

Ondrives Manufacturing Capacity & Equipment

ondrives

Precision Gears

Precision gears, gearboxes, shafts, splines and machined transmission components | Reviewed July 2026

Summary	Total	Description
Installed machines and software licences	65	Total installed quantity
Equipment and software types	48	Distinct machine, inspection and software systems
Capability groups	14	Manufacturing, inspection and design departments

Capability group	Equipment	Installed qty	Open sheet
CNC Turning Centres	10	17	View group
CNC Sliding Head Lathes High Speed	3	3	View group
Vertical Machining Centre CNC Milling	1	1	View group
Multi-Tasking CNC Turn-Mill Centres	2	2	View group
5-axis Machining Centres (CNC Milling)	4	4	View group
Cylindrical Gear Manufacturing (Gear Cutting)	4	6	View group
Profile Grinding (Gear Form Grinding)	2	2	View group
Spiral Bevel Grinding	1	1	View group
Wire EDM (Wire Eroding)	2	2	View group
Internal Cylindrical Honing (Bore Honing)	2	2	View group
External and Internal Cylindrical Grinding (Diameter Grinding)	3	3	View group
Metrology (Inspection Room)	8	8	View group
Laser Part Marking	1	2	View group
Engineering Design & Manufacturing Software	5	12	View group

CNC Turning Centres

10 equipment types | 17 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
3	Mazak QUICK TURN 200MSY	Ø65 mm bar capacity; installed workholding up to approximately Ø276 mm	CNC turning centre with driven tooling, second sub-spindle and Y-axis capability.	More Info
1	Mazak QUICK TURN 200MY with MAZATROL SmoothG	Ø65 mm bar capacity; installed workholding up to approximately Ø276 mm	CNC turning centre with driven tooling and Y-axis capability.	More Info
1	Mazak QUICK TURN 200MSY with gantry automation	Automated component handling for parts up to approximately Ø200 mm and 10 kg, subject to gripper and workholding	Driven tooling, second spindle and Y-axis, with automated gantry loading and unloading.	More Info
3	Mazak QUICK TURN 200MSY with TA12-200 robot and SmoothG	Automated component handling for parts up to approximately Ø200 mm and 12 kg, subject to gripper and workholding	Driven tooling, second spindle and Y-axis, with robotic loading and unloading.	More Info
1	Mazak Primos 150SG+GL03 Smooth C with quickloader	QL03 quick loader billets 20-80mm dia 1.5kg weight. Chuck can take 250mm dia parts	2 Axis lathe one spindle. Auto load unload small parts.	More Info
1	Mazak MEGA TURN 900M with SmoothG	Installed capacity up to approximately Ø900 mm and 3,000 kg, subject to workholding and component geometry	Vertical CNC turning with driven-tool milling capability and automatic C6 boring-bar changing.	More Info
1	Mazak Smart 200L	Ø276mm Max 1000mm Stroke	2 Axis Lathe with Long Bed 1000mm Stroke and Centre	More Info
4	Mazak Smart 200	Ø276mm Max 650mm Stroke	2 Axis Lathe with Std Bed 650mm Stroke and Centre	More Info
1	Doosan 3100Y Fanuc	Ø100mm Bar Feed Ø420mm Max	Live Tooling Y axis and Centre	More Info
1	Doosan Puma 400B Fanuc	Ø550mm	2 Axis Lathe with Centre and also removable steady support for shaft work.	More Info

Capacity note: Published capacities are indicative of Ondrives' installed configuration and typical workholding. Final manufacturability depends on geometry, material, tolerances, tooling, fixturing and process planning.

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CNC Sliding Head Lathes High Speed



3 equipment types | 3 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
1	Citizen Cincom M32-VIII (M432)	Up to Ø35 mm on the installed configuration; 3,000 mm bar feed	Sliding-head CNC turning with main and sub-spindles up to 8,000 rpm, driven tooling, programmable B-axis and high-pressure oil coolant.	More Info
1	Citizen Cincom M32-VIII LFV (M532)	Up to Ø38 mm oversized specification; 3,000 mm bar feed	Sliding-head CNC turning with LFV chip-control technology, main and sub-spindles up to 8,000 rpm, driven tooling, programmable B-axis and high-pressure oil coolant.	More Info
1	Citizen L12-VII 7 Axis	Ø16mm Max 3000mm Bar Feed	15,000 rpm Main Spindle 10,000 rpm Sub-Spindle 10,000 rpm Live Tooling High Pressure Oil Coolant.	More Info

