

ROLL SHOP MACHINERIES AND EQUIPMENT

**COTS
GRINDING
MACHINES**



**COTS
MOUNTING
DEVICES**



**TOP ROLLER
TESTING
DEVICES**



**AGV
AUTOMATIC
GUIDED
VEHICLE**

asteks®

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 m² close area in 11.000 m² 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.



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 it's fully automated and high performance features with its two heads developed for the large amount of spinning capacity factories. Labour free operation with it's smart system.



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 alligning 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 it's 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.



The Smart Feeding System with Double Magazines



Touch Screen Control Panel



Automatic Stone Grinding System

MACHINE

Height	2.000 mm
Lenght	1.500 mm
Width	1.500 mm
Weight	900 kg

FEEDING UNIT

Height	1135 mm
Lenght	975 mm x 2 sets
Width	915 mm x 2 sets
Weight	450 kg x 2 sets

WORKING PARAMETERS

GRINDING CAPACITY	19x32x29 mm 800~1000 top rollers / hour	GRINDING SENSITIVITY SURFACE ROUGHNESS	0.02 Ra<1.2
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PROCESSING RANGE

MIN. GRINDING DIAMETER	26 mm	MAX. GRINDING DIAMETER	40 mm	MAX. GRINDING LENGTH	150 mm
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COTS GRINDING MACHINES

201-SF

SMART FEEDING SYSTEM

This is the cots grinding machine with it's fully automated and high performance features with single head. Labour free operation with it's 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 enchaced 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 alligning 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 it's 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
Lenght	1.500 mm
Width	1.500 mm
Weight	850 kg

FEEDING UNIT

Height	1.100 mm
Lenght	980 mm
Width	920 mm
Weight	460 kg

WORKING PARAMETERS

GRINDING CAPACITY	19x32x29 mm 400-500 top rollers / hour
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GRINDING SENSITIVITY SURFACE ROUGHNESS	0.02 Ra<1,2
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PROCESSING RANGE

MIN. GRINDING DIAMETER	24 mm	MAX. GRINDING DIAMETER	40 mm
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MAX.TOP ROLLER LENGTH CAN BE FED THROUGH SMART FEEDING SYSTEM	150 mm
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MAX.GRINDING LENGTH	400 mm
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COTS
GRINDING
MACHINES

202-AFT
MAGAZINE TYPE
AUTOMATIC
FEEDING – TWIN
DIRECTIONS

This is the cots grinding machine with it's 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

WORKING PARAMETERS

GRINDING CAPACITY	19x32x29 mm	GRINDING SENSITIVITY SURFACE ROUGHNESS	0,02 Ra<1,2	MIN. GRINDING DIAMETER	24 mm	MAX. GRINDING DIAMETER	51 mm	MAX.TOP ROLLER LENGTH CAN BE FEED THROUGH MAGAZINE	150 mm	MAX. GRINDING LENGTH	400 mm
	800 – 1.200 top rollers/hour										

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 it's 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.



