

# ROLL SHOP MACHINERIES AND EQUIPMENT

COTS  
GRINDING  
MACHINE



COTS  
MOUNTING  
DEVICES



TOP ROLLER  
TESTING  
DEVICES



AGV  
AUTOMATIC  
GUIDED  
VEHICLE

**asteks**<sup>®</sup>  
KAUÇUK VE PLASTİK SAN. TİC. A.Ş.



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**SINCE 1970**

Asteks has been servicing to textile sector since 1970. The company has carried up to date its experience and the quality without leaving the core principles set at its establishment. The production takes place in Istanbul / Turkey at its modern factory having 6.000 m<sup>2</sup> close area in 11.000 m<sup>2</sup> open land. Through the implementation of restructuring strategy introduced in 1997 the company has gained the corporate identity. Asteks, who has reliability in both domestic and international markets, applies modern management approaches, follows and introduces new technologies.

The company has around 75% market share in Turkey and also exports to almost 30 countries among where there are machine manufacturers on a global scale.

The roll shop facilities have very important task in maintaining the

persistency of the quality in the mill. The machineries, those are to de-mount&mount and grind the cots on ring spinning, roving, drawing and combing frames, should technically be competent.

ASTEKS, by the experience gained along the years, is in the position to design and manufacture the machineries and automations used at its own cots & aprons production line shaping, sizing, finishing in to top quality level. The company utilize this valuable experience, combining with the latest technology, in manufacturing roll shop machineries like cots grinding machine, UV cots surface treatment machine, mounting&de-mounting devices and all others.

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**COTS GRINDING MACHINES**



**203-SF**  
SMART FEEDING SYSTEM



**201-SF**  
SMART FEEDING SYSTEM



**202-AFT**  
MAGAZINE TYPE AUTOMATIC FEEDING - TWIN DIRECTIONS



**201-AF**  
MAGAZINE TYPE AUTOMATIC FEEDING



**201-MTL**  
MANUAL FEEDING - TEXTURIZING - DIAMETER MEASUREMENT BY LASER



**201-M**  
MANUAL FEEDING - MULTI FUNCTIONAL

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# COTS GRINDING MACHINES

## 203-SF

SMART FEEDING SYSTEM

This is the cots grinding machine with its fully automated and high performance features with its two heads developed for the large amount of spinning capacity factories. Labour free operation with its smart system.



The Smart Feeding System with Double Magazines

### TECHNICAL FEATURES

- Cots' diameter measuring system by laser.
- Top roller rotating motor with servo control.
- Linear sliding cradle traverse system by servo control.
- Grinding stone motor with inverter control.
- Control panel with HMI 8 inch touchmatic screen.
- Automation system controlled by PLC.
- Grinding stone with enchased structure for rubber cots grinding
- Suction unit, top roller holding and stone grinding apparatus.

### ADVANTAGES

**The Smart Feeding System with Double Magazines;** it offers the comfort in loading big no.of top rollers in to the specially designed feeding unit just by pouring off, at once, instead of the manual,time consuming work of aligning them in to the magazine. It makes the operation very easy for the users and provides grate saving in time and labour.

**Cots' Diameter Measuring System by Laser;** by measuring the outer diameter of the cots to be processed it maintains to perform the grinding at the range of the outer diameter determined. The cots with the diameter smaller or bigger than the dimension range determined are separated automatically. Since the separation is done before the grinding section of the machine the productivity of the machine is not affected.

**Automatic Grinding System;** It offers significantly high efficient performance with its double magazine feeding system by fully automated

grinding process from beginning to the end, allowing the operator to do the other jobs, meantime.

**Touch Screen Control Panel;** It provides to manage the whole process by allowing very easy setting input for the several parameters like grinding amount on the cots' surface, traverse speed, the rotation speed of cots holding bar, polishing period and the others in accordance with the maintenance team decision on the setting value. Additionally, it offers the option in language setting.

**Automatic Stone Grinding System;** The grinding on the stone can be done automatically, fast and without any hassle only by the instruction given over the touch screen panel with no additional mechanical work, very easily.

