

DUGARD

Machine Tools Since 1939

Dugard Multi-Function Lathes BNC 1800 / BNC 2200 / BNC 2600



www.dugard.com

Dugard BNC - Multi-Function Lathes

Combine the
with the co
Enjoy the b

The Dugard BNC range increases in size to suit your needs, however all machines share certain vital features:

- Gap bed
- CNC servo main spindle motor
- Auto 2 step speed range
- Quick change tool post
- 8 station automatic rear mounted turrets
- Coolant system
- Lubrication system
- Low voltage circuit system
- Fully enclosed front guarding with interlock system
- CE conformity

Every BNC m



Fanuc-0iTC

- The biggest selling control in the history
- CNC 9" mono chrom screen
- Full digital drive pack
- Industry standard G programming
- Manual guide i

The easy to use functions of a manual lathe complexities of CNC programming benefits of a relatively low initial outlay

Machine comes with a choice of digital control:



Siemens-810D

- Digital spindle drive
- 10.4" colour TFT screen with graphic display
- "Manual Turn" software tailor made for manual lathe users to easily adapt to CNC programming
- Graphically guides operator through CNC programming
- G code programming not necessary
- Combines skill of manual operator with power of CNC

Fagor-8055

- Up to 1Mb of user RAM memory
- Compact flash of up to 2 Gb (optional) with flash memory to store user programmes, customising programs, parameter tables etc
- USB connector for backup of programmes, parameters and tables
- Ethernet (optional). TCP-IP protocol

Dugard BNC - Multi-Function Lathes



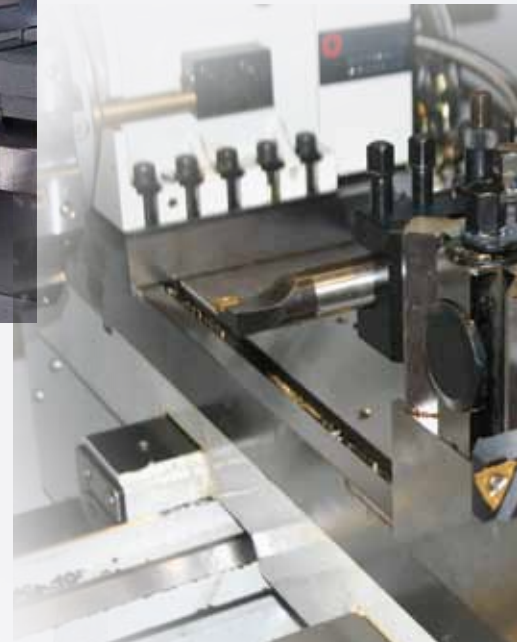
Ergonomical design places the control at eye level for the operator's ease of use in conjunction with the electronic handwheels which also has the ability to traverse along the bed for maximum operator convenience

Added benefit: the coolant tank is accessed from the front of the machine for ease of maintenance



Fully guarded ball screws, extra wide double box way bed design for high rapid traverse and the capability to carry heavier work loads. The bed is also designed to allow easy unobstructed chip flow into the swarf tray or optional chip conveyor

Features Dugard BNC S



Machine is equipped with a manual quick change tool post for turning tools



Large
idea
head
has
issue

Rigidly designed headstock, balanced for high speed running, incorporating an automatic speed change system