HMI Control Panel



Double Magazine Automatic Feeding System



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

VIEW AT BACK

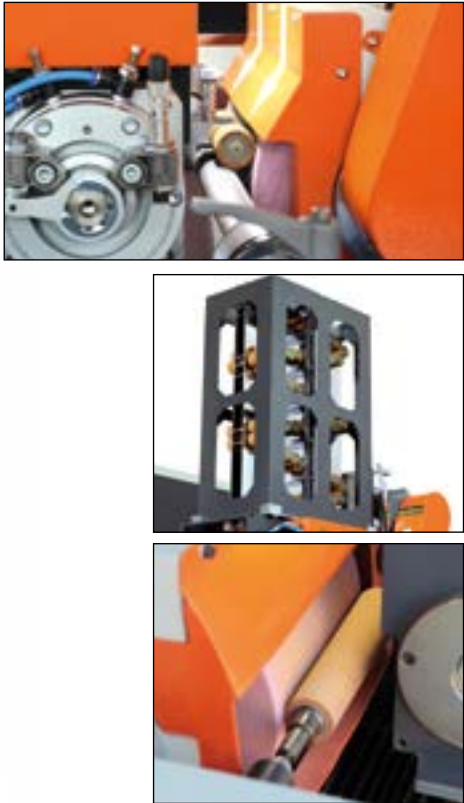


VIEW AT SIDE

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	<div>WORKING PARAMETERS</div> <div><div>GRINDING CAPACITY</div><div>19x32x29 mm 400 – 600 top rollers/hour</div></div> <div><div>GRINDING SENSITIVITY</div><div>SURFACE ROUGHNESS</div><div>0,02 Ra<1,2</div></div> <div><div>PROCESSING RANGE</div><div><div>MIN. GRINDING DIAMETER</div><div>24 mm</div></div><div><div>MAX. GRINDING DIAMETER</div><div>51 mm</div></div><div><div>MAX. GRINDING LENGTH</div><div>400 mm</div></div></div>				the same machine without any complicated, time consuming conversions needed.	
Lenght	850 mm						
Width	1.370 mm						
Weight	740 kg						

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.

COTS GRINDING MACHINES

201-MTL MANUAL – TEXTURIZING-DIAMETER MEASUREMENT BY LASER

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.



Height	1.400 mm	<div>WORKING PARAMETERS</div> <div><div><div>GRINDING CAPACITY</div><div>45x65x34 mm 250 top rollers/hour</div></div><div><div>GRINDING SENSITIVITY</div><div>0.02</div></div><div><div>SURFACE ROUGHNESS</div><div>Ra<1,2</div></div></div> <div><div>PROCESSING RANGE</div><div><div><div>MIN. GRINDING DIAMETER</div><div>24 mm</div></div><div><div>MAX. GRINDING DIAMETER</div><div>100 mm</div></div><div><div>MAX. GRINDING LENGTH</div><div>450 mm</div></div></div></div>			
Lenght	850 mm				
Width	1.370 mm				
Weight	720 kg				

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.Ad-

ditionally, 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 buton. 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.

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.

UV-302 COTS SURFACE TREATMENT by UV AUXILIARIES AT ROLL SHOP



Height	1.400 mm	WORKING PARAMETERS				PROCESSING RANGE								
Lenght	850 mm													
Width	1.370 mm	GRINDING CAPACITY	19x32x29 mm	19x51x32 mm	GRINDING SENSITIVITY	0.02	MIN. GRINDING DIAMETER	24 mm	MAX. GRINDING DIAMETER	100 mm	MAX. GRINDING LENGTH	450 mm		
Weight	720 kg		200 top rollers/hour	200 top rollers/hour									SURFACE ROUGHNESS	Ra<1.2

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



Higher higher productivity in the process by higher capacity feeding shelf



User friendly by its touchmatic control panel



Height	1.350 mm
Lenght	700 mm
Width	1.000 mm
Weight	150 kg

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;**

Decrease in the tendency of lapping.

Higher efficiency in start-up after grinding by more efficient piecing and thus saving in labour.

■ **Superior running performance and better efficiency on super high delivery speed Air Jet Spinning systems after cots grinding process**

Contribution in to yarn quality and production cost.

