



**WICAM**®

NC intelligence

**PN4000**



**WICAM**®

ERP Controlled

- Nesting
- Punching
- Cutting
- Shearing
- Bending



2 MB 3D-TECHNIK A. KREBECK A. RAYMOND ABEL ABELE ABS ABT ABW AC-  
CENT ACHTERKERKE ACI2B ADK AEQUATOR AICHINGER AIRBORNE AL-  
AMEEN ALCATEL ALESCON ALFRED BECK ALPHATEC ALUMERO ANDREAS  
WESTHOLT APFEL AREVA ARM-A-TEC ARNOLD ASCOBLOC ASS ASTOR ATEX  
ATF ATK ATZLINGER AVERMANN AYDINLAR B&H BACHMAYER BAIYUN BA-  
THON BAXI BECKER BECKER+STÜCHER BEDCO BEER BEGA BEL TRANSFO  
BELIMED BERDEL BERICO BERRY BIBAUT BICKEL BIGLA BILLIAT BLECH  
TEAM BLECHDESIGN BLECHINGER BLECHTECH BLOKLAND BLT BOAMAX  
BÖHLER MILLER BOLLIGER BOMBARDIER BONBADENER BONGARD BOSCH  
BOURGEOIS BRINK BRÖTJE BRUDER KELLER BRUHN BSH BUNSE BUSALT  
BUZ C&F C.I.E.C. CAHILL CAMIVA CAPRON CARFAR CARRE CARRIER CARY  
CEMA CHARVET CHEMPRO CHRISTOPH LENFERS CIAT CLAAS CLAUX CLEAN-  
TEK CLEMENS CLESTRA CLIPSOL COLIDON COLLABORATIVE STEEL COMBI-  
TECH COMECA CONTAREX CONTECH COP COPIN COSKUN CROMVOIRTSE  
CROWLEY CTIM CUSTOM DIAMOND CUTLOG DAEJONG DAHUA DAIEI DALIAN  
DALQUEN DAMMBACHER DE SMEDT DEBA DECTRON DEKORA DELTION  
DEMMELE DEMMLER DENIS DERMBACH DETHLEFFS DIEKMANN DIEPSTRA  
DIETER SCHÜTTE DONG SHIN DONGSHAN DONGYUAN DRIESSEN DROBI-  
NEX DRUMMOND DZ LICHT E&I E. DOLD EBENER ECO ECOENGINEERING-96  
ECONOSTO EDELSTAHL-LASER EDELSTAHL-MECHANIK EGGERSMANN  
EGU-METALL EHLENBRÖKER EIRENSCHMALZ EISENBACH EISENMANN  
EKSPLO ELEKTROSILA EMB EMCO EMS ENDOTECH ERA ERB ERWIN RUF ES-  
SELMANN EST-DECOUPE ETUVES F&E F&S F+F F+G FABRICATED PRO-  
DUCTS FABRI-CATER FALCON FIRES FANTIN FEIZHOU FENWICK LINDE FER  
& METAL FILLON FIMAB FIMOPART FISCHER FLASH FLORA FONTYS FOR-  
METALL FORSTER FRIGINOX FRONIUS FRYKA FUCHS FUJITEC G&R GASTRO-  
TEAM GAULT GEA GEBR. BLUM GEBR. FRINDT GEBR. MEIER GEBR.  
NEUSCHWANDER GEBR. WILLACH GEISA GENSTEEL GICOM GIE SERUTOL  
GINO GLASER GMM GODATEC GOHL GOLDSAAT GÖTZ GRAEPEL-STUV  
GRAFFE GRAU GREBENAUER GREE GRILL GROUPE GRUAU SA GRP4 GS ME-  
TAAL GUILLET GUNKEL GÜRTNER HADOCUT HAGO HAGOLA HAHN HAKAMA  
HARR HASE HAST HAUGG HCL HDG HEBER HERSA HGGS HGH HIESELAAR  
HITACHI HOBART HODAPP HOEDTKE HOEKMAN HÖFER HOISTTEC HOKU-  
RIKU HÖRMANN HOVA HOVALWERK HOVI HT LABOR HU CHANG HUA AU HUA  
KAI HUBER HUBER+RANNER HUBL HÜNTELMANN HUPFER HUPFER HUSS-  
MANN IBF IBS IDEAL IEL IGUSTA IMPERIAL INCOTE INDUKANT INGENIA

