

# TECHNOLOGY + INNOVATION

Our ongoing investment in our people, emerging technologies, and equipment puts us at the forefront of the industry.

## YASKAWA MOTOMAN

### ARCWORLD 2000

AR3120 Robot arm 120" (3 m) reach

#### MHT 1655

Payload Capacity: 6,613 lb (3,000 kg)

Max part length: 13' (4 m)

Max part diameter: 6' 2" (1,900 mm)

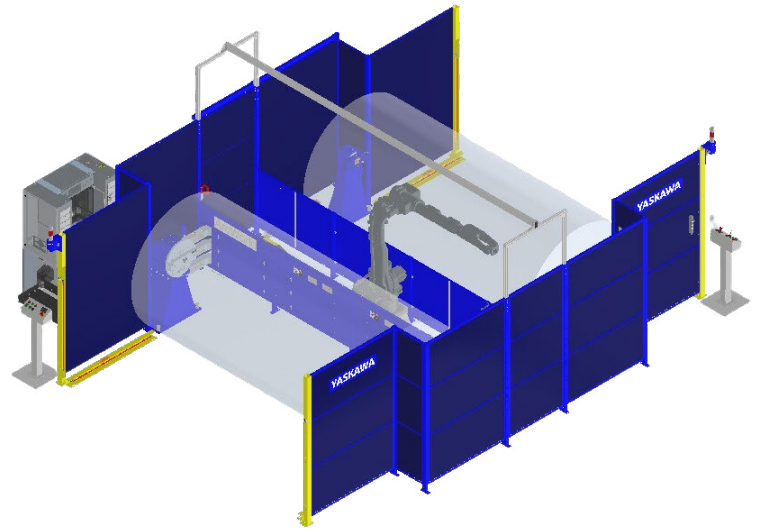
Dual positioners for high production environment

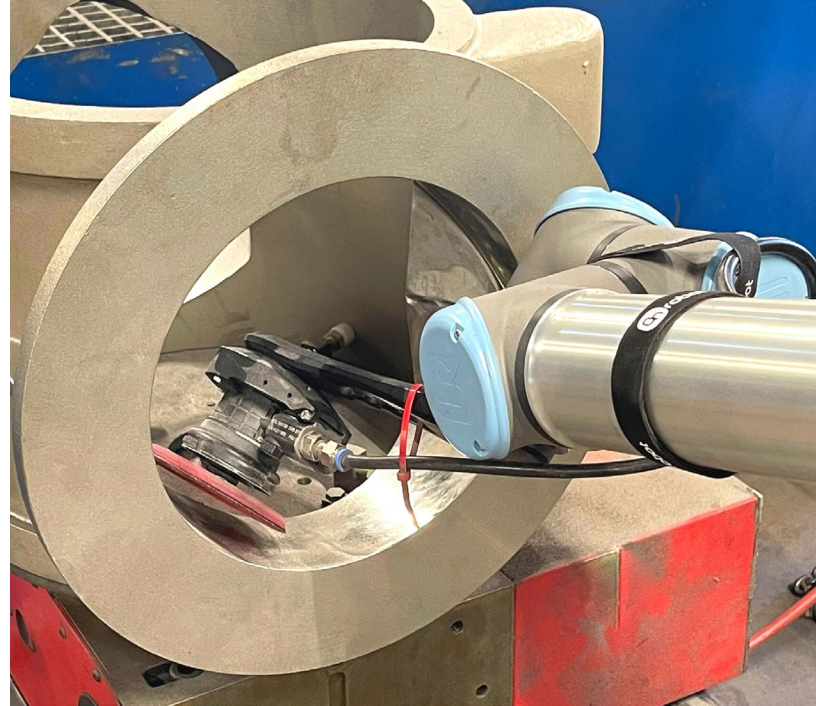
#### MILLER AUTO CONTINUUM 500

Weldable metals: Stainless steel, steel

#### MOTOSIM OFFLINE PROGRAMMING SOFTWARE

3DS	HSF	Solidworks	PLY
Catia V5	IGES	Inventor	STEP
DXF	SAT	Parasolid	RWX
HMF	STL	ProE/Creo	





## PEDDINGHAUS ROBTIC PEDDIASSEMBLER

Profile Capacity: 16" x 30" x 60',
Max weight per profile: 11,000 lb
Assembles entire beams, tubes and channels
Integrated turning and laser scanning

## UNIVERSAL ROBOTS UR10E

6-axis versatile robotic arm
Reach: 51.2 in
Payload capacity: 27.55 lb

**With automated machining you can increase production efficiency, saving time and money.**

## OTC ECO-ARC FD

FD-V25 Robot arm 67" (1.7 m) reach

<b>A2PF-500</b>
Payload capacity: 1,101 lb (499 kg) on center
Max part diameter: 5' (1.5 m)
Dual positioners for high production environment

