





## The Best Kept Secret from Japan

30,000 machines installed worldwide. Feature exceptional guality, accuracy and rigidity as standard as well as high speed travels, choice of spindles up to 30,000rpm and 1000Nm torgue. All machines are built using the "True Geometry System"



### **HX Series Horizontal Machining Centres**

#### **Standard Features**

- Unrivalled accuracy ±2 microns positional accuracy (full stroke)
- 1 micron repeatability
- Pallet sizes from 250mm ~ 1,000mm square
- Fastest rapid traverses on box ways 60m/min up to and including HX800
- Tool changer capacity up to 300
- Twin pallet (std) and multi pallet systems (field retrofittable)
- BT40 4 range spindle 20,000rpm
- BT50 4 range spindle 12,000rpm (8000rpm 1000Nm torque)



Model Shown - Kitamura HX400iG

## **Arumatic Control**

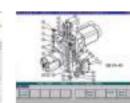
Pioneering icon CNC operation with interactive touchscreen display technology

- 67 million pulse encoder technology with 8192 block look-ahead processing speeds
- Software upgrades throughout the life of the control
- Fanuc user-friendly
- Completely customisable and expandable user experience
- Anywhere Remote and visual programming screens
  - email status updates





**Customisable Icon** Work Set Assistance



Maintenance **Support Function** 



Intelligent Advanced **Control System** 





Positioning Accuracy ±0.002mm / Full Stroke Repeatability ±0.001mm

**Screen** 

#### Supercell 300 & 400G Horizontal 5 Axis Machining

### Centres

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#### **Standard Features**

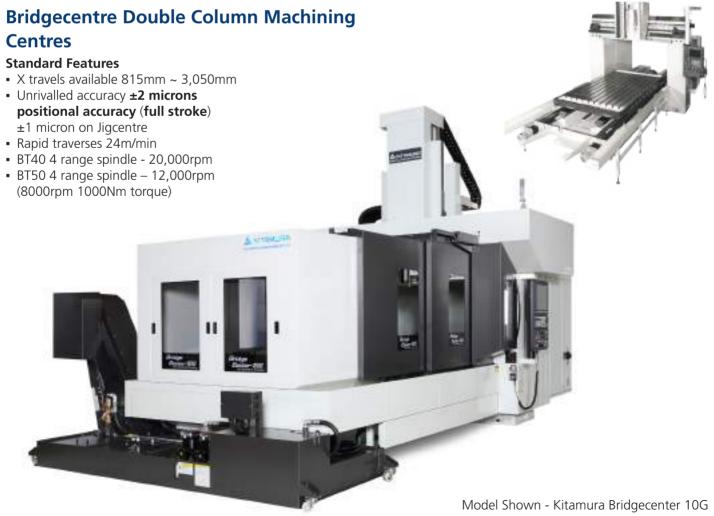
- Unrivalled accuracy ±2 microns positional accuracy (full stroke)
- 1 micron repeatability
- Pallet sizes from 300mm or 400mm square
- 60m/min rapid traverses
- BT40 15,000 or 20,000rpm
- 20 pallet system standard
- 174 ATC Standard (230 / 258 / 314 opt)





Model Shown - Kitamura Supercell 300G



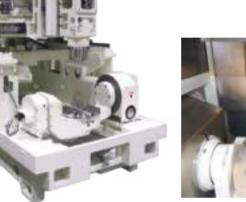


## **Mytrunnion 5 Axis Machining Centres**

#### **Standard Features**

- Unrivalled accuracy ±2 microns positional accuracy (full stroke)
- ±1 micron on Medcentre
- 1 micron repeatability
- Table sizes available 220mm ~ 1,000mm diameter
- Rapid traverses 60m/min
- HSK40 30,000rpm (Medcentre)
- BT40 4 range spindle 20,000rpm
  DT50 4 range spindle 12,000rpm
- BT50 4 range spindle 12,000rpm (8000rpm 1000Nm torque)
- Single table, twin or multi pallet systems available







Model Shown Kitamura Mytrunnion 4G

## **Mycentre Vertical Machining Centres**

#### **Standard Features**

- X travels available 762mm to 1050mm
- Unrivalled accuracy ±2 microns positional accuracy (full stroke)
- 1 micron repeatability
- Rapid traverses 50m/min
- BT40 4 range spindle 20,000rpm
- 30 ATC

Model Shown - Kitamura Mycenter 3XD

## Spark Changer Ultra High-Speed Twin Pallet Vertical Machining Centre

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#### **Standard Features**

• X travel 600mm

DUGARD

- Pallet size 560 x 400mm
- BT 40 12,000rpm





## **A New Alternative for Sliding Head Lathes**

Hanwha machines are more competitive on price, have higher power and are approximately 20% heavier than most of the competition. They also feature removable guide bushes on most models