INNO-TEC INOXAL ISECO ISOTRANSFO ITEQ BOLTJES JETTO JIANAN JIEMAI  
JINGLIN JINGYA JJP K&B KAISER KAKUSEI KALDERA KAMPRI KANEDA KARL  
MAYER KARL MILLER KARL RASCHBACHER KARLSHAUSEN KAUFMANN KA-  
WAMURA KEENAN KEINHORST KEIZERS KEMI KENSCH KEPSER KESSE-  
BÖHMER KHS KLAR SCHILDER KLB KLEUSBERG KNOLL KOLB KÖNIG  
METALL KONVEKTA KOPP KOUGYOU KOYO KANKI KRAFT KRAYEM KRÖCKEL  
KRUMBACH KUIPERS KVADER KYOJI L.C. CORP LA TIV LAG LANDWEHR LA-  
SERFORM LASER-N LASERUMRISS LAUDE LEDERMANN LEGRAND LEH-  
MANN LEHNER LEIBIGER LELYSTAD LEMMEN LETEL LEUTENEGGER + FREI  
LFT LHT LIDER LIEBHERR LINCZ LINDL LINGHAI LISTA LOCH LOHBERGER  
LOHMEIER LOKICOUPE LONGGONG LONON LOSBERGER LST LTF LUDWIG LU-  
QIAO M.C.I. M.S.AUFZÜGE M3R MAGNIN MAJA MAJEK MAOHUA MARBORÉ  
MARQUARDT+SCHAUPP MATYSSEK MAUFAY MAYER MAYR MB MBO MCM  
MEDIKOMP MEIKO MEISER MEISSEL MELLER MERA GMBH MERTA META  
METAGRO METAL J METAL MOBIL METALLSCHNEIDER METALLTEC METAL-  
PES METROHM METZEN MEZ MGR MICROJET MIELE MIF MP MPT MTH MTK  
MUBO MÜLLER MURATEC MURPHY MÜWE MVB N&S NAKAMOTO NAKANO  
NESTRO NEV NEXANS NICK NIEMEYER NIKITSCHER NILLE NOLTING NOR-  
MANDIN NOWIJ NTS NU-AIR NUMBERGER OEHLER OHMS OLSBERG  
OPHARDT ORTNER ORWEKO OSTHAUS+BECKERT OTIMA OTIS OTTO PAL-  
FINGER PANHUBER PEGRAREZ PENTAIR PEPPING PESCHKE+KAINZ PET-  
KUS PFEUFFER PHILIPPE PHÖNIX PIMSTAL PK PKT PLIMETAL PORTAFEU  
PROFIKA-M PROMETALL PROMLASER PROTEC PS LASER PSW QINGADO RÄ-  
DISCH RAFF&GRUND RASTR-TECNOLOGIJA RDK RECARO REEB REHM  
RENTSCHLER RENZENBRINK REPRO REVICON REX RIDI RIEBER RIEDL RIKA  
RILLING RIMETAAL RIPPERT RITTAL ROBATHERM ROBEL ROHDE&SCHWARZ  
ROLAND MEIER ROLF BENZ ROLTEX ROSINOX RUCH RÜTHER RUTHMANN  
RUWEL S&D SABLUX SACKL SACMI SAE SANYO SAPRATIN SAREL SAVIME  
SCHAEFFLER SCHEFFER SCHEIBLE SCHILLING SCHINDLER SCHLETTER  
SCHMEES SCHMID SCHNEIDAU SCHNEIDER SCHOLTE SCHRAG SCHROFF  
SCHUHMACHER SCHULZ SCHÜTTLER SCHWÖRER SCOTSMAN SEDOTEC SE-  
GEREN SEISAKUSHO SEM SENN SERDEM SERVE SFERA 21 SHAOXING SID-  
HEAN SIEDLE SIEMENS SIEPE SIMON SIVAR SLC SMB SMEH SMP SMTL  
SOCOMEK SOLIMEKA SOLMSER SOMETAL SORGO SPANWALL SPECICON  
SRF SSI STAHL DESIGN STAHLKONTOR STARTEC STEELCASE STELAND  
STEMA STEMAR STERIS STETOR STÖHR STOIBER STOREBEST STROISTAL





## CAD/CAM-Software and service

PN4000 is a CAD/CAM/nesting system for the PPS/ERP-controlled programming of CNC cutting and punching machines of all types. The wide range of integrated modules and interfaces enable all kinds of manufacturing, from flexible job shops to a fully automated industrial process chain.