<b>WELBEE P500L</b>
Weldable metals: Stainless steel, Steel and Aluminum

<b>MOTOSIM OFFLINE PROGRAMMING SOFTWARE</b>		
STEP	DXF	Solidworks



# MACHINE LINE CARD

VERTICAL TURNING LATHES	CAPABILITIES/CAPACITY	X-AXIS	Y-AXIS	Z-AXIS	MILL SPINDLE (RPM)
Okuma VTM-2000YB	5-Axis, 23,000 lb, 78" Diameter	96"	61"	53"	10,000
Okuma VTM-1200YB	5-Axis, 6,000 lb, 48" Diameter	50"	48"	42.5"	10,000
Gray VBM	144" Table	168"	-	96"	100
Bullard VBM	5 Station Tool Changer	66"	-	64"	-
DN Solutions VTR 1620M	Vertical Turning Center with Live Tooling	78"	-	70"	3,000

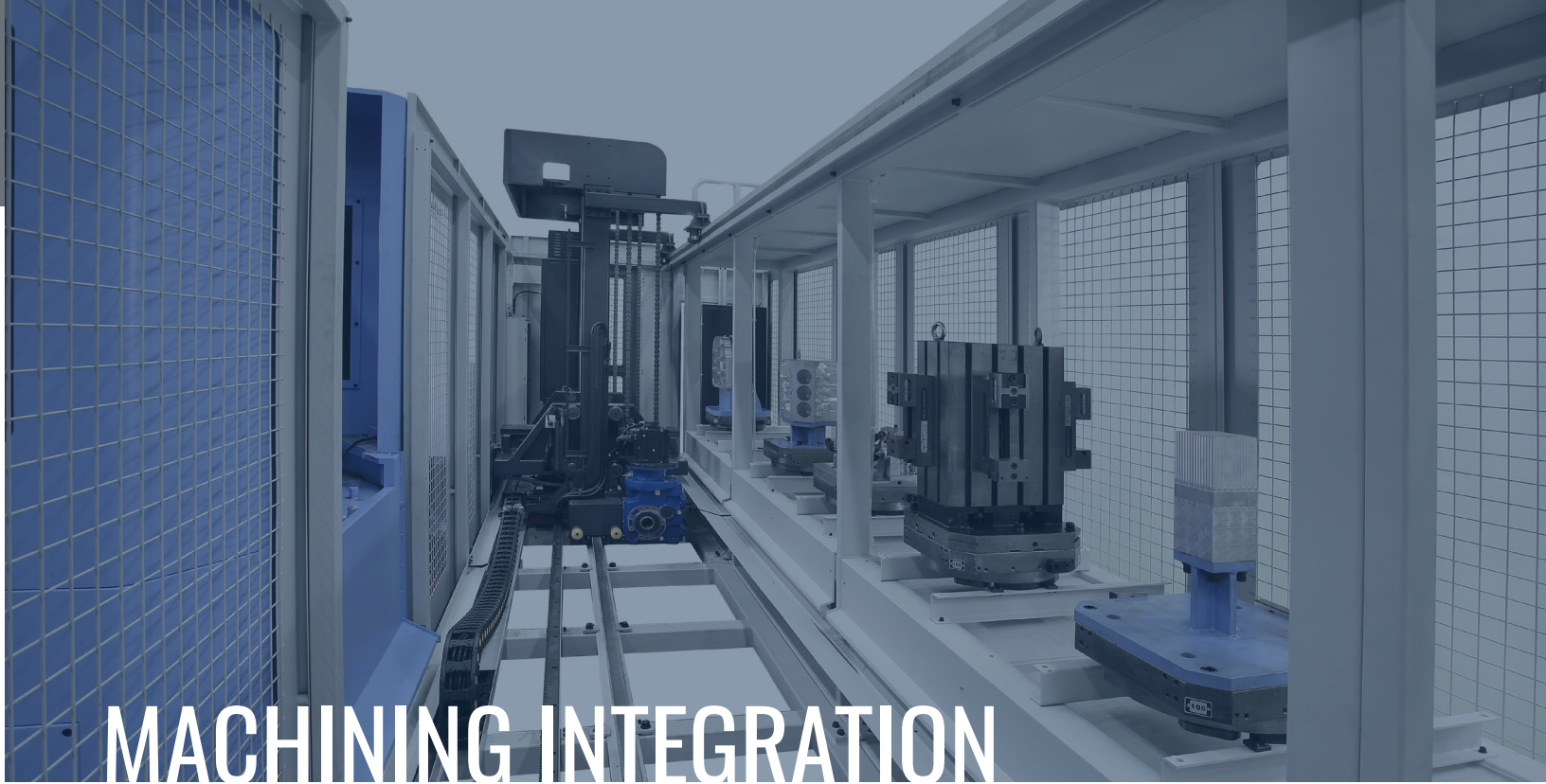
HORIZONTAL LATHES	CAPABILITIES/CAPACITY	X-AXIS	Y-AXIS	Z-AXIS	MILL SPINDLE (RPM)
Hwacheon Hi-Tech 850 BB XL	Full C-Axis; Radial & Axial Live Tooling	36"	8.5"	196"	2,500
Haas SL-30	Full C-Axis; Radial & Axial Live Tooling	22"	-	34"	2,500
DN Solutions Puma 3100LSY	Full C-Axis; Sub Spindle, Radial & Axial Live Tooling	16.5"	5"	50"	5,000

