

NIJORA

SYSTEM SUPPLIER

Bmo

JOHAN NIJE CEL

TER NAGEDACHTENIS



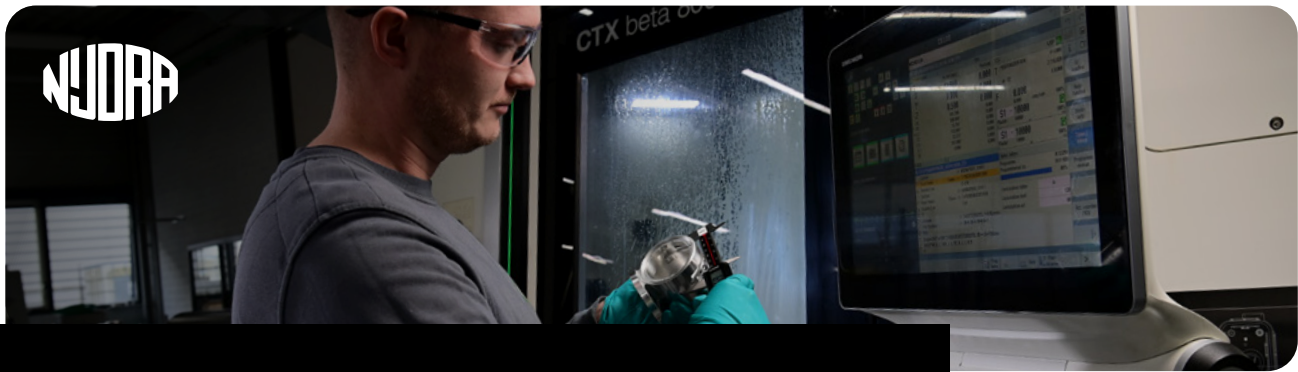
Technical Data





Turning

Okuma LU15M	Max. workpiece length: 600mm Max. workpiece diameter: Ø 240mm Driven tools, C-axis	1x
Okuma LU300M	Turning length approx. 500mm. Bar feed max. Ø 65mm Upper- and lower turret Driven tools, C-axis	1x
Hyundai-Kia SKT 180TTSY	Bar feed max. Ø 65mm Double turret, both with driven tools, one of which has Y-Axis Main- and subspindle both with C-axis and Y-axis	1x
Nakamura Super NTJ	9-axis machine with subspindle, dual turret Y-axis. Swivelling upper turret with driven tools. Bar magazine max. Ø 65mm	1x
Hyundai-Kia SKT 250	Max. Ø 250mm Robot gripper max. weight 35kg Subspindle, short bar magazine, driven tools and C-axis Chuck / Collet; max. Ø 65mm	1x
Equipped with Robojob TURN-ASSIST 250	For small and medium-sized series Driven table for highest capacity in the smallest area For workpieces up to Ø 250mm	
Hyundai-Kia SKT 21LM	Max. Ø 215mm Driven tools Controllable centre support	1x



CNC Turning-Milling combination

DMG CTX beta 1250 TC

Equipped with BMO Infinity
Robot Loading

120 Nm and 200 mm Y-axis Max, Ø 500 mm
6-side machining, 5-axis machine, Subspindle
Automated tool magazine with 80 tools.
Max Ø250 mm

1x

DMG CTX beta 800 TC

120 Nm and 200 mm Y-axis Max, Ø 500 mm
6-side machining, 5-axis machine, Subspindle
Automated tool magazine with 80 tools.
LNS bar magazine pass-through Ø80 mm

1x

DMG CTX beta 800 TC

120 Nm and 200 mm Y-axis Max, Ø 500 mm
6-side machining, 5-axis machine, Subspindle
Automated tool magazine with 80 tools.
LNS bar magazine pass-through Ø100 mm

1x

DMG CLX 450 TC

90 Nm and 200 mm Y-axis Max, Ø 400 mm
6-side machining, 5-axis machine, Subspindle
Automated tool magazine with 60 tools.
Bar magazine pass-through Ø80 mm