PNControl controls and monitors machine utilization and production performance. The PNCleanUp module colour-codes the components, facilitating the clean-up of cut parts.

PNWebApp ([web.wicam.com](http://web.wicam.com)) is an online tool for pricing and processing sheet metal parts as well as for converting CAD data and NC texts to other formats.

Our project managers will sit down with you to discuss your requirements, assemble the necessary modules and calculate the specific cost of development and adaptation.

Our service team provides installation, implementation, basic training and production support for a smooth production transition.

Thanks to our helpline and workshops, you benefit from a maximum return on investment and from our continued research and development, guaranteeing the stable performance of your production day after day.



Société Wicam GmbH à Pfinztal-Söllingen

### Product

- PN4000 - 2D design with geometry import and processing
- PN4000 - NC punching, laser cutting, shearing, bending
- PN4000 - NC variant for individual parts and assemblies
- PN4000 - ERP link with order transfer and confirmation
- PN4000 - NC nesting and job processing
- PNControl - Production control
- PNCleanUp - Graphic clearing
- PNWebApp - Calculation
- PNWebApp - CAD converter
- PNWebApp - NC converter
- PNWebApp - Unfolding
- PNWebApp - Parametric
- PNBend - 3D processing, design, and bending simulation and bending machine programming

### Service

- Analysis of existing production processes - Development of technical specifications
- Installation and commissioning of software application in the company network
- Company-specific software development - Training of employees/users on-site - Production support and optimization - Multilingual helpline
- Development of global group-wide solutions - Direct CAD/CAM data exchange within the corporate network
- Updates and assistance via online support function



### WiCAM PN4000 Punch

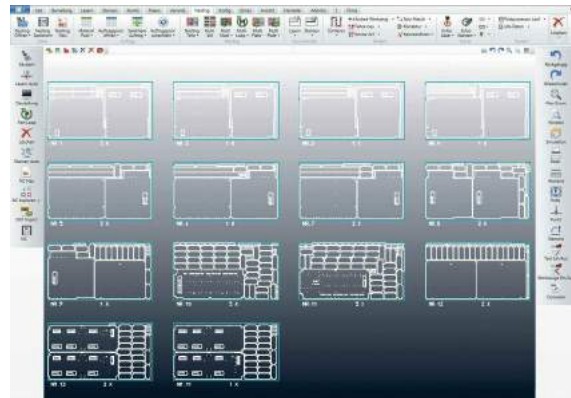
„PN4000 Punch“ is designed to automate the Programming process of CNC Punch Machines. This Module has the most comprehensive and powerful programming techniques that are available today. PN4000 provides the user with functions that allow them to build complex programs faster and easier. An intelligent LEARN function remembers specific programming techniques in conjunction with Special Tool Recognition, Common Line Cutting and the required Loading and Unloading Cycles.

### PN4000 Nesting for Punch and Shear

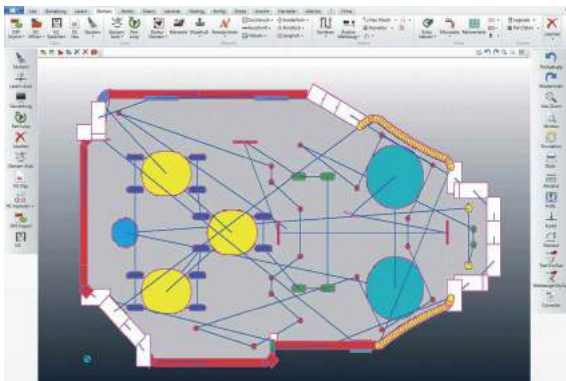
Best material utilisation with Safe-Processing is crucial in any modern and profitable fabrication facility. With the Nesting Strategies of WiCAM a new level of Automation can be achieved. Common Cuts between parts will be created and Disposal of each individual part (via Lift / Chute etc) are all automatically produced. Tool Sorting and Tool Path Optimization including Repositioning are processed automatically. Whether Punching or Shearing the Nests are handled fully automatically.

