

**FKL<sup>®</sup>**

MADE IN SERBIA

FACTORY OF ROLLING BEARINGS  
AND CARDAN SHAFTS

## AGRO POINT BEARINGS

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The integrated solutions  
for modern agricultural attachments

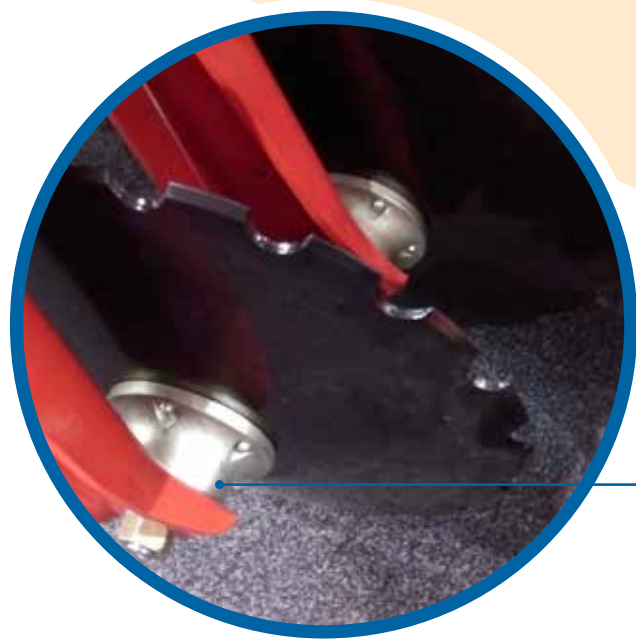




AGRO POINT for Seeders  
IL20-75.6H-B20



AGRO POINT  
IL-50 M



AGRO POINT  
IL60



# AGRO POINT

## bearings

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### The integrated solutions for modern agricultural attachments

Demand of today's agricultural market is permanent increasing of productivity respecting the environment at the same time.

Agricultural equipment should satisfy a very rigid and demandable conditions of farmers: longer, harder and faster operating with minimal work stops.

In order to satisfy a modern tendency in agricultural equipment development, FKL has developed the AGRO POINT product line. In combination with discs this bearing hub is designed to work in various agricultural applications.

Our goal is to propose a complete range of modern hubs in order to have a ready solutions for any agricultural machinery.

Each model of bearing has a certain loading capacity and basic dimensions but, mounting dimensions could be customer tailored solutions.

Considering that time is the most important fact for farmers, AGRO POINT product line is made as a long-term integral solution which doesn't require maintenance or service and simply to be replaced after its lifetime.

