

**WEREMCZUK**  
AGROMACHINES

**PRODUCER**

FRUITS & VEGETABLES  
HARVEST, CARE & GROW TECHNIQUE

# FELIX/Z KWZ 280 KWZ 315

Full-row trailed harvesters for sour cherries, prunes, olives, almonds, industrial apples and other stone fruit. Machines are designed to work in orchards with espalier structure, where trees are formed properly. Recommended for large orchards area.

## Efficient & easy to use

- Solid and durable construction
- Comfortable control system
- Fast and efficient harvest
- Hydraulic drives of working units
- Smooth regulation of working parameters
- Effective cleaning system
- Excellent quality of harvested fruits



# **WIDELY USED** in fruit harvesting



# Fruit harvested **DIRECTLY FROM TREES**



prunes



cherries



apples

Perfect for **JUICES AND CONCENTRATES**

## Principle of **HARVESTER'S WORK**

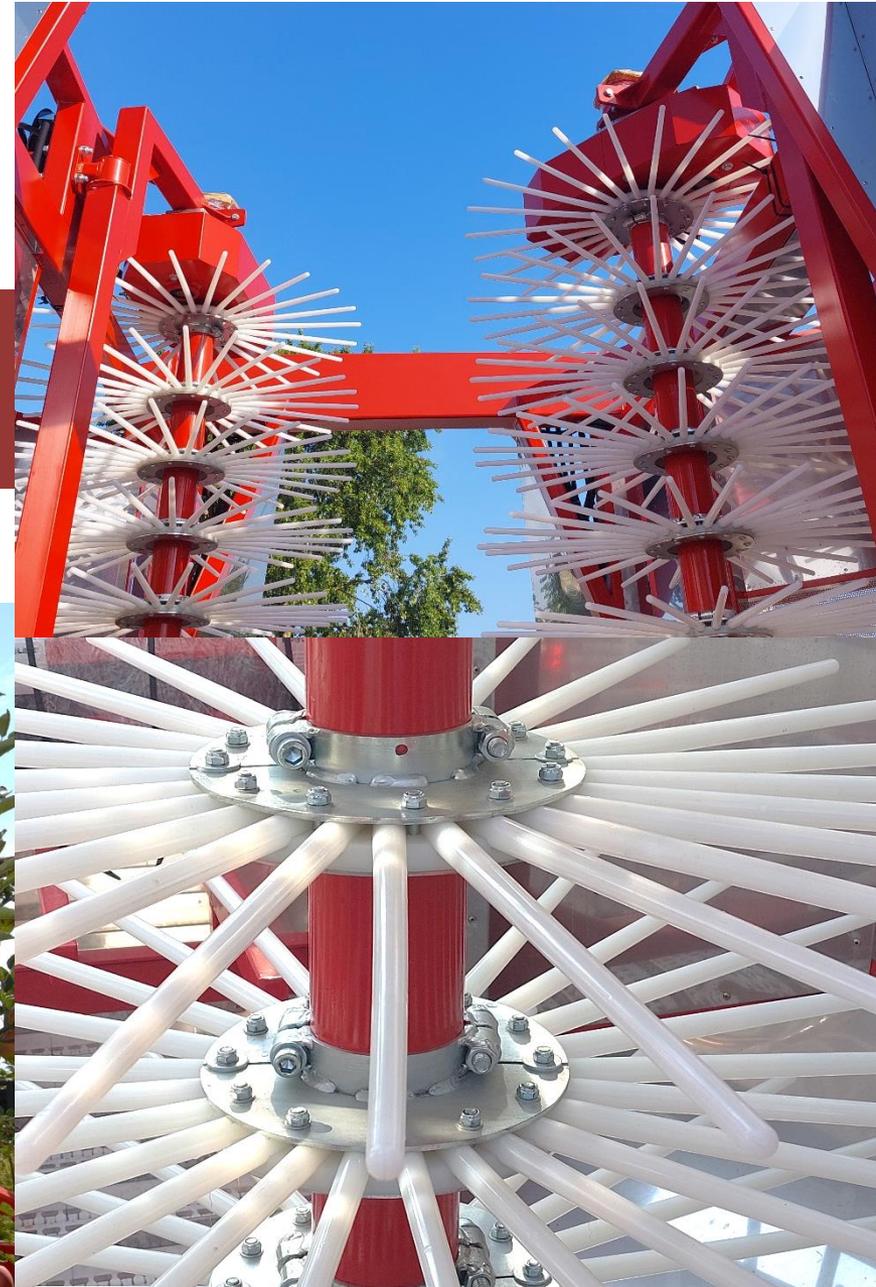
The technology of collecting fruits is based on a vertical shakers harvesting system. The fruits are falling on the conveyor and are being transported through the cleaning unit, where they are being thoroughly cleaned off impurities including leaves and little sticks. The effective sealing system eliminates fruit losses. Depending on the fruit's designation market and on the final customer's requirements, fruits can be harvested into large 500 kg or small 10-20 kg boxes.