1x

CNC Swiss-type lathes

Citizen M32Y

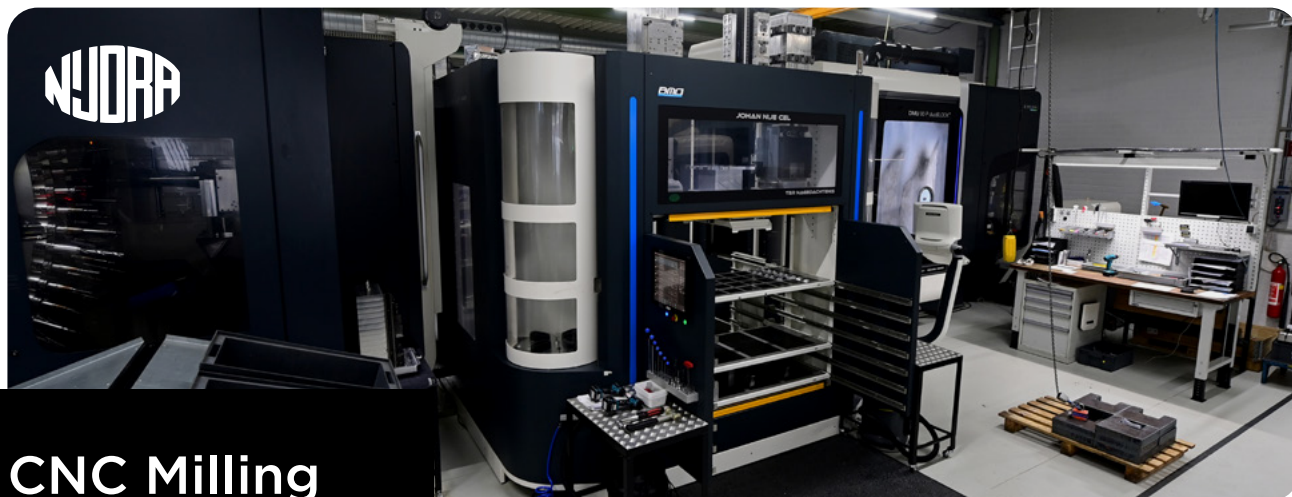
Max. Ø 32mm
13-axis machine
Subspindle
with C-axis behind Subspindle see below
Including Y-axis
Automated material magazine

1x

Citizen M32

Max. Ø 32mm
13-axis machine
Subspindle with C-axis
Automated material magazine

1x



CNC Milling

DMG DMU80p DuoBlock Thermally stable machines for both horizontal and vertical or angled machining, full 5-axis simultaneous operations
Tool changer 287 tools per machine.
Machining range 1050 x 850 x 850mm
HSK-A63 Spindle taper cone cleaning using rotating brushes

Equipped with added
BMO Titanium 180

Extra high docking for 600mm on top of pallet
Double loading station with turntable
38 pallets 400 x 400 x 600 (l x w x h)
Product loading outside the block also round material
7 drawers of 300kg each
Various additions of servo grippers single and double

2x

**DMG DMU 65
monoBLOCK**

Vertical 5-axis machining centre
Tool changer for 120 tools
Workpieces of Ø 850mm and 1.000kg (3-axis: 1.800kg)
Machining range: 650 x 650 x 560mm

Equipped with BMO
Platinum Pt50F

For small, medium-sized and large series
Handling weight up to 50kg
7x robust product drawers
Refilling during operations possible
Variable product height freely dividable drawer system.

2x

**DMG DMU 70
DECKEL MAHO**

Protomachine 5-axis machining centre
Workpieces of Ø 800mm and 350 kg
Machining range: 750 x 600 x 520mm

1x

**DMG DMU 50
3d generation**

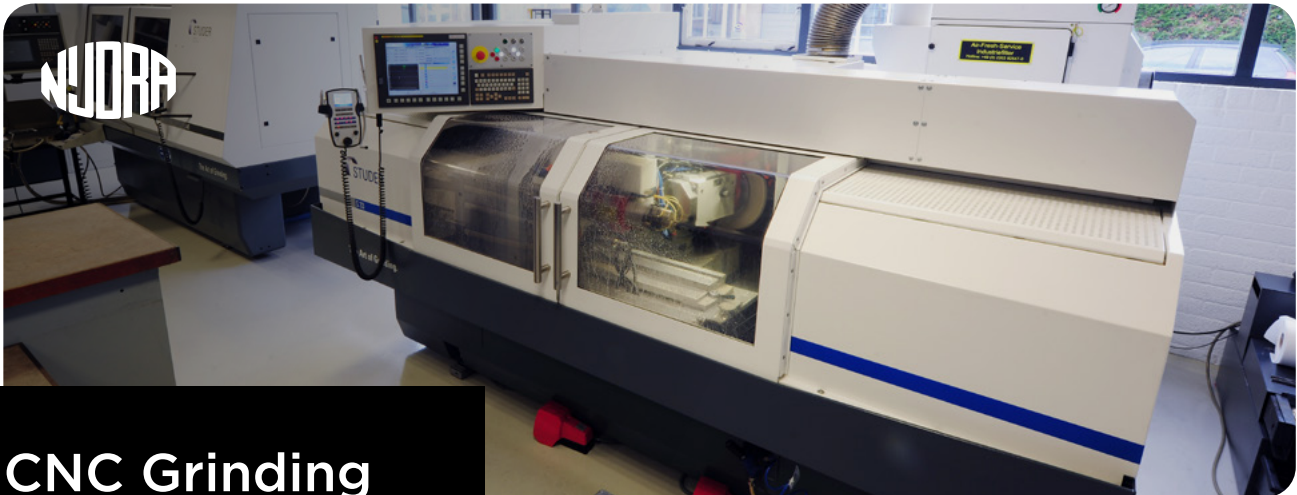
5-axis machining centre
Machining range: 650 x 520 x 475mm

