

A yellow JCB excavator is shown in the process of demolishing a building. The excavator's arm, featuring the 'JCB' and 'TERRA' logos, is extended towards the structure. It is equipped with a large, silver hydraulic breaker attachment, which is currently breaking through a concrete wall. Debris, including wooden beams and rubble, is visible around the machine. The background shows a clear blue sky and some trees.

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**JCB**

**Get greater versatility  
out of JCB machines**

[www.modularis-drive.com](http://www.modularis-drive.com)





**20 years** of attachment  
development for  
JCB machines

**20 years** of cooperation  
with JCB partners

**20 years** of experience



**FROM HUMBLE BEGINNINGS,  
TO MODERN AND INNOVATIVE SOLUTIONS!**







The grapple, built in 2002 for the company FEM34, is still working safely and reliably. Emil has handled more than 510,000 m<sup>3</sup> of rock and building material to date.

"The mixing bucket mixes quality concrete very quickly and is indestructible" **Vinko**

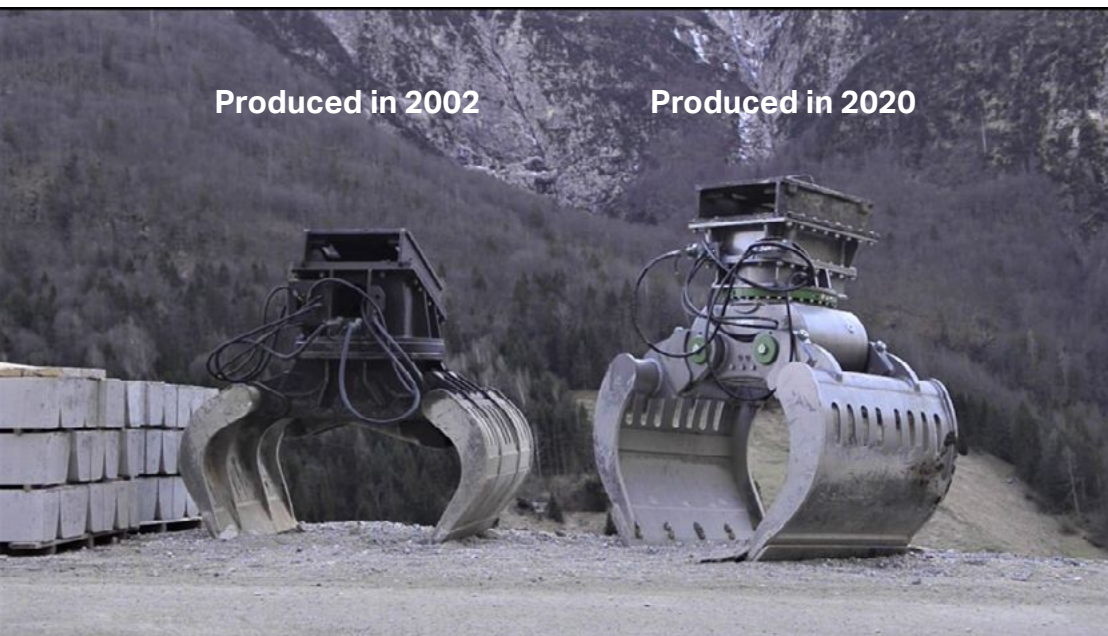
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MORE THAN  
**15,000 M<sup>3</sup>**  
OF CONCRETE  
WITH A JCB  
MACHINE

Produced in 2002

Produced in 2020



It's been 20 years since our first mixing bucket was used by our customer Vinko Pirc in 2003. The bucket is still operating safely and reliably.





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More than  
100 additional  
functions for  
JCB machines.



Up to 30% of superfluous energy (fuel) is consumed during machine operation due to the excessive mass of tools, incorrect tool design, poor manipulability and incorrect clamping.

