



**YENAR**

Technology You Have Deserved...



[www.yenar.com.tr](http://www.yenar.com.tr)





We have been maintaining our experience of more than 30 years in the sector in our modern production plant established on total **40.000 m<sup>2</sup>** area, of which 23.000 m<sup>2</sup> is covered.

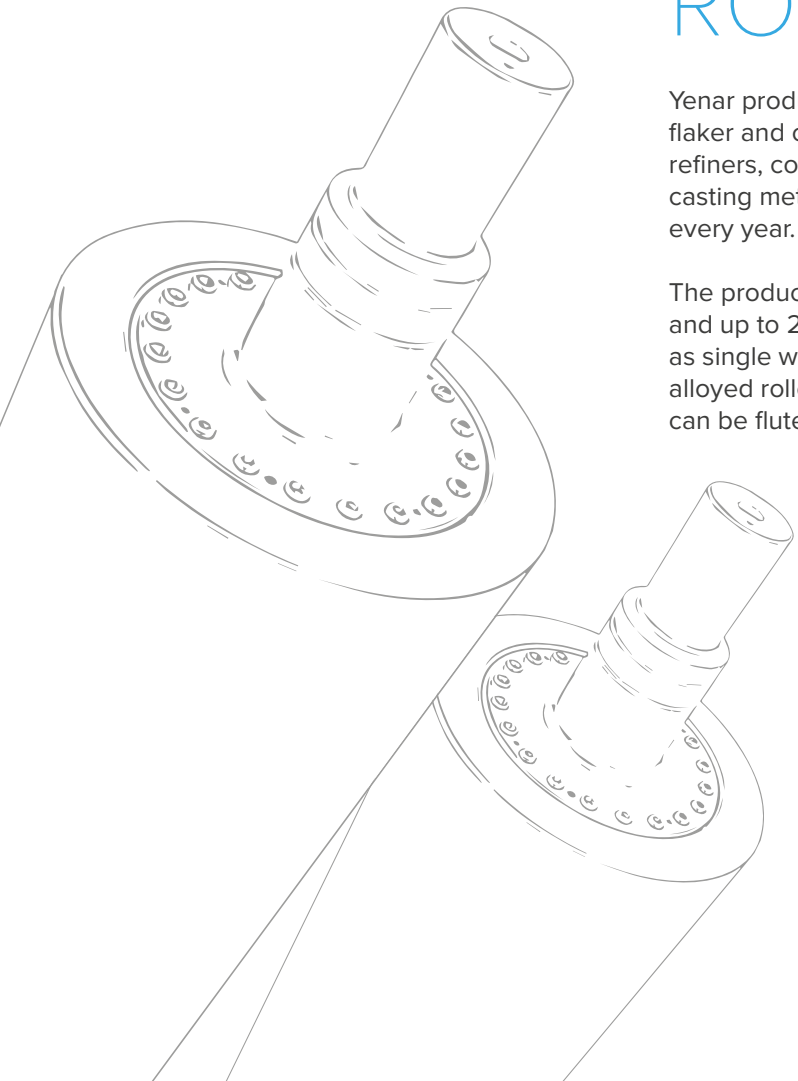






**Yenar provides rolls and all equipments related to rolls refurbishment.**






- ▶ Chilled cast iron rolls
- ▶ Combined roll fluting and grinding machine
- ▶ Roll fluting machine
- ▶ Roll grinding machine
- ▶ Roll sandblasting machine
- ▶ Tool sharpening machine
- ▶ RollCare profile measurement device
- ▶ FlakeCare flaker roll turning and grinding machine
- ▶ All kind of spare parts for roll workshops







# ROLLS

Yenar produces 22.000 unit wheat, maize, barley and grain milling rolls, flaker and cracker rolls for oil milling, feed milling roll and rolls for chocolate refiners, coffee and biscuit industries by means of double pour centrifugal casting method and exporting more than 85 countries all over the world every year.

The production range is from 150 mm (6”) up to 820 mm (32”) in diameter and up to 2.200 mm (86”) in roll body length. Our biggest centrifugal cast as single weight is 10.000 kg. The journals (shafts) are machined from alloyed rolled steel bars and can be shrink fit into or bolted types. The rolls can be fluted, smooth or ready for fluting.

					
	FLOUR / MAIZE MILLING	ANIMAL FEED MILLING	EDIBLE OIL SEED MILLING	CHOCOLATE REFINER	COFFEE MILLING
APPLICATION	YS 53 : 480-530 HB YS 55 : 500-550 HB YS 58 : 530-580 HB YS 38 : 320-380 HB YS 39 : 360-440 HB YS 45 : 430-480 HB	YS 53 : 480-530 HB YS 55 : 500-550 HB YS 58 : 530-580 HB	YS 55 : 500-550 HB YS 58 : 530-580 HB YS 60 : 470-520 HB YS 78 : 450-500 HB YS 80 : 510-580 HB	YS 70 : 480-520 HB YS 72 : 500-560 HB	YS 55 : 500-550 HB YS INOX 50 : 450-500 HB YS INOX 53 : 480-530 HB YS INOX 55 : 500-550 HB
Diameter	150-350 mm	150-400 mm	150-820 mm	300-420 mm	150-310 mm
Body Length Range	up to 2200 mm				
Hard Layer	10 to 50 mm				