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Vertical Machining Centre CNC Milling



1 equipment types | 1 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
1	Doosan NM510 Fanuc 30 Tools	Bed 1200x500mm Stroke 1020x510x510	10,000 rpm Spindle With Probing	More Info

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Multi-Tasking CNC Turn-Mill Centres

2 equipment types | 2 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
1	Okuma MULTUS U4000 1SW × 2000 with Cellro X35-70 automation	Installed configuration with Cellro X35-70 robotic automation and up to 70 kg handling capacity; approximately Ø650 mm maximum swing, 2,000 mm between spindle centres, and travelling steady support for shaft diameters from approximately Ø30 to Ø245 mm, subject to workholding and component geometry.	Integrated CNC multi-tasking centre for complete machining in fewer setups, combining turning, milling, drilling, boring and complex 5-axis work. HSK-A63 B-axis milling spindle with approximately -30° to +210° positioning, main spindle and opposed spindle for front-and-back machining, automatic tool changing, gear hobbing, gear skiving, spline machining and Turn-Cut orbital/interpolating turning. Cellro automation supports repeatable unattended production of shafts, gears, gearbox and other high-value precision transmission components.	More Info
1	Mazak INTEGREX i-250HS AG hybrid multi-tasking centre with RoboJob automation	Installed RoboJob automation for component handling up to 30 kg and approximately Ø200 mm, subject to gripper and workholding. Machine capacity includes approximately Ø670 mm maximum machining diameter and up to 1,500 mm machining length / between-spindle arrangement on the installed configuration.	DONE-IN-ONE multi-tasking capability combining CNC turning, milling, drilling, boring and simultaneous 5-axis machining with a second spindle for complete front-and-back processing. Integrated gear skiving, gear hobbing and gear end-milling support, with in-machine gear measurement capability where the installed probing and software configuration permits. Equipped with a 74-tool Capto C6 magazine and RoboJob automation for flexible high-mix production, reduced handling, fewer setups and improved positional accuracy on shafts, gears and precision transmission components.	More Info

Capacity note: Published capacities are indicative of Ondrives' installed configuration and typical workholding. Final manufacturability depends on geometry, material, tolerances, tooling, fixturing and process planning.

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5-axis Machining Centres (CNC Milling)

4 equipment types | 4 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
1	Mazak Variaxis i-300 AWC SmoothX 32 Pallets 145 Tools ID chipped	X/Y/Z 350/550/510	Simultaneous 5 Axis 18,000 rpm Spindle Probe High Pressure Coolant	More Info
1	Mazak Variaxis i-300 AI AWC SmoothX 32 Pallets 145 Tools	X/Y/Z 350/550/510	Simultaneous 5 Axis 18,000 rpm Spindle Probe High Pressure Coolant	More Info
1	Mazak Variaxis i-500 SmoothX 60 Tools	X/Y/Z 350/550/510	Simultaneous 5 Axis 18,000 rpm Spindle Probe	More Info
1	DMU50eco Heidenhain TNC 620 30 Tools	X/Y/Z 500/450/400	3+2 Axis 10,000 rpm 13Kw With Probe	More Info

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Cylindrical Gear Manufacturing (Gear Cutting)

4 equipment types | 6 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
1	Emag Kopefer HLC150H	0.5-4Mn Max Ø15-Ø200mm x 500mm	Hobbing of spur and helical gears, splines, worms and worm wheels, with crowning capability.	More Info
1	Gleason P400ES electronic Shaper	0.4Mn-10Mn Ø10-Ø600 100mm Face Width	Shaping of external and internal spur and helical gears and splines, with crowning capability.	More Info
3	Gleason P90 High speed Hobbing with Auto-Loading	0.5Mn-4Mn Ø5-Ø145mm x 400mm	High-speed hobbing of spur and helical gears, splines, worms and worm wheels, with automatic loading and crowning capability.	More Info
1	Hera90 Hobbing With Auto-Loading 7 Axis	0.5Mn-2Mn Ø10-Ø100mm	Seven-axis hobbing of spur and helical gears and splines, with automatic loading and crowning capability.	More Info

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Profile Grinding (Gear Form Grinding)