1x

Linked to BMO Platinum 50

DMG CMX 600 V Linked to BMO Platinum 50	Vertical machining centre Machining range: 600 x 560 x 510mm With HSK 63 and 60 tools For small and medium sized series Products up to 274mm Without intermediate cost operator 7x robust product drawers	1x
Hermle C30	Vertical 5-axis machining centre equipped with an automatic pallet changer, magazine for 50 pallets and 175 tools. Robot loading of pallets, maximum weight of 60kg Machining range: 650 x 600 x 500mm	1x
Fanuc Alpha T21	Vertical machining centre with 21 tools Table area: 600 x 350 x 400mm	1x
Okuma MA-400HA	Horizontal machining centre equipped with automatic pallet changer Tool changer for 60 tools Machining range: 460 x 460 x 560mm	1x
DMG DMU 70 Ecoline	Protomachine 5-axis machining centre Workpieces of Ø 800mm and 350 kg Machining range: 750 x 600 x 520mm	1x
DMG DMU 50 Ecoline	Protomachine 5-axis machining centre Workpieces of Ø 630mm and 200kg Machining range: 500 x 450 x 400mm	1x
Hyundai-Kia VX500	Vertical machining centre with 30 tools Range: 1060 x 510 x 635mm	1x



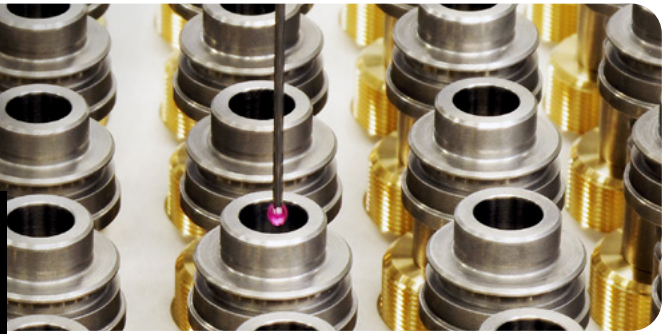


CNC Grinding

Studer S40	CNC Profile cylindrical grinder, external and internal Marposh measuring system Ø 350mm x 1600mm length	1x
Studer S33	CNC Profile cylindrical grinder, external and internal Rotating turret Ø 350mm x 1000mm length	1x
Kellenberger 1000 U	Cylindrical grinder, Ø 350mm	1x
Jung 630 E	CNC Profile surface grinder Table plate 600 x 250mm	1x
Jung JA600 CNC-A	CNC Profile surface grinder Table plate 600 x 300mm	1x
Herminghausen	Centreless grinder up to max. Ø 40mm	1x
Sunnen	Honing machine, semi-automatic From Ø 1,5mm to Ø 96mm Conventional up to Ø 165mm	1x
Pemaamo AR-340	Honing machine From Ø 1,5mm to Ø 70mm	1x
Heninger ZS150	Centre hole grinder From Ø 2mm to Ø 110mm	1x



Measurement room



Mitutoyo	Measuring machine Crysta Apex V9168 Anti-vibration, extra change rack, Probe cleaning Styli Cleaner	1,7 Mμ
Mitutoyo	Measuring machine Crysta Apex 7106 Anti-vibration, extra change rack, Probe cleaning Styli Cleaner	1,7 Mμ
Mitutoyo	Measuring machine Crysta Apex C 544	1,9 Mμ
Mitutoyo	Measuring machine Euro Crysta 7106 Premier	2,5 Mμ
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Mitutoyo	Measuring machine Euro Apex C-A-544 (2x)	2,9 Mμ
Mahr / Mitutoyo	Altimeter, multiple	2 Mμ
Ulm	Length measuring bench	1 Mμ
Mitutoyo	Profile Projector	5 Mμ
Mitutoyo	Roundness gauge RA2200AH	0,07 Mμ
Mahr	Air measurement	1 Mμ
Mahr	Roughness measurement	1 Mμ
Mitutoyo	Hardness tester	3 HRC
T&S	Contouromatic CV120	1,5 Mμ
T&S	Contouromatic CV120 granite	1,5 Mμ



Other

Distributed across our 3 locations:

Ultrasonic system	AMA cleaning plant CS 300V
3D printer	Ultimaker, range 200mm x 200mm x 200mm Material type PLA / ABS
Laser engraving machine	Tastelaser Taaste FB20-V2
Helium leak tester	Adixen ASM 142
Cleanroom	ISO class 7, including Flowbench ISO class 6
Software	
MICAT	CAD Measurement program
ESPIRIT	CAD CAM Turning-milling combinations
CAM software	Hypermill up to 5-axis simultaneous
CAD Software	SolidWorks, Solid Modeling, reads IGES, STEP and DXF-files SolidWorks Inspection



SYSTEM SUPPLIER

Co-engineering | Production | Assembly

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