Trakcja System

EQUIPMENT CATALOGUE

2026

TABLE OF CONTENTS

TABLE OF CONTENTS

EQUIPMENT BASE

The Trakcja System equipment base means several dozen equipment units and machines as well as vehicles used to carry out complicated traction work.

The equipment has all the required approvals and is serviced regularly.

The machine stock is systematically extended by successive modern equipment units and machines**.**

SPECIALIST RAILWAY VEHICLES

MAINTENANCE TRAIN

PS-00 M/B (2 pcs.)

The PS-00 M/B maintenance train is intended to build, repair and maintain the traction network.

The vehicle is a mobile, two-unit set made up of a drive unit and a trailer unit. It is provided with a fixed platform located at the height of 3.95 m, a Palfinger mobile platform, a network position equalizer, lifting rollers and a Palfinger dual-function hydraulic crane that can lift and handle loads as well as, upon mounting an accessory basket, operate as a working platform of a long reach. A control, and measuring pantograph is mounted on the PS-00 M/B maintenance train, also used to bond the de-energized traction network.

SPECIFICATION	
Track width	1,435 m
Length	25,88 t (2 x 12,94 t)
Weight	60 t (2 x 30 t)
Mobile platform	Type PA 95, lifting capacity - 600 kg, Max. horizontal reach from the track axis – 6.21 m Max. working reach from the track axis – 6.7 m Max. height of the basket floor from the rail head – 7.2 m
Hydraulic crane	Lifting torque – 136.4 kNm Max. lifting height from the rail head – 17.0 m
Network position equalizer	Type – KPS.05 (two-arm: for the carrying cable and the contact wire) lifting capacity– 350 daN / insertion force – 350 daN
Measuring pantograph	Type PDO-20.01 approved for operation with and without voltage

PMS ASSEMBLY AND MAINTENANCE TRAIN

(3 pcs.)

The PMS assembly and maintenance train is intended to carry out work on the railway traction network.

It is made up of two units equipped with fixed working platforms, two independent mobile platforms, a two-arm network positioning unit and two network equalizers.

Each set is equipped with a measuring pantograph, allowing to correct, on a current basis and finally, the height of the traction being installed.

A third unit is attached to the set, used to hang out the network under tension, provided with a set of drums to wind up and out the network.

p.10

SPECIFICATION	
Track width	1,435 m
Overall length	40,00 m
Basket lifting capacity	250 kg
Max. height of the basket lift	6,795 m
Max. basket horizontal reach	4,000 m

VEHICLE TO MAINTAIN THE NETWORK AND THE LIGHTING

PUSiO.06 (1 pc.)

The vehicle type PUSiO.06 is intended to conduct maintenance work as well as repairs of the traction network and overhead power lines in a voltage-free state.

The equipment units needed to carry out work on the traction network are mounted on the vehicle: a pantograph with a measuring system, rollers to lift the network, a positioning unit, a network equalizer, a mobile working platform with the dimensions 2.1 m x 5.5 m, allowing to carry out work at maximum load of 500 kg, including the weight of 3 operators and necessary tools as well as a Hiab hydraulic crane provided with an accessory working basket adapted to the work of 2 operators, with a maximum lifting capacity of 300 kg at the maximum reach of 10.4 m.

A third unit is attached to the set, used to hang out the network under tension, and provided with a set of drums to wind up and out the network.

p.10

DANE TECHNICZNE	
Track width	1,435 m
Overall length	16,06 m
Working platform lifting capacity	300 kg
Max. platform lifting height	5,6 m
Max. working platform horizontal reach	4,5 m
Max. crane lifting capacity	4200 kg
Max. reach of the crane-mounted working basket	10,4 m

MOTOR TROLLEY

WM-15A (2 pcs.)

The motor trolley type WM-15 A is intended for the attendance of the work related to the railway infrastructure, the transportation of materials, equipment and work teams.

The trolley is provided with a tilting load box of an area of 16 m2 and a hydraulic crane.

The PWM-15 trailer is an additional accessory to WM-15A, also provided with a tilting load box of a load area of 29 m2 and with the dimensions of 6.1 m x 2.7 m controlled from the motor trolley operating panel.

SPECIFICATION	
Track width	1,435 m
Overall length	12,45 m
Max. crane lifting capacity	1,5 t
Max. load capacity	15 t

SET TO WIND UP AND OUT OF THE NETWORK UNDER TENSION

PWS (6 pcs.)

The set of equipment units mounted on the platform is used to hang out the traction network under tension and to wind it up on drums.

