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SPECIAL CONSTRUCTION MACHINERY





SSPECIAL

SPECIAL CONSTRUCTION AND MINING MACHINERY

AND CUSTOM-DESIGNED
IMPLEMENTS



ABOUT THE COMPANY

Since its foundation in 1994, DAVON s.r.o. has always been a privately owned Czech company that focuses on the development of its own specialised products for the building and mining industries. First a comprehensive range of hydraulic grabs was developed, followed by a wide range of stationary rockbreaker boom systems, which have gone on to constitute the company's main export today. A comprehensive line of buckets for excavators and loaders was created later. Several single-purpose construction machines were also built according to particular customer requirements. State-of-the-art hardware and software is used for the development of our products. A standardised information system is used for the management of the whole company, from pre-production to dispatch and subsequent warranty and post-warranty servicing.

CERTIFIED PRODUCTION

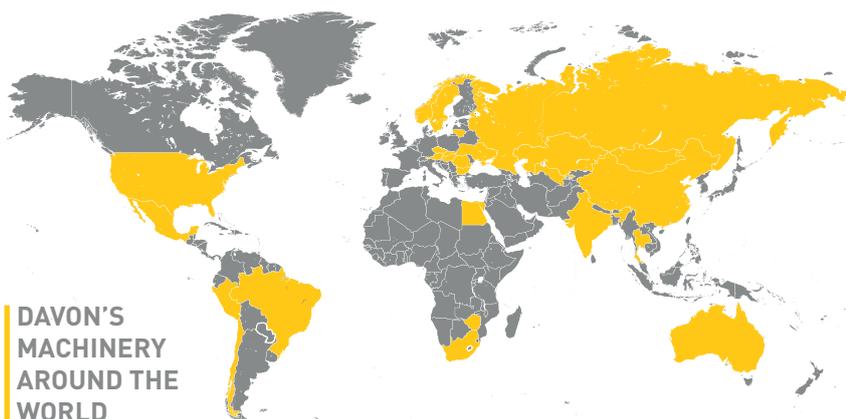
The company deployed a comprehensive quality management system per the ČSN EN ISO 9001 standard in 2003, gaining certification the following year. The company gained the ČSN EN ISO 3834-2 welding certification in 2012. DAVON also implements management systems compliant with the ČSN EN ISO 14001 environmental management, ČSN OHSAS 18001 occupational health and safety management and ČSN ISO 50001 energy management standards.

All with the objective of meeting the ever-growing demands of our customers and to supply quality, reliable and safe products characterised by a combination of excellent performance and ease of operation.



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**DAVON'S
MACHINERY
AROUND THE
WORLD**

COMPANY BRANDS



RK ROCKBREAKER BOOM SYSTEM
For crushing lines in quarries.



GRABS
Grabs in a broad variety of types, variants and sizes.



BUCKETS
Production and sales of all types of buckets for nearly all types of construction machinery.



SPECIAL CONSTRUCTION MACHINERY
One-off and custom special construction and mining machinery.



COOPERATION
Custom-designed machinery produced to meet specific customer needs.

DAVON

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SPECIAL



DAVON

SPECIAL CONSTRUCTION MACHINERY

A PERSONALISED APPROACH AND ORIGINAL TECHNICAL SOLUTIONS MEETING YOUR EXACT NEEDS FOR FUNCTIONALITY, RELIABILITY AND QUALITY IN SPECIAL MACHINERY AND IMPLEMENTS.

- PERSONALISED DEVELOPMENT AND PRODUCTION OF SPECIAL CONSTRUCTION AND MINING MACHINERY
- SOLUTIONS CUSTOMISED TO THE CUSTOMER'S SPECIFIC NEEDS
- INDIVIDUAL PRODUCTION BATCHES





DESCRIPTION

This special machine is composed of a frame, a drive mechanism, running gear and work gear. A Perkins industrial diesel engine is mounted to the frame and powers a hydraulic system used to drive the running gear and the work gear. The running gear includes the front hydraulically driven and braked axle and a rear hydraulically steered axle. The working tool is a heavy steel plate with a wear-resistant HARDOX 450 replaceable lower blade. The steel plate is repeatedly positioned at a pre-defined height and is then dropped onto the paved surface. The tool moves through vertical guides in the tower and is raised and released by a hydraulically-driven winch.

HYDRAULIC WINCH

The winch raises and releases the demolition tool. The working cycling begins by raising the tool to a pre-defined height, followed by the drive disengaging and releasing the brake, which allows the tool to fall. Once it falls on the demolished surface, the tool is raised and the entire cycle repeats.

HYDRAULIC DRIVES

The Perkins motor drives two main high-pressure piston control pumps via a flexible adapter to move the drive gear and the winch, as well as a gear pump for auxiliary and operating functions. The piston pump can be set on the switchboard to drive the winch or to move the machinery. The toothed pump is used to drive the wheels on the rear axle, flush the winch, control the main switchboard, travel speed and braking and the winch brake.

RADIO CONTROL TECHNICAL PARAMETERS

- The controls are located in the driver's cab. These are controllers and control instruments.
- A remote control for the machine and cab air-conditioning are available for an additional charge.

ELECTRICAL SYSTEM

The electrical circuits on the machine operate using a 12V DC system. An alternator on the diesel engine and two 12 V/180 Ah batteries power the system.