AUXILIARIES AT ROLL SHOP

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



AUXILIARIES AT 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



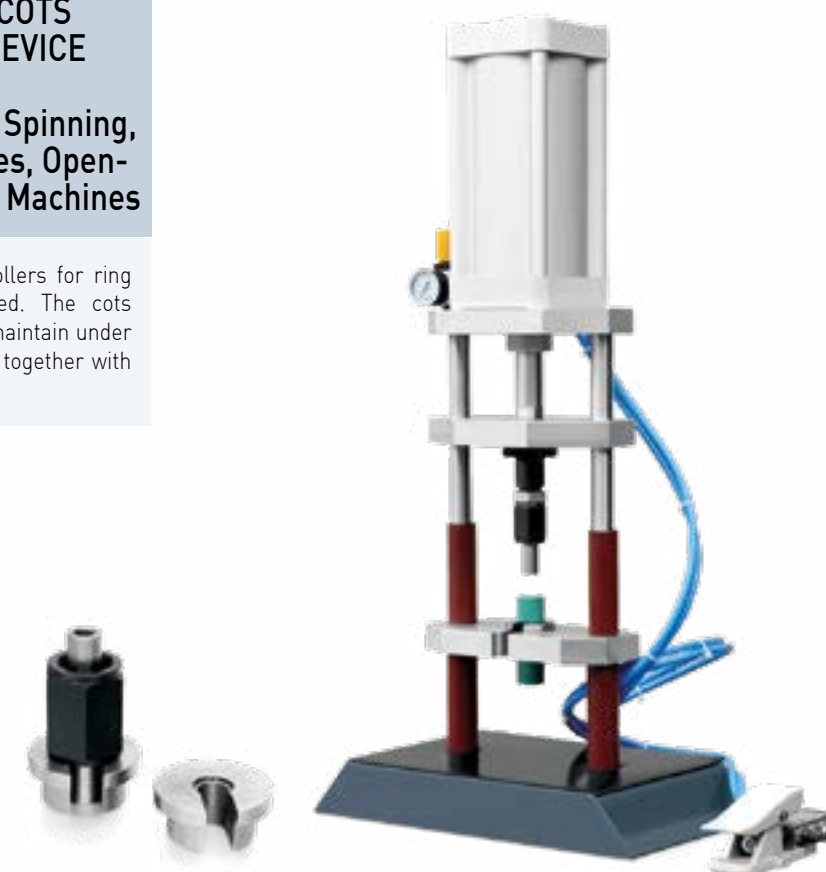
COTS MOUNTING DEVICES

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 COTS 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
Lenght	1.700 mm
Width	360 mm
Weight	215 kg



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

HYDRAULIC COTS MOUNTING DEVICE (VERTICAL DESIGN)

Cots for Long Stable Spinning and Texturizing Systems

COTS MOUNTING DEVICES

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
Lenght	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
Lenght	477 mm
Width	245 mm
Weight	40 kg

- Measures the surface roughness (Ra) on the cots following the grinding process.Confirmes 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.

COTS SURFACE ROUGHNESS (Ra) TESTING DEVICE

TOP ROLLER TESTING DEVICES

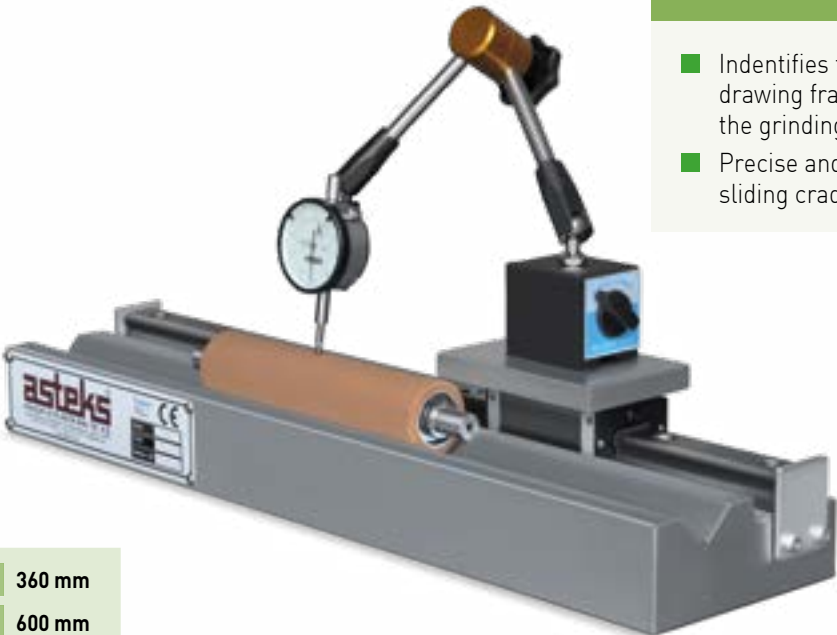


Height	280 mm
Lenght	120 mm
Width	160 mm
Weight	5 kg

TOP ROLLER TESTING DEVICES

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
Lenght	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 it's 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
Lenght	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.