**Automation System Controlled by PLC;** enables tailor-made settings for all elements.



Touch Screen Control Panel



Automatic Stone Grinding System

### MACHINE

|        |          |
|--------|----------|
| Height | 2.000 mm |
| Length | 1.500 mm |
| Width  | 1.500 mm |
| Weight | 900 kg   |

### FEEDING UNIT

|        |                 |
|--------|-----------------|
| Height | 1135 mm         |
| Length | 975 mm x 2 sets |
| Width  | 915 mm x 2 sets |
| Weight | 450 kg x 2 sets |

### WORKING PARAMETERS

|                   |   |                      |      |                   |        |
|-------------------|---|----------------------|------|-------------------|--------|
| GRINDING CAPACITY | 19x32x20mm<br>800-1000 top rollers / hour | GRINDING SENSITIVITY | 0,02 | SURFACE ROUGHNESS | Ra<1,2 |
|-------------------|---|----------------------|------|-------------------|--------|

### PROCESSING RANGE

|                        |      |                        |      |                      |       |
|------------------------|------|------------------------|------|----------------------|-------|
| MIN. GRINDING DIAMETER | 26mm | MAX. GRINDING DIAMETER | 40mm | MAX. GRINDING LENGTH | 150mm |
|------------------------|------|------------------------|------|----------------------|-------|

# COTS GRINDING MACHINES

## 201-SF

SMART FEEDING SYSTEM

This is the cots grinding machine with its fully automated and high performance features with single head. Labour free operation with its smart system.



Smart Feeding System



Touch Screen Control Panel

### TECHNICAL FEATURES

- Cots' diameter measuring system by laser.
- Top roller rotating motor with servo control.
- Linear sliding cradle traverse system by servo control.
- Grinding stone motor with inverter control.
- Control panel with HMI 8 inch touchmatic screen.
- Automation system controlled by PLC.
- Grinding stone with enched structure for rubber cots grinding
- Suction unit, top roller holding and stone grinding apparatus.

### ADVANTAGES

**The Smart Feeding System with Magazine;** it offers the comfort in loading big no.of top rollers in to the specially designed feeding unit just by pouring off, at once, instead of the manual,time consuming work of aligning them in to the magazine. It makes the operation very easy for the users and provides grate saving in time and labour.

**Cots' Diameter Measuring System by Laser;** by measuring the outer diameter of the cots to be processed it maintains to perform the grinding at the range of the outer diameter determined. The cots with the diameter smaller or bigger than the dimension range determined are separated automatically. Since the separation is done before the grinding section of the machine the productivity of the machine is not affected.

**Automatic Grinding System;** It offers significantly high efficient performance with its magazine type feeding system by fully automated grinding process from beginning to the end, allowing the operator to do the other jobs, meantime.

**Touch Screen Control Panel;** It provides to manage the whole process by allowing very easy setting input for the several parameters like the grinding amount on the cots' surface, traverse speed, the rotation speed of cots holding bar, polishing period and the others in accordance with the maintenance team decision on the setting value. Additionally, it offers the option in language setting.

**Automation System Controlled by PLC;** enables tailor-made settings for all elements.

**Made in Turkey**

### MACHINE

|        |          |
|--------|----------|
| Height | 2.000 mm |
| Length | 1.500 mm |
| Width  | 1.500 mm |
| Weight | 850 kg   |

### FEEDING UNIT

|        |          |
|--------|----------|
| Height | 1.100 mm |
| Length | 980 mm   |
| Width  | 920 mm   |
| Weight | 460 kg   |

### WORKING PARAMETERS

|                   |   |                      |          |
|-------------------|---|----------------------|----------|
| GRINDING CAPACITY | 19x32x20mm<br>400-500<br>top rollers / hour | GRINDING SENSITIVITY | 0,02     |
|                   |   | SURFACE ROUGHNESS    | Ra < 1,2 |

### PROCESSING RANGE

|                        |      |                        |      |
|------------------------|------|------------------------|------|
| MIN. GRINDING DIAMETER | 24mm | MAX. GRINDING DIAMETER | 40mm |
|------------------------|------|------------------------|------|

MAX.TOP ROLLER LENG CAN BE FED THROUGH FEEDING SYSTEM

150mm

MAX.GRINDING LENG

400mm

# COTS GRINDING MACHINES

## 202-AFT

MAGAZINE TYPE  
AUTOMATIC  
FEEDING – TWIN  
DIRECTIONS

This is the cots grinding machine with its two functional heads developed for the large amount of spinning capacity factories. By twin direction feature, long cots for draw frames and combers can be processed on the other side of the machine.