				
	BISCUIT/DOUGH LAMINATOR	MALT / BREWERY ROLL	SALT	PAINT / INK ROLL
APPLICATION	YS 72 : 500-560 HB YS INOX 50 : 450-500 HB YS INOX 53 : 480-530 HB YS INOX 55 : 500-550 HB	YS 72 : 500-560 HB YS INOX 50 : 450-500 HB YS INOX 53 : 480-530 HB YS INOX 55 : 500-550 HB	YS INOX 50 : 450-500 HB YS INOX 53 : 480-530 HB YS INOX 55 : 500-550 HB	YS 55 : 500-550 HB YS 58 : 530-580 HB
Diameter	150-400 mm	150-400 mm	150-400 mm	300-400 mm
Body Length Range	up to 2200 mm			
Hard Layer	10 to 50 mm			

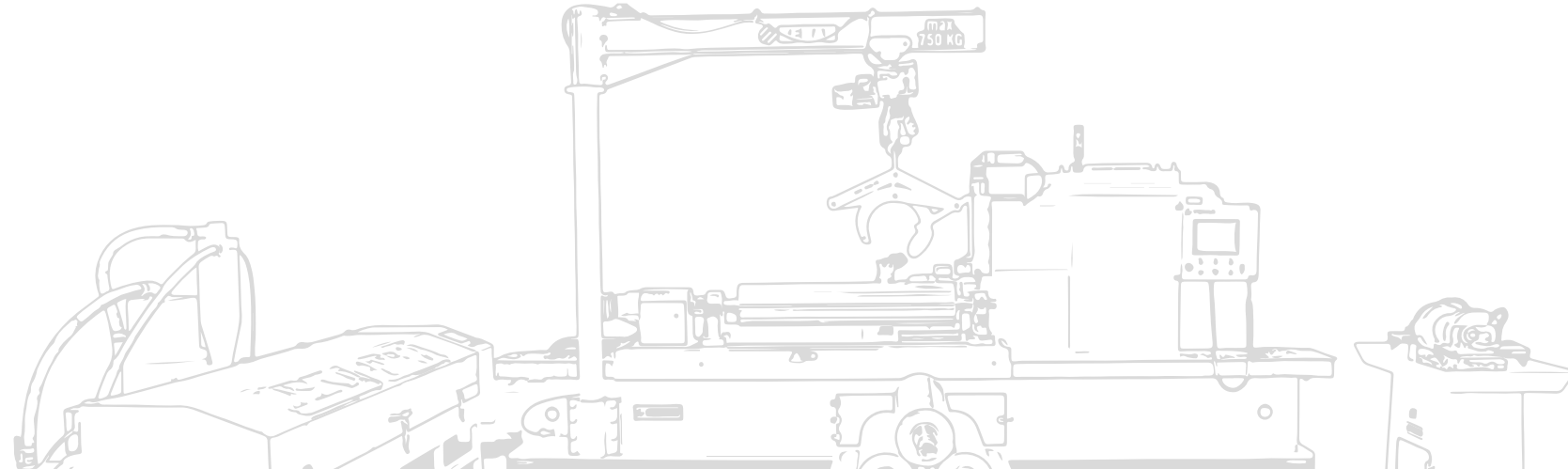
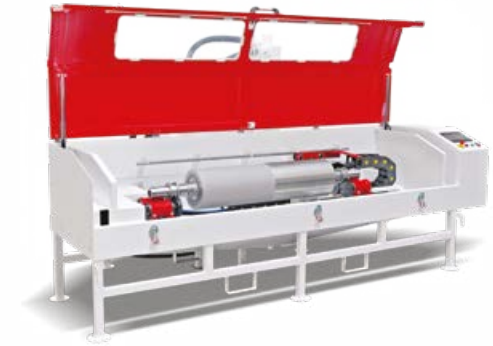