The set to hang out the traction network is made up of a hydraulic power unit, 3 drum racks, 2 telescopically lifted rollers and a hydraulic system.

Each rack has a hydraulic drive allowing rotation in both directions with a stepless adjustment of the tensioning torque. The rollers located on the ends are used to raise the conductors to a specific height, or, in the case of winding up on the conductors' leading - from above onto the drum.

SPECIFICATION	
Track width	1,435 m
Overall length	19,90 m
Tension force	8 kN

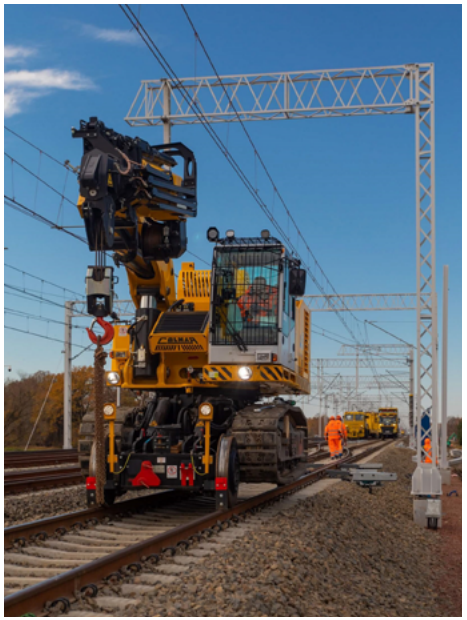
SPECIALIST TWO-WAY VEHICLES

COLMAR CRANE

T10000FSC (1 pc.)

The Colmar T10000 FSC crane is used for heavy work related to the installation of the traction network supporting structures, and to the installation of signal gates, too.

The crane performs perfectly in the situations where a very large reach is required. The most important features of the crane are: max. lifting capacity of 14 ton, a reach of above 15 m, rubber caterpillars of a variable track spacing.



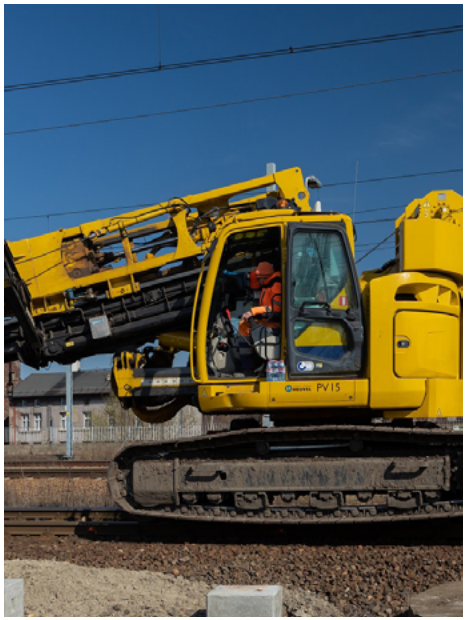
SPECIFICATION	
Track width	1,435 m
Maximum reach	15,20 m
Maximum lifting capacity	14 t
Weight	42 t

PILE DRIVER

PV 15 RPR (2 pcs.)

The PV 15 RPR pile driver is designed to set up reinforced concrete piles being a foundation to fasten traction poles in the ground. The device allows to carry out both the pile driving process both from the tracks and from another ground.

The pile driver is built on the basis of the Kobelco caterpillar excavator which is provided with: 2 rail trolleys (1 fixed trolley, 1 torsion trolley), a 3-part telescopic mast, a winch (a master winch and an auxiliary winch) and a hydraulic ram.



SPECIFICATION	
Maximum vertical pile weight	2580 kg
Excavator caterpillars	600 mm
Engine	124 KW/166 KM at 2,000 RPM
Mast horizontal extension	850 mm
Distance between the mast pile centre and the centre of rotation	min 2900 mm, max 3750 mm
Maximum pile length	7 m
Winch	5 t (master), 3 t (auxiliary)
Maximum impact force	19,62 kNm

TWO-WAY EXCAVATOR

Atlas 1604K-ZW (8 pcs.)

The Atlas 1604K-ZW rail-road excavator is used to carry out work both on railway line and roads.

The broad range of the attached peripherals makes it a universal machine. By means of it, earth, load, demolition work and drillholes can be done. The excavator can also be used as a railway traction vehicle to pull railcars.

