

NIJORA

SYSTEM SUPPLIER

Bmo

JOHAN NIJE CEL

TER NABEDACHTENIS



Overview Machine Park





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 with Y-axis Main and
sub-spindle, both with C-axis and Y-axis

1x

Hyundai-Kia SKT 250

Equipped with Robojob
TURNASSIST 250

Max. Ø 250mm. Robot gripper max. weight 35kg.
Sub-spindle, short bar magazine, driven tools and
C-axis. Chuck / collet; max. Ø 65mm

For small and medium-sized series. Driven table
for maximum capacity in the smallest footprint.
For workpieces up to Ø 250mm

1x

Hyundai-Kia SKT 21LM

Max. Ø 215mm. Driven tools Controllable steady
rest

1x



CNC turn-mill combination

DMG CTX beta 1250 TC

Equipped with BMO Infinity robot loading, 180kg

120 Nm, Y-axis max, Ø 350mm 6-sided machining, 5-axis machine, transfer spindle with measuring probe Automated tool magazine with 80 tools, max. Ø 250mm

1x

DMG CTX beta 800 TC (1)

120 Nm, Y-axis max. 400mm, Ø 350mm 6-sided machining, 5-axis machine, transfer spindle Automated tool magazine with 80 tools LNS bar magazine, feed-through Ø 80mm

1x

DMG CTX beta 800 TC (2)

120 Nm, Y-axis max. 400mm, Ø 350mm 6-sided machining, 5-axis machine, transfer spindle Automated tool magazine with 80 tools LNS bar magazine, feed-through Ø 100mm

1x

DMG CLX 450 TC

90 Nm, Y-axis max. 350mm, Ø 350mm 6-sided machining, 5-axis machine, transfer spindle Automated tool magazine with 60 tools Bar magazine, feed-through Ø 80mm

1x

Nakamura-Tome JX-200**Fanuc 31i-B5 Plus, NT Smart X**

Turn-mill combination, 9-axis (main and sub-spindle, lower turret, driven milling spindle), transfer spindle. Distance between centers 1,250mm, max. turning length 1,058mm

Main spindle Ø65mm, 4,500 rpm; sub-spindle Ø65mm, 6,000 rpm, both with C-axis. Driven milling spindle Capto C6, 80 tools (max. 120), 12,000 rpm. Turret 12 stations (max. 24)

Renishaw RMP60 product measurement, Renishaw NC4 laser tool setter. Gibas 1000L coolant tank 2x 70bar

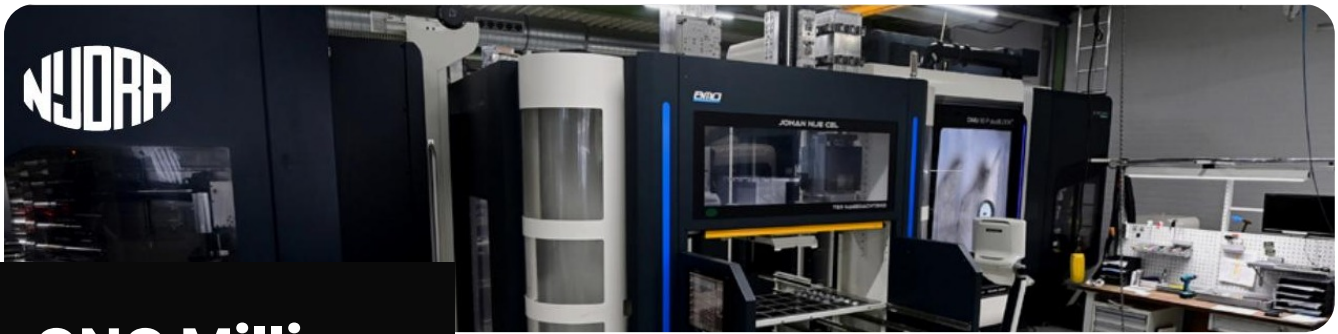
1x

CNC sliding-head lathes

Citizen L32-X

Max. Ø 32mm. With LFV (Low Frequency Vibration) – for chip breaking with long-chipping material Iscar quick-change system