# AGRO POINT IL20

BEARING SOLUTION FOR SEEDING MACHINES, INTEGRATED FLANGE

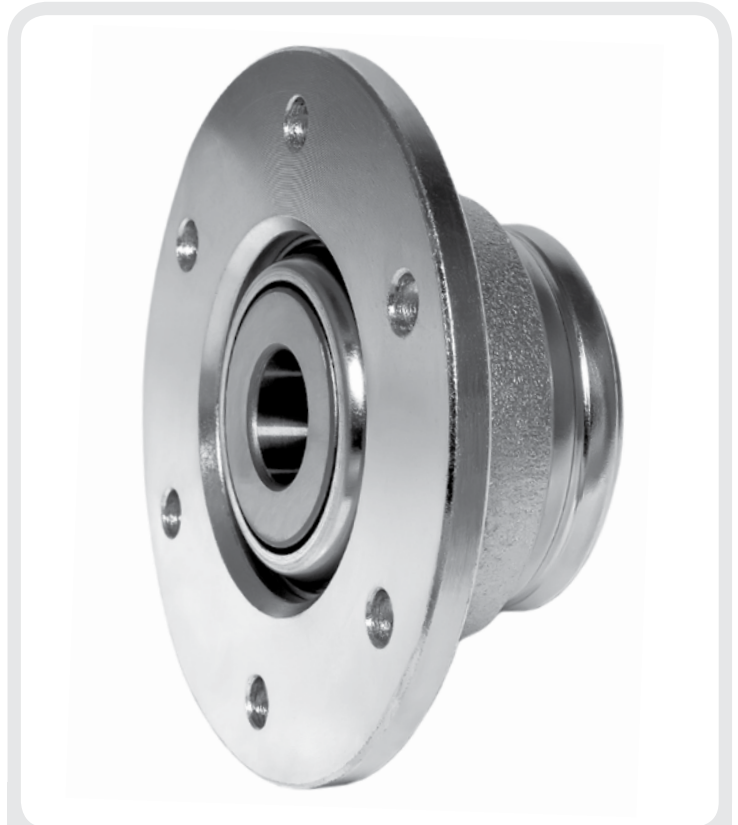
## PRODUCT DESCRIPTION

Agro Point IL20 offers improved bearing solution to support producers of seeders. Optimized internal bearing design (four-point contact ball bearing) with integrated flange gives the possibility for higher loads, faster and more reliable operating of seeding machines.

## ADVANTAGES

### Extended product reliability

- Forged flange increases the rigidity of the bearing and prevents deformation at mounting and operating,
- Longer bearing's life span due to powerful sealing and bigger loading rate for 12% comparing to previous, standard version with double-row angular contact ball bearing in metal sheet housing,
- Relubrication-free option helps to extend service life and cuts operating costs.
- Zinc-coated flange surface, good anti-corrosion protection,
- Hermetic steel-sheet cap prevents penetration of dust and humidity.



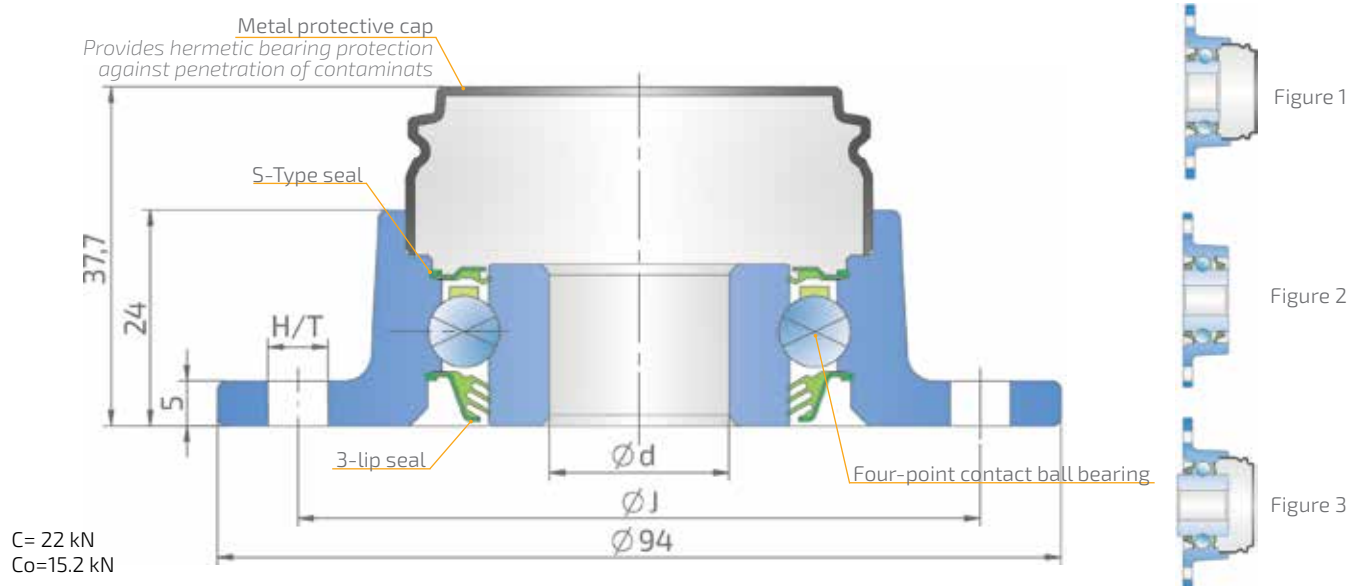
## GREATER PROFIT OPPORTUNITIES

- Reduction of assembly and labor costs due to easy mounting and replacement.
- Maximizing profit rate of the Buyer by using of high quality level unit per optimized price.