VIEW ON FRONT

Automatic Grinding Section



|        |          |
|--------|----------|
| Height | 1.400 mm |
| Length | 850 mm   |
| Width  | 1.370 mm |
| Weight | 720 kg   |



HMI Control Panel



Double Magazine Automatic Feeding System



Long Drafting Cots (for DRAW FRAME and COMBERS) Grinding System

VIEW AT BACK



### WORKING PARAMETERS

|                   |   |                      |      |                        |      |                        |      |  |       |                      |       |
|-------------------|---|----------------------|------|------------------------|------|------------------------|------|--|-------|----------------------|-------|
| GRINDING CAPACITY | 19x32x20mm<br>800 - 1.200<br>top rollers/hour | GRINDING SENSITIVITY | 0,02 | MIN. GRINDING DIAMETER | 24mm | MAX. GRINDING DIAMETER | 51mm | MAX.TOP ROLLER LENGTH CAN BE FE THROUGH MAGAZI | 150mm | MAX. GRINDING LENGTH | 400mm |
|-------------------|---|----------------------|------|------------------------|------|------------------------|------|--|-------|----------------------|-------|

### PROCESSING RANGE

### TECHNICAL FEATURES

- Top roller rotating motor with servo control.
- Linear sliding cradle traverse system by servo control.
- Grinding stone motor with inverter control.
- 2 sets of control panel with HMI 8 inch touchmatic screen.
- Automation system controlled by PLC.
- Grinding stone with enchased structure for rubber cots grinding.
- Suction unit, top roller holding and stone grinding aparatus.

### ADVANTAGES

**The Feeding System with Double Magazine;** by doubled size loading capacity, it makes the productivity double.

**Automatic Grinding System;** It offers significantly high efficient performance with its double magazine feeding sytem by the fully automated grinding progress from beginning to the end, allowing the operator to do the other jobs, meantime.

Touch Screen Control Panel; It provides to manage the whole process by allowing very easy setting input for the parameters like

the grinding amount on the cots' surface, traverse speed, the rotation speed of cots holding bar, polishing period and the others in accordance with the maintenance team's decision on the setting value. Additionally, it offers the option in language setting.

**Automation System Controlled by PLC;** enables tailor-made settings for all elements.

VIEW AT SIDE



\*optional:Smart Feeding (SF) system is applicable

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# COTS GRINDING MACHINES

## 201-AF

COTS GRINDING MACHINES

Offering grinding on all type of cots (spinning, roving ,draw frame , comber) in a spinning factory on the same machine. One of the most preferred machine. User friendly design.



Long cots for Drawing and Combing Frames can be processed on the same machine without any complicated, time consuming conversions needed.

|        |          |
|--------|----------|
| Height | 1.760 mm |
| Length | 850 mm   |
| Width  | 1.370 mm |
| Weight | 740 kg   |

### WORKING PARAMETERS

|                   |  |
|-------------------|--|
| GRINDING CAPACITY | 19x32x29mm<br>400 - 600 top rollers/hour |
|-------------------|--|

|                      |          |
|----------------------|----------|
| GRINDING SENSITIVITY | 0,02     |
| SURFACE ROUGHNESS    | Ra < 1,2 |

### PROCESSING RANGE

|                        |      |                        |      |                      |       |
|------------------------|------|------------------------|------|----------------------|-------|
| MIN. GRINDING DIAMETER | 24mm | MAX. GRINDING DIAMETER | 51mm | MAX. GRINDING LENGTH | 400mm |
|------------------------|------|------------------------|------|----------------------|-------|

### TECHNICAL FEATURES

- Cot holder's motor controlled by inverter.
- Linear sliding cradle traverse system by inverter control.
- Grinding stone motor with inverter control.
- Control panel with HMI 8 inch touchmatic screen
- Automation system controlled by PLC.
- Grinding stone with enchased structure for rubber cots grinding
- Suction unit, top roller holding and stone grinding apparatus

### ADVANTAGES

**The Feeding System with Magazine;** high loading capacity by magazine, it makes the operation very easy for the users.

**Multi Size Combined Grinding System;** offers flexibility in processing long cots for Drawing and Combing Frames, , as well as short cots for Ring Frames and Roving Frames on the same machine without any complicated, time consuming conversions needed.

