

Branches- & application catalogue

PLARAD DE & DP Nutrunners



PLARAD[®]
Torque & Tension Systems



Areas and objects of application

Hopp code	Designation of branch in Hoppenstedt company register	Application objects	Areas of application
1000	General energy management	Gas fusion systems	General applications
1000	General energy management	Combustion chambers	Covering plates
1000	General energy management	Heat exchangers	Coverings General screw joints
1000	General energy management	Bridge compressors	Turning mechanism for shafting
1000	General energy management	Exhaust fans	Intermediate shaft coupling flange
1000	General energy management	Driving gears	General screw joints
1000	General energy management	Wind-power systems	Rotor block Rotor case Rotor blades Anchor bolts Service and maintenance
1000	General energy management	General screw joints	Service and maintenance
1010	Electricity generation	Coal pulveriser	Stud bolts Driving pins
1010	Electricity generation	Turbines High-pressure turbines Steam turbines Gas turbines Hydro-electric turbines	Protective hoods, turbine casing Inner casing Steam supply and exhaust pipes Fresh steam, exhaust steam connectors Steam screen Joint bolts Combustion chambers Mushroom head anchor bolts Turbine shafts, turbine bearings Quick-acting gate valve Valve screws Pre-coated filter, control valve Low-pressure part, bypass bend Chimney outlet Flanges and anchor bolts Coupling disc, flange Compressed air compressor Pipe conduits, pressure pipes Bearing bolts Gas compressor, gas filter Gas pumps Service and maintenance
1010	General energy management	Reactor Reactor cooling pumps	Rack casing, support frame HV joint screw joint Reactor scaffold Flanges and anchor bolts Base plate screws Rod hood Manhole cover Feed pumps Centrifugal pumps Pressure tanks Service and maintenance
1010	General energy management	Generators Bypasses Capacitor	Flanges and anchor bolts Base plate screws Cover, base plate Generator casing, casing Inner casing, plug-in type bearing, motor Service and maintenance
1010	Electricity generation	Electrical equipment	High-pressure valves in steam pipes Flange screw joints

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1010	Electricity generation	Gas filter systems Gas dryers and separators	General applications Flange connections
1010	Electricity generation	Hydro-electric plant Hydro-electric generators	Bucket wheel bolts, turbine shaft Turbine rotors Extension pieces, throttle valves Setting flanges Pumps, slides, stuffing boxes Pressure valve, quick-action valve Supply pipes, feed pipes Distribution pipes Spacer bolts, manhole cover Flanges and anchor bolts Base plate screws Stud bolt connection bolts Service and maintenance
1010	Electricity generation	Coal pulveriser	Portal cover bolts
1015	Electricity distribution	High-voltage masts	Tightening of anchor bolts
1030	Gas generation	Coal filter plant	Manhole cover
1030	Gas generation	Gas systems Gas tanks Gas reservoirs Natural gas exchange stations Gas supply plants	Cover Flanges and anchor bolts Gas meters, valves, slides Filters Coupling bolts Grates Service and maintenance
1035	Gas distribution	Gas pipes	Flanges
1035	Gas distribution	Lock gate sub-rods Anchor blocks	Anchor block screw joints
1070	Water procurement and distribution	Control valves for water pipes	General screw joints Pump stations
1070	Water procurement and distribution	Drilling equipment	Main water pipe
1070	Water procurement and distribution	Pipelines	Flanges
2000	Chemical industry	Granulating equipment	Corundum processing
2000	Chemical industry	Turbines	Flange joints
2000	Chemical industry	Experimental reactor	Flange screws
2000	Chemical industry	Tank caps	Screw caps
2000	Chemical industry	Heat exchangers Stave coolers Water exchangers Plate heat exchangers Condensers	Flanges and anchor bolts Extension bolts Service and maintenance
2000	Chemical industry	Pumps Squeezing pump Feed-water pump Gear pump Coolant pump Boiler	Covers Flanges and anchor bolts Cover screws Cover screws Conveyor worm Bearing flange Service and maintenance

