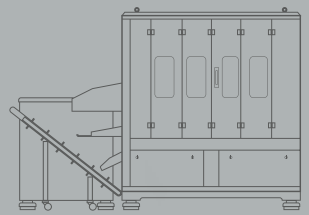
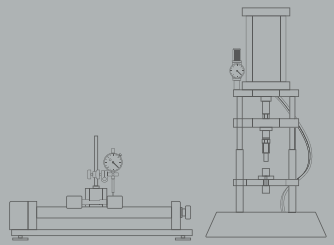
asteks®

Cots Grinding Machinery and the Other Roller Covering Shop Equipment

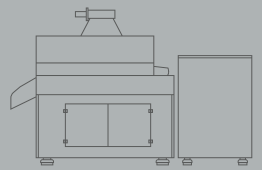
Cots Grinding Machines



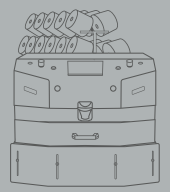
Cots De-mounting & Mounting Equipment



Cots Surface Treatment by UV



AGV Automatic Guided Vehicle



since 1970

asteks®

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 / Turkiye at its modern factory having 8.500 m2 close area in 11.000 m2 open land.

Asteks, who has reliability in both domestic and international markets by it's products manufactured in terms of ISO 9001:2015 quality management system, continuous to be active as a corporate minded company utilizing new technologies and applying modern management approaches.

The company has major dominant market share in Turkiye and also exports to almost 30 countries among where there are machine manufacturers on a global scale.

The roller covering shop facilities have very important task in maintaining the persistency of the quality in the mill. The machinery , those are to de-mount&mount and grind the cots on ring spinning, roving, drawing and combing frames, should technically be competent.

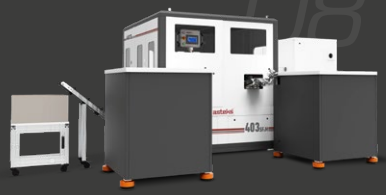
ASTEKS, by the experience gained along the years, is in the position to design and manufacture the machineries and automations used at its own cots & aprons production line shaping, sizing, finishing in to top quality level. The company utilize this valuable experience, combining with the latest technology,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

Türkiye since 1970 TÜV AUSTRIA CE TEMSAD

COTS GRINDING MACHINES

401 SF&M — ***Cots Grinding Machine***
With Smart Feeding System & Two Independent Grinding Units & Multi Functional

402 SF — ***Cots Grinding Machine***
With Smart Feeding System & Two Independent Grinding Units & Double Capacity



403 SF&M — ***Cots Grinding Machine***
With Smart Feeding System & Three Independent Grinding Units & Multi Functional - Double Capacity

201 AF&M — ***Cots Grinding Machine***
With Magazine Type Automatic Feeding System & Two Independent Grinding Units & Multi Functional

201 AF — ***Cots Grinding Machine***
With Magazine Type Automatic Feeding System & Multi Functional

201 MTL — ***Cots Grinding Machine***
Manual Feeding - Texturing Diameter Measurement by Laser

201 M — ***Cots Grinding Machine***
Manual Feeding & Multi Functional

INDEX

asteks

COTS GRINDING MACHINES

401 SF&M

Cots Grinding Machines

With Smart Feeding System & Two Independent Grinding Units & Multi Functional

This is new generation cots grinding machine with it's fully automated and high performance features with two independent grinding units. Labour free operation with it's smart system.

It has two separate grinding units running independent. While the short cots like the ones for ring spinning, roving machines are processed on the first grinding head, automatic, on the second head the long cots like the ones for drawing and combing machines are processed simultaneously, at the same time.

The Smart Feeding System with Vibration Box;
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 one by one. It makes the operation very easy for the users and provides great 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 set by the user are separated automatically, without effecting the productivity of the machine in grinding process. This measurement and thus classification over the dimension, what is done by the operator manually one by one with the conventional systems, is progressed automatically by this model of grinding machine.

Automatic Grinding System;
It offers significantly high efficient performance with it's pour and feed 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'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.

"Made in Türkiye"

2nd independent grinding unit for the long cots like the ones for draw frames and combers;
the independent grinding unit with narrow stone design offers ideal grinding on long cots for draw frames and combers. At the same time, the grinding on short cots like the ones for ring spinning frames and/or roving frames goes on in automatic process, simultaneously.

Cots' diameter measuring system by laser.

Tailstock motor with servo control.

Linear sliding cradle traverse system by servo control.

Grinding stone motor with inverter control.

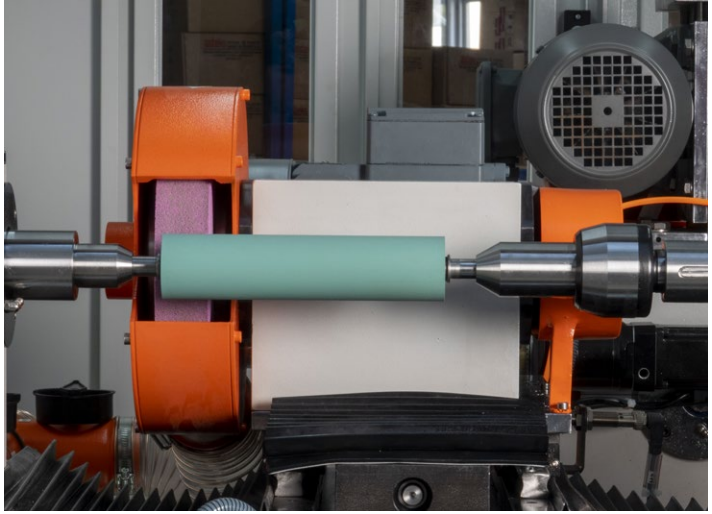
Control panel with HMI 8 inch touch screen.

Automation system controlled by PLC.

Grinding stone with enchaced structure for rubber cots grinding.