**Automatic Grinding System;** It offers significantly high efficient performance with it's magazine feeding sytem by the fully automated grinding progress from beginning to the end, allowing the operator to do the other jobs, meantime.

**Touch Screen Control Panel;** It provides to manage

the whole process by allowing very easy setting input for the parameters like the grinding amount on the cots' surface, traverse speed, the rotation speed of cots holding bar, polishing period and the others in accordance with the maintenance team decision on the setting value. Additionally, it offers the option in language setting.

**Cot Holder Controlled By Inverter,** processing table controlled by inverter provides flexibility in setting cot holder's rotation speed and traverse period to maintain the cot surface roughness (Ra) value targetted in accordance with the yarn count produced and the cot's hardness.

**Automation System Controlled by PLC;** enables tailor-made settings for all elements.

This is the grinding machine designed to process the cots for texturizing machines and long staple fibers spinning frames. Diameter measuring system by laser contributes to increase the efficiency in the process.

## 201-MTL

MANUAL – TEXTURIZING-DIAMETER MEASUREMENT BY LASER

# COTS GRINDING MACHINES



|        |          |
|--------|----------|
| Height | 1.400 mm |
| Length | 850 mm   |
| Width  | 1.370 mm |
| Weight | 720 kg   |

### WORKING PARAMETERS

|                   |                                  |
|-------------------|----------------------------------|
| GRINDING CAPACITY | 45x65x34mm<br>250op rollers/hour |
|-------------------|----------------------------------|

|                      |          |
|----------------------|----------|
| GRINDING SENSITIVITY | 0,02     |
| SURFACE ROUGHNESS    | Ra < 1,2 |

### PROCESSING RANGE

|                        |      |                        |       |                      |       |
|------------------------|------|------------------------|-------|----------------------|-------|
| MIN. GRINDING DIAMETER | 24mm | MAX. GRINDING DIAMETER | 100mm | MAX. GRINDING LENGTH | 450mm |
|------------------------|------|------------------------|-------|----------------------|-------|

### TECHNICAL FEATURES

- Cots' diameter measuring system by laser.
- Cots holder's motor controlled by inverter.
- Linear sliding cradle by inverter control.
- Grinding stone motor with inverter control.
- The Motor related with Cots' Diameter Check is Controlled By Servo.
- Control panel with HMI 7 inch touchmatic screen.
- Automation system controlled by PLC.
- Grinding stone with enchased structure for rubber cots grinding.
- Suction unit, top roller holding and stone grinding apparatus.

### ADVANTAGES

**Cots' Diameter Measuring System by Laser;** measures the cots' diameter, eliminating the operator checking the diameters manual before the process and thus maintaining higher efficiency by saving the labour.

**Automatic Grinding System:** Following the operator sets the cot on the holding unit, the machine completes the grinding automatically in compliance with the settings input over the touch screen by just pushing the start button.

**Touch Screen Control Panel;** It provides to manage the whole process by allowing very easy setting input for the parameters like the grinding amount on the cots' surface, traverse speed, the rotation speed of cots holding bar, polishing period and the others in accordance with the maintenance team's decision on the setting value. Additionally, it offers the option in language setting.

**Cot Holder Controlled By Inverter;** processing table controlled by inverter provides flexibility in setting cot holder's rotation speed and traverse period to maintain the cot surface roughness (Ra) value targetted in accordance with the yarn count produced and the cot's hardness.

**Automation System Controlled by PLC;** enables tailor-made settings for all elements.

**Stop-Start System;** The grinding stone stops while the cot is placed by the operator. The stone starts to rotate only by the push on to the start button. It maintains the work safety and energy saving.

**Low Energy Consumption;** offers economical process by lower energy cost.

# COTS GRINDING MACHINES

## 201-M MANUAL MULTI FUNCTIONAL

Offers high flexibility and wide multi functionality by the ability to process all kind of cots including Ring&Roving&Draw Frames, Combers, Texturizing, Open-End, Finisher, Drafting Rollers in both short and long staple fibre spinning.