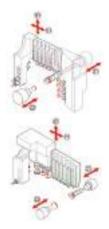




## Hanwha XP Series

#### Standard Features

- Simple but highly efficient
- Specification and layout optimised for simple shaped parts
- High quality parts in short processing time
- Ø12 ~ Ø32mm





## Hanwha XE Series

#### **Standard Features**

- Competitive price and cost-effective performance for simple to complex parts
- Various options including basic guide bush, non-guide bush or convertible guide bush
- Ø20 ~ Ø35mm

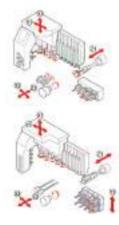




## Hanwha XD Series

#### **Standard Features**

- Complex tooling and highly rigid structure for high complexity and precision
- Specially made for small, large or highly complex parts
- Ø3 ~ Ø45mm

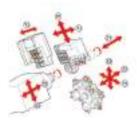




## Hanwha STL Series

#### Standard Features

- Hybrid turret / platten system
- Varied turret tooling and high motor specification (23kW) on main and sub spindle gives a machining advantage for highly complex parts
- Perfect for machining large parts up to Ø38mm
- 42mm available in 2020



## **Originally Founded as part of the** Samsung Group in Korea

An extensive range of CNC turning centres, superb guality with heavy duty boxways on all models











## SMEC SL2000B

#### **Standard Features**

- Fanuc OiTF (Manual Guide i) or Siemens 828D (Shopturn) controls
- 67mm bar capacity with 8" chuck
- 540mm maximum swing
- 540mm maximum turned length (1000mm opt)
- 24/30 m/min rapid traverse X/Z axis
- 12 station bi-directional turret (24 opt)
- Programmable tailstock guill

#### **Options include**

Mill/drill, long bed, Y axis, sub-spindle

SMEC SL2500B

#### Standard Features

- Fanuc OiTF (Manual Guide i) or Siemens 828D (Shopturn) controls
- 76mm bar capacity with 10" chuck
- 540mm maximum swing
- 880mm maximum turned length (1000mm opt)
- 18/12/24/24 m/min rapid traverse X/Y/Z/B axis
- 12 station bi-directional turret (24 opt)
- Mill/Drill Y-axis turret with BMT65 tooling **Options include**

Mill/drill, long bed, Y axis, sub-spindle

## SMEC SL3000B

#### **Standard Features**

- Fanuc OiTF (Manual Guide i) or Siemens 828D (Shopturn) controls
- 90mm bar capacity with 12" chuck
- 650mm maximum swing
- 880mm maximum turned length (1100mm opt)
- 24m/min rapid traverse X/Z axis
- 12 station bi-directional turret (24 opt)
- Programmable tailstock quill & body
- Mill/Drill with BMT85 tooling

#### **Options include**

Mill/drill turret, BMT65 tooling

## SMEC SL3500B

#### **Standard Features**

- Fanuc 0iTF (Manual Guide i) or Siemens 828D (Shopturn) controls
- 117.5mm bar capacity with 15" chuck
- 850mm maximum swing
- 780/1530/2125mm maximum turned length
- 30 m/min rapid traverse X/Z axis
- 12 station bi-directional turret
- Programmable tailstock guill

#### **Options include**

Mill/drill turret, Y axis, sub-spindle, BMT65 tooling





#### Standard Features

- Fanuc 0iTF (Manual Guide i) or Siemens 828D (Shopturn) controls
- 181mm bar capacity with 21" chuck
- 630mm maximum swing
- 520mm maximum turned length
- 18/12/24/24 m/min rapid traverse X/Y/Z/B axis
- 12 station bi-directional turret

#### **Options include**

Mill/Drill, Y-axis, BMT75 tooling



## SMEC SL5500B

#### Standard Features

- Fanuc 0iTF (Manual Guide i) or Siemens 828D (Shopturn) controls
- 165.5mm bar capacity with 21" chuck (24" and 255mm bore opt)
- 800mm maximum swing
- 1071/2230mm maximum turned length
- 20m/min rapid traverse X/Z axis (1m bed)
- 12 station bi-directional turret
- Programmable tailstock quill & body
- Mill/Drill with BMT85 tooling

**Options include** Mill/drill, BMT85 tooling



## SMEC SL6500B

#### Standard Features

- Fanuc OiTF (Manual Guide i) or Siemens 828D (Shopturn) controls
- 140mm bar capacity with 24" chuck (320mm bore opt)
- 1030mm maximum swing
- 1000/2070/3200/5050mm maximum turned length
- 12/18m/min rapid traverse X/Y axis
- 12 station bi-directional turret