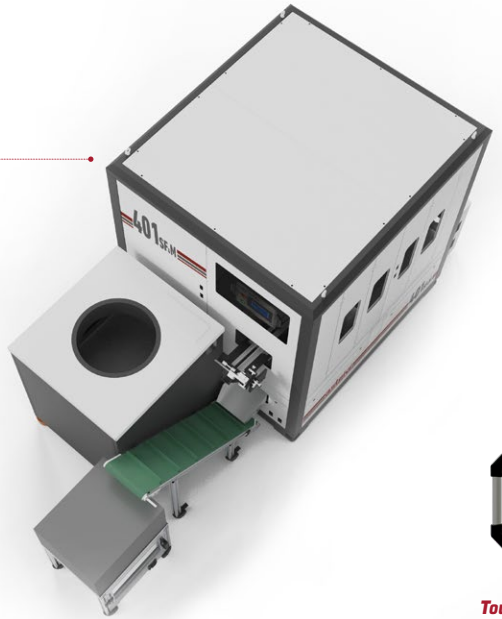
Suction unit, top roller holding and stone grinding apparatus.

The Smart Feeding System with Vibration Box;



2nd Independent Grinding Unit

2nd independent grinding unit for the long cots like the ones for draw frames and combers;
the independent grinding unit with narrow stone design offers ideal grinding on long cots for draw frames and combers. At the same time, the grinding on short cots like the ones for ring spinning frames and/or roving frames goes on in automatic process, simultaneously.

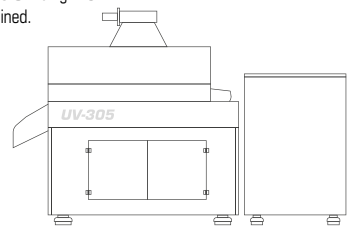


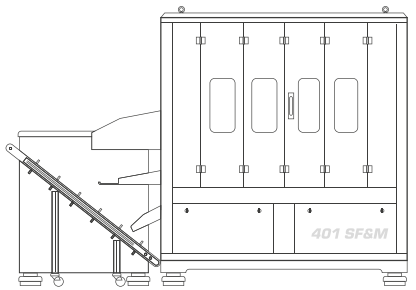
Touch Screen Control Panel

The process ability Independent and/or Combined with Cots Surface Treament by UV

In optional, 401 series of cots grinding machinery offer the possibility of integration with cots surface treatment porcess by UV-305 maintaining a perfect continous process Grinding + UV treatment, combined.

asteks UV 305 + asteks 401 SF&M





Machine Dimensions: ***Height:*** *2.200mm* ***Length:*** *1.190mm* ***Width:*** *1.800mm* ***Weigth:*** *1.830 kg*

Feeding Box: ***Height:*** *1.100mm* ***Length:*** *980mm* ***Width:*** *920mm* ***Weight:*** *480kg*

Working Parameters: ***Grinding Capacity:*** *300-400 arbours/hour (19x32x29mm cots)* ***Grinding Sensitivity, Surface Roughness:*** **Ra0,5-1,0µm (it may vary depending on the specification and the feature of the cots)*

2nd Independent Grinding Unit: ***Min.Diameter to process:*** *24mm* ***Max.Diameter to process:*** *40mm (on demand can be 51mm)* ***Max.Length to process:*** *150mm*

Min.Diameter to process: *24mm* ***Max.Diameter to process:*** *100mm* ***Max.Length to process:*** *450mm*

(for the special products and dimensions, tailor-made design special engineering solutions can be offered, on demand)

402 SF

Cots Grinding Machine

With Smart Feeding System & Two Independent Grinding Units & Double Capacity

402-SF is the cots grinding machine with double capacity that is designed for only short cots like the ones for ring spinning and roving frames for the spinning mills with large number of spindles capacity by it's fully automated and high performance features with two independent grinding units.

It provides feeding the large number of top rollers by just pouring them in to the feeding boxes, at once, without the hassle of aligning the top rollers one by one.It offers great saving in labour and time, eases the roller covering shop operator's job by its easy, user-friendly automatic feeding system. By independently driven twin grinding heads for short cots, it offers grinding ability of 2 top rollers (4 cots/4 spindles) for ring spinning frames or roving frames at the same time. By one machine the grinding productivity of two machines can be maintained.

Smart Feeding System in Double Capacity provided by Two Feeding Boxes;
provides feeding the large number of top rollers by just pouring them in to the feeding boxes,at once, without the hassle of aligning the top rollers one by one. By this user friendly, easy feeding system it eases the roller covering shop operator's job, offering great saving in labour and time.

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 set by the user are separated automatically, without effecting the productivity of the machine in grinding process. This measurement and thus classification over the dimension, what is done by the operator manually one by one with the conventional systems, is progressed automatically by this model of grinding machine.

Automated Grinding System in High Productivity and High Flexibility by 2 Independent Twin Grinding Units;
2 top rollers (4cots/4 spindles) for ring spinning frames or roving frames at the same time can be processed on independently driven twin grinding heads,in full automation,from beginning to the end. On this specific machine,402-SF, two different types of short cots may be processed on twin but independently driven grinding units supported by smart feeding system in full automation.

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'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.

"Made in Türkiye"

2X *Separate grinding units those are, both, driven independently, offering double productivity.*

Cots' diameter measuring system by laser.

Tailstock motor with servo control.

Linear sliding cradle traverse system by servo control.

Grinding stone motor with inverter control.

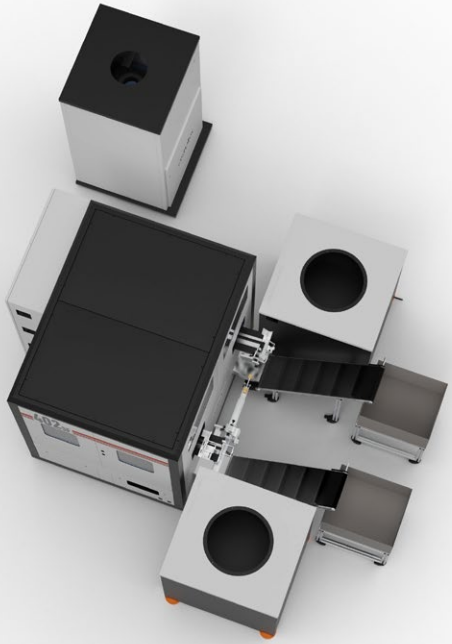
Control panel with HMI 8 inch touch screen.

Automation system controlled by PLC.

Grinding stone with enchaced structure for rubber cots grinding.

Suction unit, top roller holding and stone grinding apparatus.