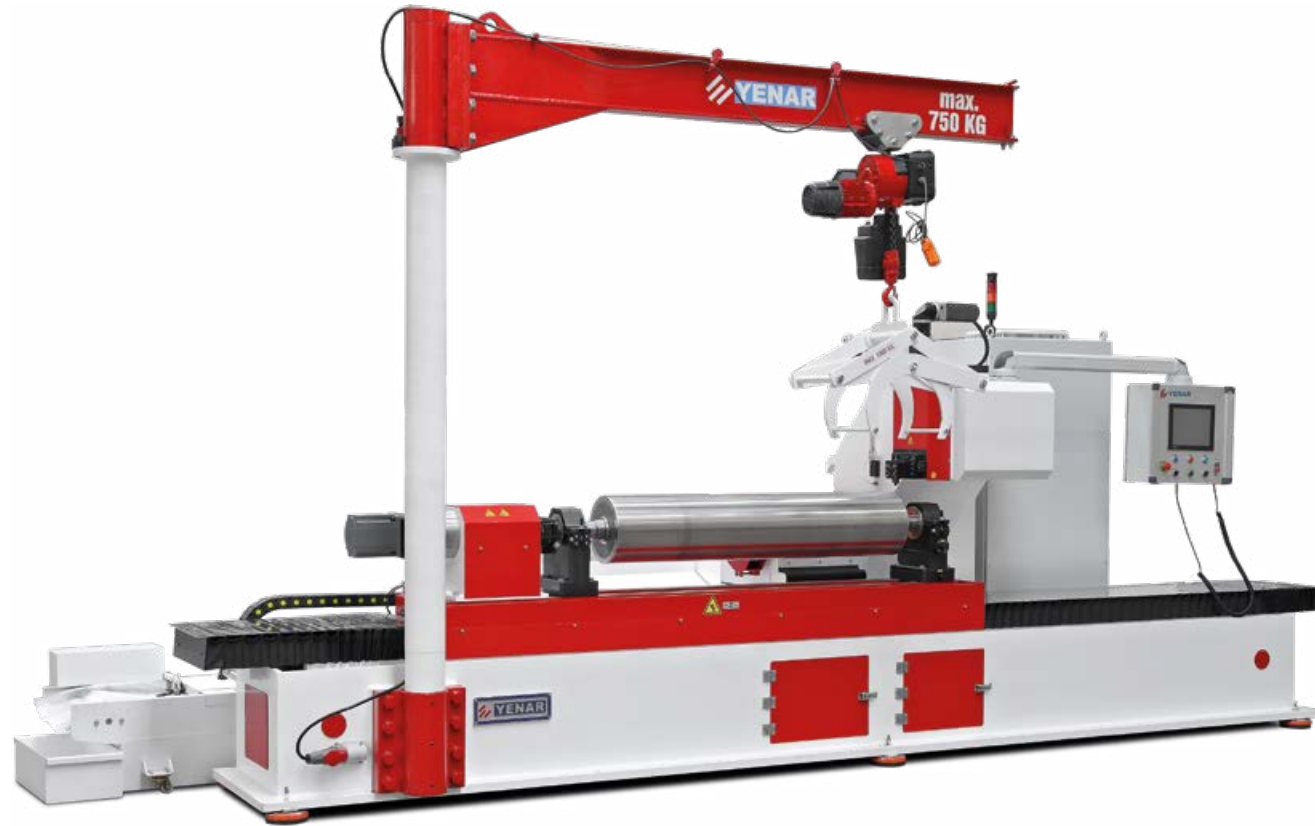




# FLUTING AND GRINDING MACHINE

Because of the market didn't meet the requirement of our company, Yenar decided to produce its own machines thanks to 30 years of experience and expertise about roll manufacturing. As the machine built by a roll producer and had many more advantages and very user friendly got a very big success in the sector. Yenar produces 3 different sizes of these machine.





YF : Yenar Fluting Machine

YFG : Yenar Combined Fluting and Grinding Machine

Crane is optional.

#### ▶ APPLICATION SIZES

##### **Roll Diameter**

150-380 mm (6" - 15")

##### **Roll Body Length**

Up to 1.500 mm (60")

#### ▶ APPLICATION FIELD

- Flour Milling Rolls
- Maize Milling Rolls
- Coffee Grinding Rolls

#### ▶ GRINDING SHAPES

- Cylindrical Shape



- Chamfer Shape



- Camber Shape



#### ▶ DESCRIPTION

The YF 35150 model is mainly designed for corrugating shops that make separately grinding and fluting operation. Users can only re-flute their own rolls with this machine. Concerning to model of YFG 35150 machine is mainly designed for millers they can firstly grind (Chamfer, Cylindrical and Camber) and re-flute their own rolls in the mills.

#### ▶ WORKING PRINCIPLE

On fluting operation, the most important thing is that the depth of the flute which is automatically calculated by the machine according to flow sheet that you have to input into the touch panel. So you cannot make any mistake while fluting the rolls. Once the grinding cycle is designed as simple as possible to avoid any skills and it is also very simple as fluting cycle just the millers need to enter total cut and choose one of the pre defined grinding shapes (Cylindrical, Camber or Chamfer).

#### ▶ FEATURES & ADVANTAGES

- 12" Touch Panel
- Cnc controlled
- User-friendly homemade software
- Local languages can be added on the machine
- Quick and easy replacement of tools and grinding stone
- Single or multi-point tools options
- Have option to run the machine by laptop
- Low operation and maintenance cost
- Automatic lubrication system
- Tool, table, stone and index motors are servo motor controlled
- Crane option
- Minimum consumption of spare parts
- Easy installation
- Integrated remote assistance control
- Helical fluting feature is available
- Local languages can be added on the machine (More than 10 languages are available)



YF : Yenar Fluting Machine

YFG : Yenar Combined Fluting and Grinding Machine

#### ▶ APPLICATION SIZES

##### **Roll Diameter**

200-480 mm (8"- 19")

##### **Roll Body Length**

Up to 2.100 mm (84")

#### ▶ APPLICATION FIELD

- Flour Milling Rolls
- Coffee Grinding Rolls
- Feed Milling Rolls
- Oil Seed Cracking Rolls
- Biscuit Cracking Rolls
- Barley and Malt Rolls for Breweries