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2000	Chemical industry	Autoclaves Absorbers Preheaters Centrifugal separators Electrolyses Reactor	Service and maintenance Covers Flanges and anchor bolts Base flange Cover flange Manhole covers Spindles Clamping screws Copper bridges
2000	Chemical industry	Chemical installations Centrifuges Tanks All types of silos Filters Hot-water supply tanks	Boiler cover Manhole covers Pressure tanks Flanges and anchor bolts Run-off/outlet connections Dome covers Pressure pipes
2000	Chemical industry	General screw joints	Service and maintenance
2050	Petroleum processing	Heat exchangers	Feed rod
2050	Petroleum processing	Preventer Compressor Converter Expander Evaporator	Covers Flanges and anchor bolts Gas cooler Air-separation plant Filter equipment
2050	Petroleum processing	General screw joints	Service and maintenance
2100	Plastic processing	Plastic processing	Extruder nozzles
2100	Plastic processing	Comminution machine	Blade motor Blade holder
2100	Plastic processing	Injection cylinder	Flange
2100	Plastic processing	Store	Tie rods
2100	Plastic processing	Extrusion die	Nozzle screw joint
2100	Plastic processing	Extruders	Cover, flange cover Flanges and anchor bolts Nozzle, nozzle bolts Spinning head, injection head Broadband injection nozzle Granulating head Battery head Hydraulic cylinder
2100	Plastic processing	Plastic presses Plastic sleeves	Hollow nut Cylinder spindle Cover Flanges and anchor bolts Film extrusion die Cylinder cover Screen Frame attachment screws
2300	Blast furnace plants, steel works, hot rolling mills	Pipe construction, flanges	General screw joints
2300	Blast furnace plants, steel works, hot rolling mills	Rolling mills	General service Roller bearing adjustment Deflection rollers Safety bolts Roll segments Bearing adjustment Cardan shafts
2300		Pipe welding machine	Spindle on uncoiling hasp

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2300		Blast furnace tongs	Lateral pressure cylinders
2300	Blast furnace plants, steel works, hot rolling mills	Ovens Blast furnaces Slaggers Fluid-bed oven Slab foundry plant Blooming mill frame	Supporting frame Hot-blast slide valve Covers Flanges and anchor bolts Foundry ladles Mill trains Roller cylinders Differential gear unit Lifting and tilting mechanism
2300		Slag Processing	Axles, springs, wheel bearings
2300		General screw joints	Service and maintenance
2320	Non-ferrous metal works	Pipe construction, flanges	General screw joints
2320	Non-ferrous metal works	Feed pumps Filters	Pressure line Case joints Flanges and anchor bolts
2320	Non-ferrous metal works	General screw joints	Service and maintenance
2380	Steel-drawing plants and cold rolling mills	Pipe construction, flanges	General screw joints
2380	Steel-drawing plants and cold rolling mills	Rolling mills	General service Roller bearing adjustment Deflection rollers Safety bolts Roll segments Bearing adjustment Cardan shafts
2380	Steel-drawing plants and cold rolling mills	Pipe welding tracks	Welding carriage Spindle on uncoiling hasp
2400	Steel and lightweight metal construction	Bridge construction	High-strength bolts
2400	Steel and lightweight metal construction	Hall construction	Foundation bolts
2400	Steel and lightweight metal construction	Framework construction	Foundation bolts
2400	Steel and lightweight metal construction	Steel girders	General screw joints
2400	Steel and lightweight metal construction	Temporary bridges	General screw joints
2400	Steel and lightweight metal construction	Three-dimensional framework	Screw joints for bearing and cylinder intersections
2400	Steel and lightweight metal construction	Tower crane	Motor suspension unit Tower joint connection
2400	Steel and lightweight metal construction	Ship-deck crane	Gantry Slewing rim
2400	Steel and lightweight metal construction	Steel hall	Binders and joint connections
2400	Steel and lightweight metal construction	Rails Shunts Railway poles Overhead line masts Rail-brake systems Temporary bridges	Rail joints Rail connectors Covers Flanges and anchor bolts Foundation bolts Train buffing gear Insulated rail joints

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2400	Steel and lightweight metal construction	Synchronization cylinders Pole and mast construction	Service and maintenance Anchor bolts Foundation bolts Platform framework Steel scaffold Support scaffold Tie rods Steel sheet corner plates Pulley corners Steel girder scaffold
2400	Steel and lightweight metal construction	General screw joints	Service and maintenance
2420	General mechanical engineering	Polishing machines	Tightening of polishing discs
2420	General mechanical engineering	Pipe moulding machines	Assembly, tightening of the guide rails
2420	General mechanical engineering	Hydraulic cylinders	Setting screw Flange connections
2420	General mechanical engineering	Gear shaft	Toothed wheel
2420	General mechanical engineering	Grippers	Connect shell with crossbeam
2420	General mechanical engineering	Core welding machine	Pressing cylinders Ball bearing slewing rim
2420	General mechanical engineering	Slewing rim	Kingpins
2420	General mechanical engineering	Planetary strander	Base plates Rope screw joints
2420	General mechanical engineering	Fork lift trucks	Torque control on driving axle
2420	General mechanical engineering	Machine for beet washing station, shredding machine	Screw joints
2420	General mechanical engineering	Ceramic machine	High-pressure cylinders
2420	General mechanical engineering	Shredders Shredder systems Scrap presses Scrap shears	Cutter bolts Blank holder Hydraulic cylinders Cover Flanges and anchor bolts Wear plates Tightening of fly cutters Alignment of the cutters
2420	General mechanical engineering	Presses Expander presses Sinter presses Forging presses Hydraulic presses Column presses Packing presses Cylinder presses	Tensioning device Pressing cylinders Hydraulics Cover Flanges and anchor bolts Angle valve Cylinder cover Cylinder Hot-press tools Pressing dies Expanders Collets Slide grippers Tool attachment
2420	General mechanical engineering	Cylinders Paper cylinders Oil chamber cylinders	Cover Flanges and anchor bolts Collets Tool attachment Propeller shafts

