Time  
consuming process ?

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