1x



CNC Milling

DMG DMU80p DuoBlock

Equipped with BMO Titanium 225, robot product and pallet loading

Thermally stable machine for horizontal, vertical or angled machining, fully 5-axis simultaneous

Tool changer, 270 tools per machine. Machining range 1050 x 850 x 850mm

HSK-A63 spindle, taper cone cleaning using rotating brushes

Extra-high docking for 600mm on top of pallet, double load station with rotary platform, 38 pallets 400x400x600mm, 7 drawers of 300kg each, servo grippers single/double

2x

DMG DMU 65 monoBLOCK

Equipped with BMO Platinum Pt50F

Vertical 5-axis machining centre. Tool changer for 120 tools Workpieces up to Ø 850mm and 1,000kg (3-axis: 1,800kg). Machining range 650 x 650 x 560mm

For small, medium and large series, handling weight up to 50kg, 7x robust product drawers, refilling during operation possible, variable product height

2x

DMG DMU 70 DECKEL MAHO

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

1x

DMG DMU 50 3d generation

Coupled to BMO Platinum 50

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

1x

DMG CMX 600 V**Coupled to BMO Platinum 50**

Vertical machining centre. Machining range 600 x 560 x 510mm With HSK 63 and 60 tools, 256 tool positions

For small and medium-sized series, products up to 274mm. Without operator intervention, 7x robust product drawers

Product measuring probe; Prode automation, spindle speed 24,000 r

1x**Fanuc Alpha T21**

Vertical machining centre with 21 tools Table range 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 up to Ø 800mm and 350kg Machining range: 750 x 600 x 520mm

1x

DMG DMU 50 Ecoline	Protomachine 5-axis machining centre Workpieces up to 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
Fehlmann Versa 745	5-axis machining centre. HSK-A63, 256 tool positions, product measuring probe Prode automation, spindle speed 24,000 rpm. 40 pallets, Erowa PC210 clamping system	1x





CNC Grinding

Studer S33	CNC profile cylindrical grinding machine, external and internal Rotating turret Ø 350mm x 1000mm long	1x
Kellenberger 1000 U	Cylindrical grinding machine, Ø 350mm	1x
Delta	CNC profile surface grinding machine Table plate 700 x 400mm	1x
Herminghausen	Centreless grinding machine 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 grinding machine From Ø 2mm to Ø 110mm	1x
Laser marking	Trumark / Trumpf, series 5000	1x



Measurement room

Mitutoyo

Measuring machine Crysta Apex V9168
Anti-vibration, extra exchange rack, probe
cleaning Styli Cleaner

1,7 Mμ

Mitutoyo

Measuring machine Crysta Apex 7106
Anti-vibration, extra exchange rack, probe
cleaning Style Cleaner

1,7 Mμ

Mitutoyo

Measuring machine Crysta Apex
C 544

1,9 Mμ

Mitutoyo

Measuring machine Euro Crysta 7106
Premier

2,5 Mμ

Mitutoyo

Measuring machine Crysta
Apex 7106

2,5 Mμ

Mitutoyo

Measuring machine Euro Apex
C-A-544 (2x)

2,9 Mμ

Mahr / Mitutoyo

Height gauge, multiple

2 Mμ

Ulm

Length measuring
bench

1 Mμ

Mitutoyo	Profile projector	5 Mμ
Mitutoyo	Rondheidsmeter RA2200AH	0,07 Mμ
Mahr	Air gauging + Perthen / Perthometer	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

Cleaning installation CS 300V by AMA

Expanded with vacuum washing machine and modernised (alcohol) system: Dowclene 1601

3D printer

Ultimaker, working 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 measuring program

ESPIRIT

CAD CAM turn-mill combinations

CAM software

Hypermill up to 5-axis simultaneous (hyperMILL / hyperCAD-S, OPEN MIND), incl. 3D probing module for Fehlmann Versa 745

CAD software

SolidWorks, Solid Modeling, importing of IGES, STEP and DXF files, among others SolidWorks Inspection



SYSTEM SUPPLIER

co-engineering | production | assembly

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