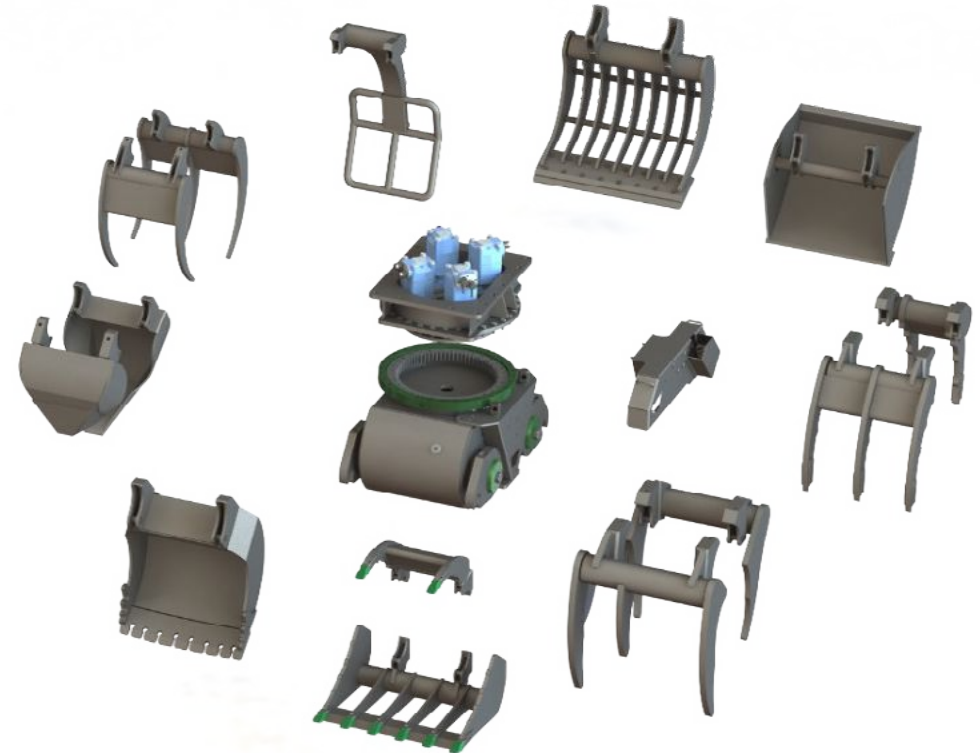


## MODULARIS ECO DESIGN

Reducing raw material consumption and tool weight, increasing functionality, power and speed of work.



## MODULARIS MODULAR SYSTEM OF TOOL COMPOSITION AND UPGRADEABILITY



- Increasing machine manipulability and power by up to 50%,
- Getting the job done up to 30% faster,
- Reducing raw materials and energy consumption by up to 100%.

## "CUSTOM MADE" SOLUTIONS

All Modularis DRIVE tools can be upgraded and the operating parameters can be changed for every JCB machine and every user





There are 3,780,000 excavating and material handling machines (excavators, stevedoring cranes) operating in the EU alone, and an additional 402,500 telescopic handlers.

All these machines consume **32 billion litres** of fuel annually.

Every year in the EU alone, **115 million litres** of hydraulic oil are irretrievably spilled into the environment due to damage in hydraulic installations and leaks in work tools.

1 litre of hydraulic oil in a water reserve can contaminate **1,000,000 litres** of drinking water!

### IMPORTANT FOR ALL OF US:

By incorporating advanced tools with increased manipulability, reduced self-weight and smart regulation, it is possible to save 15-25% of fuel, which represents up to **8 billion litres** in saved fuel for the EU.

Enclosed drives and new hydraulic connection methods can reduce hydraulic oil consumption and spillage into the environment by **more than 50%**.



## FROM ENVIRONMENTALLY DAMAGING TO EFFICIENT AND GREEN

### REASONS TO CHOOSE MODULARIS DRIVE ATTACHMENTS:

- Lower your fuel consumption by up to 25% (lighter weight, more manipulability and functionality)
- No hydraulic oil spillage – fully enclosed frame



## A JCB MACHINE & MODULARIS DRIVE TOOL

NO OIL  
LEAKAGE INTO  
THE ENVIRONMENT  
**LEAK FREE  
DRIVE**







**THANKS TO MODULARIS DRIVE TOOLS,  
JCB MACHINES HAVE GREATER MANIPULABILITY.**

Work gets done faster + fuel consumption  
is reduced by up to 25%



**A JCB MACHINE & MODULARIS DRIVE TOOL  
FOR DEMANDING WORKING CONDITIONS**

Superior gripping power and reliability

**modularisdrive**

**"MODULARIS TOOLS  
HAVE BEEN EXCEEDING  
THE EXPECTATIONS OF  
JCB USERS FOR MORE  
THAN 20 YEARS."**



Easy to use and more efficient





Cross mixing technology ensures up to 30% faster mixing and significantly higher quality concrete, thanks to intensive mixing throughout the entire bucket volume.

Between **2003** to **2023**, more than **10,000** concrete mixing buckets have been produced with Modularis DRIVE technology for customers around the world, creating a total of more than **45,000,000 m<sup>3</sup>** of concrete.



### "CROSS MIXING" TECHNOLOGY

For every 1000 m<sup>3</sup> of concrete produced, "Modularis DRIVE" mixing bucket saves of up to **200 litres** and **200 working hours**.

"MODULARIS TOOLS HAVE BEEN EXCEEDING THE EXPECTATIONS OF JCB USERS FOR MORE THAN 20 YEARS."