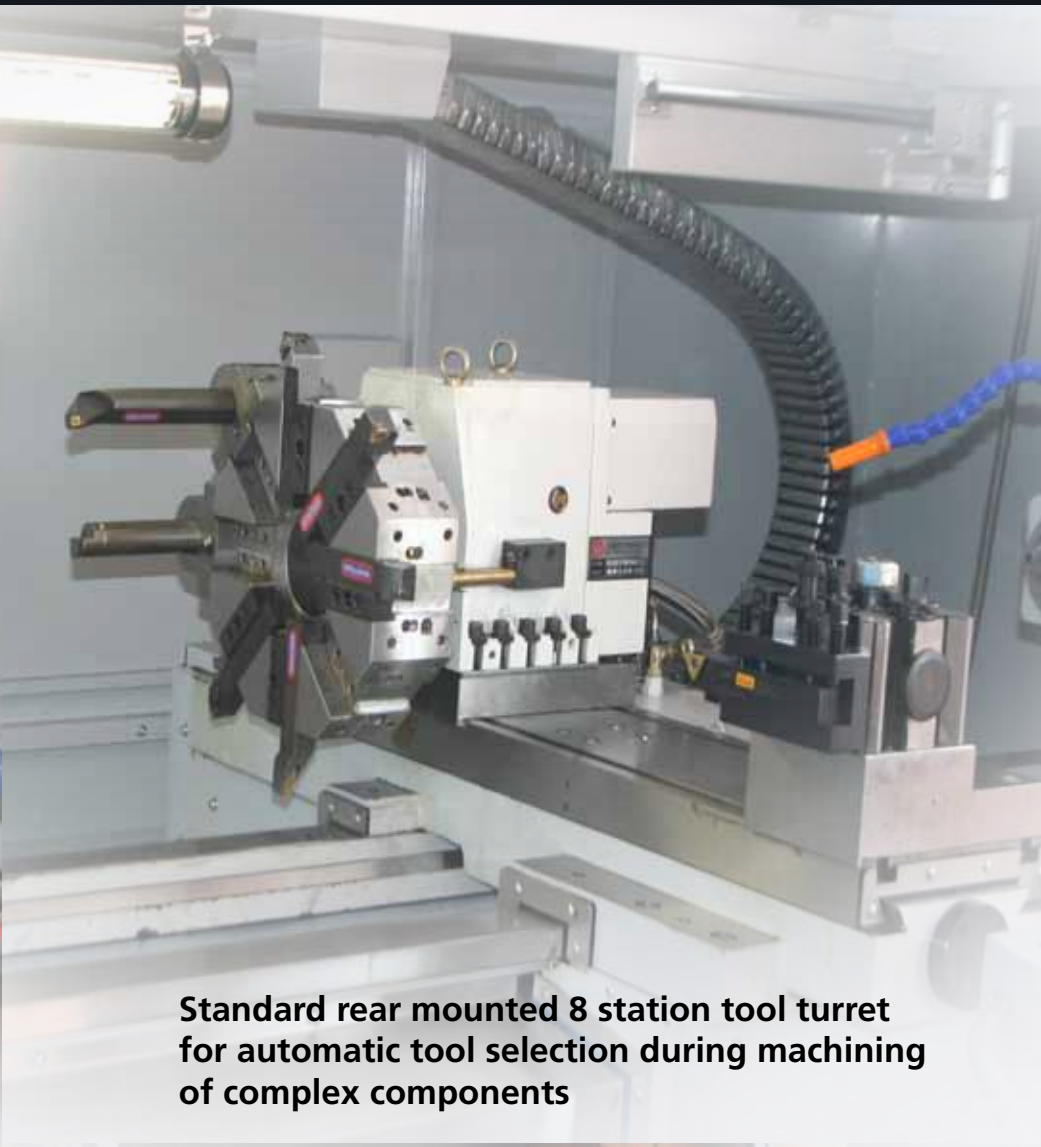
Features of the Guard Series



an extra front mounted
post for accurate location of

Large rigid tailstock is
ideal for supporting
heavy components and
no interference
issues

Automatic



Standard rear mounted 8 station tool turret
for automatic tool selection during machining
of complex components