### PN4000 Automatic Functions

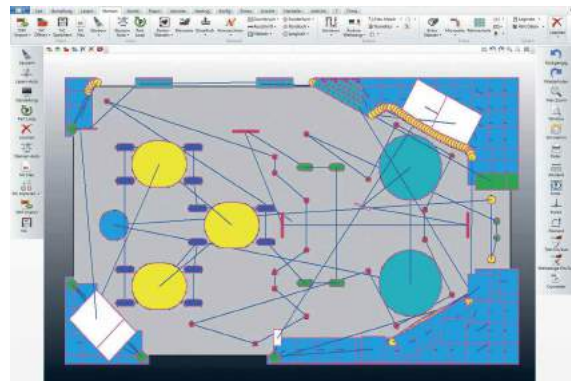
- Processing of any Internal and Outside contours
- Preparation of Punching for Part Disposal via Chute or Lift
- Parametric for any Geometry with Tooling
- Lift with Common Cuts for Loading and Unloading
- Recognition of Cluster and Form Tools
- Repositioning, Turning and Rotation of sheets
- Nesting of any Geometric Shape
- Tool Sequence and Path Optimization



Rectangle Nesting and Common Cuts



Contour-Based Processing



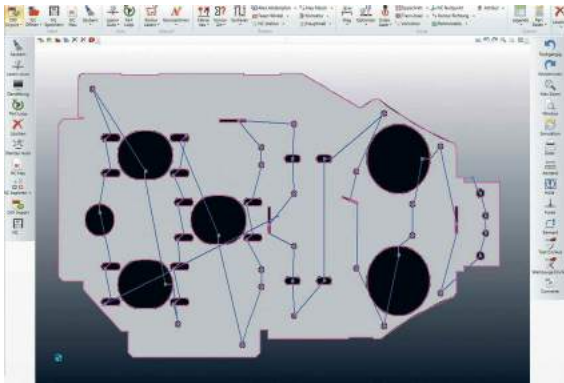
Cover-Area Complete Processing



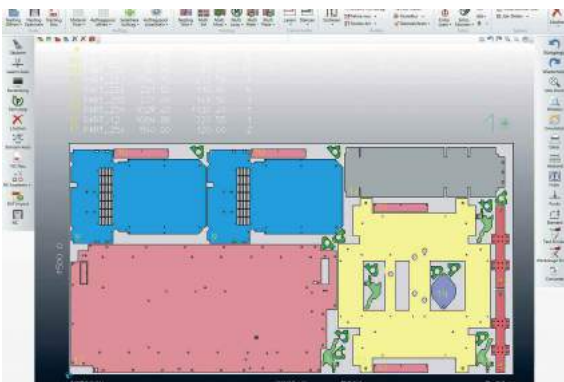
### WiCAM PN4000 Laser and Profiling

„PN4000 Laser and Profiling“ was specifically developed to Automate the Programming of Laser, Plasma, Oxyfuel and Waterjet machines. This Module has the most comprehensive and powerful programming techniques that are available today, the intelligent algorithms finding the optimal cuttings paths . PN4000 has special Technology Tables where the parameters relating to all material types and thickness are stored. It recognizes any complex geometry and works the part precisely with the preferred technology from the data in the Table

Contour Lead-In and Lead-Out, Bridges, Webs, Dimples, Evaporation and Corner Reductions are complicated technologies that are created automatically by the system. CAD attributes, such as Color Recognition, Line Types and Text processing of features on a Part for Engraving are taken into account. When required a free area on the part is located and text for Part Name and Order Information is automatically Engraved or Label position identified. Machines with 5-Axis for Chamfering and Dynamic Angular Cutting is handled fully automatically.



Laser Processed Part



True Shape Nesting

### PN4000 Nesting for Laser and Profiling

„PN4000 Nesting“ offer unique and powerful functions for the Nesting of Complex Parts on any Geometric shaped Blanks. Resulting in Maximum Material utilisation possible. This is guaranteed with – Comon Cuts- the distance between parts is reduced to the diameter of the cutting beam. The Material Utilisation is dramatically increased with a big reduction in the production time with less cutting. Therefore Sheet Skeletons Parts and Common Cut Parts can be combined on any Nest and any Order.

„PN4000 MRP-Link“ is an intelligent function that allows for the transfer of data from an ERP / MRP System. Any pending orders are transferred to PN4000 by Part Name, Date, Order Number, Confirmation Number, and any other Parameter of the ERP / MRP System and fed to the Automated Nesting. With this transfer of data, the Orders can be checked at the same time, if a part geometry is not the Latest Version or Changes have been made the Newest geometry is automatically retrieved from the CAD system.