Smart Feeding System with Two Feeding Boxes



Touch Screen Control Panel

View from the back of the machine

Machine Dimensions: ***Height:*** *2.210mm* ***Length:*** *1.380mm* ***Width:*** *1.740mm* ***Weight:*** *1.452kg*

Feeding Box (2 sets): ***Height:*** *1.150mm* ***Length:*** *950mm* ***Width:*** *950mm* ***Weight:*** *460kg*

Working Parameters: ***Grinding Capacity:*** *600-800arbours/hour (19x32x29mm cots)* ***Grinding Sensitivity, Surface Roughness:*** **Ra0,5-1,0µm (it may vary depending on the specification and the feature of the cots)*

Min.Diameter to process: *24mm* ***Max.Diameter to process:*** *40mm (on demand can be 51mm)* ***Max.Length to process:*** *150mm*

(for the special products and dimensions, tailor-made design special engineering solutions can be offered, on demand)

403 SF&M

Cots Grinding Machine

With Smart Feeding System & Three Independent Grinding Units & Double Capacity

403-SF&M is the cots grinding machine with double capacity on short cots processing, that is designed for the spinning mills with large number of spindles capacity by it's fully automated and high performance features with three independent grinding units. It provides feeding the large number of top rollers by just pouring them in to the feeding boxes, at once, without the hassle of aligning the top rollers one by one.It offers great saving in labour and time, eases the roller covering shop operator's job by its easy, user-friendly automatic feeding system. By independently driven twin grinding heads for short cots, it offers grinding ability of 2 top rollers (4 cots/4 spindles) for ring spinning frames or roving frames at the same time.

The 3rd independent grinding unit with narrow stone design also offers ideal grinding on long cots for draw frames and combers. At the same time, the grinding on short cots for ring spinning frames and/or roving frames on other 2 heads goes on in automatic process.

"Made in Türkiye"

Smart Feeding System in Double Capacity provided by Two Feeding Boxes; provides feeding the large number of top rollers by just pouring them in to the feeding boxes,at once, without the hassle of aligning the top rollers one by one. By this user friendly, easy feeding system it eases the roller covering shop operator's job, offering great saving in labour and time.

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 set by the user are separated automatically, without effecting the productivity of the machine in grinding process. This measurement and thus classification over the dimension, what is done by the operator manually one by one with the conventional systems, is progressed automatically by this model of grinding machine.

Automated Grinding System in High Productivity in High Flexibility by 3 Independent Grinding Units; 2 top rollers (4 cots/4 spindles) for ring spinning frames or roving frames at the same time can be processed on independently driven twin grinding stones,in full automation,from beginning to the end. Plus, at the same time the long cots for draw frames and combers can be processed on narrow stoned 3rd grinding unit. On this specific machine,403-SF&M,three different type of top rollers can be processed at the same time ; two different types of short cots may be processed on twin grinding units supported by smart feeding system in full automation and the long cots can be processed on 3rd grinding unit.

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'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.

3rd Grinding Unit Built-in to Process Long Cots for Draw frames and Combers;
on this independently driven grinding unit with narrow stone, the ideal grinding can be applied on to long cots for draw frames and combers. At the same time, provided by the independent structure, the grinding on short cots for ring spinning frames and/or roving frames on the other grinding units may be going on in full automation, simultaneous, while long cots are being processed.

3X *3 Independent Grinding Units; 2 grinding heads for short cots for ring spinning and roving frames supported by smart feeding system and 1 grinding head for long cots for draw frames and combers. They are all independently driven.*

Cots' diameter measuring system by laser.

Tailstock motor with servo control.

Linear sliding cradle traverse system by servo control.

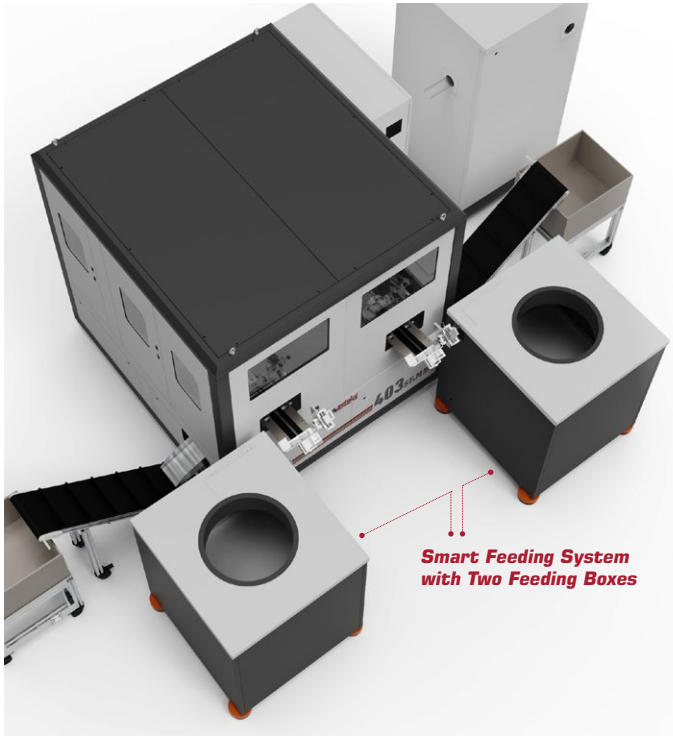
Grinding stone motor with inverter control.

Control panel with HMI 8 inch touch screen.

Automation system controlled by PLC.

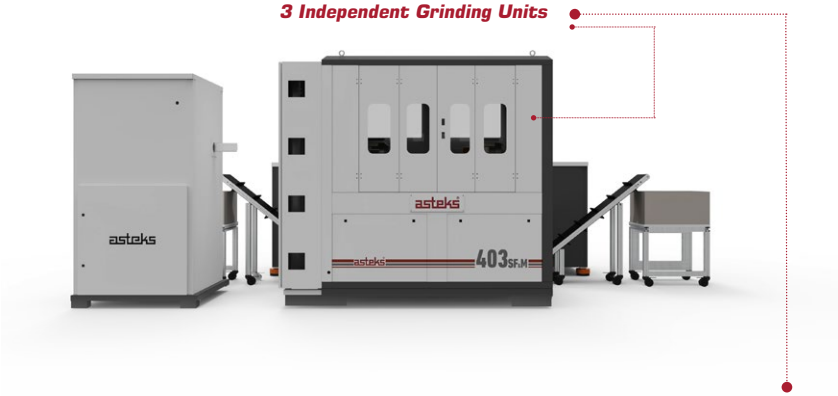
Grinding stone with enchaced structure for rubber cots grinding.

