

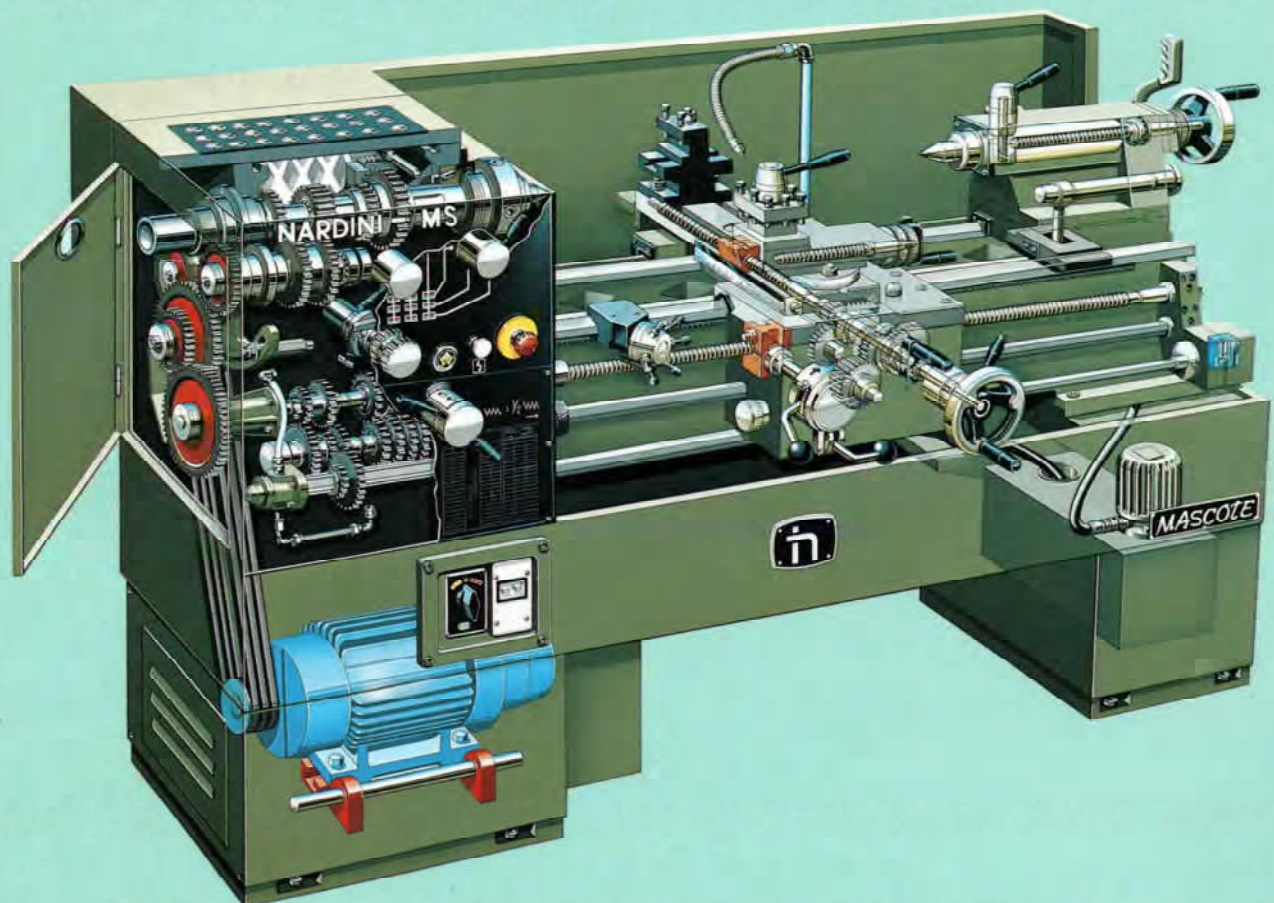
# MACHINE TOOLS

UNIVERSAL LATHES

CNC LATHES

RADIAL DRILLS

# NARDINI



# UNIVERSAL LATHES



SZ 250 T



ND 220 AE



MS 175 E



MS 125 E

# CNC TURNING MACHINES



TT 125 E GPR

The main reasons presented by Industrias Nardini S/A ref. the range of CNC lathes, GPR series, are:

- increase production
- improve quality
- scrap reduction
- accuracy and repeatability
- simple and complex machining parts

The GPR series is an intelligent way to improve the relation cost x benefit, emphasizing:

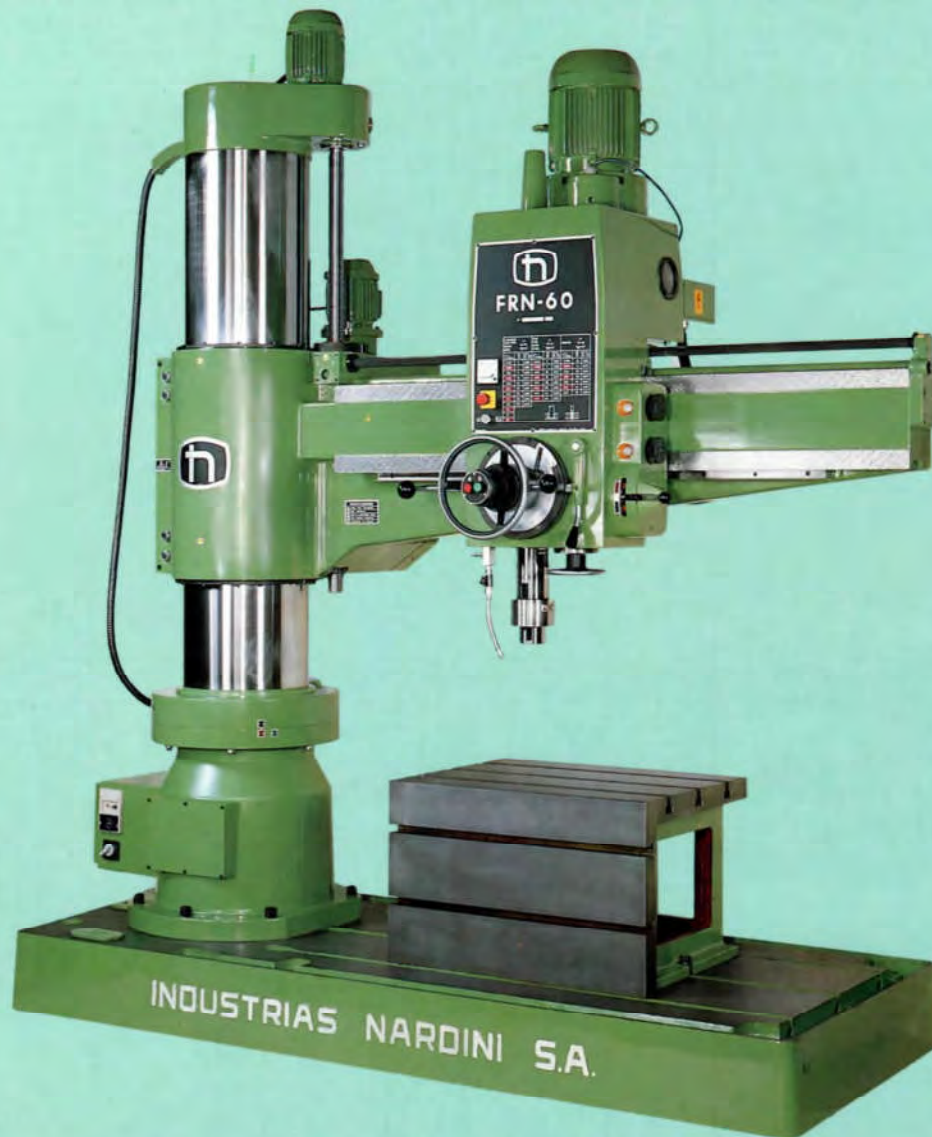
- low investment
- easy programming system and operation
- low operation cost
- high productivity