**Options include** Mill/Drill, Y-axis, BMT75 tooling

## SMEC SL2000T2Y2 - Twin Turret, Twin Spindle, Twin Y Axis

#### **Standard Features**

- Fanuc 32iTF (Manual Guide i) or Siemens 828D (Shopturn) controls
- 67mm bar capacity with 21" chuck (24" opt)
- 230mm swing over bed
- 662mm maximum turned length
- 40m/min rapids
- 12/24 position turret
- BMT65 tooling



## CNC VMCs 760XP, 1000XP, 1350XP, 1600XP, 2000XP & 2600XP

100% manufactured in Taiwan, hundreds of machines installed in the UK in the last 20 years

Available with Fanuc, Mitsubishi, Siemens & Heidenhain controls

#### **Standard Features**

- Up to 12,000rpm spindle speed (15,000rpm opt)
- Compact construction for reduced footprint
- 44m/min rapids
- BT40 spindle taper as standard, CAT option
- 36 station twin arm ATC options (28 on 76XP)
- Through spindle coolant
- Heavy duty linear ways on all axes
- Through spindle coolant
- Swarf conveyor
- Chip flushing

#### **Options include**

- 4th axis rotary table
- 4/5th axis table
- Probing

Heidenhain controls
 Orpm opt)
 On 76XP)

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Model Shown - Dugard 1000XP

DUGARD

## Cost Effective CNC VMCs 550, 760, 1000, 1350 X travel

#### Dugard 550 available at just £30,000

Available with Fanuc, Siemens & Mitsubishi controls

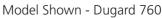
#### **Standard Features**

- 11,000rpm spindle speed (std)
- Compact construction for reduced footprint
- BT40 spindle taper as standard, (CAT opt)
- 20, 24 & 28 station carousel ATC options
- Linear ways on all axes



Model Shown - Dugard 1000





## **Heavy Duty CNC VMCs** HD1363, HD1680, HD1886 & HD2210

Made in Taiwan, the unique configuration with the X slideway under the Y slideway offers a fully supported table across the full X-axis movement, eliminating table overhang and X-axis distortion whilst having a 40% smaller footprint. Choice of boxway or rollerway guide systems.

Available with Fanuc. Heidenhain and Siemens controls

#### **Standard Features**

- Refrigerated ballscrews on X, Y and Z axes
- 24/32 station bi-directional twin arm type tool changer
- Available in heavy duty boxway or linear roller ways
- BT50 geared head 6,000/8,000rpm
- Optional BT40 10,000/12,000rpm direct drive spindle
- X axis travels from 1,300~2,200mm
- Y axis travels up to 1000mm



Unique slideway design

SARD.com

Model Shown - Dugard HD1886B

## **CNC Bridge Type VMCs LB Range**

Large capacity and ease of operation with powerful cutting capability

Available with Fanuc, Heidenhain & Siemens controls

#### **Standard Features**

- Refrigerated ballscrews on X, Y and Z axes
- 2200~4200mmm X axis travels
- 1600 & 2700mm optional Y axis travels
- 850~1100mm Z axis travel
- BT50 6000rpm with 2 step gearbox or BT50 10,000rpm direct drive spindle
- up to 15,000kg table capacity



DUGARD

## 5 Axis CNC Machining Centres Dugard X5-320, X5-800

#### High Speed 5 Axis Machining Centres

Available with Heidenhain, Fanuc and Siemens controls

#### **Standard Features**

- 320mm / 800mm diameter table
- 30 station ATC (X5-320)
- 32~128 station ATC (X5-800)
- 15,000rpm direct drive spindle speed (X5-320)
- 18,000rpm direct drive spindle speed (X5-800)
- Full 5 axis capability or 4 + 1
- Kessler torque table (X5-800)



Model Shown - Dugard X5-320

## 5 Axis CNC Machining Centres Dugard GTX620

High Speed Travelling Column 5 Axis Machining Centre

Available with Heidenhain, Siemens

or Fanuc controls

#### **Standard Features**

- 12,000 direct drive spindle (15,000/24,000rpm opt)
- Large capacity 650mm trunnion table
- Large door opening system with exceptional access to the work area for loading and setting
- 40 station ATC (60 opt)
- 36m/min rapids
- Full 5 axis simultaneous or 4+1 milling capability





## European Built High Quality 5 Axis Moving Column Machining Centres

# **IBARMIA**

## T Series Universal 5 Axis Machining Centres

- Heidenhain or Fanuc controls
- 1000, 1250, 1600, 1800, 2200mm diameter table sizes, all with turning option
- Twin or multi pallet options
- BT50 or HSK spindles up to 75kW