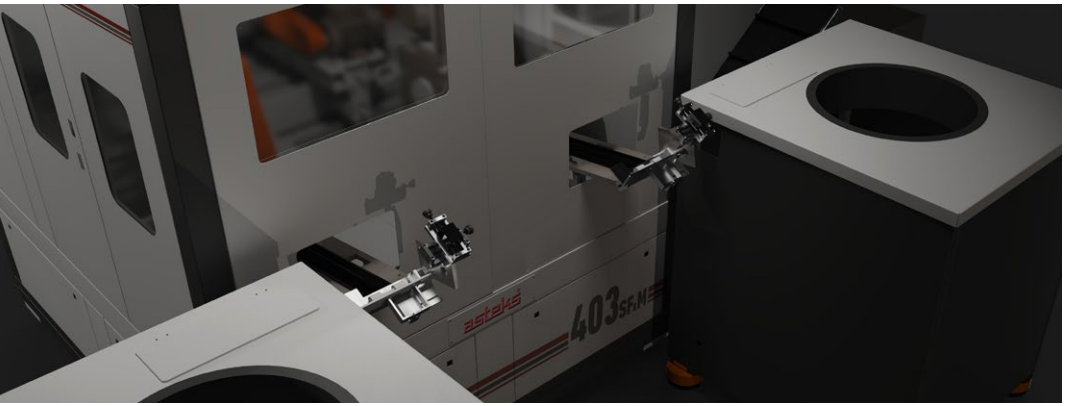
Suction unit, top roller holding and stone grinding apparatus.

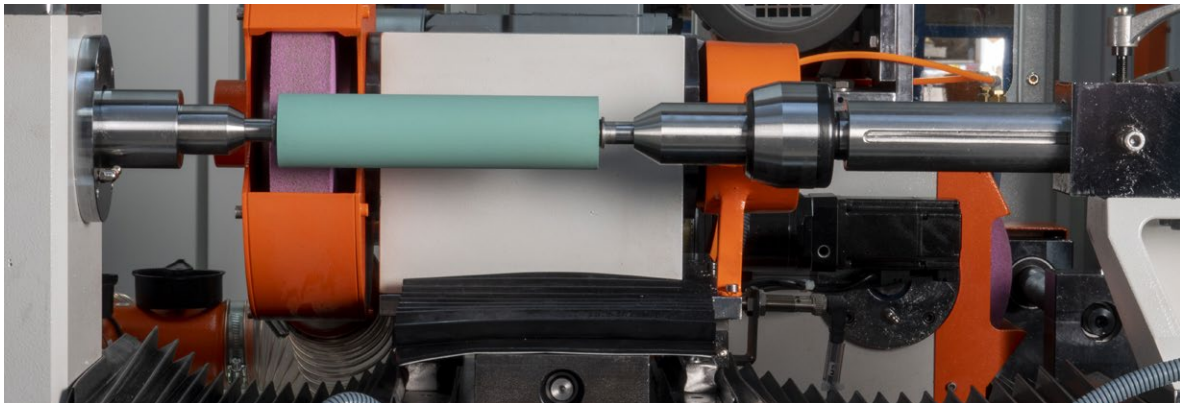


Touch Screen Control Panel

3 Independent Grinding Units







Machine Dimensions: ***Height:*** *2.010mm* ***Length:*** *1.740mm* ***Width:*** *1.880mm* ***Weight:*** *2.050kg*

Feeding Box (2 sets): ***Height:*** *1.150mm* ***Length:*** *950mm* ***Width:*** *950mm* ***Weight:*** *460kg*

Working Parameters: ***Grinding Capacity:*** *600-800arbours/hour (19x32x29mm cots)* ***Grinding Sensitivity, Surface Roughness:*** **Ra0,5-1,0µm (it may vary depending on the specification and the feature of the cots)*

1. and 2. Heads: ***Min.Diameter to process:*** *24mm* ***Max.Diameter to process:*** *40mm (on demand can be 51mm)* ***Max.Length to process:*** *150mm*

3rd Heads: ***Min.Diameter to process:*** *24mm* ***Max.Diameter to process:*** *100mm* ***Max.Length to process:*** *450mm*

(for the special products and dimensions, tailor-made design special engineering solutions can be offered, on demand)

201 AF&M

Cots Grinding Machine

With Magazine Type Automatic Feeding System & Two Independent Grinding Units & Multi Functional

While the grinding on the short cots for ring spinning frames and roving frames is automatically processed by the grinding unit with magazine type feeding system, at the same time, in simultaneous and continuous process, on the 2nd grinding unit with narrow stone the ideal grinding is applied on to long cots for draw frames and combers, independently. By that, it is a multi functional, economical cots grinding machine.

The Magazine Type Automatic Feeding System;
high loading capacity for 72pcs top rollers (arbours) by magazine, it makes the operation very easy for the users.

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

2nd Independent Grinding Unit for long cots for draw frames and combers;
the independent grinding unit with narrow stone design offers ideal grinding on long cots for draw frames and combers.
At the same time, the grinding on short cots for ring spinning frames and/ or roving frames goes on in automatic process.

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's decision on the setting value. Additionally, it offers the option in language setting.

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The System Controlled By Inverter On Grinding Stones, Tailstocks and Processing Table;
provides flexibility in setting the rotation speed of grinding stones, tailstocks and the traverse period to maintain the cot's 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.

"Made in Türkiye"

Tailstock motor with inverter control.

Linear sliding cradle traverse system by servo control.

Grinding stone motor with inverter control.

2 sets Control panel with HMI 8 inch touch screen

Automation system controlled by PLC.