The lathe TT-125E (GPR) present the following specifications:

- swing over bed ..... Ø 250mm
- distance between centers ..... 500mm
- spindle bore ..... Ø 35mm
- main motor ..... 2 KW
- speed range (16) ..... 50-2500 R.P.M.
- Net weight ..... 1000 KG

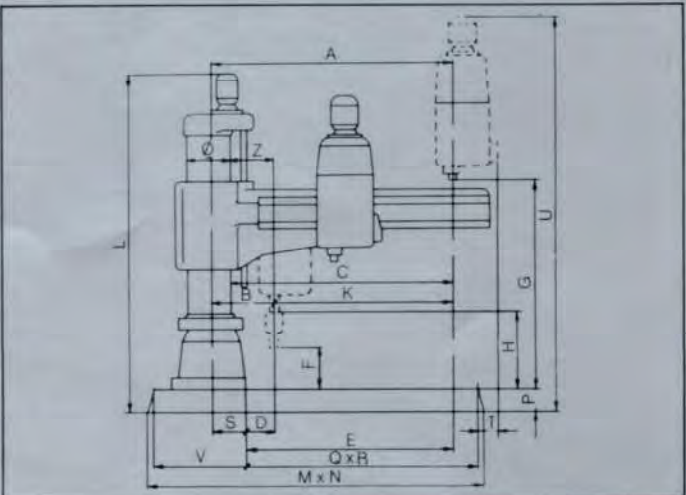
This model of CNC lathe is perfect for industrial and technical schools applications.

# RADIAL DRILLING MACHINES



FRN 60

CAPACITY		MODELS	FRN 60 x 1600	FRN 60 x 2000
Maximum spindle radius	MM		1600	2000
Column Diameter	MM		380	420
Drilling in solid steel	MM		60	60
Drilling in cast iron	MM		80	80
Boring in steel	MM		100	100
Boring in cast iron	MM		120	120
Tapping in steel	MM		50	50
Tapping in cast iron	MM		70	70
<b>SPINDLE</b>				
Diameter	MM		90	90
Vertical travel	MM		350	350
Morse taper	MT		5	5
Number of speeds			12	12
Speeds range	RPM		29 TO 1450	29 TO 1450
Number of feeds			6	6
Feeds range	MM/REV		0.05 TO 0.70	0.05 TO 0.70
<b>MOTORS (SPECIFY VOLTAGE)</b>				
Main motor	HP		7.5	7.5
Arm elevation motor	HP		2.0	2.0
Clamping motor	HP		3/4	3/4
Coolant unit motor	HP		1/8	1/8