#### ▶ GRINDING SHAPES

- Cylindrical Shape



- Chamfer Shape



- Camber Shape

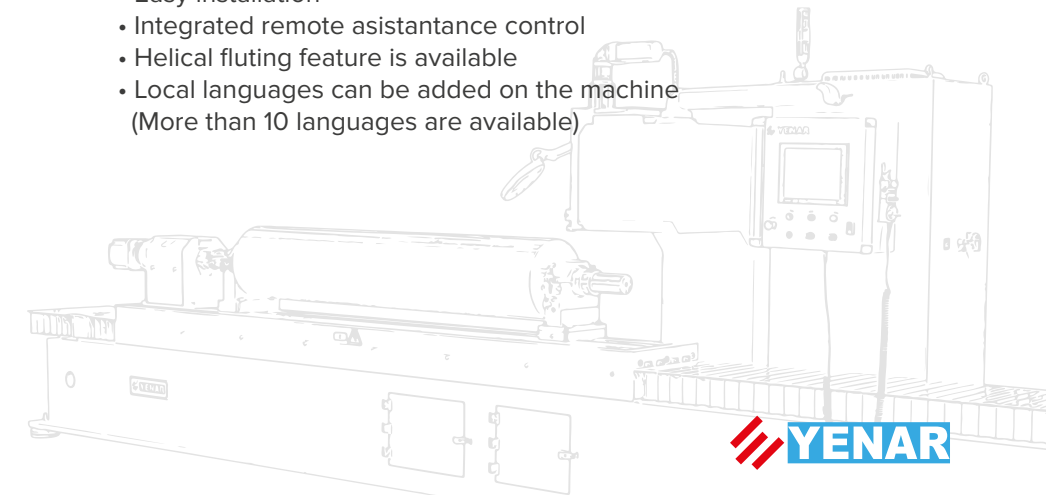


#### ▶ DESCRIPTION

The YF / YFG 45210 models are generally designed for roll have body length up to 2.100 mm. These rolls are much more longer than the flour milling rolls so it is very difficult to flute these type rolls but YENAR gives guarantee that you can re-flute and grind these types of rolls in a very short time and high accuracy.

#### ▶ FEATURES & ADVANTAGES

- 12" Touch Panel
- Cnc controlled
- User-friendly homemade software
- Local languages can be added on the machine
- Quick and easy replacement of tools and grinding stone
- Single or multi-point tools options
- Have option to run the machine by laptop
- Low operation and maintenance cost
- Automatic lubrication system
- Tool, table, stone and index motors are servo motor controlled
- Minumum consumption of spare parts
- Easy installation
- Integrated remote asistantance control
- Helical fluting feature is available
- Local languages can be added on the machine (More than 10 languages are available)







YF : Yenar Fluting Machine  
YFG : Yenar Combined Fluting and Grinding Machine

#### ▶ APPLICATION SIZES

**Roll Diameter**  
200-670 mm (8"- 26")

**Roll Body Length**  
Up to 2.100 mm (84")

#### ▶ APPLICATION FIELD

- Flour Milling Rolls
- Coffee Grinding Rolls
- Feed Milling Rolls
- Oil Seed Cracking Rolls
- Biscuit Cracking Rolls
- Oil Milling Rolls
- Barley and Malt Rolls for Breweries