Higher higher productivity in the process by higher capacity feeding shelf



User friendly by its touchmatic control panel



|        |          |
|--------|----------|
| Height | 1.350 mm |
| Length | 700 mm   |
| Width  | 1.000 mm |
| Weight | 150 kg   |

# UV-302 COTS SURFACE TREATMENT by UV AUXILIARIES A ROLL SHOP

By the effect of UV irradiation the minor burs on the cots surface incurred at grinding process are cleared off. The change in fibre characteristic and climatisation and some other factors, that can not under control easily, especially in the factories processing PES fibres and blends can be effective in lapping on cots. UV treatment may minimize that lapping tendency. Also, UV treatment machine supports to maintain better performance with the cots on super high speed Vortex machines after grinding process.



|        |          |                    |                                  |                                  |                      |      |                        |      |                        |       |                      |       |
|--------|----------|--------------------|----------------------------------|----------------------------------|----------------------|------|------------------------|------|------------------------|-------|----------------------|-------|
| Height | 1.400 mm | WORKING PARAMETERS |                                  | PROCESSING RANGE                 |                      |      |                        |      |                        |       |                      |       |
| Length | 850 mm   | GRINDING CAPACITY  | 19x32x29<br>200 top rollers/hour | 19x51x32<br>200 top rollers/hour | GRINDING SENSITIVITY | 0,02 | MIN. GRINDING DIAMETER | 24mm | MAX. GRINDING DIAMETER | 100mm | MAX. GRINDING LENGTH | 450mm |
| Width  | 1.370 mm |                    |                                  | SURFACE ROUGHNESS                | Ra < 1,2             |      |                        |      |                        |       |                      |       |
| Weight | 720 kg   |                    |                                  |                                  |                      |      |                        |      |                        |       |                      |       |

### TECHNICAL FEATURES

- Cots holder's motor with inverter control.
- Grinding stone motor with inverter control.
- Control panel with HMI 8 inch touchmatic screen.
- Automation system controlled by PLC.
- Grinding stone with enchased structure for rubber cots grinding
- Suction unit, top roller holding and stone grinding apparatus

### ADVANTAGES

**The Ability to Process All Kind of Cots;** Ring & Roving & Draw Frames, Combers, Texturizing, Open-End, Finisher, Drafting Rollers in both short and long staple fibre spinning. Touch Screen Control Panel; It provides to manage the whole process by allowing very easy setting input for the parameters like the grinding amount on the cots' surface, traverse speed, the rotation speed of cots holding bar, polishing period and the others in accordance with the maintenance team's decision on the setting value. Additionally, it offers the option in language setting.

**Linear Sliding Cradle Traverse System** by Inverter Control; avoids the defect with conical grinding at the change of holder settings.

Cots Holder Controlled By Inverter; perfect cot's surface maintained by processing table under inverter control.

**Automation System Controlled by PLC;** offers ability in tailor-made setting.

**By the Ability in Setting of the Period When the Stone Polishing on the Rubber Cots;** perfect cot's surface roughness level.

**By Digital Control on Setting in Grinding Amount;** high dimensional precision.

**Low Energy Consumption;** 2,9kW

### TECHNICAL FEATURES

- Higher productivity in the process by higher capacity feeding shelf what can accomodates 45 pcs top rollers
- Automation in openning and closing of feeding shelf.
- The regulation on cots rotation speed by servo motor control during UV application.
- Flexibility by the option for 1000 or 2000 Watt UV power application as per the operator's decision
- Very easy maintenance and change of the lamp by the ergonomical design of the machine.

- By the start-stop function of UV application, the UV lamps are turned-off when the feeding shelf is to be opened. Having the feature with the lamps are turned-on only after the feeding shelf is closed, sets extra care on health safety, energy saving and extended life time of the UV lamps.
- Effective irradiation by specially designed reflectors and 2000 Watt UV lamp.

### ADVANTAGES

- Following the grinding on the cots used in synthetic fibres and blends spinning; Contribution in to yarn quality and production cost.
- Superior running performance and better efficiency on super high delivery speed Air Jet Spinning systems after cots grinding process
- Decrease in the tendency of lapping.
- Higher efficiency in start-up after grinding by more efficient piecing and thus saving in labour.