- Power-Nesting with Beam Diameter and Distance
- Nesting of any Complex Part
- Nesting of Parts in Group
- Automatic Nesting with additional Torches
- Optimised cutting of Coils
- Nesting using Plate Remains
- Common Line Cutting
- Administration of Plate Remains
- Removal of Parts with Lift



Nesting with Common Cuts





**WiCAM PN4000 Total Automation**

The agreed goal of the Sheet Metal industry is the „Automation of the complete Sheet Metal Process“ Especially in Europe this industrial innovation is the driving force behind global success. These revolutionary ideas are to plan and implement a vision with total commitment. This is precisely what has driven WiCAM for the past 20 years as specialists in this area.

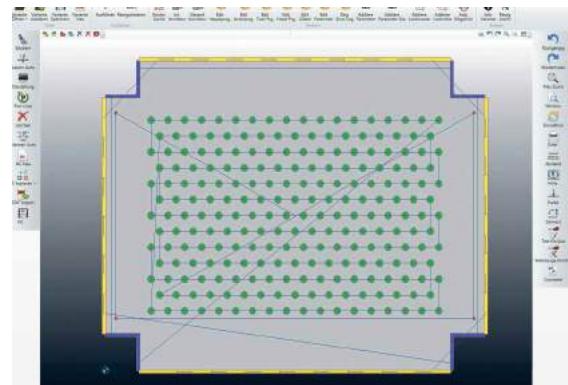
„PN4000 Total Automation“ guarantees to increase overall Productivity, Reduce Production Costs and the Costs for the flow of information within the company. It is a complete closed loop from Order Entry through Planning and Production to the Feedback for the Invoice for a single Part or complete Assembly.

This is achieved through analysis of the customers internal processes and identifying with the Customer the Software engineering „Links“ between the Order Management and Manufacturing. The aim is to implement the processes with the highest possible degree of Automation.

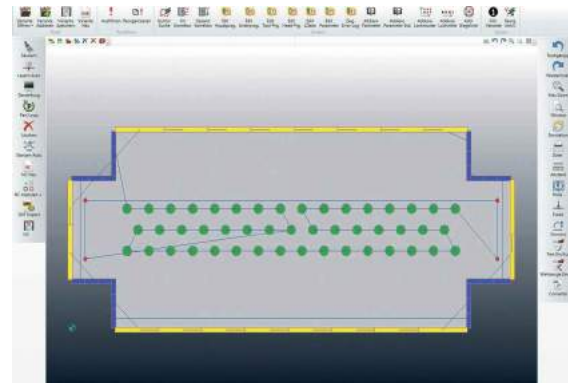
**PN4000 Parametric and Variant Technology**

PN4000 has extremely powerful parametric capabilities that create the Part Geometries and addition of all the necessary tools fully automatically. For example all of the parts in an Assembly will have a predefined parametric which are modified and changed in seconds and nested automatically. The parameters can be taken directly from the ERP System or from an Excel spreadsheet. This is a Fascinating Profitable Process!

Production Documentation Online



Parametric 1



Parametric 2





# PNControl / PNCleanup



## WiCAM PNControl

PNControl is an application for detailed scheduling, order control and monitoring of production and production schedules.

PN4000 delivers the generated nesting jobs (and any related NC data) to the PNControl console. Using PN4000, NC codes can be created for several machines at once via automation mechanisms such as Multi-Loop or PN Engine. Administration is quick and easy thanks to a logical user interface and a drag-and-drop function. The individual nesting jobs are assigned to the respective machines and released.

PNControl visualizes which order is produced on which machine. Provided the machines have the appropriate feedback functions, all current machine data (e.g., machine status, error messages, interruptions) can also be displayed online via PNControl. This gives you constant insight into machine capacity utilization and work progress and allows users to quickly determine the production status for entire orders or individual parts within seconds.

PNCleanUp is an extension module of PNControl. After completion of the production run, employees sorting the cut parts are shown a colour-coded overview of the parts for each order on a screen at the removal table. In other words, staff can see at a glance which part belongs to which order so can store them accordingly. The same colour code is used to label the components on the PN4000 working papers.