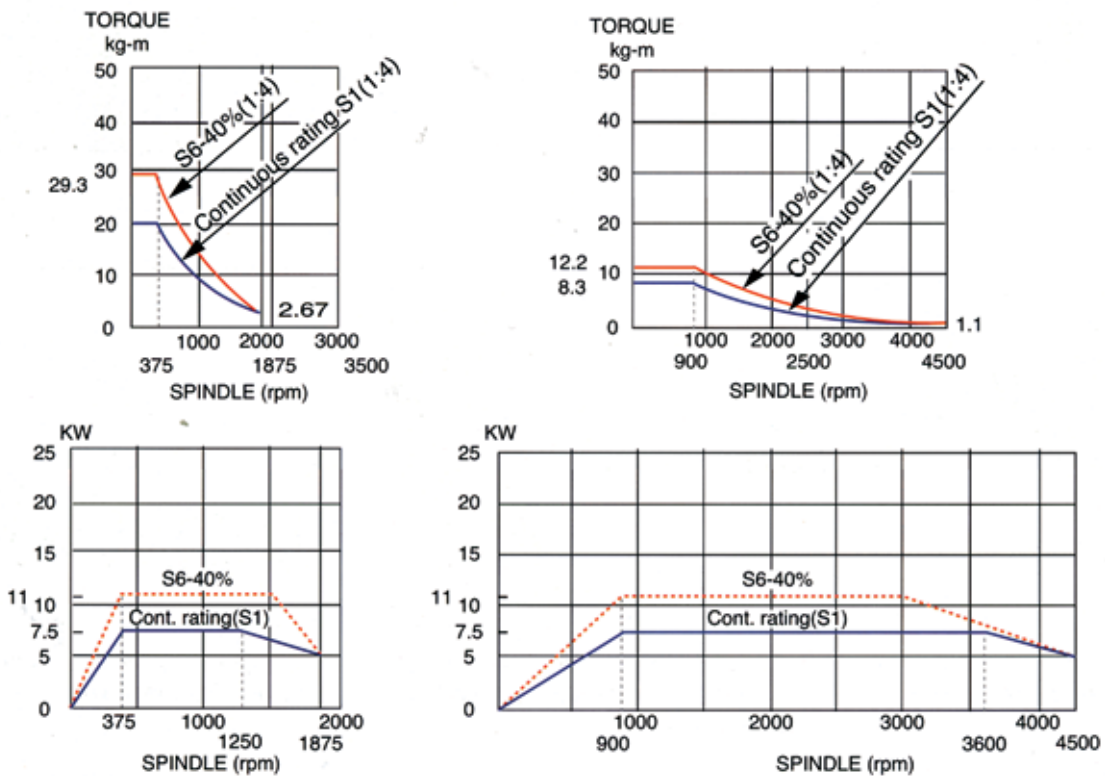


Large interlocked opening at rear of machine for ease of
cleaning and maintenance

Dugard BNC 1800 Series Multi-Function Lathes

Description	Unit	BNC-1800 Series
Swing over gap	mm	710
Swing over bed	mm	475
Swing over cross slide	mm	240
Max turning diameter	mm	460
Max turning length	mm	1000/1500
Bar capacity (hyd chuck cylinder)	mm	51
Max work piece weight (with tailstock)	kg	1500
Travel		
X axis	mm	260
Z axis	mm	1150/1650
Spindle		
Speed range	rpm	100-4500
Chuck size	mm	250
Spindle nose	mm	D1-6
Front bearing ID/OD	mm	100
Rear bearing ID/OD	mm	90
Motor type		Fagor SPM112LE E1.00100.1
Motor power	kW	7.5/11
Max speed torque	kgm	29.3
Turret (option)		
Number of tool stations		8
Shank height for square tool	mm	25
Shank diameter for boring bar	mm	40
Indexing time (one tool)	secs	1.1
Indexing time (180 degrees)	secs	0.3
Feed Rate		
X axis rapid traverse	mm/min	15
Z axis rapid traverse	mm/min	15
Jog feed rate	mm/rev	500
Accuracy		
Positioning	mm	+/- 0.005
Repeatability	mm	+/- 0.005
Slides		
Overall bed guide width	mm	355
Cross slide guide width	mm	215
Ballscrew		
X axis	mm	25 x 5 - C5
Z axis	mm	40 x 10 - C5
Tailstock		
Quill stroke	mm	150
Quill diameter	mm	65
Quill inside taper	MT	MT4
Quill thrust max	kgs	1000
Coolant System		
Pump motor	w	375
Pump capacity	L/min	70
Pump pressure	kg/cm ²	2.7
Tank capacity	L	100
Miscellaneous		
Power supply (std machine)	KVA	20
Weight	kg	2550/3150
Length	mm	3010/3510
Width	mm	1800
Height	mm	2020