#### ▶ GRINDING SHAPES

- Cylindrical Shape



- Chamfer Shape



- Camber Shape

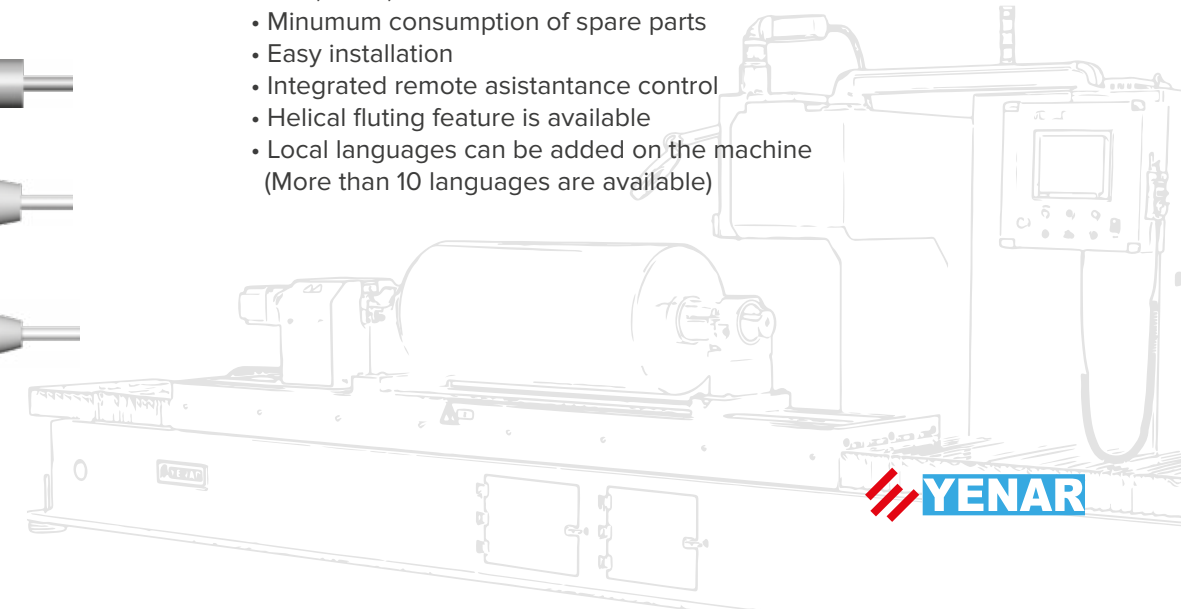


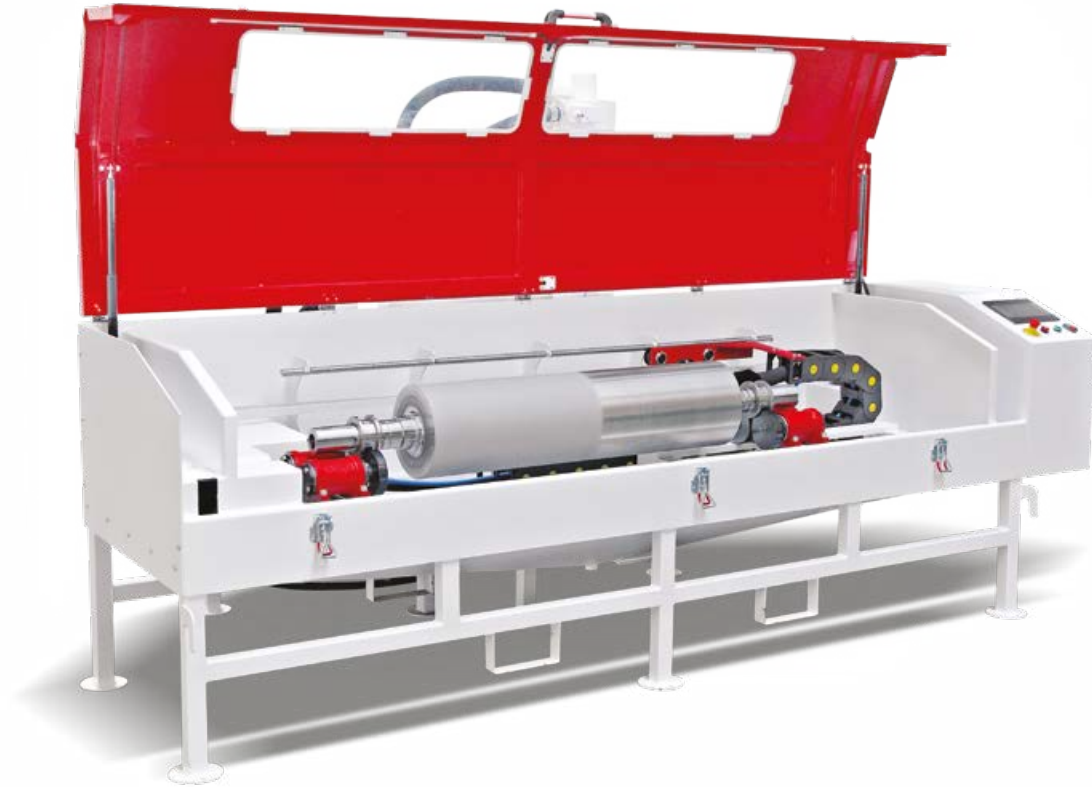
#### ▶ DESCRIPTION

Yenar is also offering the biggest sizes YF / YFG 60210 Fluting and Grinding machine that is able to flute and grind for flaking rolls that is around the 600 mm on diameter rolls. With this model users can flute up to 670 mm on diameter and 2.100 mm on roll body length.

#### ▶ FEATURES & ADVANTAGES

- 12" Touch Panel
- Cnc controlled
- User-friendly homemade software
- Local languages can be added on the machine
- Quick and easy replacement of tools and grinding stone
- Single or multi-point tools options
- Have option to run the machine by laptop
- Low operation and maintenance cost
- Automatic lubrication system
- Tool, table, stone and index motors are servo motor controlled
- Minumum consumption of spare parts
- Easy installation
- Integrated remote asistance control
- Helical fluting feature is available
- Local languages can be added on the machine (More than 10 languages are available)





#### ▶ APPLICATION SIZES

##### **YTK 40150**

###### **Roll Diameter**

150-400 mm (6" - 16")

###### **Roll Body Length**

Up to 1.500 mm (60")

##### **YTK 80210**

###### **Roll Diameter**

600-820 mm (24" - 32")

###### **Roll Body Length**

Up to 2.100 mm (84")

The special size machines are also produced according to customer requirements.

#### ▶ APPLICATION FIELD

- Flour Milling Rolls
- Maize Milling Rolls
- Coffee Grinding Rolls
- Oil Milling Rolls

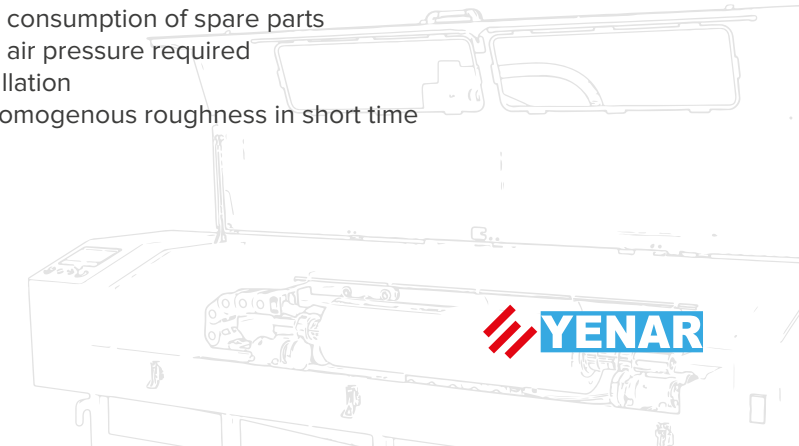


#### ▶ DESCRIPTION

This machine is designed to sandblast and achieve the requested Ra (Roughness Average) to your smooth rolls in flour milling rolls and flaker rolls. The machine has a sand recycling system and vacuum suction with a filter for a dust-free environment. The blower system is used in Yenar Sand Blasting Machine to minimize the negative effects of human health. A large part of the abrasive material sprayed by the nozzle transmits to the back-sand tank by vacuuming. In this way, the dust and the abrasive material accumulate in a closed tank without too much mixing into the air. Thanks to this system, the operator's health would have stayed away from the abrasive materials that negatively affect and also the abrasive material is recycled by the blower method. The abrasive material creates homogeneous roughness on the surface of the smooth rolls with the PLC system. The desired rotational speed of the rolls and the desired linear speed of the nozzle make the different surface roughness.