## EFFICIENT harvesting system

Precise optimization of shaking efficiency according to type of crop and plantation parameters.

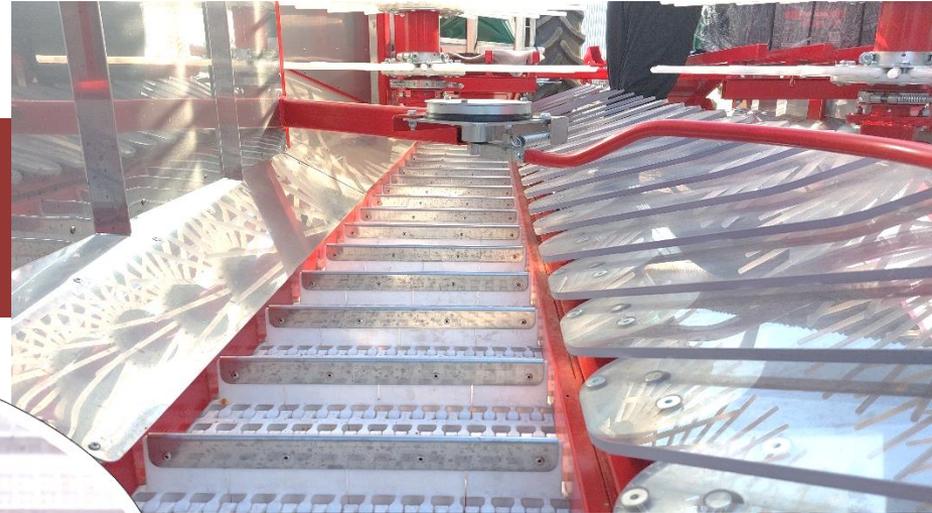
- Shaking unit with 2 vertical shakers
- Solid and adjustable shaking head
  - adjustment of rotation speed of the shaker unit
  - adjustment of the shaking power
- Durable shaking elements (fingers)



## EFFICIENT harvesting system

Accurate sealing and safety conveying of harvested fruit.

- Set of conveyors (2 long and 2 vertical) with extra additional strengthened
- Sealing unit with catchers minimizes efficiently fruits losses



## **EFFICIENT** harvesting system

Thoroughly clearing fruits from leaves or sticks and effective unloading to the boxes.

- Cleaning unit with a set of fans
- 2 discharge chutes



## EFFECTIVE HARVEST on different terrains

- Hydraulic lateral leveling of harvester
- **Harvester lifting** to total 50 cm for model KWZ 315 or to 20 cm for model KWZ 280
- **On-tree push system** – an optimal push of the shaker on a tree also for large longitudinal tilts of a field in a row.