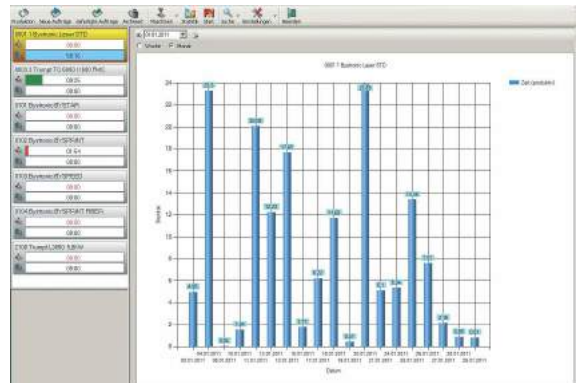
## PNControl

- Nesting jobs administrated via MS SQL database
- Graphic display of machine capacity utilization
- Statistics function for parts status, machine loading and material consumption
- Simple status check of parts
- Floating licence within the network
- Assignment of access rights via groups (administrators, production management, machine operators, guests)
- Online feedback on finished parts from machine to PN4000 and PPS system (depending on machine configuration)
- Manual feedback on finished parts and parts by machine operator
- Feedback on actual timings per order (depending on machine configuration)

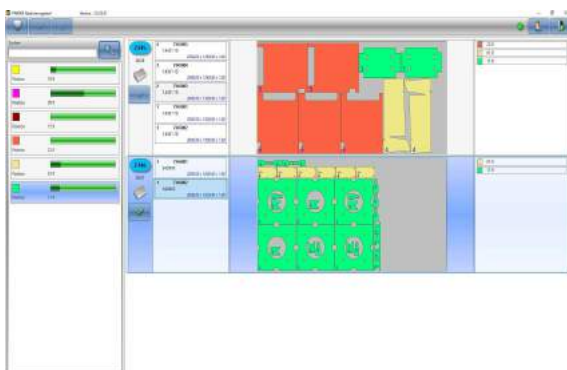
## PNCleanup

- Displays the cut nestings on the removal table
- Orders are colour-coded to facilitate sorting

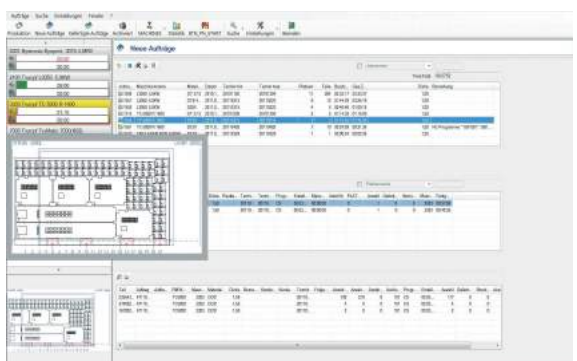
WICAM PNControl / PNCleanup



Machine Run Time Statistics



Information on Actual Part



Information on Actual Nest





### WiCAM individual solutions

Every modern production system has its own philosophy, production methods and process steps. From the very beginning we have always paid special attention to respecting these individual characteristics and incorporating them into automatic programming processes. The hundreds of modules we have built together with our clients over the last few years are proof that there's no such thing as a problem that cannot be solved.

Regardless of what you need – incorporating your proprietary loading, unloading or conveying systems; integrating process-oriented techniques such as coiling, bending, embossing, milling, chamfering, marking, labelling, palletizing, etc.; or connecting machines and techniques from different manufacturers – we look forward to developing unique solutions together with you.

### Examples of individual PN4000 solutions

- Interfaces for all common ERP systems
- Proprietary loading and unloading systems
- Individual coil cuts
- Embossed numbering
- Labelling
- Bevel cutting
- Portal milling
- Bending cell control
- Storage system control
- Coil handling and pressfeed lines