VERTICAL MILLS	CAPABILITIES/CAPACITY	X-AXIS	Y-AXIS	Z-AXIS	MILL SPINDLE (RPM)
DN Solutions DNM750L/50 II	4,000 lb Table Load	85"	30"	30"	10,000
Kia VX500	1,800 lb Table Load	40"	20"	25"	10,000
Haas Super VF 4	Rotary 4th Axis	50"	20"	25"	12,000
DN Solutions DNM750/50 II	3,200 lb Table Capacity	65"	30"	30"	8,000

HORIZONTAL MILLS	CAPABILITIES/CAPACITY	X-AXIS	Y-AXIS	Z-AXIS	MILL SPINDLE (RPM)
DN Solutions DHF 8000	Simultaneous 5-Axis; Integrated 24 Station Linear Pallet System	57"	47"	59"	15,000
DN Solutions NHM 8000	Full B-Axis; Integrated 24 Station Linear Pallet System	55"	41"	47"	8,000
Matsuura H Plus-405	Full B-Axis; Twin Pallet Changer	24"	24"	24"	12,000
Matsuura H Plus-300	Full B-Axis; Twin Pallet Changer	18"	18"	18"	12,000
Lucas 642 B288	#6 Bore Mill; 150,000 lb Table	341"	96"	48"	840
RE-TOS W100A	13,000 lb Table Capacity	63"	44"	48"	1,200

DOUBLE COLUMN MILLS	CAPABILITIES/CAPACITY	X-AXIS	Y-AXIS	Z-AXIS	MILL SPINDLE (RPM)
DN Solutions DBM 2540	Rotary 90 Degree Head for Five Face Machining	167"	118"	43"	Vertical: 8,000; R Angle: 6,000
Nicolas Correa 5-Axis FP30/40	Full B & C Axis; Articulating Head	137"	78"	39"	4,000

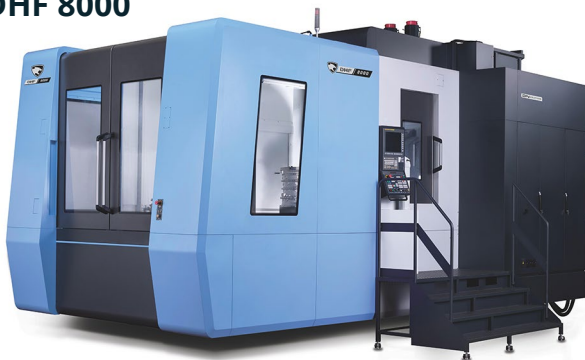
GRINDERS	CAPABILITIES/CAPACITY	X-AXIS	Y-AXIS	Z-AXIS
Okamoto Surface Grinder	High Volume Grinder	40"	20"	18"
Thompson Surface Grinder	Large Capacity	36"	96"	48"



# MACHINING INTEGRATION

Our DN Solutions LPS 8000 features 24 pallet stations interfaced with two horizontal mills that can run seven days per week to meet high-capacity production needs.

**DN-SOLUTIONS  
DHF 8000**



**DN-SOLUTIONS  
NHM 8000**



# QUALITY ASSURANCE

	CAPABILITIES/CAPACITY	VOLUMETRIC ACCURACY
Hexagon Romer Arm	6-Axis; 2 m Measuring Range	30 $\mu\text{m}$
Hexagon Leica Absolute Tracker	79 m Measuring Range	up to 32 $\mu\text{m}$ & 96 $\mu\text{m}$
Sheffield Endeavor CMM	Temperature Tolerant; Vibration Resistant	up to 8 $\mu\text{m}$ & 2.5 $\mu\text{m}$