The excavator is provided with: a 600 mm, 1000 mm drilling rig; a hydraulic demolition hammer; a hydraulic arm extension (jib); a hydraulic escarpment bucket; a bucket with a rotator; a 3000 mm, 6000 mm grab bucket and a hook.

SPECIFICATION	
Working weight	21,00 - 23,00 t
Engine power	15 KM
Maximum digging depth	5,5 m
Maximum reach	8,3 m
Breaking force	82 kN

ROAD-RAIL VEHICLE

Copma ZDS-5 (1 pc.)

The ZDS-5 road-rail vehicle is intended for carrying out installation, repair and maintenance work on overhead contact lines and power lines.

The following devices, necessary for carrying out line works, are installed on the vehicle: a pantograph with a measuring system, a line position corrector, a mobile working platform with the dimensions of 2.2 m x 4.5 m enabling work to be carried out with a maximum load of 500 kg, including the weight of 3 workers and the necessary tools, and a hydraulic crane equipped with an accessory man basket adapted for 2 people and with a maximum reach of 14 m.

The vehicle is equipped with a low-emission internal combustion engine built to Euro 6 standard. The low fuel consumption in relation to locomotives and other tractive units not only reduces operating costs, but above all the environmental impact.

SPECIFICATION	
Working platform capacity	500 kg
Maximum working platform floor height from rail head	6,5 m
Maximum working platform side reach	6,5 m
Maximum crane capacity	9,4 t
Maximum capacity of crane fitted with working platform	250 kg (2 people)
Maximum reach of crane	14 m
Positioning unit for lines	4,5 kN
Measuring pantograph	measuring range 4900 mm-6000 mm

ROAD-RAIL VEHICLE

Copma ZDS-5K (1 pc.)

The ZDS-5K road-rail vehicle is intended for carrying out installation, repair and maintenance work on overhead contact lines and power lines.

The following devices, necessary for carrying out line works, are installed on the vehicle: a pantograph with a measuring system, a line position corrector, a mobile working platform with the dimensions of 2.2 m x 4.5 m enabling work to be carried out with a maximum load of 500 kg, including the weight of 3 workers and the necessary tools, and a hydraulic crane equipped with an accessory man basket adapted for 2 people and with a maximum reach of 9,2 m.

The vehicle is equipped with a low-emission combustion engine built in accordance with the Euro 6 standard.
The lower weight and two-axle 4x4 drive chassis enable the vehicle to reach the work site even in more difficult terrain conditions.

SPECIFICATION	
Working platform capacity	500 kg
Maximum working platform floor height from rail head	6,5 m
Maximum working platform side reach	6,5 m
Maximum crane capacity	3,15 t
Maximum capacity of crane fitted with working platform	250 kg (2 people)
Maximum reach of crane	9,2 m
Positioning unit for lines	4,5 kN
Measuring pantograph	measuring range 4900 mm-6000 mm

TWO-WAY TRUCK WITH A LIFTING PLATFORM

VOLVO FL6/SVABO VRB91 (1 pc.)

The VOLVO FL6/SVABO VRB91 truck is used for the disassembly and assembly of the traction network equipment as well as for the maintenance and repairs of overhead power lines.

The truck chassis is equipped with rail travelling trolleys provided with a hydrostatic drive.

The truck has been proved with 2 independently controlled working platforms: a large one with the dimensions 2.0 m x 3.8 m and a small one with the dimensions: 2.3 m x 1.5 m as well as a measuring pantograph.

SPECIFICATION	
Maximum large platform lifting capacity	750 kg / 3 operators
Maximum small platform lifting capacity	650 kg / 3 operators
Maximum large platform lifting height	4,55 m
Maximum small platform lifting height	6,90 m
Side reach	ca. 2.65 m from the truck axis
Measuring pantograph	Type Fb PDO-20.1

TWO-WAY TRUCK WITH A LIFTING PLATFORM

MAN-OMF-G (1 pc.)

The MAN-OMF-G truck is used for the disassembly and assembly of the traction network equipment as well as for the maintenance and repairs of overhead power lines.

The truck chassis is equipped with rail travelling trolleys provided with a hydrostatic drive.

SPECIFICATION	
Power	162 kW
Platform lifting capacity	350 kg
Maximum lifting height	8,27 m
Maximum side reach	3,35 m

SKYBOOM TWO-WAY BASKET LIFT

RP450V (1 pc.)

The machine's design combines modern technology with tried-and-tested solutions, enabling comfortable operation in a variety of conditions. The RP450V aerial work platform features a wide basket (2.3 m), allowing up to four people to work comfortably. The basket's design also allows it to rotate 90 degrees in both directions relative to the boom.