# AGRO POINT IL20

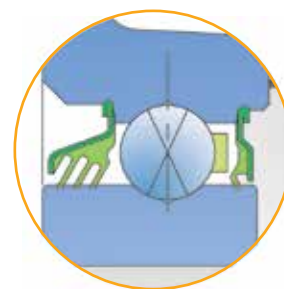
## BEARING SOLUTION FOR SEEDING MACHINES, INTEGRATED FLANGE



IL20	J	H/T	d	L1	kg	Figure
IL20-75.6H-B20	75	6x6.5	20	18	0.5	1
IL20-75.6H-B17	75	6x6.5	17	18	0.5	1
IL20-75.6H-B16	75	6x6.5	16	18	0.5	1
IL20-79.6H-B16	79.4	6x8.1	16	24	0.5	2
IL20-73.6H-B16	73.5	6x6.5	16	27	0.6	3

### ADDITIONAL OPTIONS

- Beside standard seal design (combination of S-type and triple-lip seal) triple-lip sealing on both sides is also available.
- Design flexibility: the standard 16 mm, 17mm and 20mm bearings are available with different PCD.



### MOUNTING INSTRUCTIONS

- Rivets 6mm or 1/4"
- Self locking class 8 hex nuts with helical spring washer.
- Required tools: Torque wrench with:
  - hexagon socket: size 24 (M16) Torque 170Nm
  - hexagon socket: size 30 (M20) Torque 300Nm



# AGRO POINT IL30

BEARING SOLUTION FOR HARSH SEEDING CONDITIONS, INTEGRATED FLANGE

## PRODUCT DESCRIPTION

Agro Point IL30 is reinforced version of IL20 for heavy duty seeding machines and working in harsh conditions.

It is recommended for use in NO-TILL FARMING technology (also called ZERO TILLAGE or DIRECT SEEDING) due to specific working conditions - 2-3 times bigger loading and harsh seeding conditions.

Application of IL30 in no-till farming implies way of growing crops without disturbing the soil through tillage.

Optimized internal bearing design (four-point contact ball bearing) with integrated flange gives the possibility for higher loads, faster and more reliable operating of seeders.

## ADVANTAGES

Extended product reliability

- Longer bearing's life span due to powerful sealing and increased loading rate for 30% comparing to IL 20.
- Relubrication-free option helps to extend service life and cut operating costs.
- Zinc-coated flange surface, good anti-corrosion protection.



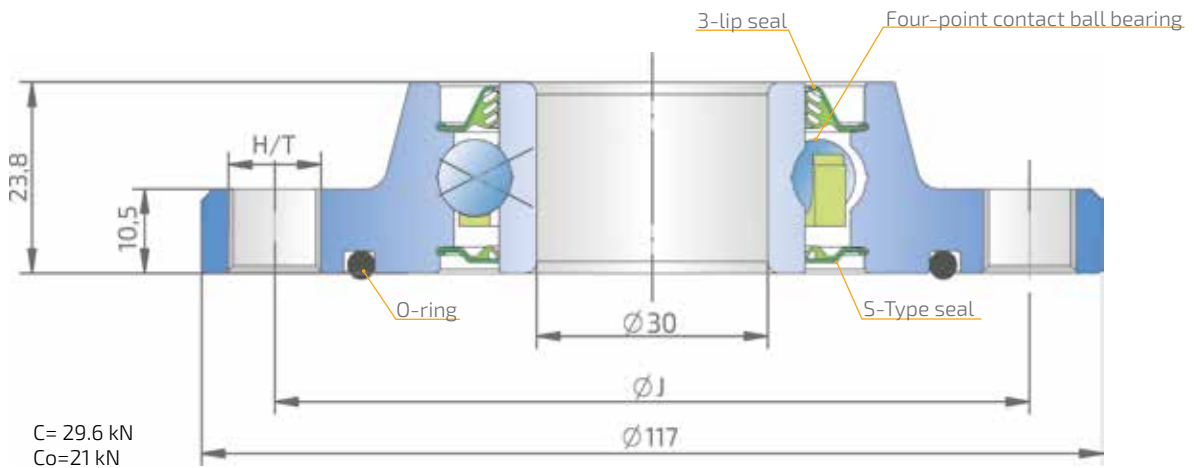
## GREATER PROFIT OPPORTUNITIES

- Reduction of assembly and labor costs due to easy mounting and replacement.
- Maximizing profit rate of the Buyer by using of high quality level unit per optimized price.