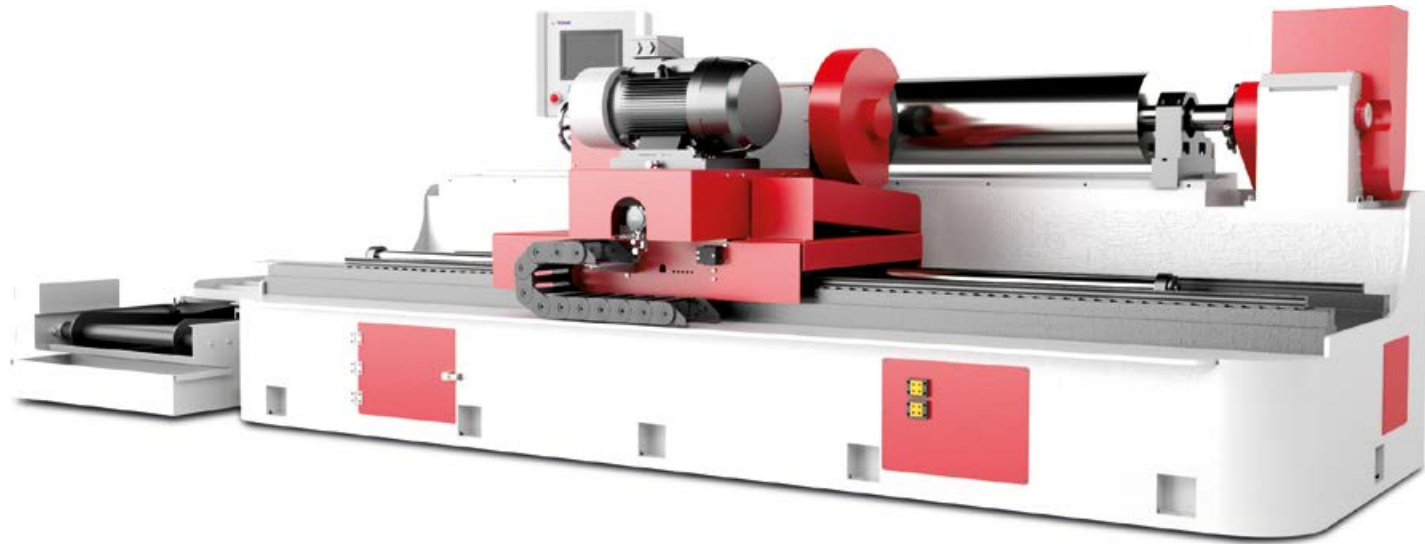
#### ▶ FEATURES & ADVANTAGES

- PLC Controlled
- User-friendly homemade software
- Quick and easy roll replacement
- Low operation and maintenance cost
- Minimum consumption of spare parts
- Minimum air pressure required
- Easy installation
- Creates homogeneous roughness in short time





## YCG | 60210 | Cylindrical Grinding Machine



### ► DESCRIPTION

The Yenar YCG Cylindrical Roll Grinding Machines are designed for stable, high-accuracy grinding of milling rolls used in food processing rolls and offer high accuracy in mass-production machining.

### ► APPLICATION SIZES

**YCG 60210**  
**Roll Diameter**  
154 - 670 mm

**Roll Body Length** Up  
to 2.100 mm (84")

### ► GRINDING SHAPES

- Cylindrical Shape



- Chamfer Shape



- Camber Shape



### ► FEATURES & ADVANTAGES

- Cnc controlled
- User-friendly homemade software
- Local languages can be added on the machine
- High Accuracy
- Adjustable wheel speed
- Quick and easy replacement of grinding stone
- Center work or optional chuck work operation
- Have option to run the machine by laptop
- Low operation and maintenance cost
- Automatic Lubrication system
- Servo motor controlled
- Minumum consumption of spare parts
- Easy installation
- Integrated remote asistance control

### ► APPLICATION FIELD

- Flour Milling Rolls
- Coffee Grinding Rolls
- Feed Milling Rolls
- Oil Seed Cracking Rolls
- Biscuit Cracking Rolls
- Oil Milling Rolls
- Barley and Malt Rolls for Breweries

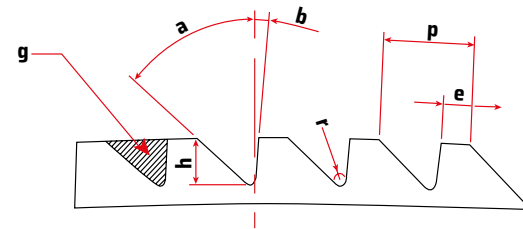


## DESCRIPTION

The rollCare Profile Measurement Device is the unique device designed using high resolution laser technology in the world that able to check roll profiles (angles, depth, land, radius and pitch) of roller mills while fluting and on the roller mills. So with rollCare, users can easily determine the optimal time required to re-flute their rolls.