Perkins® diesel engine	
1100 Series type	1204F-E44TA INDUSTRIAL ENGINE
Maximum output	110.1 kW at 1000 - 2200 RPM
Minimum output	70.0 kW
Maximum torque	560.0 Nm at 1400 RPM
Emissions	EU Stage IV/U.S. EPA Tier 4 Final
Displacement	4.4 litres
Aspiration	Turbocharged with intercooler

TRAVEL SPEED	
1st gear	0 ÷ 7.5 km/h
2nd gear	0 ÷ 15 km/h

WORKING SPEED	
1st gear	0 ÷ 12 m/min
2nd gear	0 ÷ 6 m/min
Aspiration	Turbocharged with intercooler

PERMITTED TILT	
Diagonal	5°

LONGITUDINAL TILT	
During work	5°
During travel	15°

MACHINE PARAMETERS	
Productivity	max. 1200 m ² /h
Demolished thickness of concrete surfaces	max. 250 mm
Weight of hammer – working tool (panel)	7 tonnes, HARDOX 450 blades
Working tool width (panels)	1,700 mm
Working tool (panel) drive gear	ZOLLERN ZHP 6.24 free fall winch
Max. working tool (panel) stroke	0.5 ÷ 2.5 m
Stroke cycle	max. 25 per minute (full stroke)
Machine height in working position	4300 mm
Machine height in transport position	3200 mm
Machine width	2558 mm
Machine length	5370 mm
Machine weight	24 t
Cab	Air-conditioning for an additional charge

CONTROLS	
	standard controls from the cab
	remote control for an additional charge



UNIVERSAL MOBILE MACHINE FOR DEMOLISHING CONCRETE SURFACES





The carrier (excavator) itself is not included in the delivery

DESCRIPTION

Special loader for cleaning areas coal dust, pulp and similar materials from under belt conveyors.

Designed to be installed on a suitable carrier (a wheeled or crawler excavator), it consists of a hydraulically-controlled boom system and a specially shaped shovel, with reinforced sides and bottom and a blade made from HARDOX.

The dimensions and kinematics of the attachment are designed for maximum possible reach when cleaning and to enable material to be tipped onto a belt conveyor.

TECHNICAL PARAMETERS	
Minimum carrier weight	14 t
Attachment weight	4 190 kg
Maximum reach from carrier axis	10 500 mm
Shovel width	458 mm
Shovel load capacity	432 kg
Shovel volume	0,24 m ³

322B PRO CAT LOADING IMPLEMENTS



The carrier (excavator) itself is not included in the delivery

DESCRIPTION

The implement assembly is mechanically connected to the boom and thereby to the base model excavator and by attaching the pair of hydraulic boom cylinders to the lugs on the front of the machinery's frame.

Hydraulic hoses from the excavator are connected to the boom cylinders, the cylinder on the adapter and the cylinder on the bucket.



DESCRIPTION

The SN 28 column-mounted loader is equipped with a grab (an excavator grab with a hinged mount) used to move scrap within its range of motion. The excavator is equipped with a HPD 05 – 500.1 orange peel grab for this purpose.

LOG FORKS



DESCRIPTION

Log forks are specifically designed for moving logs in storage areas and sawmills. These are an implement for loaders.

TECHNICAL PARAMETERS	
Load capacity	5,000 kg
Minimum log diameter	30 cm
Maximum log diameter	75 cm
Total width	max 1,537 mm
Weight	1,000 kg
Hydraulic cylinder working pressure	max. 350 bar
Reinforcements	Hardox 450



DESCRIPTION

The special SHS 63 raking machine is designed for handling glass raw materials in glass works. After some modifications, it may be used for handling similar materials.

The machine moves on the rails, the raking chain with rakes pushes the glass raw material from the pile onto a belt conveyor to transport of the raw material for further processing

TECHNICAL PARAMETERS

Machine weight	25 t
Machine width	3 830 mm
Height (w/o the rake arm)	5 750 mm
Length (w/o the rake arm)	6 500 mm
Length of the rake arm (between the axis of rotation and the axis of the driven wheel)	12 700 mm
Total length	18 375 mm
Rake arm range of rotation	180°
Rake arm angle of inclination	0° až 60°
Conveying capacity	cca 63 t/hod
Speed of the raking chain	0,74 m/s
Travel speed	5,17 m/min

STDL120 STATIONARY CRUSHER LINE



DESCRIPTION

This stationary crusher line is designed for crushing concrete panels. Concrete panels are loaded on the feeder conveyor using the grab of the handling unit and the conveyor continuously feeds the panels into the crusher.

The crushed material is removed for further processing, which leads to the separation of the crushed concrete and the steel rebar.

TECHNICKÉ PARAMETRY

Max. reach of handling unit	9,5 m
Max. lifting capacity	2 t
Conveyor width	1 400 mm
Conveyor belt speed	0 až 6 m/min
Max. conveyor load	8 t
Carrying capacity	max. 80 t/hod.
Weight of slab of crusher	4 100 až 6 210 kg
Width of cutting edge of slab	1 240 mm
Working stroke of slab	max. 1 000 mm

DAVON

MINING AND CONSTRUCTION TECHNOLOGY
DEVELOPMENT – PRODUCTION – SALE

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