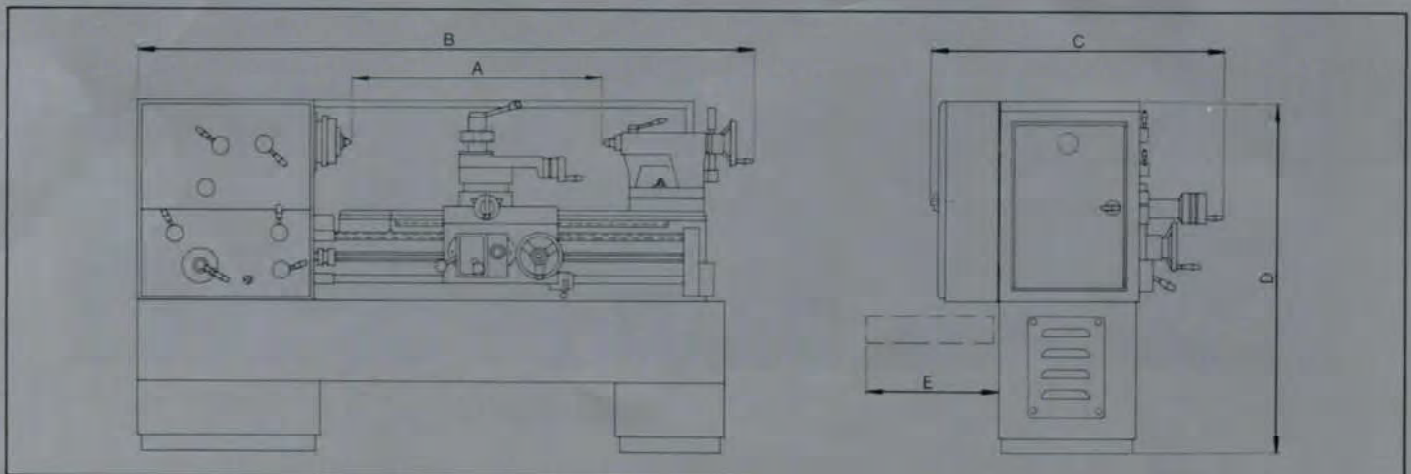
MODELS		A	B	C	D	E	F	G	H	K	L
FRN 60 x 1600	MM	1829	500	1639	225	1549	350	1575	700	1320	3037
FRN 60 x 2000	MM	2210	525	2000	225	1910	455	1790	805	1685	3322

MODELS		M x N	P	Q	S	T	U	V	Z	O	WEIGHT
FRN 60 x 1600	MM	2530 x 1060	210	1770	275	190	3252	760	300	380	5310 K g
FRN 60 x 2000	MM	3050 x 1100	240	2125	300	125	3497	875	315	420	6970 K g

# SPECIFICATIONS

CAPACITY		MODELS		"TURN-TRU"	"MASCOTE"	"NODUS"			SAGAZ
				MS - 125 E	MS - 175 E	ND - 195 E	ND - 220 AE	ND - 250 BE	SZ - 250 T
Height of centers	MM	125	175	195	220	250	250		
Distance between centers	MM	500	800 1000	1000 1500	1000 1500	1000 1500 2200	1000 1500 2000		
Swing over bed	MM	255	350	390	440	500	500		
Swing of cross slide	MM	150	200	220	270	330	306		
(*) Swing in gap	MM	—	500	580	630	690	710		
(*) Length of gap in front of faceplate	MM	—	145	200	200	200	170		
Cross slide travel	MM	180	205	250	250	290	300		
Tool section	MM	16 x 16	20 x 20	20 x 20	20 x 20	20 x 20	25 x 25		
<b>BED</b>									
Width	MM	200	220	270	270	270	340		
Height	MM	220	300	320	320	320	350		
<b>HEADSTOCK</b>									
Spindle nose	CAMLOCK OR DIN	CAMLOCK D1-3" OR DIN 55027-4	CAMLOCK D1-5" OR DIN 55027-5	CAMLOCK D1-6" OR DIN 55027-6	CAMLOCK D1-6" OR DIN 55027-6	CAMLOCK D1-6" OR DIN 55027-6	CAMLOCK D1-8" OR DIN 55027-8		
Spindle bore	MM	35	D1-5" -42 DIN -46	52	52	52	80		
Spindle internal taper		1:20	1:20	1:20	1:20	1:20	1:20		
Taper in induction sleeve	MT	3	3	4	4	4	5		
Spindle speeds	Number	16	18	18	18	18	18		
Speed range	RPM	50 TO 2500	25 TO 2000	25 TO 2000	25 TO 2000	25 TO 2000	25 TO 2000		
<b>TAILSTOCK</b>									
Quill diameter	MM	40	50	60	60	60	80		
Quill travel	MM	150	140	200	200	200	205		
Quill internal taper	MT	3	3	4	4	4	5		
<b>GEAR BOX</b>									
Metric threads	MM	(16) 0.3 TO 4.0	(64) 0.375 TO 7.0	(54) 0.25 TO 7.0	(54) 0.25 TO 7.0	(54) 0.25 TO 7.0	(54) 0.25 TO 7.0		
Inch threads	TPI	(32) 6 TO 88	(32) 3 TO 56	(54) 1.375 TO 42	(54) 1.375 TO 42	(54) 1.375 TO 42	(54) 1.375 TO 42		
Module threads	MOD	(16) 0.187 TO 2.5	(64) 0.187 TO 3.5	(54) 0.125 TO 3.50	(54) 0.125 TO 3.50	(54) 0.125 TO 3.50	(54) 0.125 TO 3.50		
Diametral pitch threads	DP	(32) 12 TO 176	(32) 12 TO 208	(54) 2.75 TO 125	(54) 2.75 TO 125	(54) 2.75 TO 125	(54) 2.75 TO 125		
Longitudinal feeds	MM/REV	(64) 0.072 TO 1.564	(128) 0.042 TO 0.929	(132) 0.057 TO 2.645	(132) 0.057 TO 2.645	(132) 0.057 TO 2.645	(132) 0.057 TO 2.645		
Cross feeds	MM/REV	(64) 0.036 TO 0.782	(128) 0.015 TO 0.338	(132) 0.028 TO 1.322	(132) 0.028 TO 1.322	(132) 0.028 TO 1.322	(132) 0.028 TO 1.322		
Pitch of leadscrew	MM	6	6	6	6	6	6		
<b>MOTORS (SPECIFY VOLTAGE)</b>									
Main motor	HP	2.5/1.6	6/3	8/4	8/4	8/4	12.5		
Coolant unit motor	HP	1/8	1/8	1/8	1/8	1/8	1/8		