## ROLLCARE MEASURES

a - Sharp Angle  
b - Dull Angle  
e - Land  
r - Radius  
h - Depth  
g - Grinding Surface Area  
p - Pitch



## WORKING PRINCIPLE

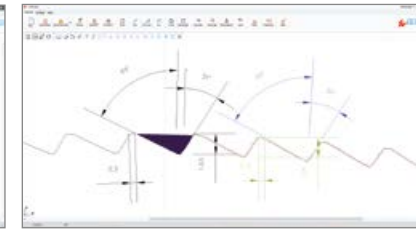
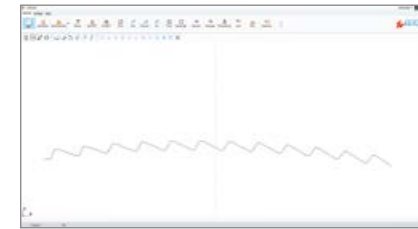
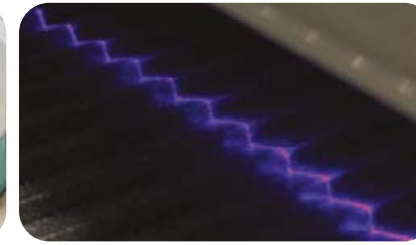
RollCare sticks on the roll with magnets. Device transfers via wireless the roll profile to the computer. Specially designed software allows you to measure easily all the parameters. After Measurement, this device allowing the user to compare by overlapping automatically the measured roll profile with the theoretical one and gives you the deviations.

## FEATURES & ADVANTAGES

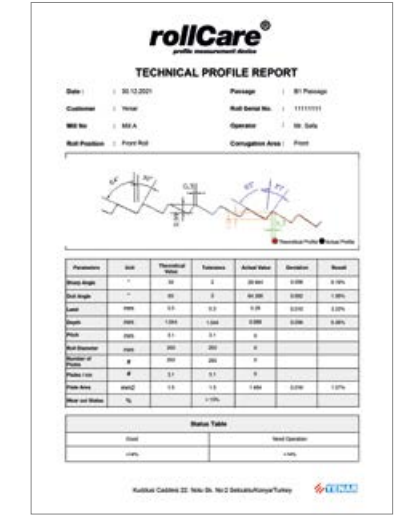
- User-friendly homemade software
- Thanks to Laser technology high resolution and accuracy data
- Portable
- No limit for diameters of rolls
- Verify all types corrugation style
- Wireless connection
- Battery adaptor
- Print out PDF report
- Decreasing energy consumption
- Increasing product quality
- Increasing throughput capacity

## APPLICATION FIELD

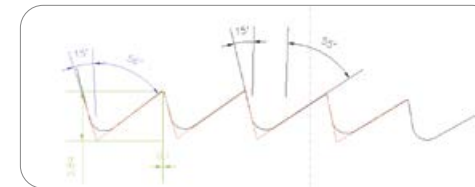
- On the roller mills
- On the fluting machine
- On the received rolls
- To check the tool profiles angles



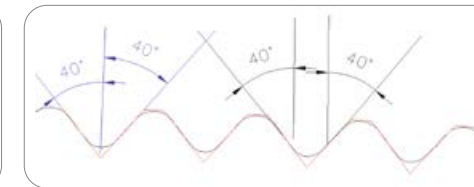
## TECHNICAL PROFILE REPORT



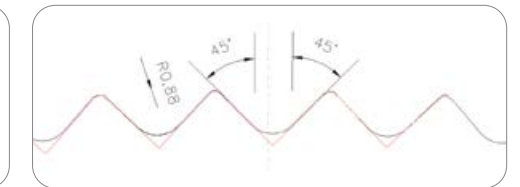
## ST 14" Diameter 4 Corr./Inch



## STV 18" Diameter 14 Corr./Inch



## RBV 12" Diameter 4.5 Corr./Inch



## WEAR OUT PROFILES



**%100** Correct New Corrugated Profile according to flow sheet



**%20** Wear Out of profile (used roll)



**%40** Wear Out of profile (used roll)

• Theoretical Profile (Should be) • Actual Profile (Real)





#### DESCRIPTION

Yenar's flaker roll turning unit "flakeCare", allows you to refurbish the flaking roll surface in your flaking mill on site without removing the rolls. It is a robust and easy to install CNC mobile machine designed to keep the rollers of your flaking machine in perfect condition every time. Regular maintenance of the surface of flaking rolls is a necessary preventive action to extend the life of the rolls.

#### APPLICATION SIZES

**Roll Diameter**  
600 - 812 mm (24" - 32")

**Roll Body Length**  
Up to 2.200 mm (86")

#### APPLICATION FIELD

Available for any brands of flaker machines.

#### WORKING PRINCIPLE

FlakeCare turning the surfaces which allows you to finish the operation faster and in a shorter time compared to other similar machines in the markets. Only need to fix it to your flaking mill and operate it according to your roll condition.