Torque Chart



Standard Accessories

- Gap Bed
- 7.5/11 kW main spindle power
- Fagor 8040TC 11" LCD full key controller
- Fully enclosed front guarding with interlock system
- Coolant system
- Auto lubrication system
- 8 station rear turret
- Quick change tool post with 6 pieces standard tool holder
- Low voltage circuit system
- CE
- 2-steps speed auto changer

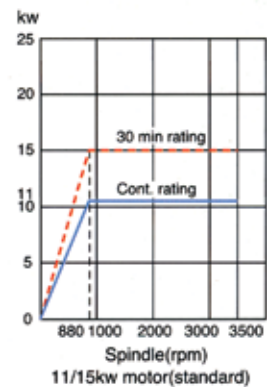
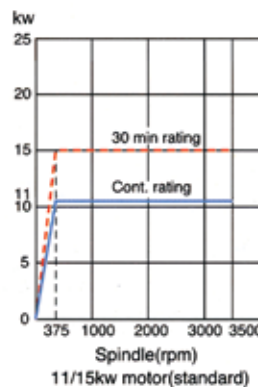
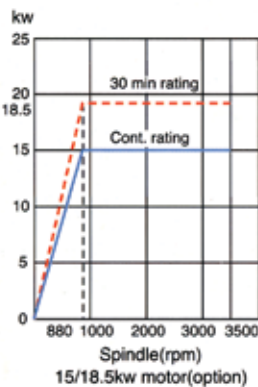
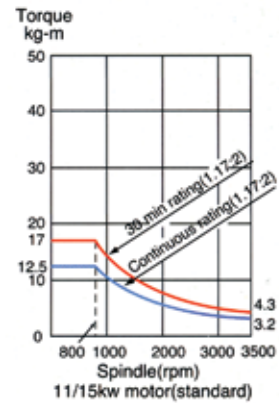
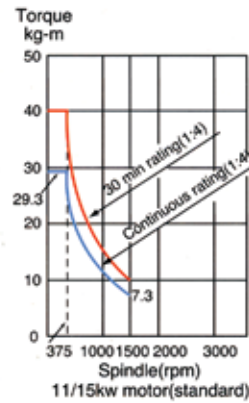
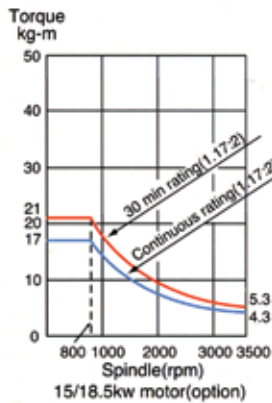
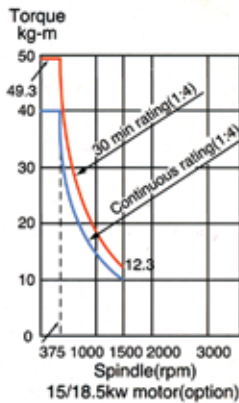
Optional Accessories

- Steady rest (20-200mm)
- Follow rest (10-100mm)
- Hydraulic chuck & system
- Electrical 4-way tool post
- Chip conveyor & wash down device
- 11/16kW spindle motor
- V8 turret (25mm tooling)
- Hydraulic quill
- Boring bar/drill holder block