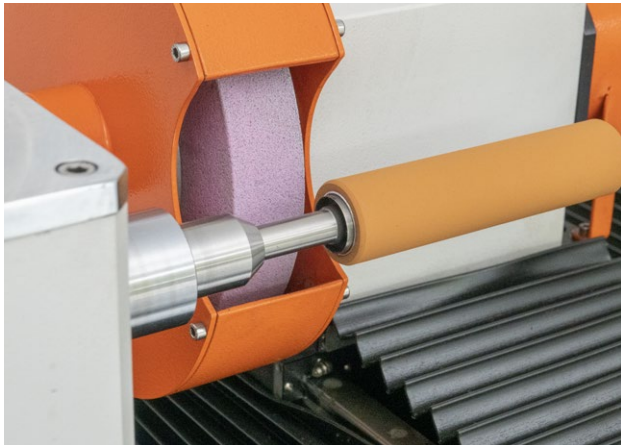
Grinding stone with enchaced structure for rubber cots grinding.

Suction unit, top roller holding and stone grinding apparatus.

The ability of grinding short cots for ring spinning frames and roving frames and long cots for draw frames and combers at the same time, in simultaneous and continuous process.

Two HMI Control Panels

Automatic Feeding System By Magazine



Machine Dimensions: ***Height:*** *2.030mm* ***Length:*** *1.600mm* ***Width:*** *2.500mm* ***Weight:*** *1.350kg*

Working Parameters on Long Cots Processing Section: ***Min.Diameter to process:*** *24mm* ***Max.Diameter to process:*** *100mm* ***Max.Length to process:*** *450mm*

Working Parameters on Short Cots Processing Section: ***Min.Diameter to process:*** *24mm* ***Max.Diameter to process:*** *40mm (on demand can be 51mm)* ***Max.Length to process:*** *150mm*

(for the special products and dimensions, tailor-made design special engineering solutions can be offered, on demand)

Working Parameters: ***Grinding Capacity:*** *400arbours/hour (19x32x29mm cots)*

Grinding Sensitivity, Surface Roughness: **Ra0,5-1,0µm (it may vary depending on the specification and the feature of the cots)*

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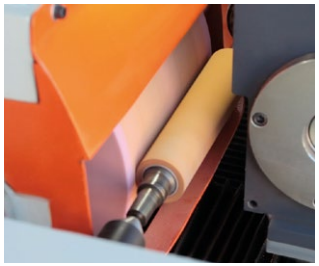
COTS GRINDING MACHINES

201AF

Cots Grinding Machine

With Magazine Type
Automatic Feeding System
Multi Functional

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.

The Magazine Type Automatic Feeding System;
high loading capacity for 72pcs top rollers (arbours) 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 Spinning 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 type feeding sytem by 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 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's decision on the setting value. Additionally, it offers the option in language setting.

The System Controlled By Inverter On Grinding Stones, Tailstock and Processing Table;
provides flexibility in setting the rotation speed of grinding stones, tailstocks and the traverse period to maintain the cot's 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.

"Made in Türkiye"

Machine Dimensions: ***Height:*** *1.760mm* ***Length:*** *850mm* ***Width:*** *1.370mm* ***Weight:*** *740kg*

Working Parameters: ***Min.Diameter to process:*** *24mm* ***Max.Diameter to process:*** *40mm (on demand can be 51mm)* ***Max.Length to process:*** *450mm*

Max.Length to process by Magazine Type Feeding System : *150mm* (for the special products and dimensions, tailor-made design special engineering solutions can be offered, on demand)

Grinding Capacity: *400arbours/hour (19x32x29mm cots)*

Grinding Sensitivity, Surface Roughness: **Ra0,5-1,0µm (it may vary depending on the specification and the feature of the cots)*

Tailstock motor with inverter control.

Linear sliding cradle traverse system by servo control.

Grinding stone motor with inverter control.

Control panel with HMI 8 inch touch screen.

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

Grinding stone with enchaced structure for rubber cots grinding.

Suction unit, top roller holding and stone grinding apparatus.

asteks

COTS GRINDING MACHINES

201 MTL

Cots Grinding Machine

Manual Feeding
Texturing - Diameter
Measurement by Laser

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

Control panel HMI

Machine Dimensions:

Height: 1.400mm **Length:** 850mm

Width: 1.370mm **Weight:** 720kg

Working Parameters:

Grinding Capacity: 250 rollers/hour (45x65x34mm cots)

Grinding Sensitivity, Surface Roughness:
*Ra0,5-1,0µm (it may vary depending on the specification and the feature of the cots)

Min.Diameter to process: 24mm
Max.Diameter to process: 100mm
Max.Length to process: 450mm

(for the special products and dimensions, tailor-made design special engineering solutions can be offered, on demand)

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

Automatic Grinding System;
Following the operatör places 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 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's decision on the setting value. Additionally, it offers the option in language setting.

Tailstock and Counter Table System Controlled By Inverter;
processing table controlled by inverter provides flexibility in setting tailstock 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 buton. It maintains the work safety and energy saving.

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

"Made in Türkiye"

Cots' diameter measuring system by laser

Tailstock motor with inverter control.

Linear sliding cradle traverse system by servo control.

Control panel with HMI 8 inch touch screen.

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

Grinding stone with enchaced structure for rubber cots grinding.

Suction unit, top roller holding and stone grinding apparatus.

asteks

COTS GRINDING MACHINES

201M

Cots Grinding Machine
Manual Feeding & Multi Functional

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

HMI Touch Screen Control Panel

The Ability to Process All Kind of Cots;
Ring Spinning & Roving & Draw Frames, Combers, Texturing, 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 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'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.

Tailstock and Counter Table System 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 in 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

"Made in Türkiye"

Machine Dimensions:

Height: *1.400mm* ***Length:*** *850mm*

Width: *1.370mm* ***Weight:*** *720kg*

Working Parameters:

Grinding Capacity: *200 arbours/hour (19x32x29mm cots)*

Grinding Sensitivity, Surface Roughness: **Ra0,5-1,0µm (it may vary depending on the specification and the feature of the cots)*

Working Parameters:

Min.Diameter to process: *24mm*
Max.Diameter to process: *100mm*
Max.Length to process: *450mm*

(for the special products and dimensions, tailor-made design special engineering solutions can be offered, on demand)

Linear sliding cradle traverse system by servo control.

Control panel with HMI 8 inch touch screen.

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

Grinding stone with enchaced structure for rubber cots grinding.

Suction unit, top roller holding and stone grinding apparatus.

UV 302

COTS SURFACE TREATMENT BY UV Manual Feeding & Multi Functional

By the effect of UV irradiation the minor burs on the cots surface incurred at grinding process are smoothen off. The change in fibre characteristic and climatisation and some other factors, that can not be 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 air jet spinning machines after grinding process.