#### FEATURES & ADVANTAGES

- User-friendly homemade software
- Automatically chamfer mode for both ends diameters
- Local languages can be added on the machine
- High Accuracy
- Reducing refurbishing time by 60-80%
- Quick and easy replacement of tool
- Lower total operating cost
- Increase flaking mill efficiency and extraction rate
- Low operation and maintenance cost
- Servo motor controlled
- Minimum consumption of spare parts
- Easy installation
- Integrated remote assistance control

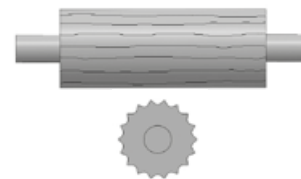
#### WIRE EFFECT



Rolls can be shown as in photo due the below reasons.

- If the load in the center too high a wire effect makes the roll breaks in the center.
- Due feeder misaligned or bad knives cleaning

#### POLYGON EFFECT



Polygon shape generated along the axis of the roll. This scatter marks are typical for all rolls with differential speed.

#### BREAKING ENDING



Surface and two ends of the flaker rolls not only wearing out regularly also sometimes cracking because rolls are touching each other and chips of the material are split out.

#### NORMAL WEARING ROLLS



This figure never happens in reality.

#### CONICAL WEAR



Sometimes due to wrong feeding or different hydraulically pressure can cause the conical wear on the rolls.

#### CHAMFER



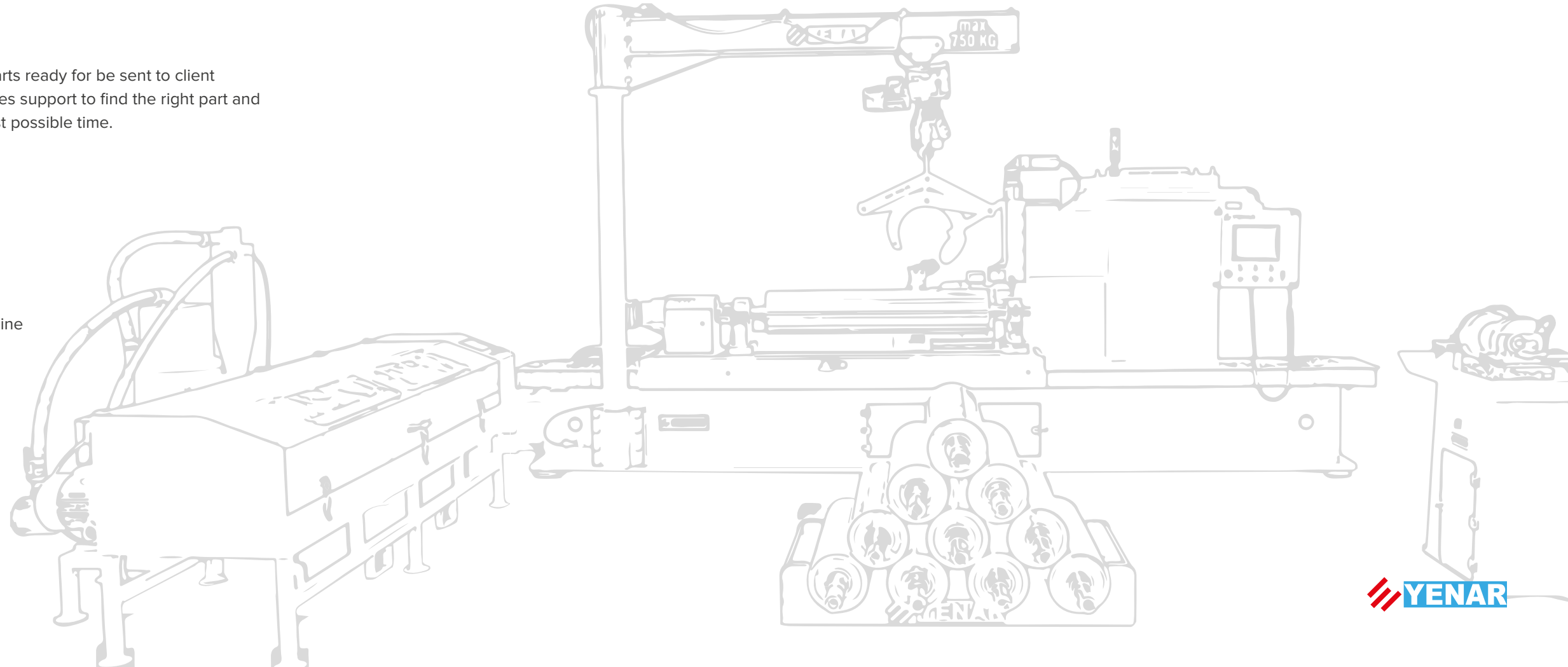
Making Chamfer is available.



## SPARE PARTS

We have a wide stock of original spare parts ready for be sent to client immediately. Our technical service provides support to find the right part and proceeds to send the items in the shortest possible time.

- Carbide
- Ceramic Carbide
- Carbide Holder
- Grinding Stone
- Stone Sharpening Dresser
- Filter Paper for Grinding Water Tank
- Nozzle for Sandblasting Machine
- Aluminium Oxide for Sandblasting Machine
- Multi Point Carbides
- Roll Handling Apparatus







Konya Organize Sanayi Bölgesi  
Kuddusi Cad. 22. Sokak No:2 42300  
Selçuklu / KONYA / TURKEY  
Tel: +90 332 239 10 73 (pbx)  
Fax: +90 332 239 07 55  
[info@yenar.com.tr](mailto:info@yenar.com.tr)

[www.yenar.com.tr](http://www.yenar.com.tr)



/YenarMachine