Dugard BNC 2200 Series Multi-Function Lathes

Description	Unit	BNC-2200 Series
Swing over gap	mm	790
Swing over cross slide	mm	310
Swing over bed	mm	550
Max turning length	mm	1000/1500/2000/3000/4000
Travel		
X axis	mm	300
Z axis	mm	1150/1650/2150/3150/4150
Spindle		
Speed range	rpm	80-3500 (80-2500 opt) 80-2500XL
Chuck size (option)	mm	250/315 (opt)
Spindle nose	ASA	D1-8
Through spindle hole diameter (with manual chuck)	mm	82/106 (opt)
Power	kW	15/22
Turret (option)		
Number of tool stations		8
Shank height for square tool	mm	25
Shank diameter for boring bar	mm	40
Turret indexing time (one tool)	secs	1.1
Feed Rate		
X axis rapid traverse	mm/min	15000
Z axis rapid traverse	mm/min	15000
Jog feed rate	mm/min	5000
Accuracy		
Positioning x, z	mm	+/- 0.005
Repeatability x, z	mm	+/- 0.005
Bed & Slides		
Overall bed guide width	m	405
Cross slide guide width	mm	215
Angle	degree	0
X/Z axis motor power	kW	0.85/1.8
Ballscrew		
X axis dia pitch	mm	32 x 5 - C5
Z axis dia pitch	mm	45/50 x 10 - C5
Tailstock		
Quill movement		manual/hydraulic (opt)
Quill stroke	mm	150
Quill diameter	mm	80
Quill inside taper	MT	MT5
Coolant System		
Pump motor	HP	1/4
Pump capacity	L/min	70
Pump pressure	kg/cm ²	2.7
Tank capacity	L	100
Miscellaneous		
Power supply (std machine)	KVA	31
Weight	kg	3800/4300/4800/6250/7500
Dimension	mm	3000/3500/4000x2300x1800, 5190/6190x2290x2600

Torque Chart



Standard Accessories

Optional Accessories

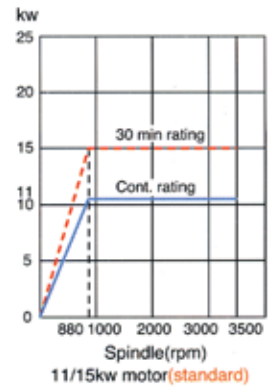
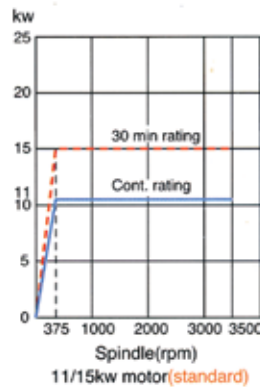
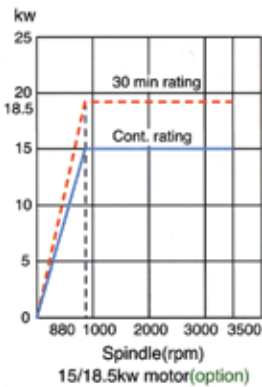
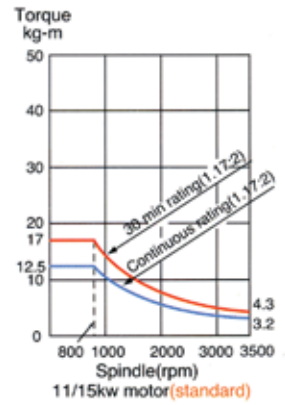
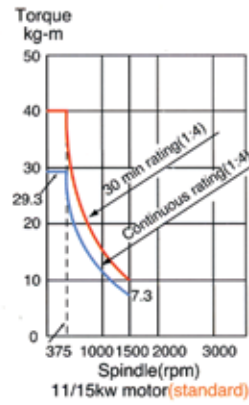
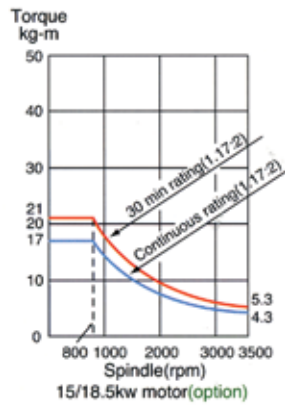
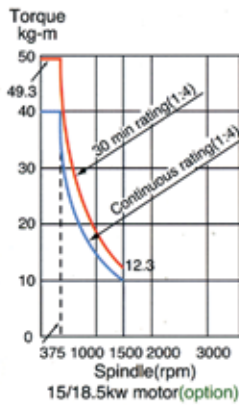
- Gap Bed
- Tailstock
- 11/15 kW main spindle power
- Fagor 8055TC LCD full key controller
- Fully enclosed front guarding with interlock system
- Coolant system
- Lubrication system
- 8 station rear turret
- Quick change tool post
- 45mm diameter ball screw for 2280 Z axis
- Low voltage circuit system
- CE
- Levelling bolts & pcids for installation