Individual coil cuts



Individual embossing



Individual labelling



Portal milling



Bending cell control



The Ultimate CAD/ CAM Solution for all your Needs

## Experience and passion for your production

Highest efficiency

Highest productivity

Highest automation

Highest process reliability

Highest material utilization

Guarantees to you

## Highest level of Customer Satisfaction



The Ultimate CAD/ CAM Solution for all your Needs

ADCOS CNC 400 AMADA AC-255 NT AMADA LCE 645 AMADA F1 AMADA X1 AMADA VELA 355 AMADA ALPHA LASER AMADA APELIO 2510V AMADA ARCADE 210 AMADA ARIES 222 AMADA ARIES 245 AMADA COMA 555 AMADA COMA 557 AMADA COMA 567 AMADA COMA 588 AMADA EUROPE 258 AMADA PEGA 244 AMADA PEGA 356 AMADA PEGA 357 AMADA VELA 355 AMADA VIPROS 255 AMADA VIPROS 358 AMADA PEGA 357 AMADA EM-3510 MIT PR III AMADA EM-3610 MIT PR III AMADA EM-2510 MIT PR III AMADA EML-3510NT MIT PR III AMADA EM L-3610 PR III AMADA AC-2510 NT AMADA AC-255 NT AMADA EMZ-3610 NT PDC AMADA X-BLS AMADA FO AMADA AMADA BETA AMADA AMADA QUATTRO AMADA OCTO 334 ARO ARO BOLZEN-SCHWEISSEN AXIOME WASSERSTRAHL BALLIU LB1500 BEHRENS BZ 30 BEHRENS CB 20 R BEHRENS CB 25 L BEHRENS CB 25 R BEHRENS CB 3000 BEHRENS CB 518 BEHRENS CB 618 BEHRENS CB 625 L BEHRENS CB 625 R BEHRENS V 22 BEHRENS V 13 BEHRENS V 20 BOSCHERT TRI ROTATION BYSTRONIC BY-SPRINT BYSTRONIC BYSTAR BYSTRONIC BYLAS BYSTRONIC BYJET BYSTRONIC BYSPEED BYSTRONIC BYVENTION CIMSA BANDSTANZ-AUTOMAT CY-LASER CY6000 DALCOS BANDSTANZ-AUTOMAT EIMA BOHR-FRÄSZENTRUM ESAB ALPHAREX AXB 5000 ESAB AUTOGEN ESAB LASER+FASEN ESAB PLASMA+FASEN ESAB AUTOGEN-FASEN ETEK AUTOGEN EUROMAC ZX 30/1000 EUROMAC MTX 1250 AUTOINDEX FINN-POWER E5 FINN-POWER TP 3020 FINN-POWER F5 FINN-POWER A4 FINN-POWER A5 FINN-POWER F5 FINN-POWER F6 FINN-POWER F64 FINN-POWER X5 FINN-POWER C5 FINN-POWER FPL6 FINN-POWER L6 FINN-POWER LP6 FINN-POWER LP64 FINN-POWER LPE5 FINN-POWER SG6 FINN-POWER LP6 FINN-POWER LP8 FINN-POWER C6 FINN-POWER SB6 FINN-POWER SB8 FINN-POWER LB6 FINN-POWER E6 FINN-POWER LPE6 FINN-POWER LPE8 FINN-POWER LC6 FINN-POWER SG3 FINN-POWER E6X FLOW WAS-SERSTRAHL GHT GHT-LASER HANKWANG ECHO3015 LASER HANKWANG KOKA PLUS HBS TKM2 120/155 HOMAG BOHR-FRÄSZENTRUM BTH - HEBERLE BOLZEN JIN FANG YUAN VT-300 KOIKE LASER KOIKE PLASMA LWR - LASERWORKS LASER LIMOGES LASER LIND PLASMA-LIND LJET 1020 WASSERSTRAHL LVD AXEL 3020 LVD GLOBAL 20 LVD IMPULS 12531 LVD DELTA 1250 LVD IMPULS 3020 L LVD AXEL 3015 LVD DELTA 1500 LVD AXEL 3020 LVD GLOBAL 20 LVD STRIPPIT FC 1000 LVD STRIPPIT FC 1003 LVD STRIPPIT 1250 LVD STRIPPIT V30-1525 MAKA 5-ACHSEN FRAESANLAGE MATRA LASER MAZAK HYPER-GEAR MAZAK SPACE-GEAR MAZAK SUPER TURBO X510 MKII MAZAK SPACE-GEAR MAZAK SUPER TURBO X-48 MAZAK X510 HI-PRO L-32 MÉCA NUMÉRIC LASER MESSER-GRIESHEIM AUTOGEN MESSER-GRIESHEIM LASER MGM FEINPLASMA MICROSTEP WASSERSTRAHL MICROSTEP LASER MITSUBISHI LASER ML2512 MITSUBISHI