2 equipment types | 2 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
1	Gleason P600-800G	0.5-20 Mn; maximum profile depth 45 mm; Ø20-Ø850 mm; 600 mm stroke	Grinding from solid and finish grinding of spur and helical gears and splines to DIN Q3-Q5, with profile and lead modifications, tip and root relief, root protuberance grinding, twist compensation, crowning and bias.	More Info
1	Niles ZE400	0.5-14 Mn; Ø10-Ø400 mm; 370 mm stroke	Grinding from solid and finish grinding of spur and helical gears and splines to DIN Q3-Q5, with profile and lead modifications, tip and root relief, root protuberance grinding, crowning and bias.	More Info

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Spiral Bevel Grinding

1 equipment types | 1 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
1	Gleason 280G	0.8-8 Mn; Ø12-Ø280 mm; maximum face width 50 mm; maximum profile depth 22 mm	Grinding from solid and finish grinding of spiral bevel, hypoid and high-ratio hypoid gears. Gleason GEMS design data is transferred to the machine, then measurement results are returned through a closed-loop correction process.	More Info

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Wire EDM (Wire Eroding)

2 equipment types | 2 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
1	Agie-Charmilles CUT 200	X/Y/Z travel 350 × 250 × 200 mm; maximum workpiece weight 250 kg	High-precision submerged wire EDM for producing intricate profiles, internal forms, punches, dies, splines and hardened components without cutting forces. Suitable for fine-detail work, close tolerances and unattended cutting, subject to the installed machine configuration.	More Info
1	Sodick ALC600G Premium	X/Y/Z travel 600 × 400 × 350 mm; maximum workpiece weight 1,000 kg; installed work envelope approximately 800 × 570 × 280 mm	Linear-motor wire EDM for accurate machining of complex profiles in hardened and conductive materials. Supports precision contouring, taper cutting, automatic wire threading and stable unattended production, with digital pulse control and collision-aware machining functions subject to the installed specification.	More Info

Capacity note: Published capacities are indicative of Ondrives' installed configuration and typical workholding. Final manufacturability depends on geometry, material, tolerances, tooling, fixturing and process planning.

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Internal Cylindrical Honing (Bore Honing)

2 equipment types | 2 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
1	Delapena E1000	Ø30mm Max Bores through, With Keyways	Finishing Bores for $\leq 0.4\text{Ra}$ Finishes Can be a lot better with polishing Stones aswell Tolerances $5\text{ }\mu\text{m}$ Possible.	More Info
1	Delapena SpeedHone EAS	Ø80mm Max Bores Through , with Keyways, Blind Special tooling	Finishing Bores for $\leq 0.4\text{Ra}$ Finishes Can be a lot better with polishing Stones aswell Tolerances $5\text{ }\mu\text{m}$ Possible.	More Info

Capacity note: Published capacities are indicative of Ondrives' installed configuration and typical workholding. Final manufacturability depends on geometry, material, tolerances, tooling, fixturing and process planning.

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External and Internal Cylindrical Grinding (Diameter Grinding)

3 equipment types | 3 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
1	Studer S31 CNC	Centre Height 175mm Dist Between Centres 800mm-888mm Max Weight 50Kg Max Longitudinal slide: Z axis 1150mm	Diameter Grinding Tolerances 5 µm and <0.4Ra Finishes. Driven tailstock and grinding head direct drive so can grind plain diameter and taper in one. Thread grinding low angles . Bore grinding.	More Info
1	Studer S21 CNC	Centre Height 125mm Dist Between Centres 400mm Max Weight 30Kg Max Longitudinal slide: Z axis 483mm	Diameter Grinding Tolerances 5 µm and <0.4Ra Finishes Depending on Part. Bore Grinding , Chuck Grinding	More Info
1	Kellenberger KEL-VISTA UR175-1000	Centre Height 175mm Dist Between Centres 1000mm Max Weight 100Kg Max Longitudinal slide: Z axis 1050mm	Diameter Grinding Tolerances 5 µm and <0.4Ra Finishes Depending on Part. Bore Grinding , Chuck Grinding	More Info

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Metrology (Inspection Room)