- Steady rest
- Follow rest
- 3 jaw chuck (hydraulic or manual)
- Automatic V8 turret
- Electronic 4-way tool post
- Hydraulic tailstock
- 15/22 kW spindle motor
- C axis & power turret
- D1-8 spindle nose for 80mm spindle
- 105mm spindle bore capacity
- Joy stick
- Portable MPC
- EMC feature
- Extra I/O for functions
- Chip conveyor and wash down device
- Boring bar/drill holder block

Dugard BNC 2600 Series Multi-Function Lathes

Description	Unit	BNC-2600 Series
Swing over gap	mm	890
Swing over cross slide	mm	410
Swing over bed	mm	650
Max turning length	mm	1000/1500/2000/3000/4000
Travel		
X axis	mm	300
Z axis	mm	1150/1650/2150/3150/4150
Spindle		
Speed range	rpm	80-2500 (82mm bore) / 80-2500 (106mm bore)
Chuck size (option)	mm	250
Spindle nose	ASA	A2-8/D1-8 (opt)
Through spindle hole diameter (with manual chuck)	mm	82/106 (opt)
Power	kW	11/15 (std) 15/22 (opt) [40,60,80] 15/22 [120,160]
Turret (option)		
Number of tool stations		8
Shank height for square tool	mm	25
Shank diameter for boring bar	mm	40
Turret indexing time (one tool)	secs	1.1
Feed rate		
X axis rapid traverse	mm/min	15000
Z axis rapid traverse	mm/min	15000
Jog feed rate	mm/min	5000
Accuracy		
Positioning x, z	mm	+/- 0.005
Repeatability x, z	mm	+/- 0.005
Bed & Slides		
Overall bed guide width	m	405
Cross slide guide width	mm	215
Angle	degree	0
X/Z axis motor power	kW	0.85/1.8
Ball screw		
X axis dia pitch	mm	32 x 5 - C5
Z axis dia pitch	mm	45 x 10 - C5 [40,60,80] 50 x 10 - C5 [120,160]
Tailstock		
Quill movement		manual/hydraulic (opt)
Quill stroke	mm	150
Quill diameter	mm	80
Quill inside taper	MT	MT5
Coolant System		
Pump motor	HP	460
Pump capacity	L/min	70
Pump pressure	kg/cm ²	2.7
Tank capacity	L	100
Miscellaneous		
Power supply (std machine)	KVA	31
Weight	kg	4150/4650/5150/6450/7800
Dimension	mm	3370/3900/4400/5190/6190

Torque Chart



Standard Accessories

- Gap Bed
- Tailstock
- Fagor 8055TC LCD full key controller
- Coolant system
- Lubrication system
- 8 station rear turret
- Quick change tool post
- Low voltage circuit system
- CE
- Levelling bolts & pcids for installation

BNC-2640X/2660X/2680X

- 11/16kW main spindle motor
- Fully enclosed front guarding with interlock system

BNC-26120X/26160X

- 15/22kW main spindle motor
- Traveling front single door interlocked with carriage

Optional Accessories

- Steady rest
- Follow rest
- 3 jaw chuck (hydraulic or manual)
- Automatic V8 turret
- Electronic 4-way tool post
- Hydraulic tailstock
- 15/22 kW spindle motor
- C axis & power turret
- D1-8 spindle nose for 80mm spindle
- 106mm spindle bore capacity
- Joy stick
- Portable MPC
- EMC feature
- Extra 1/0 for functions
- Chip conveyor and wash down device
- Boring bar/drill holder block

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