LASER ML3015 LVP-40CF MORBIDELLI TRIA6000 MURATA C3000 MURATA V5000 MURATA V3000H MURATA C2044 MURATA C2048 MURATA V-3046 MURATA C2000 MURATA MOTORUM 2044 MURATA MOTORUM 2048 MURATA V5058 MURATA V-3046 NCT-JAPAN NCT TLV-510 NISSHINBO MTP-1525F OMATIC OMATIC 320 R PE-DILAS PD 13045 PIVATIC BANDSTANZ-AUTOMAT PRIMA INDUSTRIE DOMINO PRIMA INDUSTRIE RAPIDO PRIMA INDUSTRIE PLATINO PRIMA INDUSTRIE SYNCHRONO PRIMA INDUSTRIE ZAPHIRO PULLMAX PULL-MATIC RAINER OS 4000W RAMSEIER KLEBE-CENTER RAS MULTIBEND CENTERRASKIN RT 85 RASKIN RT 95 RASKIN RT 105 RASKIN RT 145 RASKIN RT 145 RASKIN RT 132 REICHENBACHER BOHR-FRÄSZENTRUM REIS BOLZENSCHWEISSEN H.G. RIDDER WASSERSTRAHL SALVAGNINI S4 SALVAGNINI P4 SALVAGNINI L1 SALVAGNINI L2 SATO OXY-FUEL SATO PLASMACUTTING SATO AUTOGEN/PLASMA SHAOXIN RT-300 SHI-BUYA LASER SHIBUYA WASSERSTRAHL STIEFELMAYER LINEAR LASER TRANSLAS LASER TRUMPF TRU-PUNCH 1000 TRUMPF TRUPUNCH 2020 TRUMPF TRUPUNCH 3000TRUMPF TRUPUNCH 3000 S11 TRUMPF TRUPUNCH 5000 TRUMPF TRUMATIC 3000 TRUMPF TRUMATIC 3000 FIBER TRUMPF TRUMATIC 3000 TRUMPF TRUMATIC 6000 TRUMPF TRUMATIC 7000 TRUMPF TRULASER SERIE 1000 TRUMPF TRULASER SERIE 2000 TRUMPF TRULASER SERIE 3000 TRUMPF TRULASER SERIE 5000 TRUMPF TRULASER SERIE 7000 TRUMPF TRULASER SERIE 8000 TRUMPF 2000R TRUMPF L3030(L20) TRUMPF TRULASER L5030 TRUMPF TRULASER L5040 TRUMPF TC 120 R TRUMPF TC 20 M TRUMPF TC 20 K TRUMPF TC 202 M TRUMPF TC 202 K TRUMPF TC 202 W TRUMPF TC 250 R TRUMPF TC 300 W1 TRUMPF TC 400 K TRUMPF TC 400 W TRUMPF TC 150 K TRUMPF TC 150 W TRUMPF TC 180 K TRUMPF TC 180 W TRUMPF TC 100R MINIMATIC TRUMPF TC 180 K TRUMPF TC 160R TRUMPF TC 180 W TRUMPF TC 180 WD TRUMPF TC 190 R 1300 TRUMPF TC 200 R TRUMPF TC 202 W TRUMPF TC 235 TRUMPF TC 240 TRUMPF TC 240 LR TRUMPF TC 240 R TRUMPF TC 260 R TRUMPF TC 260 R TRUMPF TC 3000L FMC TRUMPF TC 3000R TRUMPF TC 500 R FMC TRUMPF TC 500 R TRUMPF TC 600 L FMC TRUMPF TC 600 L TRUMPF TC 6000 L TRUMPF TC 6000 L FMC TRUMPF TLC 1005 TRUMPF TLC 105 TRUMPF TRUMATIC 7000 TRUMPF TRULASER 2030 TRUMPF L3030 TRUMPF TC1000 R TRUMPF L2503 TRUMPF L2503E TRUMPF L3003 TRUMPF L3003E TRUMPF L3030 TRUMPF L4003 TRUMPF L4003E TRUMPF L4030 TRUMPF L6030 TRUMPF L2503 TRUMPF LY2500 TRUMPF L3050 TRUMPF L2530 TRUMPF HSL 2502C TRUMPF HSL 4002C TRUMPF HSL 7040 TRUMPF TRULASER 2030 TRUMPF TRU-LASER 2525 TRUMPF TRULASER3030(L32) TRUMPF TRULASER3030(L20) TRUMPF TC 2020 FMC 1300 TRUMPF TC2000R TRUMPF TC 300 LW2 TRUMPF TC 300 PW2 TRUMPF TC 3000 R\_S11 TRUMPF TC 3000 R TRUMPF TC 3000 R FMC TRUMPF TC 5000 R FMC TRUMPF TC 5000 R TRUMPF TC 1000 R TRUMPF WS 2500 TSR BOLZENSCHWEISSANLAGE WATER JET FANUC WATER JET DEKORA WATER JET NC 3025A WATER JET SCHWEDEN NC 3015 A WATER JET WJ-ITALY WATER JET WASSERSTRAHL W.A. WHITNEY 3700ATC WIEDE-MANN MAGNUM 5000 WIEDEMANN ZENTRUM 3000 WIEDEMANN W3050 ZINSER AUTOGEN ZINSER PLASMA





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