8 equipment types | 8 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
1	Gleason 475GMS	Gear inspection up to approximately Ø475 mm for spur, helical, worm, worm-wheel, spiral-bevel and hypoid components; closed-loop connection with the Gleason 280G	Analytical gear metrology for profile, lead, pitch, run-out, tooth thickness and topography inspection. Supports cylindrical and bevel gear measurement, inspection reporting, analysis and closed-loop correction of supported Gleason manufacturing processes.	More Info
1	Gleason 300GMS	Gear inspection up to approximately Ø300 mm for spur, helical, worm, worm-wheel, spiral-bevel and hypoid components; closed-loop connection with the Gleason 280G	High-accuracy analytical gear inspection for internal and external gears and splines. Measures profile, lead, pitch, run-out, tooth thickness and gear topography, with inspection analysis and reporting through Gleason metrology software.	More Info
1	Mitutoyo Crysta-Apex S9108 SP25 Scanning Probe	X/Y/Z 900x1000x800	CMM	More Info
1	Mitutoyo Crysta Apex 574CMM TP20 Touch Trigger Probe	X/Y/Z 500x700x400	CMM	More Info
1	ZOLLER smile 420	Tool length measuring range up to approximately 420 mm; optical tool and component measurement with identification-chip support	Professional tool presetting, measuring and cutting-edge inspection outside the CNC machine. Enables repeatable tool length and diameter measurement, visual inspection, tool-data management and transfer of measured offsets to support shorter setup times and reliable machining.	More Info
1	TESA-SCAN optical measuring system	Optical measurement of cylindrical components up to approximately Ø50 mm × 300 mm long	Non-contact optical measurement of turned and ground components. Suitable for rapid inspection of diameters, lengths, radii, angles and profile features, with programmable measurement routines and automatic result recording.	More Info
1	VICIVISION TECHNO M306 optical measuring machine	Measuring field: 300 × Ø60 mm. Maximum loadable size: 300 × Ø120 mm, up to 10 kg.	Non-contact dimensional inspection of cylindrical turned and ground parts, including diameters, lengths, angles, radii, thread features, form and run-out measurements.	More Info
1	VICIVISION TECHNO M918 optical measuring machine	Measuring field: 900 × Ø180 mm. Maximum loadable size: 925 × Ø240 mm, up to 60 kg.	Optical inspection for cylindrical components, supporting static, thread, geometric, form, run-out and DXF comparison measurements.	More Info

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Laser Part Marking

1 equipment types | 2 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
2	Laser part-marking systems	Permanent part-number, batch-code, logo and serial-number marking on suitable aluminium and steel components	In-house traceability marking without mechanical contact. Suitable for permanent alphanumeric codes, logos, data-matrix codes and serialisation, subject to material, finish, marking area and customer specification.	More Info

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Engineering Design & Manufacturing Software

5 equipment types | 12 installed machines / licences

Qty	Machine / System	Installed Capacity	Capability & Features	More Info
1	Gleason GEMS / CAGE / G-AGE	Specialist bevel and hypoid gear design, analysis and manufacturing software	Supports bevel and hypoid gear geometry, tooth-contact analysis, ease-off and flank modifications, loaded tooth-contact analysis, stress evaluation, blank and cutter definition, machine settings and transfer of design data into supported Gleason manufacturing and inspection processes.	More Info
2	KISSsoft gear-design software	Design and rating of spur, helical and bevel gears, worms, worm wheels, splines and associated machine elements	Engineering calculation, sizing and optimisation using recognised gear standards. Supports strength and service-life calculations, microgeometry and contact analysis, efficiency and scuffing assessment, tolerance evaluation, manufacturing data and documented calculation reports.	More Info
5	SOLIDWORKS 3D CAD	3D component and assembly modelling, manufacturing drawings and customer-data preparation	Parametric solid modelling for gears, shafts, housings, tooling and assemblies; 2D production drawings, tolerancing, section views, bills of materials, design revisions and export of common neutral CAD formats for manufacture and customer approval.	More Info
1	SOLIDWORKS Inspection	Automated ballooning of drawings and capture of dimensional inspection characteristics and results	Creates ballooned inspection drawings and industry-standard inspection reports from SOLIDWORKS drawings, PDFs and supported 3D PMI data. Helps extract dimensions and tolerances, record measured values, compare revisions and export inspection documentation to Excel and PDF.	More Info
3	hyperMILL CAD/CAM	CAM programming for CNC turning, mill-turn, 3-axis and simultaneous 5-axis machining, producing machine-specific NC code through validated post-processors	Programming of turning, drilling, 2D, 3D and 5-axis milling operations, including multitasking machines. Provides feature recognition, reusable machining strategies, collision checking, stock tracking and machine simulation to support safe, efficient toolpaths and repeatable CNC production.	More Info

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