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2420	General mechanical engineering	Winches Cutting-off machines	Service and maintenance Cover Flanges and anchor bolts
2420	General mechanical engineering	Large-scale fans Blowers High bays High bay handling systems	Impeller Paddle wheel Blade bolts Slide rails Rails Lifting leg
2420	General mechanical engineering	Printing machine	Service and maintenance Cover Flanges and anchor bolts Shot piston
2420	General mechanical engineering	Impeller	Annular spring Clamping set
2422	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Caterpillar	Cylinder head screws Chassis screw joints
2422	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Coking plant	Bolts on the coke oven
2422	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Roll covering	General screw joints
2422	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Shovel dozer	General screw joints Cylinder head screws Loading arm bearings Lifting equipment
2422	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Heading and cutting machine for tunnels	Tightening the drilling ring
2422	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Trucks Fork-lift trucks Crawler-mounted excavator	Driving gears Wheel bearings
2422 c	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Crane Slewing crane Tower crane Climbing crane Truck crane Mobile crane Workshop crane Crawler-mounted crane	Tower joints Joint connections High-strength joints on crane rails Slewing rim Wheel nuts/wheel bearings Locking screws Chain links Chain joint

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2422c	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Excavators Hydraulic excavators Excavator pumps Crawler-type undercarriages Track-laying vehicles	Chains, track links, tumbler wheel Counter, balancing and rear weights Slewing rim, slewing gear Chassis slewing rim Hydraulic cylinder Piston rod, assembly Gear unit, driving gear Wheel nuts, axle bolts Axle screw joints Axle suspension Bucket, points, dozer bowl Cabin attachment bolts Motor bracing Chain links
2422	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Conveyor systems Drawn-up systems Chain conveyor Conveyor-belt systems	Chain bolts Locking jack Chain wheels, chain starwheels Conveyor belt drum Link chains Sliding support connection Joint bolts Chain pulleys Drive conveyor belt Clamping set Covers Flanges and anchor bolts Hoisting cage Ascending pipe in shaft Drive wheel
2422	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Hammer-head crushers All types of crushers Crushing systems Impellers	Slasher attachment Crushing points Blade bolts Crushing elements Crushing wheel Tie rods Beating arms Coal crushers
2422	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Advance working machines Unbalance machines Unbalance motors Mining machines Handling equipment	Drilling point Eccentric drilling point Differentiators Gear unit, clamping lugs Conveyor rings Joint bolts Raiser drilling point Drilling hammer Diesel-powered engines
2422c	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Container bridge	General screw joints
2422c	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Construction machinery	Framework screw joints
2422c	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Chain crawler undercarriage	Link-chain screw joints
2422c	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	Tank wagons	Manhole covers

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2422	Steelwork and rolling mill equipment, collieries machines, construction machines, hoists and conveyor systems	General screw joints	Service and maintenance
2429	Other engineering products	Transport containers	Cover bolts
2429	Other engineering products	Hydraulic platform Lifting systems Lifting platform	Flange screw joints
2429	Other engineering products	High pressure compressors	Casing screw joints Cover screw joints with seal
2429	Other engineering products	Pumps Centrifugal pumps	Pump ramp repair Pump cases Pressure chambers Cylinder heads Valve covers
2429	Other engineering products	Submergible pump drive	Fixing of the weights
2429	Other engineering products	General screw joints	Service and maintenance
2429	Other engineering products	Turbines High- pressure turbines Steam turbines Gas turbines Hydro-electric turbines	Covering plates, turbine casing Inner casing Steam supply and exhaust pipes Fresh/exhaust steam pipes Steam screen Joint bolts Combustion chambers Mushroom head anchor bolts Turbine shafts / bearings Quick-acting gate valve Pre-coated filter, control valve Valve screws Low pressure cylinder, overload currage Chimney outlet Flanges and anchor bolts Coupling disc / flange Compressed air compressor Pipe conduits, pressure pipes Bearing bolts Gas compressor, gas filter Gas pumps
2429	Other engineering products	Generators Overcurrent systems Capacitor	Flanges and anchor bolts Base plate screws Cover, base plate Generator casing, casing Inner casing, plug-in type bearing, motor
2460	Shipbuilding	Ship screws	Controllable pitch propeller
2460	Shipbuilding	Propeller shafts	Ster tube bearing
2460	Shipbuilding	Underwater flanges	H4-Vetro connector
2460	Shipbuilding	Ship gear unit	Oil trough
2460	Shipbuilding	Gear unit	Parting line Stopping nut Oil trough
2460	Shipbuilding	Ship's engines	Tie rods Floor screw joints Cylinder head screws Connecting rods