# AGRO POINT IL30

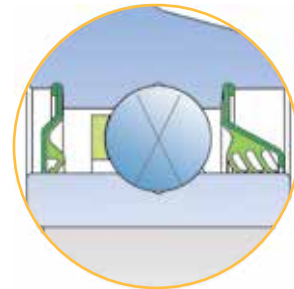
BEARING SOLUTION FOR HARSH SEEDING CONDITIONS, INTEGRATED FLANGE



IL30	J	H/T	kg
IL30-98.4T-B30	98	4xM12x1.25	0.905

## ADDITIONAL OPTIONS

Standard seal design (combination of S-type and triple-lip seal) could be improved by triple-lip sealing on both sides.



## MOUNTING INSTRUCTIONS

- Bolt M12x1.25 mounting torque: 100 Nm
- Nut torque: 300 Nm.
- Self locking class 8 hex nuts (M22 and M24) with helical spring washer.
- Required tools: Torque wrench with:
  - hexagon socket: size 19 (Bolts M12x1,25)
  - hexagon socket: size 32 (Nut M22); size 36 (Nut M24)



# AGRO POINT IL50

INTEGRATED FLANGE, MAINTENANCE-FREE BEARING FOR INDEPENDENT DISCS

## PRODUCT DESCRIPTION

Agro Point IL50 is FKL's high-performance solution for disc-harrows, greased and sealed for the life of the bearing.

Optimized internal bearing design (double-row angular contact ball bearing) with integrated flange and cassette sealing option provides a multiple service life of this bearing in relation to the traditional one.

## ADVANTAGES

- Longer bearing's life span due to powerful cassette sealing and 30% bigger loading capacity than hubs from the same type/size group (including former IL2-117 type).
- Maintenance-free option helps to extend service life and cut operating costs.
- Zinc-coated flange surface, corrosion resistant.
- Easy mounting and replacement.

## RECOMMENDED WORKING CONDITIONS

- Tractor speed: 5 ÷ 20 km/h
- Temperature range: -20 ÷ +50°C
- Disc diameter: up to 710mm (28")