Controls for both travel and the machine's other functions are operated from the working platform. The aerial platform can travel and operate with the boom rotated at any angle.

SPECIFICATION	
Year of manufacture	2026
Large basket - basket size	2.30 x 0.90 m
Basket rotation	+90°/-90°
Turret rotation	360°
Working height	16,68 m
Load capicity	450 kg
Engine	Kubota z normą emisji STAGE V

SKYBOOM TWO-WAY BASKET LIFT

Platform Basket RR 14 EVO3-400

The Platform Basket RR 14 EVO3-400 rail-road vehicle is equipped with rail bogies, whose key advantage is the direct drive to the rail wheels, which eliminates contact between the road wheels and the rail. The vehicle is controlled from the work platform via a control panel mounted in the basket, which has a lifting capacity of 400 kg and can accommodate three people.

The vehicle's compact design ensures excellent maneuverability, and the capabilities offered by the boom make this vehicle extremely effective. The vehicle is capable of driving and operating with the boom rotated at any angle.

SPECIFICATION	
Year of manufacure	2017
Large basket - basket size	1,52 x 1,22 m
Basket rotation	+90°/-90°
Turret rotation	360°
Working height	14,10 m
Load capicity	400 kg

TRUCKS WITH A (HDS) HYDRAULIC TRUCK CRANE

TRUCK

DAF CF 75 (1 pc.) and DAF CF 83 (1 pc.)

The DAF CF truck is a vehicle used to logistically secure construction sites.

The truck is provided with a crane type HDS allowing to load and unload the objects being transported.

SPECIFICATION	
Power	183 kW
Load box	8,1 x 2,5 m
Load capacity	14,28 t
Truck crane	Palfinger PK18500 max. load capacity 5.85 t
	HIAB 166B-2CL max. load capacity 5.0 t

TRUCK

IVECO TRAKKER MTGC4 truck model AT 340T (1 pc.)

The IVECO TRAKKER MTGC4 truck model AT 340T is a vehicle used to logistically secure construction sites.

The truck is equipped with a crane type HDS allowing to load and unload the objects being transported. It has a unilaterally tilting load box.

SPECIFICATION	
Load capacity	16,742 t
Truck crane	Palfinger PK23001-EH D radio controlled, with a 5.7 t maximum lifting capacity Max. reach 16 m

TRUCK

VOLKSWAGEN CRAFTER WITH HDS (4 pcs.)

The Volkswagen Crafter truck with HDS is a vehicle intended to logistically provide construction sites with tools and materials.

The use of light trucks allows to decrease the logistic costs while conveying loads with small overall dimensions and a small weight.

SPECIFICATION	
Crane type	Hyva HA28-E2
Maximum crane lifting capacity	2,085 t

TRUCK

MAN TGS 26.360 (1 pc.) and 26.400 (1 pc.)

The MAN TGS truck is a vehicle used to logistically secure construction sites.

The truck is equipped with a crane type HDS allowing to load and unload the objects being transported.

SPECIFICATION	
Power	265 kW
Load box	7,5 x 2,5 m
Load capacity	12,7 t
Truck crane	Palfinger 20002 5.8 t max. lifting capacity
	HIAB 144E-3 HIDUO 5.6 t max. lifting capacity

TRUCK

TGS 26.480 6x2H (1 pc.)

The MAN TGS truck is a vehicle used to logistically secure construction sites.

The truck is equipped with a crane type HDS allowing to load and unload the objects being transported.

The low-height cargo box is equipped with a container fastening system.

SPECIFICATION	
Year of production:	2025 r.
Load box	7,59 m
Load capacity	11,6 t
Truck crane	Palfinger PK 24.001
	lifting capacity: 23 tm max reach: 15 m

THE REMAINING MACHINERY AND EQUIPMENT

ROTARY TELESCOPIC LOADER

MERLO ROTO 33.16 KS (1 pc.)

The MERLO ROTO rotary telescopic loader is an extraordinarily functional and all-purpose machine.

The rotary head with large maximum rotation angles and a resistant and long telescopic arm provides the maximum functionality.

The loader is equipped with a fork and a 4.5 m extensible working platform.

SPECIFICATION	
Maximum lifting capacity	3000 kg
Maximum lifting height	15,81 m
Weight	12000 kg
Length	6,037 m
Width	2,24 m
Height	2,79 m
Engine power	74,9 kW

MINI-EXCAVATOR

CAT type 302.7D (1 pc.)