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Hopp code	Designation of branch in Hoppenstedt company register	Application objects	Areas of application
2460	Shipbuilding	Drilling platforms Quay crane Submarines Ships Ship unloaders Dry dock Rammer Diesel-powered engines Blow-out-preventers	Rammers Packaging Stuffing boxes Pipe conduits Covers Flanges and anchor bolts Foundation screws Hatch covers Tower bolts Ball-bearing slewing rims Cylinder covers Connecting rod bearings Bearing shells Gear unit, gear unit flanges Driving gear units Shaft ball bearings Cross-section bracing
2460	Shipbuilding	General screw joints	Service and maintenance
2850	Sugar industry	Heat exchangers	Cover
2850	Sugar industry	Counterflow shredding machine	Cover bolts
2850	Sugar industry	Pre-heaters	Flange
3000	Civil engineering	Deep drilling	Drilling rods Flange screw joint
3000	Civil engineering	Frames for pre-fabricated structures	Tightening of HV screws
3000	Civil engineering	Dumpers	Rear axle nut
3000	Civil engineering	Tunnel excavation	Screwing of the segments
3000	Civil engineering	Earth-moving machines	Cylinder head screws
3000	Civil engineering	Running gear	Wheel bearing Connecting rod bearing
3000	Civil engineering	Low dumper	General screw joints
3000	Civil engineering	Crawler loaders	Axle screw joints
3000	Civil engineering	Bulldozers	Axle screw joints
3000	Civil engineering	Tunnel drilling machine	Tightening of the drilling chisel and drilling heads
3000	Civil engineering	Heavy-duty crane	Tightening of the tie rod
3000	Civil engineering	Excavators Dredgers Cable dredgers	Connection of the caterpillar links with excavator Ball bearing rims
3000	Civil engineering	Plant for manufacturing pre-fabricated concrete parts	Tightening and loosening of the clamping screws
3000	Civil engineering	Stone drilling equipment	Screw-type connection of pieces on the drill pipe
3000	Civil engineering	Trucks	Locking ring on the bevel pinion
3000	Civil engineering	Drilling installations Drilling for wells	Maintenance, repairs Flanges and anchor bolts Base plate screws Drilling pipe coupling
3000	Civil engineering	Telecommunication tower	Turret attachment
5005	Railways	Bellows	Cover
5005	Railways	Generator stand	Part joint

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5005	Railways	German high-speed trains	Traction unit Centre coaches
5005	Railways	Repair workshop for engines	Crankshaft Counterthread
5005	Railways	Rails Shunts Railway poles Overhead line masts Wagons Rail-brake systems	Rail joints Rail connectors Temporary bridges Cover Flanges and anchor bolts Foundation bolts Train buffing gear Buffer screw joints
5012	Passenger transport by buses in local traffic	Buses Brake test stand	Wheel nuts Axle bolts Buckles Struts Spring assemblies Gears Gear covers Diesel engines Cylinder covers Connecting rod bearings Steering and tracking lever Steering system Trailer hitch Axles Axle link attachment Axle lines low-bed vehicles Tandem-axle assembly
5013	Passenger transport by intercity buses	Buses Brake test stand	Wheel nuts Axle bolts Buckles Struts Spring assemblies Gears Gear covers Diesel engines Cylinder cover Connecting rod bearing Steering and tracking lever Steering system Trailer hitch Axles Axle link attachment Axle lines low-bed vehicles Tandem-axle assembly
5017	Goods transportation by vehicle	Buses Trucks Heavy goods vehicles	Wheel nuts Axle bolts Buckles Struts Spring assemblies Gears Gear covers Diesel engines Cylinder cover Connecting rod bearing Steering and tracking lever Steering system Trailer hitch Axles Axle link attachment Brake test stand Axle lines low-bed vehicles Tandem-axle assembly



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