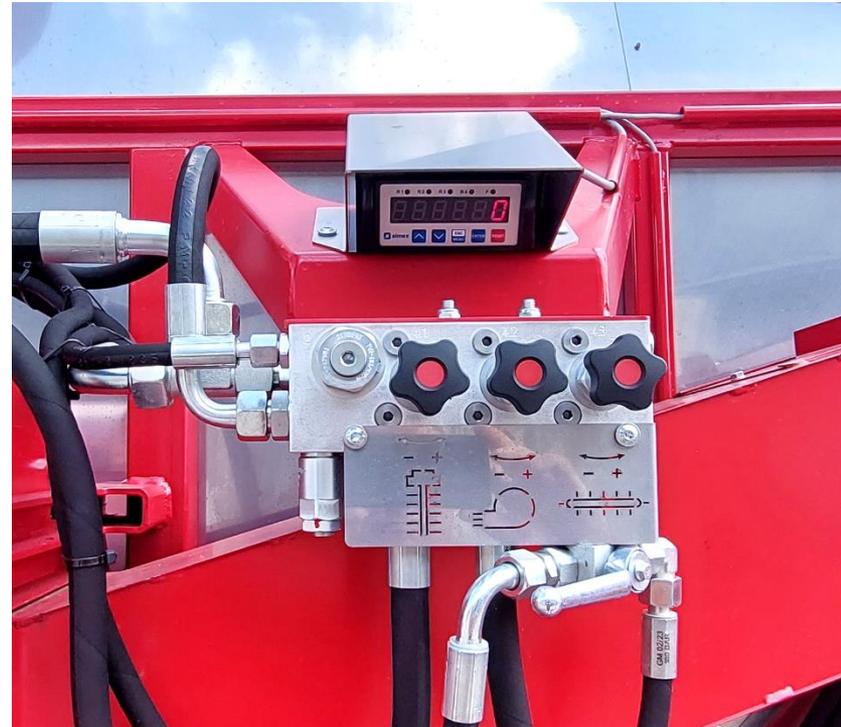


# HYDRAULIC DRIVES of working units

Harvester's working units are hydraulically driven. This solution ensures efficient work as well as smooth adjustment of operating parameters.

## Basic adjustment mechanisms:

- Harvester position behind a tractor
- Speed of shaker unit
- Shaking power
- Optimal push of the shaker on a tree
- Speed of conveyor belts
- Power of cleaning unit (adjustment of the revolutions of the fan motors)
- Working parameters of the hydraulic driving assemblies (supply pressure in the hydraulic system, pump capacity, revolutions of hydraulic motors)



## Comfortable **STEERAGE** of driving mechanisms

Steerage of basic driving mechanisms is possible directly from the tractor cabin by using a **joystick**.

- **Hydraulically driven drawbar** allows to adjust optimal position of the harvester behind the tractor



- **Turning wheels** supporting the harvester's maneuvering, additionally equipped with the function of **hydraulic lifting of the harvester** on the wheel columns



- **System of automatic adjustment of the harvester's position in a row**, using the functions: hydraulically driven drawbar and turning wheels



# COMFORTABLE unloading of large boxes

or storing small boxes on **WORKING PLATFORM**



Version with platform and rollers

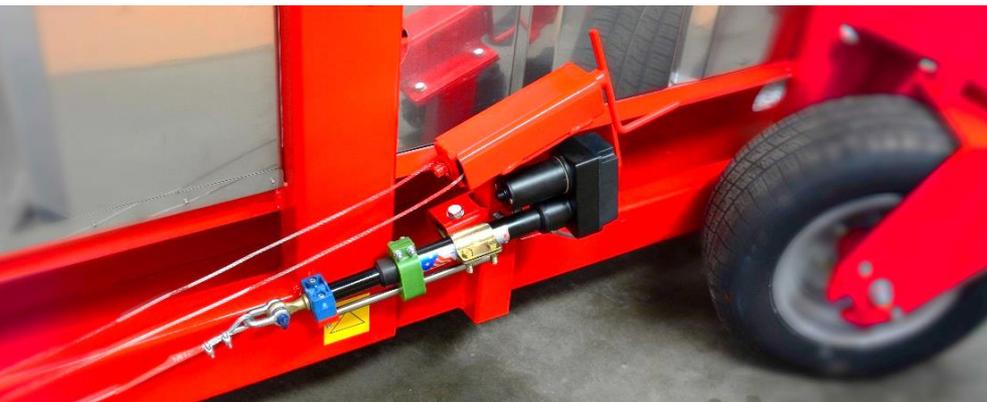
- Possibility to choose the way of collecting fruit:
  - large boxes (500 kg)
  - small boxes (10 – 20 kg)
- Fast and convenient unloading
- Capacious working platforms