The CAT mini-excavator is used to perform earth work in the places of a restricted manoeuvre.

The huge advantage of the machine is its agility and mobility. The structure of the machine the turret of which remains during the rotation within the chassis outline allows the operator to work in tight places, on the other hand, the lower weight allows to reduce the transportation cost.

SPECIFICATION	
Power output	15,2 kW
Engine model	Yanmar 3TNV76
Operating weight	2670 kg
Height	2408 mm
Chassis length	2006 mm
Chassis width	1570 mm
Maximum reach at the chassis level	4481/4681

MINI-EXCAVATOR

CAT type 302 CR (4 pc.) and 304E CR (1 pc.)

The CAT mini-excavator is used to perform earthwork in the places of a restricted manoeuvre.

The huge advantage of the machine is its agility and mobility. The structure of the machine the turret of which remains during the rotation within the chassis outline allows the operator to work in tight places, on the other hand, the lower weight allows to reduce the transportation cost.

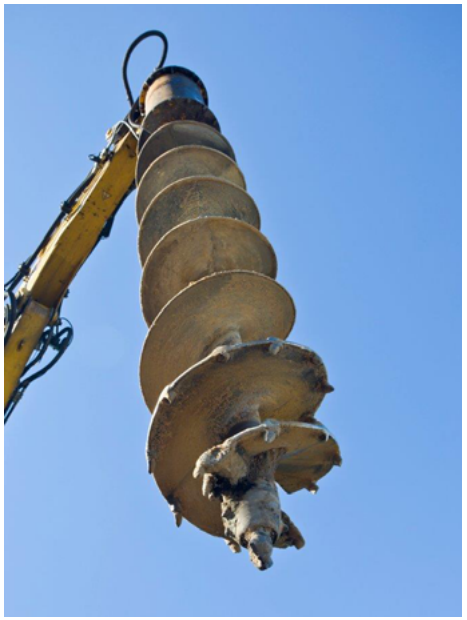
SPECIFICATION	
Power output	30 kW
Engine model	CAT C2.4
Operating weight	3884 kg
Height	2500 mm
Chassis length	2200 mm
Chassis width	1950 mm
Maximum reach at the chassis level	5220 / 5350
Hill climbing ability	30° /58°
Drive speed	3.3 km/h, 5,2 km/h

DRILLING RIG FOR EXCAVATORS

Type WPK-40 (2 pc.)

The WPK-40 drilling rig is a popular accessory to excavators, allowing to drill different sorts of holes in the soil, e.g., for power poles and piles for traction foundations.

The drilling rigs are powered from the hydraulic system of the machine on which they are mounted.



SPECIFICATION	
Drilling diameter	Up to 800 mm
Drilling depth	Dependent on the diameter of the hole being drilled, it can total 8-16 m.
Torque	19000 Nm
Speed	0-58 obr./min
Working pressure	Up to 400 bar
Weight	ca. 530 kg

HYDRAULIC HAMMER

(2 pcs.)

The hydraulic hammer, adapted to be installed on the excavator jib, features a much higher effectiveness as compared to the equipment of this type using an electric drive or a pneumatic drive.

The main area of application of the hammer is the demolition of buildings, the removal of road pavements and the acquisition of materials in open pit mines (e.g., aggregates).

In our business branch, as an accessory to the ATLAS 1604 ZW two-way excavator, it is most often used to crumble old foundations.

SPECIFICATION	
Type	D&A 150DP
Manufacturer	D&A Heavy Industries Co. Ltd.
Weight	1150 kg
Tip diameter	115 mm
Working pressure	160-190 bar
Impact	320-900 BPM, 46 mm
Impact energy	Up to 3200 J

CRUSHING JAW FOR CONCRETE

HAMMER MUSTANG RH16 (1 pc.)

The Hammer Mustang RH16 rotary crushing jaw allows to crush piles and recover steel and concrete crumble.