ADVANTAGES

Following the grinding on the cots used in synthetic fibres and blends spinning;

- Decrease in the tendency of lapping.
- Higher efficiency in startup after grinding by more efficient piecing and thus saving in labour.
- 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

Dimensions:

Height:	*1.350 mm*
Length:	*700 mm*
Width:	*1.000 mm*
Weight:	*150 kg*

Higher productivity in the process by higher capacity feeding shelf

Touch Screen Control Panel

Higher productivity in the process by higher capacity feeding shelf that can accommodate 45 pcs top rollers (for 70mmG ring spinning frames)

AUTO

Automation in openning and closing of feeding shelf.

The regulation on cots rotation speed by servo motor control during UV application.

By control panel user friendly operation

Flexibility by the option for 1000 or 2000 Watt UV power applica-tion as per the users' decision

Very easy maintenance and change of the lamps by the ergonomical design of the machine.

UV

Effective irradiation by specially designed reflectors and 2000 Watt UV lamps.

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.

UV 305

COTS SURFACE TREATMENT BY UV

Smart Feeding System & Combined Continous Process with Cots Grinding (Optional)

UV-305, that is designed mainly for larger spindle capacity spinning mills, is the cots' surface treatment machine by UV irradiation, having superior performance and automation ability.

For the cots those spinning short staple synthetic and synthetic blended fibres after cots grinding process;

- Reducing the risk of lapping the fibres over cots
- The benefit by less ends-down at start-up after doffing
- Less fibre flies accumulation on to top roller cleaning roller
- On extra high delivery speed air jet spinning systems, taking place following cots grinding process, it provides better efficient run.
- At the mills spinning Ne50/1 and finer count yarn, it offers to under control and limit the variation in Uster quality parameters that may be experienced after cots grinding process.

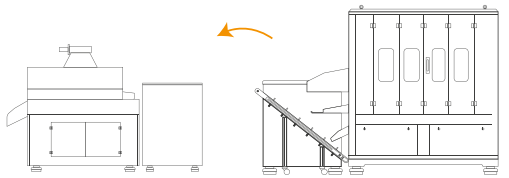
Smart Feeding System with High Capacity Chamber;
can feed the top rollers in bulk quantity by just pour&feed operation without any time consuming manual aligning. By this easy feeding operation it offers to save in labour time, by the operation integrated to cots grinding machine it maintains the performance of the cots grinding process at the highest level.

Superior UV irradiation system;
by four lamps for 4000 watt irradiation power and the reflector structure specially designed, by the cots transfer rolling forward the homogenous irradiation over the entire circumference of the cots is maintained. By heath sensitive powerful ventilation system the optimum ideal heath is maintained in the irradiation section and thus the optimum heath treatment is maintained on the cots.

The continuous and high capacity top roller feeding system;
provides four row top rollers getting irradiated at the same time by it's continuously running steel conveyor and cots rolling forward transfer system that progresses with the smart feeding system fully synchronised.

Also, in the same manner, that can process long cots for draw frames and combers in a continuous operation, realizing homogenous UV irradiation over entire circumference of the cots.

High Functionality by the options provided with Individual Operation or Continuous Process Integrated with Cots Grinding ;
in optional, integrated with 401 series cots grinding machines, offers an excellent continue process on cots starting from grinding and ending up with UV treatment.



Continuous, high efficient smart feeding system with the chamber.

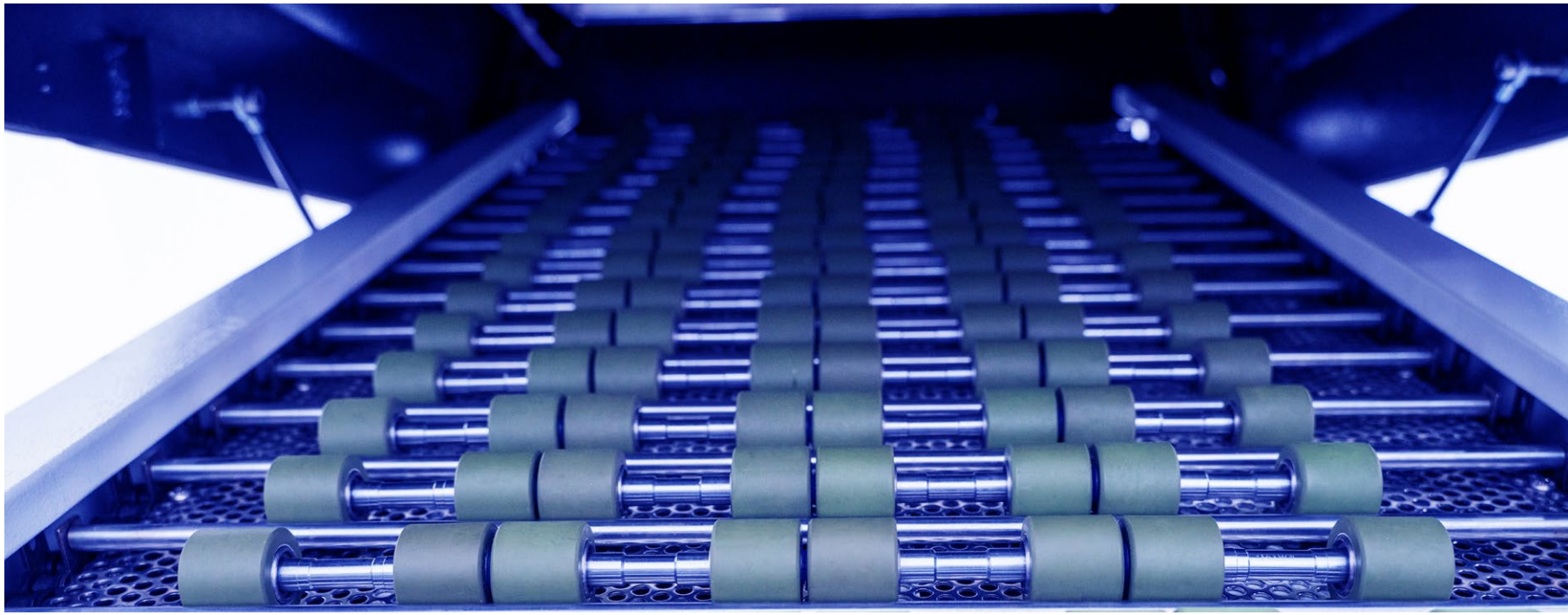
The performance with processing four top rollers for ring spinning frames or drafting rollers up to 450mm width for draw frames or combers, at the same time.