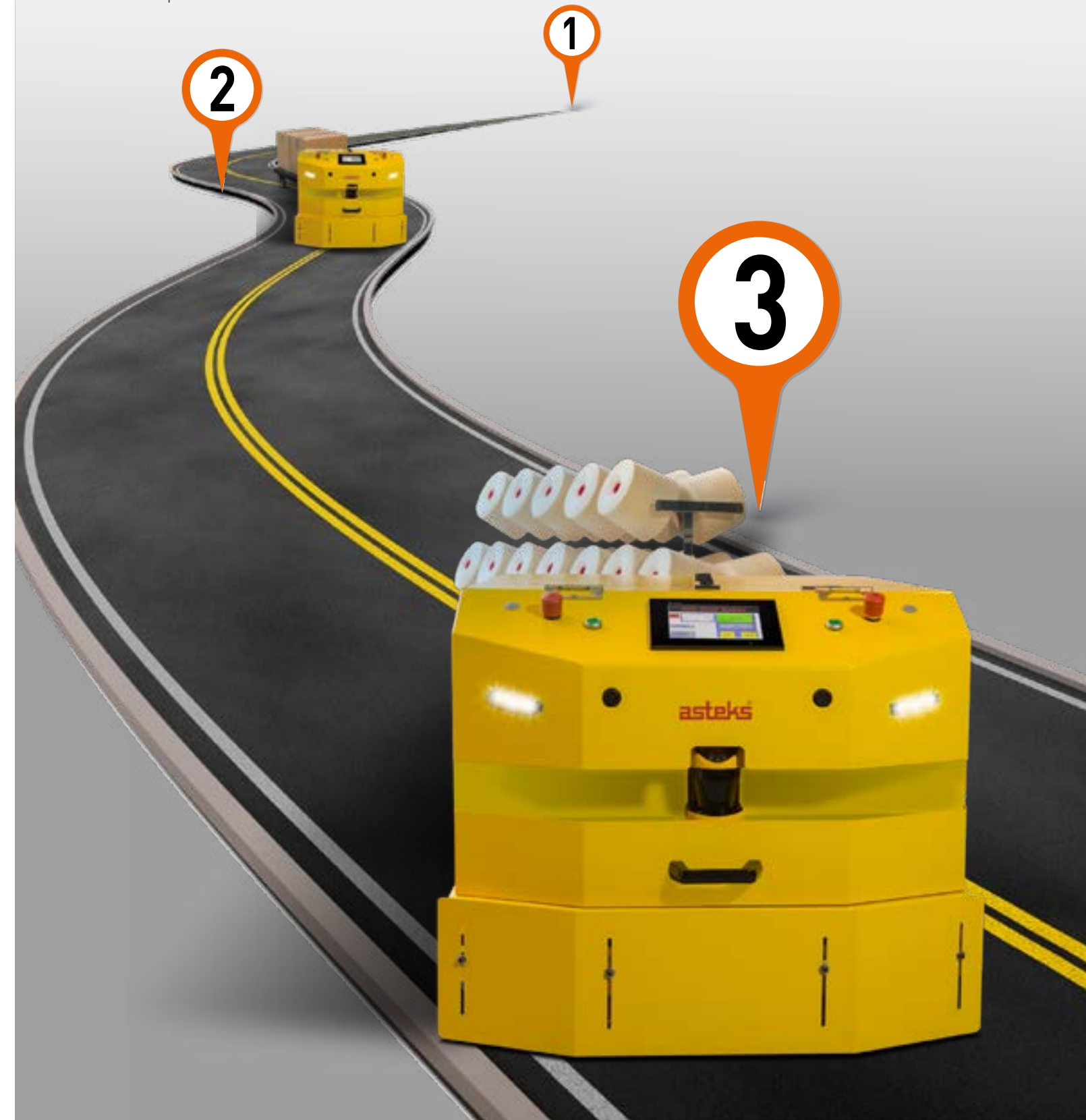
ADVANTGES OFFERED BY 101-AGV

- 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.



BY OUR ROLL SHOP MACHINERIES,
WE OFFER YOU THE LATEST TECHNOLOGY ALONG WITH

**asteks®'S QUALITY
AND RELIABILITY...**



asteks®

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