## GREATER PROFIT OPPORTUNITIES

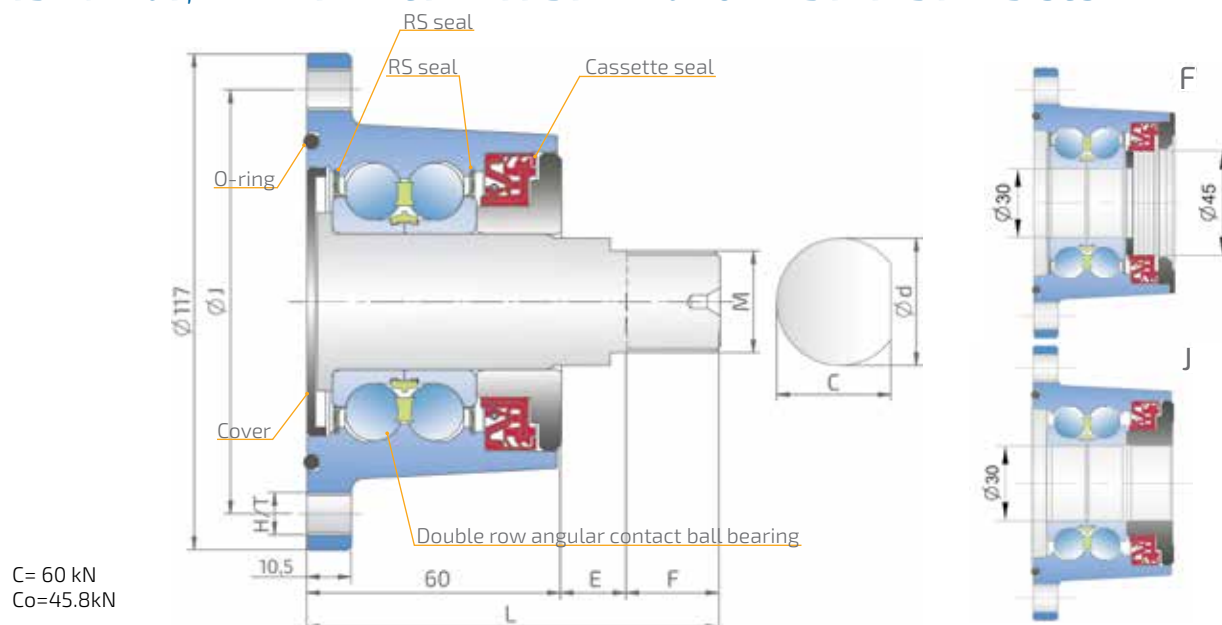
- Reduction of assembly and labor costs due to easy mounting and replacement.
- Maximizing profit rate of the Buyer by using of high quality level unit per optimized price.





# AGRO POINT IL50

INTEGRATED FLANGE, MAINTENANCE-FREE BEARING FOR INDEPENDENT DISCS



IL50	J	H/T	d	C	M	E	F	L	kg	interchange
IL50-98.4T-M22	98	4xM12x1.25	27.95	25.4	M22x1.5	17	25	102	2.5	IL2-117-M22-D
IL50-98.5T-M22	98	5xM12x1.25	27.95	25.4	M22x1.5	17	25	102	2.5	IL2-117-M22-G
IL50-98.6T-M22	98	6xM12x1.25	27.95	25.4	M22x1.5	17	25	102	2.5	IL2-117-M22-I
IL50-98.4T-M24	98	4xM12x1.25	30	27.5	M24x2	17	29	106	2.55	IL2-117-M24-H
IL50-98.6T-M24	98	6xM12x1.25	30	27.5	M24x2	17	29	106	2.55	IL2-117-M24-D
IL50-100.4T-1"	100	4xM12x1.25	30	27.5	1" SAE14h	36	29	125	2.65	IL2-117-1"
IL50-100.6T-M24.R	100	6xM12x1.25	30	27	M24x1.5	15.5	22	97,5	2.65	5554512-LEMKEN
IL50-100.6T-M24.L	100	6xM12x1.25	30	27	M24x1.5-Left	15.5	22	97,5	2.5	5554513-LEMKEN
IL50-98.4T-B30-F	98	4xM12x1.25	-	-	-	-	-	-	1.9	IL2-117-F
IL50-98.4T-B30-J	98	4xM12x1.25	-	-	-	-	-	-	1.9	IL2-117-J

## ADDITIONAL OPTIONS

- Design flexibility: the standard bearing is available with different PCD, hole patterns and number of holes.
- Aftermarket kit (Agro Point bearing, bolts M12x1.25, washer, nut M22x1.5) is also available, optionally.



## MOUNTING INSTRUCTIONS

- Bolt M12x1.25 mounting torque: 100 Nm
- Nut torque: 300 Nm
- Self locking class 8 hex nuts (M22 and M24) with helical spring washer
- Required tools: Torque wrench:
- hexagon socket: size 19 (Bolts M12x1,25)
- hexagon socket: size 32 (Nut M22); size 36 (Nut M24)



# AGRO POINT IL60

MAINTENANCE-FREE BEARING WITH INTEGRATED FLANGE FOR HARSH TILLAGE

## PRODUCT DESCRIPTION

Agro Point IL60 is designed as a heavy-duty option of standard-size IL50 for harsh tillage and larger diameter tillage discs (more than 710 mm or 28").

