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## Customer reference case

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Agriculture

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SKF Agri Hub

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*“SKF Agri Hub has ensured continuous production with ease of mind and this is very comforting”, explains Petrus Roux, owner of Kromvlei Farm*

# Increase the performance of soil cultivation machines

*SKF Agri Hub, an extremely robust unit for independent tillage discs, was developed to meet demands from the agriculture industry for increased productivity, cost reduction and conservative care of the environment.*

## Reduce total costs

As efficient soil cultivation is at the heart of agricultural production, SKF is helping farmers increase their productivity by developing solutions for disc harrows with independent discs. These discs are now the mainstay of soil management, due to the introduction of the minimum tillage process in the farm industry.

At the 2 500 hectare Kromvlei Farm, outside Hoopstad, Free State in South Africa, owner Petrus Roux had problems with his tillage bearings. The bearings used by the farmer would only last about a day after cultivating up to 100 hectares. This means that over an hour and a half would be spent replacing each bearing arrangement. On average, this would result in a loss of ten hectares of planting and four hectares of ripping.

SKF approached Mr. Roux with the SKF Agri Hub solution, who agreed to try it out.

To date the bearing is still running with no reports of any defects in the bearing arrangement. This is after already covering 600 hectares in very abrasive soil conditions, while using liquid fertilising. At the same time, the rippers and tillage planters have undergone thorough wash down procedures.

“Reducing total cost and reliable up-time in the farming industry is of the utmost importance. SKF Agri Hub has ensured continuous production with ease of mind and this is very comforting”, explains Petrus Roux.





SKF Agri Hub at work

## Designed for real use

Designed for independent discs, SKF Agri Hub is fitted with a special seal that has been successfully tested under extreme mud and dust conditions. SKF Agri Hub also offers lifetime lubrication. Central to the sealing principle is the “mud block” seal and the special labyrinth, which have already been in use by SKF in applications where an extremely tight seal is required which provides dynamic sealing against stones, mud and any kind of dust.

A special cup and O-ring system provides static sealing of the disc side in the SKF Agri Hub unit, rendering it impervious to snow, water or mud.

The outstanding characteristics of SKF Agri Hub mean that it is virtually maintenance-free and is extremely reliable in operation.

To combat the unavoidable dirty conditions during field cultivation, the surface of SKF Agri Hub is coated with an ecologically compatible zinc layer that enables the unit to be cleaned with a high-pressure hose. The specially designed surface geometry prevents grasses, stems or roots from becoming entangled in SKF Agri Hub.

SKF Agri Hub has a key role in improving the performance of agricultural machinery. In use, it provides farmers with higher productivity and reduced costs. For manufacturers of soil cultivating machines, the benefit of adapting these units is twofold. First, they have access to a high-quality mechanical component, which adds value to their products. Second, SKF Agri Hub reduces production costs.

In addition, SKF Agri Hub makes a positive contribution to the environment by avoiding leakage of lubricant into the soil.

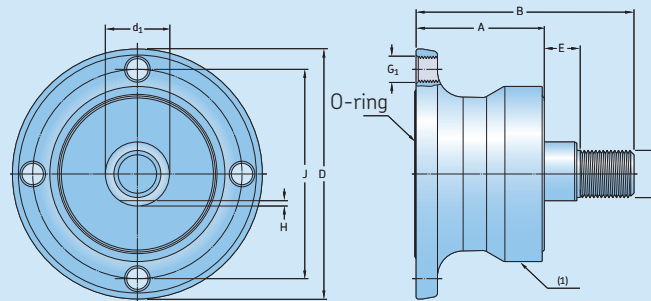
### Features

- Anti-string system flange shape
- Anti-straw, Arizona dust and stones labyrinth
- High performance sealing to prevent ingress of water, snow, mud, dust
- High capacity bearing with rigid design to withstand shock loads
- Plating is corrosion (CR VI-free) resistant to jet cleaning and fertilizers
- Anti-contamination cap for disc replacement

### Benefits

- Increased farm productivity
- Relubrication-free
- Environmentally friendly
- Easy to install / replace
- Reduced fuel costs
- Cost-effective
- Better market image
- Better sustainable image

### Technical data



#### Principal dimensions

Principal dimensions		Basic load ratings		Designation							
D	d <sub>1</sub>	J	A	B	E	G <sub>1</sub>	G	H	dynamic C	static C <sub>0</sub>	
mm									kN		–
117	28	98	60	102	17	M12 × 1,25	M22 × 1,5	2,5	47,5	37,5	BAA-0004

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