User friendly operation and control by the touch screen panel.

The flexibility in setting the time length of UV irradiation preferred by the users in accordance with the condition and the specification of the cots.

The setting in cots revolving speed by servo motor during irradiation.

Easy maintenance feature and lamp changing process by the optimum machine design.



An effective UV irradiation intense provided by the UV lamps in 4000watt (1000watt x 4 lamps) irradiation power.Facility in UV irradiation power usage of 2000watt or 4000watt as per preference.

At continuous operation performance maximum UV lamp life time.

Machine Dimensions:	
Feeding Box:	*760 x 75 x 1.060mm - 246 kg*
UV-305:	*900 x 1.850 x 1.600mm - 635 kg*
Processing Capacity, Top Rollers for Spinning Machines:	*1.000/1.200arbours/hour*
Processing Capacity, Drafting Rollers for Drawing Machines:	*500/600 rollers/hour*
Processing Capacity, Rollers for Combing Machines:	*200/300 rollers/hour*

TOP ROLLER GREASING MACHINE
Automatic Type

TECHNICAL FEATURES

- Lubricates the top rollers of ring spinning frames and roving frames.
- By automatic dosing system, under control the right amount of the lubricant that should be applied.
- 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.
- Touch screen control panel

Machine Dimensions:

Height: 1.200mm **Length:** 1.500mm
Width: 600mm **Weight:** 218kg

TOP ROLLER GREASING DEVICE
Manual Type

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.
- User friendly at the manual operation.

Dimensions:

Height: 740mm **Length:** 220mm
Width: 450mm **Weight:** 38kg

FLOCK ROLLER CLEANING MACHINE
With Automatic Feeding

By the feeding box, the flock cleaning rollers are fed automatically.

It consists of flexible fillets cleaning the flock and has a system cleaning the fillet, too.

It provides maximum cleaning on flock rollers without damage in high capacity performance.

Technical Parameters:

Feeding System: With feeding box (automatic)
Diameter of Feeding Box: 630mm
Capacity of Feeding Box: 150-200rollers
The Range of Flock Rollers Dimension (max.): outer diameter 50 x width 150mm
Productivitiy : 800-900 rollers/hour
Weight: 385kg

COTS DE-MOUNTING & MOUNTING EQUIPMENT MANUAL TYPE

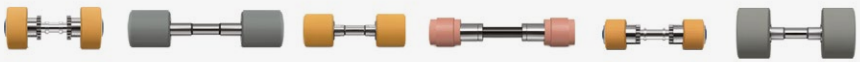
(mainly for short cots for ring spinning, roving, open-end spinning machines)

It is used for de-mounting&mounting the cots for ring spinning, roving frames and open-end spinning machines on to top rollers. 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.

Dimensions:

Height: *650mm*
Length: *370mm*
Width: *280mm*
Weight: *40kg*



COTS DE-MOUNTING & MOUNTING EQUIPMENT PNEUMATIC TYPE

(mainly for short cots for ring spinning, roving, open-end spinning machines)

By Pneumatic Mounting Devices, the top rollers for ring spinning and roving frames are processed. By the device,that is driven by pneumatic power, the old cots are removed from the arbours and new cots are mounted on. The system, that is run by pneumatic power free from variable manual hand power, provides standard high quality process.By this structure, it is specially reccommended to high capacity spinning mills. The cots centering bar and push restriction element maintain the operation under control and reliable. It is supplied together with adaptors for mounting&de-mounting.

Air pressure requirement:

6-8 bar (min.)

Dimensions:

Height: *910mm*
Length: *300mm*
Width: *450mm*
Weight: *38kg*

COTS DE-MOUNTING & MOUNTING EQUIPMENT HYDRAULIC TYPE

(mainly for long cots for drawing, combing, lap forming machines)

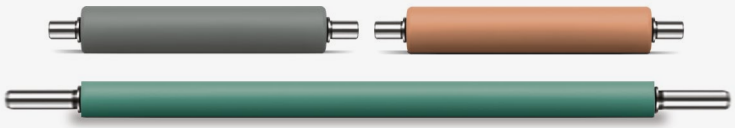
It is used for de-mounting and mounting the cots for Draw Frames, Lap Formers and Combers on to rollers.

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.

Dimensions:

Height: 1.000mm
Length: 1.700mm
Width: 360mm
Weight: 215kg



COTS DE-MOUNTING & MOUNTING EQUIPMENT HYDRAULIC TYPE VERTICAL DESIGN

(mainly for bigger size cots for texturing, long stable spinning systems)

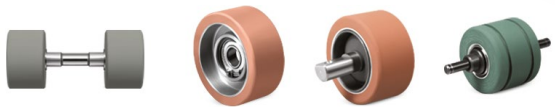
It is used for de-mounting and mounting the cots for Texturing, Long Stable and Fancy Yarn Spinning Systems on to rollers.

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 bigger diameter cots like for long stable spinning and texturing systems.
- The adaptors suitable to the top rollers in the factory are supplied together.
- The cots centering bar enables a precise application under control.

Dimensions:

Height: 1.800mm
Length: 600mm
Width: 600mm
Weight: 120kg



TOP ROLLER ECCENTRICITY MEASURING DEVICE

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

Dimensions:

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

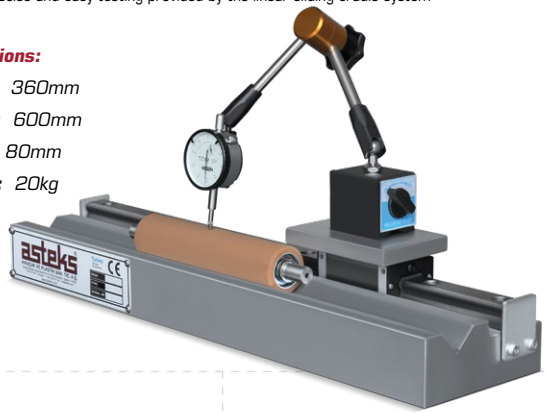
TOP ROLLER CONICITY MEASURING DEVICE

(mainly for long cots for drawing, combing, lap forming machines)

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

Dimensions:

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



RUBBER COTS HARDNESS TESTER *(shore meter)*

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.