Combination of larger components and reliable cassette seal provides the bearing operating at higher loads and tillage speeds as well.

Agro Point IL60 is greased and sealed for the life with a multiple service life of this bearing comparing to standard one.

## ADVANTAGES

- 11% bigger loading capacity than standard-size bearing IL50.
- 31% larger shaft diameter.
- Maintenance-free option helps to extend service life and cut operating costs.
- Zinc-coated flange surface, corrosion resistant.
- Easy mounting and replacement.

## RECOMMENDED WORKING CONDITIONS

- Tractor speed: 5 ÷ 20 km/h
- Temperature range: -20 ÷ +50°C
- Disc diameter: from 710 mm to 910 mm (36")



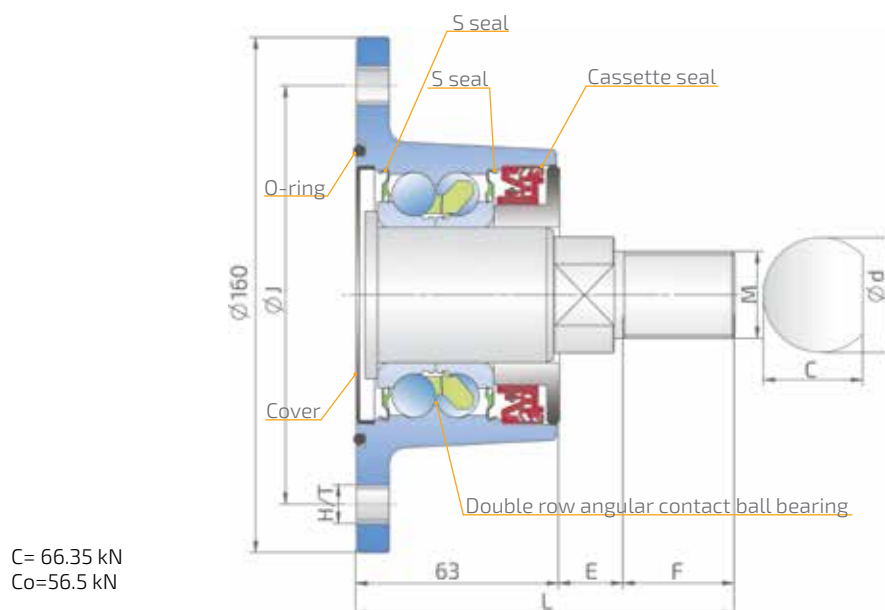
## GREATER PROFIT OPPORTUNITIES

- Reduction of assembly and labor costs due to easy mounting and replacement.
- Maximizing profit rate of the Buyer by using of high quality level unit per optimized price.



# AGRO POINT IL60

MAINTENANCE-FREE BEARING WITH INTEGRATED FLANGE FOR HARSH TILLAGE



IL60	J	H/T	d	C	M	MI	E	F	L	kg
IL60-00-M20X1.5	-	blank	31	34.9	-	M20X1.5	-	40	78	4.2
IL60-133/4H-3/4-16UNF	133.35	4x13.5	31	34.9	-	3/4-16UNF	-	40	78	4.1
IL60-130/6T-M27	130	6xM12x1.25	35	33.5	M27x2	-	21	33.5	117.5	4.4
IL60-115/4T-M22	115	4xM12x1.25	28	26.5	M22x1.5	-	17	25	105	4.3

## ADDITIONAL OPTIONS

- Design flexibility: the standard bearing is available with different PCD, hole patterns and number of holes.

- Aftermarket kit (Agro Point bearing, bolts M12x1.25, washer, nut M22x1.5) is also available, optionally.



## MOUNTING INSTRUCTIONS

- Bolt M12x1.25 mounting torque: 100 Nm
- Nut torque: 400 Nm.
- Self locking class 8 hex nuts (M24 and M27) with helical spring washer.

- Required tools: Torque wrench with:
- hexagon socket: size 19 (Bolts M12x1,25)
- hexagon socket: size 36 (Nut M24); size 41 (Nut M27)



# AGRO POINT

## BEARINGS



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