Version with hydraulic forks

## SAFETY of use

- **Solid construction** – using only the highest quality components; the frame is made of steel profiles with a large diagonal; many units are made of stainless steel, which guarantees their durability
- **Trouble-free operation of machines** for many years in various working conditions



- **Harvester's braking system connected to the tractor braking system: hydraulic or pneumatic** (to choose by Customer)
- **Parking brakes** (separate left and right parking brakes operated manually on harvester)
- **Sealing and safeguards system**

## Available **ADDITIONAL EQUIPEMENTS**

- **Two braking systems on the machine** (hydraulic and pneumatic)



- **Touch display with visualization function of tilting and straightening wheels**



- **Joystick controlled independent braking the harvester during work, separately for the left and right side, visualize the braking force of each wheel on touch display** (available only with option "Touch display with visualization function of tilting and straightening wheels ")

- **Automatic transverse leveling of the combine** (available only with option "Touch display with visualization function of tilting and straightening wheels ")

## Available **ADDITIONAL EQUIPEMENTS**

- **Work platform roofs (2 pcs.)** - only for FELIX/Z 315



- **160 liter water tanks ( 2 pc.), hose dosing with ball valve** only for FELIX/Z 315



- **LED light (50 W) mounted on the non-adjustable support**



## Safe for **SMALL TREES**

- Delicate to young trees
- No negative impact on new fruit



# Orchard **OPTIMAL PARAMETERS**

- **Distance between rows:** min. 4 m
- **Distance between trees in a row:** min. 1,5 m
- **Tree trunk height** measured from the first branches: min. 0,7 m
- **Max. trees height:**
  - 3,5 m for model **KWZ 280**
  - 3,85 m for model **KWZ 315**
- Recommended **tree crown width:** 1,5 m
- **Trees** should be grown with an **upright trunk** and **elastic side branches** bearing fruit. Branches older than 4-5 years should be pruned



**If parameters of your orchard are different, please contact us.  
We will help you choose a suitable solution!**



- **Turning area width:** min. 6 m
- Possible **longitudinal slope** (elevation) of the plantation to 12%
- **Maximum longitudinal slope (elevation) of the plantation:** 14% when working with a tractor with a drawbar pull up min. 17 kN, 100 HP engine power (possible only on dry and compact soils without weeds)
- Possible **crosswise slope** of the plantation to 14% for model **KWZ 315** and option „Automatic transverse leveling of the combine”
- **Plantation without weeds**

# **CORRECTLY PRUNED ORCHARD**

for mechanical harvesting



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## Road **TRANSPORT**



- **Low loader transport** (sometimes it's needed to demount wheels)
- Loading by **tractor or crane**
- **Perfectly protected** all specially important modules of the machine for transport
- **Transport width:** 3015 mm for KWZ 315  
3010 mm for KWZ 280
- **Transport height:** 3690 mm for KWZ 315  
3290 mm for KWZ 280



We arrange all shipping formalities

## Main TECHNICAL DATA

Parameters	Value	Description	Comments
Number of harvested rows	pcs	1	
Number of shakers	pcs	2	
Shaking tunnel clearance	m	3,15 for KWZ 315 2,80 for KWZ 280	
Harvester lifting	cm	50 for KWZ 315 20 for KWZ 280	
Harvest efficiency	ha/h	0,2 ÷ 0,4	
Accuracy of harvest	%	above 90	
Working speed	km/h	0,5 – 1,0	
Fruits unloading methods	-	to small or large boxes	on both working platforms
Platform capacity	kg	2 x 750	left and right side of the harvester
Drive of mechanisms	-	hydraulic	
Tractor power demand	HP	80	100 in case of working on slopes to 14%
Type of hook	-	TUZ beam	
Lifting capacity	t	min. 2,0	

WEREMCZUK FMR reserves the right to make the modifications it considers necessary to the products in this catalogue without price notice.

Ask about price offer, time of delivery and transport options.

Contact us!!! Our consultants will help You choose the best solution for You and Your orchard!

**WEREMCZUK FMR Sp. z o.o.**

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**[Watch a video with  
FELIX/Z harvester  
at work](#)**

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