## WHAT DO JCB OWNERS AND MACHINE OPERATORS LIKE MOST ABOUT MODULARIS?



More than 20 years of partnership  
with JCB dealers



Totally adjustable & cost effective

Simple to use, multifunctional & reliable operation





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## SMART HAND

A UNIVERSAL MULTIFUNCTIONAL TOOL  
FOR JCB MACHINES

- more user-friendly
- reduces energy (fuel) consumption
- does not pollute the environment
- increases functionality and usability
- significantly safer and more reliable



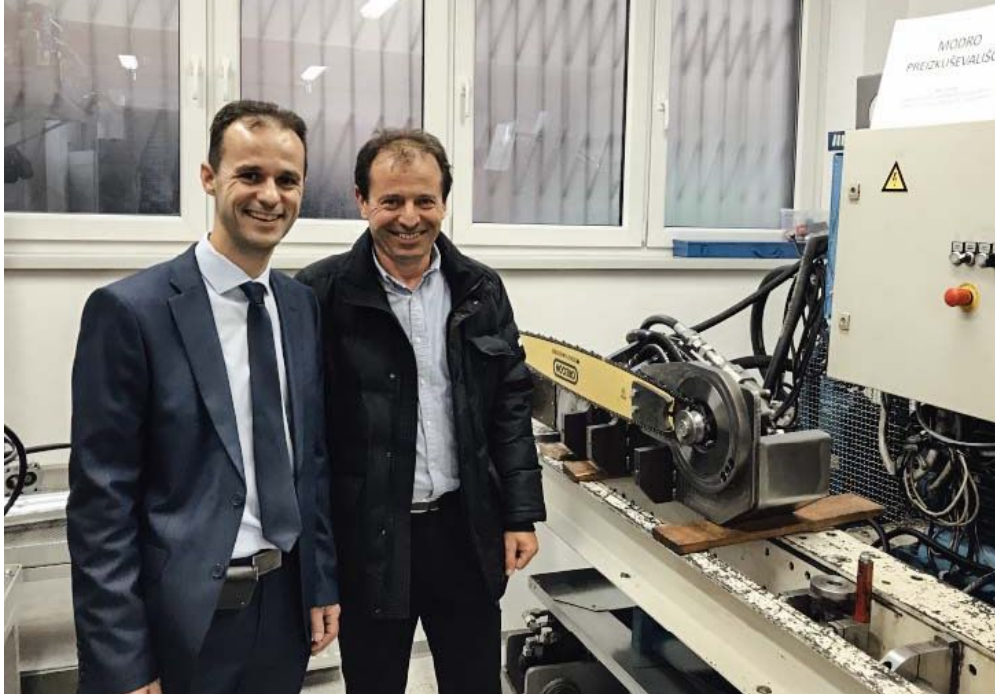
a bionic based multifunctional tool



as simple  
as NATURE

as efficient  
as MACHINES





Dr. Franci Majdič & Rafko Voje – smart control system research

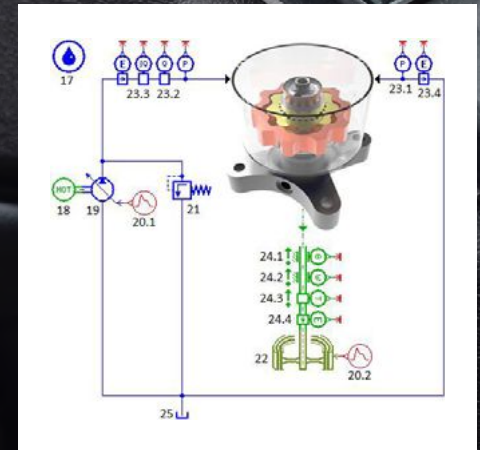


Testing the modular SMART Multifunctional tool for working machines



Modern technologies for the production of the new tools of the future.  
Partnering with KGL to develop the latest process technologies.





- Developing mathematical models for future drives
- Simulating complex E-hydraulic systems
- Advanced innovations and international patents





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WE JUST COPIED  
THE BEST  
APPLE  
AND

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FIRST FORESTRY MODULAR GRAPPLE  
Universal & Multifunction

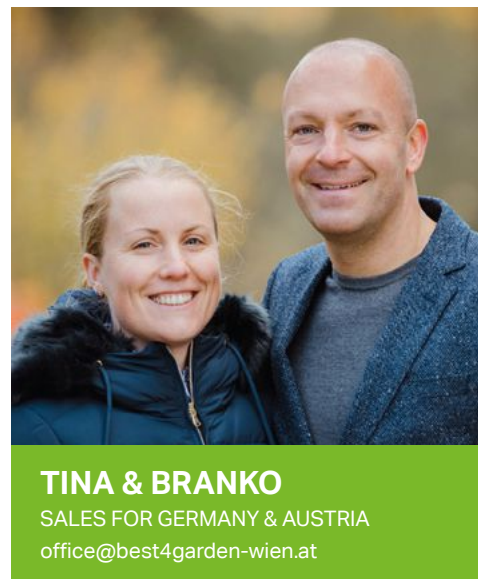


MACHINES OPERATE IN A SENSITIVE  
NATURAL ENVIRONMENT.  
**WE DO OUR BEST TO PROTECT IT.**





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"SIMPLE & RELIABLE"

**modularis**drive



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IN HARMONY WITH  
**NATURE**



A LEAK  
FREE & FULLY  
PROTECTED  
DRIVE

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