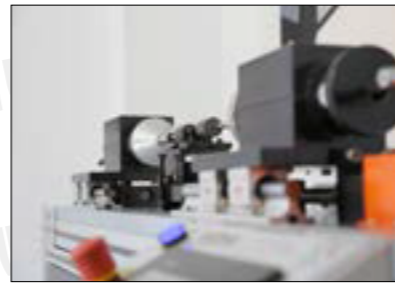
# AUXILIARIE AT ROLL SH

## TOP ROLLER LUBRICATING DEVICE (AUTOMATIC) WITH AUTOMATIC DOSING

### TECHNICAL FEATURES

- Lubricates the top rollers of ring spinning frames and roving frames.
- Under control the right amount of the lubricant that should be applied by automatic dosing system.
- High efficiency by the lubrication at the same time on both sides of the top rollers.
- User friendly operation; the operator only needs to feed the top roller on to the device, then, automatically, lubrication on both side takes place, at the same time.

|        |          |
|--------|----------|
| Height | 1.200 mm |
| Lenght | 1500 mm  |
| Width  | 600 mm   |
| Weight | 218 kg   |



# AUXILIARIE ROLL SHOP

## TOP ROLLER LUBRICATION DEVICE (MANUAL)

### TECHNICAL FEATURES

- Lubricates the top rollers of ring spinning frames and roving frames.
- The control on right amount of lubrication is maintained by the dosing system manually set.
- The control on right amount of lubrication is maintained by the dosing system manually set. User friendly at the manual operation.

|        |        |
|--------|--------|
| Height | 740 mm |
| Lenght | 220 mm |
| Width  | 450 mm |
| Weight | 38 kg  |



# COTS MOUNTI DEVICES

## PNEUMATIC COTS MOUNTING DEVICE

Cots for Ring Spinning,  
Roving Frames, Open-  
End Spinning Machines

By Pneumatic Mounting Devices, the top rollers for ring spinning and roving frames are processed. The cots centering bar and push restriction element maintain under control and reliable operation. It is supplied together with adaptors for mounting&de-mounting.

|        |        |
|--------|--------|
| Height | 910 mm |
| Lenght | 300 mm |
| Width  | 450 mm |
| Weight | 38 kg  |



## MANUAL COTS MOUNTING DEVICES

Cots for Ring Spinning,  
Roving Frames, Open-End  
Spinning Machines

It is used for mounting the bear top rollers in to the cots for ring spinning, roving frames and Open-End spinning machines. It is a rather economical solution. The cots centering bar enables a precise application under control. The adaptors suitable to the top rollers in the factory are supplied together.

# MANUAL COT MOUNTING DEVICES

|        |        |
|--------|--------|
| Height | 650 mm |
| Lenght | 370 mm |
| Width  | 280 mm |
| Weight | 40 kg  |





# COTS MOUNTING DEVICES

## HYDRAULIC COTS MOUNTING DEVICE (HORIZONTAL DESIGN)

Mounting & De-Mounting for the cots for Draw Frames and Combers

It is used for de-mounting and mounting the bear top rollers in to cots for Draw Frames, Lap Formers and Combers.

### TECHNICAL FEATURES

- By hydraulic system, the mounting operation is executed in a stable momentum, keeping the progress under control.
- The adaptors suitable to the top rollers in the factory are supplied together.



|        |          |
|--------|----------|
| Height | 1.000 mm |
| Length | 1.700 mm |
| Width  | 360 mm   |
| Weight | 215 kg   |



# COTS MOUNTING DEVICES

## HYDRAULIC COTS MOUNTING DEVICE (VERTICAL DESIGN)

Cots for Long Stable Spinning and Texturizing Systems

It is used for de-mounting and mounting the bear top rollers in to cots for Texturizing, Long Stable and Fancy Yarn Spinning Systems.

### TECHNICAL FEATURES

- By the vertical design hydraulic system, the mounting operation is executed in a stable momentum, keeping the progress under control better at processing rather big diameter cots like for long stable spinning and texturizing systems.
- The adaptors suitable to the top rollers in the factory are supplied together.
- The cots centering bar enables a precise application under control.



|        |          |
|--------|----------|
| Height | 1.800 mm |
| Length | 600 mm   |
| Width  | 600 mm   |
| Weight | 120 kg   |



# TOP ROLLER TESTING DEVICES

## TOP ROLLER CONCENTRICITY MEASURING DEVICE

- Measures the concentricity on the rubber cots right and left on the top roller for ring spinning and roving frames.
- High accuracy and easy testing



Height 265 mm  
 Length 477 mm  
 Width 245 mm  
 Weight 40 kg

## COTS SURFACE ROUGHNESS (Ra) TESTING DEVICE

# TOP ROLLER TESTING DEVICES

- Measures the surface roughness (Ra) on the cots following the grinding process. Confirms the quality level offered by the grinding process.
- Ra testing device is supplied with the stand for the cots for ring spinning, roving and draw frames.