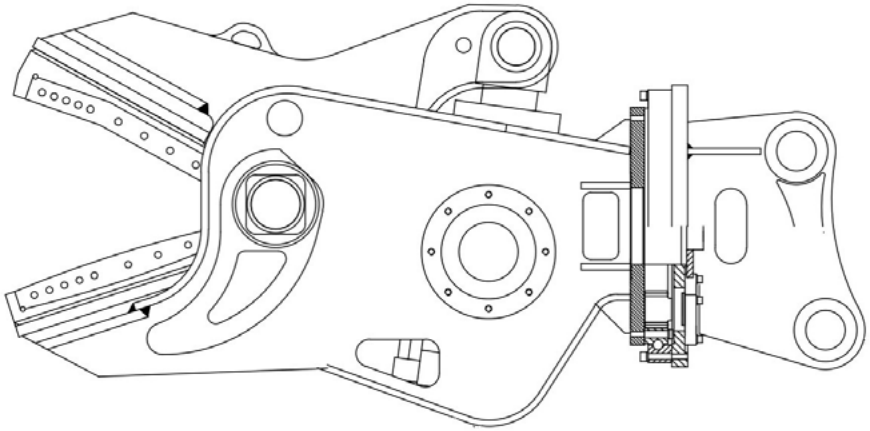
The crushing jaw is to be mounted on the Atlas excavator.

SPECIFICATION	
Weight	1570 kg
Adapted for operation with excavator	15-24 t
Jaw length	820 mm
Jaw opening	850 mm
Rotator	360°

STEEL DEMOLITION SHEAR

DHMS-200 (1 pc.)

The DHMS-200 steel demolition shear is used for fast and efficient cutting of steel structures. It significantly reduces the time it takes to prepare steel waste for scrapping compared to other cutting methods.



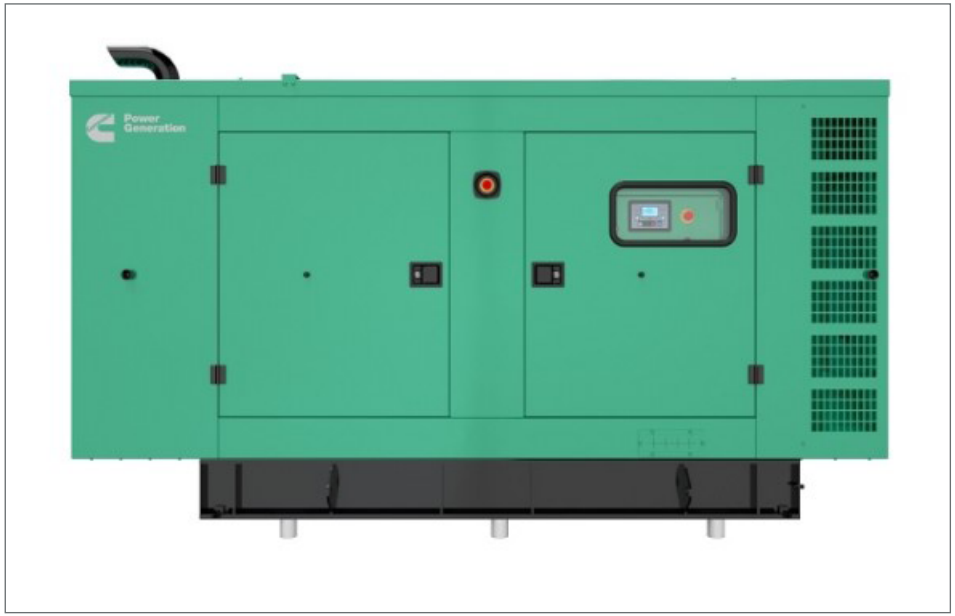
SPECIFICATION	
Maximum jaw opening	510 mm
Maximum cutting force	195 t
Length of blades	500 mm
Rotator	360°

CONTAINER - BAISED POWER GENERATOR

C22D5 50Hz (1 szt.), C66D5 50Hz (1 szt.), C110D5 50Hz (1 szt.)

We supply **Cummins containerised generator sets** for industrial applications, which can serve as both an emergency power source and a primary power supply.

The wide range of power ratings available allows us to select the most suitable unit for your specific requirements. State-of-the-art technology enables remote control of the unit, including start-up and shutdown.



DANE TECHNICZNE

Model	C22D5 (50Hz)	C66D5 (50Hz)	C110D5 (50Hz)
Engine	Cummins Diesel	Cummins Diesel	Cummins Diesel
Maximum power kVA	22 kVA	66 kVA	110kVA
Rated power kVA	20 kVA	60 kVA	100kVA
Maximum power kW	18 kW	52 kW	88kW
Rated power kW	16 kW	48 kW	80kW
Noise level	75 dB	77 dB	78 dB
Dimensions: L/W/H	1667/930/1282 mm	2600/1115/1795 mm	3151/1142/1714 mm
Weight	992 kg	1584 kg	2232 kg
Fuel consumption at 75% load	4 l/h	12,5 l/h	18 l/h