COTS SURFACE ROUGHNESS (Ra) TESTING DEVICE

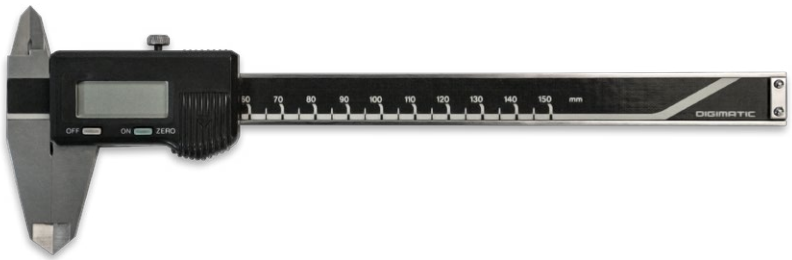
- Measures the surface rougness (Ra) on the cots following the grinding process. Confirms the quality level offered by the grinding process.

Dimensions:

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

COTS DIAMETER MEASURING DEVICE (caliper)

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



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 roller covering 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 roller covering shop by preventing direct light affection.

Top rollers carriage inside view.

Dimensions:

Height: *1.050mm*

Length: *1.450mm*

Width: *650mm*

Weight: *120kg*

ROLLER COVERING SHOP TROLLEY

101 AGV

AUTOMATIC GUIDED VEHICLES

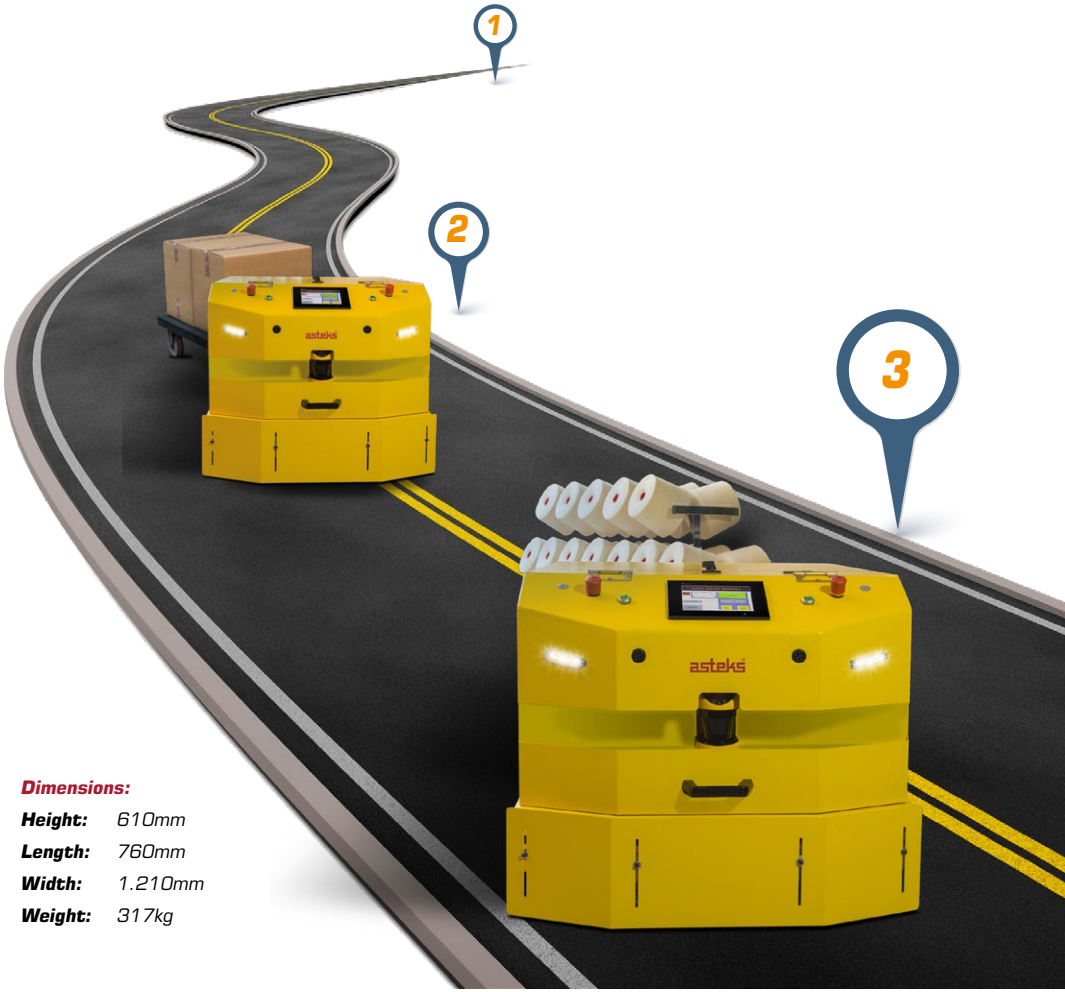
101-AGV (Automatic Guided Vehicle) are the vehicles carrying goods and/or trolley with its man-free, automatic steering system.

TECHNICAL FEATURES OF 101-AGV

- Ability to handle 2 tons load
- Programmable to stop and start at the stations determined.
- Enable to turn around 360 degree even in a limited narrow area.
- Runs on the route set with magnetic tapes.
- Auidable alarm system with ligthening 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.

ADVANTAGES OFFERED BY 101-AGV

- Less man power and thus saving on labour cost
- Increase in mill's efficiency.
- Flexibility with running single or group of vehicles together being synchronised each others.
- 101-AGV are indoor advanced transportation systems those can offer solutions with load carriage in variety and in different application fields.
- 101-AGV offers cost reduction while maintaining the standardization on the operation increasing in profitability provided by the increase in efficiency and decrease in cost of operation.
- Tailor-made designing and sketching according to the physical conditions of the mill and it's operational requirements.



Dimensions:

Height:	610mm
Length:	760mm
Width:	1.210mm
Weight:	317kg

BY OUR ROLLER COVERING SHOP MACHINERY,
WE OFFER YOU THE LATEST TECHNOLOGY ALONG WITH asteks® QUALITY AND RELIABILITY...

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