Height 280 mm  
 Length 120 mm  
 Width 160 mm  
 Weight 5 kg

## TOP ROLLER CONICITY MEASURING DEVICE

### TOP ROLLERS CONICITY MEASURING DEVICE

- Identifies the risk of the conicity on the cots for drawing frames and combing frames following the grinding process.
- Precise and easy testing provided by the linear sliding cradle system



Height 360 mm  
 Length 600 mm  
 Width 80 mm  
 Weight 20 kg

## RUBBER COT HARDNESS TESTER (SHORE METER)

# TOP ROLLER TESTING DEVICES



It is used to measure shore hardness level on rubber cots. In compliance with DIN regulations that tests at +/- 3 Sh tolerance at Shore A scale defined.

## TOP ROLLER TESTING DEVICES

### COTS DIAMETER MEASURING DEVICE (CALIPER)

It is used to define the cots' dimension. By its digital structure a high accuracy measurement is applied.



# TRANSPORTATION VEHICLES

## TOP ROLLERS CARRIAGE

Provides the top rollers to be collected from the ring spinning frames and/or roving frames and to be transported forward and back between roll shop and the machines.



Top rollers carriage inside view.



- Provides the top rollers to be collected from the ring spinning frames and/or roving frames and to be transported forward and back between roll shop and the machines.
- Easy usage provided by the ergonomic design.
- Following the grinding process, maintains delicacy in the transportation without any harm on the surface of the cots that newly treated.
- Provides right keeping conditions for the cots treated at roll shop by preventing direct light affection.

|        |          |
|--------|----------|
| Height | 1.050 mm |
| Length | 1.450 mm |
| Width  | 650 mm   |
| Weight | 120 kg   |

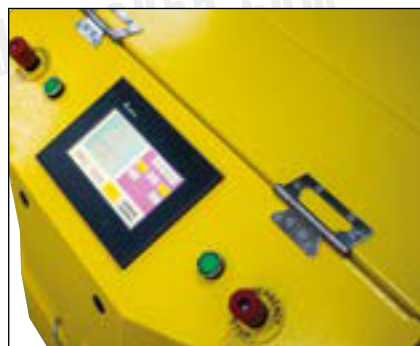
# AGV AUTOMATIC GUIDED VEHICLE



# TRANSPORTATION VEHICLES

## 101-AGV AUTOMATIC GUIDED VEHICLE

AGV (Automatic Guided Vehicle) are the vehicles carrying goods and/or trolley with its man free, automatic steering system.



|        |          |
|--------|----------|
| Height | 610 mm   |
| Lenght | 760 mm   |
| Width  | 1.210 mm |
| Weight | 317 kg   |

### TECNICAL FEATURES OF 101-AGV

- Ability to handle 2 (and optionally 4) tons load
- Programmable to stop and start at the station determined.
- Enable to turn over 360 degree even in a limited narrow area.
- Runs on the route set with magnetic tapes.
- Auidable alarm system with lighthening flash.
- Stops when there is an obstacle on front and re-starts when the obstacle is moved away
- Technology applied with AC motor and Inverter.

### ADVANTGES OFFERED BY 101-AGV

- High technology applied with AC motor and inverter.
- **Cost reduction while maintaining the standardization on the operation.**
- Planning on product logistic and enhaced tracking.
- **Increase in production efficiency.**

## 101-AGV AUTOMATIC GUIDED VEHICLE

# TRANSPORTATION VEHICLES

- Flexibility with running single or group of vehicles together being synchronised each others.
- AGV are indoor advanced transportation systems what can offers solutions with load carriage in variety and in different application fields.
- AGV offers increase in profitability provided by the increase in efficiency and decrease in cost in production.
- Tailor-made designing and sketching according to the physical conditions of the mill and it's operational requirements.



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