(\*) OPTIONAL



MODELS		A	B	C	D	E	NET WEIGHT (KG)
MS.125 E	MM	500	1525	690	1100	500	610
MS.175 E	MM	800	1910	955	1175	500	880
	MM	1000	2150	955	1175	500	960
ND.195 E	MM	1000	2350	1095	1210	540	1260
	MM	1500	2990	1095	1210	540	1360
ND.220 AE	MM	1000	2350	1095	1240	540	1300
	MM	1500	2990	1095	1240	540	1400
ND.250 BE	MM	1000	2350	1095	1270	540	1470
	MM	1500	2990	1095	1270	540	1680
	MM	2200	3630	1095	1270	540	2070
SZ.250 T	MM	1000	2640	1260	1350	700	2155
	MM	1500	3140	1260	1350	700	2480
	MM	2000	3640	1260	1350	700	2900

# Indústrias Nardini S/A

## Work and Technology at the Service of Development

Nardini began its activities in 1908, making farming and textile machinery. In the forties it began to make exclusively machine-tools.

Today Nardini has already made more than 48.000 units, of which 12.500 have been exported to more than 25 countries in the Americas, Europe, Africa, Asia, the Middle East and Australia. This is exactly the reason for the outstanding position - of Nardini in the Brazilian and international markets.

The demand is quite significant. To meet it the company has a dynamic production line, able to manufacture up to 450 machines a month. It has its own foundry with a capacity of 2.000 tons per month, besides a whole technical and operational structure installed in an area of 45.000 Sq meters of buildings. It is a modern and complete industry. It has

a total area of 380.000 Sq meters and all the necessary resources to manufacture this diversified line of machine-tools.

- High precision and engine lathes with a height range of 5" (125mm) to 71" (1.800mm) and distance between centers of 20" (500mm) to 394" (10.000mm).
- Automatic Lathes
- CNC turning machines
- Radial drilling machines

These products are the result of an extremely advanced technology, of a know how kept constantly up to date and of a rigorous industrial control at all stages of production. These are the factors that give Nardini machines the highest standard of quality, placing them among the best in the world.

Quality attested by  
Rheinisch-Westfälischer TÜV  
according to DIN 8605.



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