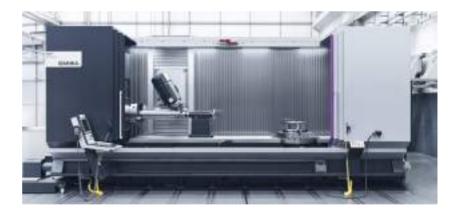






## Z Series Travelling Column 3/4/5 Axis Vertical Machining Centres

- Heidenhain or Fanuc controls
- Up to 12m X travel
- BT40, BT50 or HSK63, HSK100 spindle tapers
- Up to 75kW spindle power
- 600, 800, 1000mm diameter built in rotary tables, all with turning option









## **Standard & CNC Grinders**

The biggest manufacturer of surface grinders worldwide. Made in Taiwan and partnered with Dugard since 1985

## CHEVALIER.



Model Shown - Chevalier FMG B1224

DUGARD



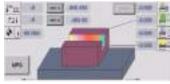
## **Column Type 3 Axis Automatic Surface Grinder**

#### **Standard Features**

- 450~3000mm longitudinal travel
- Auto downfeed with roughing and finishing cycles
- Variable speed spindle

#### **AD Control - Standard Features**

- 10.4" TFT high ersolution 65.536 pixel colour touch panel control interface
- Powerful graphic conversational function with surface/plunge standard built-in grinding programme
- Brief and clear operation manual
- Mechanical coordinates and relative coordinates display
- Operation friendly, grinding, wheel dressing and automatic compensation can be accomplished easily without making CNC programme



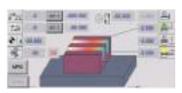
Plunge Grinding Mode



**Crisscross Grinding Mode** 



Surface Grinding Mode



Multi-Groove Grinding Mode



#### Model Shown - Chevalier FSG1224ADIII



Automatic Dressing on Table (opt)



Automatic Overhead Dresser with Compensation (opt)

#### **Collaborative Robots**

Integrate loading / unloading with your machine tool



Hanwha Collaborative Robot (Cobot)



- Affordable automation up to a third less than regular industrial robots
- Robots that fully integrate with your team
- Easy programming and hand guided teach function
- Can be used in most cases without guarding fitted with operator collision protection
- User friendly Graphic User Interface
- 0.01mm positional accuracy
- **Compact and light body** integrated actuators with hollow shaft on each joint
- **Easy Connection** standard industrial attachment fittings and interface protocols, DIO or Ether CAT port to directly connect with accessories
- Use anywhere small footprint and flexible mounting options means there's no need to alter product layout
- Cleanroom class ISO 2

## Meet your new team member

Model Shown - Hanwha HCR-5



## Over 80 years providing machine tool solutions

At Dugard we're famous for our comprehensive selection of machine tools, with the widest range in the UK of horizontal and vertical lathes, machining centres, borers, grinders and cobots - available to suit any size machine shop no matter what your budget.

### **Dugard Agencies**

In addition to our extremely popular Dugard range, we also represent Hanwha, Kitamura, SMEC (Samsung), Chevalier Ibarmia, Tos Varnsdorf, and Honor Seiki. Designed, developed and manufactured in the engineering and technology hubs of Japan, Korea, Taiwan, Germany and Czech Republic, these brands each represent innovative excellence in their respective specialities, dominating their chosen industries.

## **Dugard Sales Team**

The Dugard head office is in Hove, East Sussex and that's a brilliant place for a machine demonstration with one of our sales team. However, our sales team are based all over the UK so if you need any help or information they're never far away and they can always pop in to see you.

## **Dugard Technical Support**

Much of our success stems from our reputation for providing first class after sales support and service. We have an extensive team which covers machine service, spare parts and programming assistance. We make sure that we action all queries and requests quickly and economically.

## **Dugard Applications Department**

Our team of applications engineers is available before and after a machine is installed at a customer's site, offering programme training and advice on our full range of machines, anything from programming and tooling advice to control communications and parameters.

## **Dugard Service Department**

With factory trained service engineers to install and commission all the new machines sold in addition to making breakdown visits, we have a busy team working all areas of the country. In the event of a breakdown our in-house technical support staff initially offer advice over the phone, we aim to have engineers out on an emergency breakdown the next working day. Every reported fault is of the utmost importance to us so we work hard to have it fixed as soon as possible.

## **Dugard Spares and Accessories Department**

Our Head Office in Hove has 2,000 square feet of dedicated spare parts storage. We also have a small team in Taiwan allowing us to liaise with our suppliers (both old and new), ensuring that an extensive range of spare parts is always available. We supply the Dugard CNC range of machines to dealers throughout Europe and the rest of the world. This makes our main facility in the UK the central hub for machines and spares.













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2020 - V3

## **Exclusive dealers for**





**IBARMIA** 



