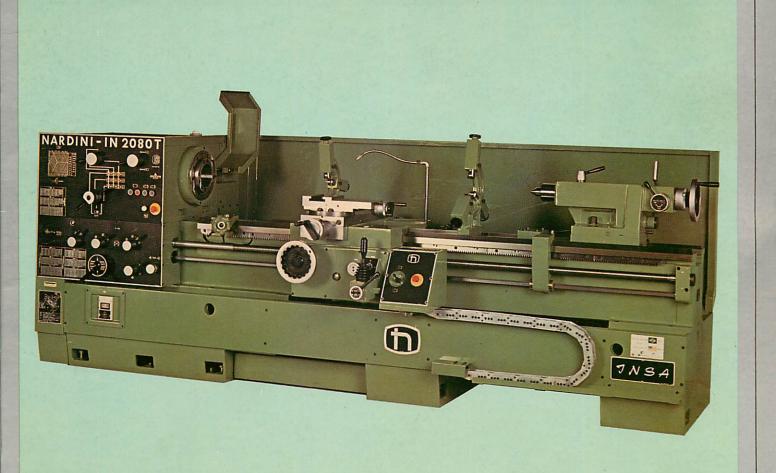
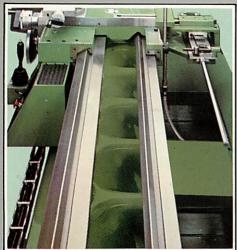
HIGH PRECISION LATHE "INSA" IN-2000 T IN-2500 T

NARDINI



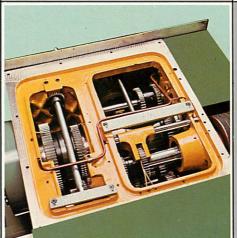
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Features



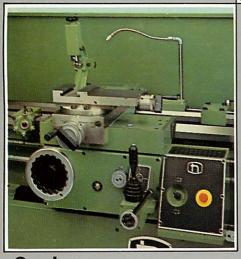
Bed Ways

The heavy duty compact one piece bed is extremely rigid and multi-ribbed to eliminate torsional twisting and vibrations. All "V" ways and flat ways of the bed are induction hardened to BRINELL 400 and above (ROCKWELL 43 RC and above) and precision ground. Bed ways are made of special grey iron alloy, and aged at the Nardini Foundary to relieve internal stress and tension. Autocallimated bed ways permit true alignment and parallelism throughout the life of the lathe.



Electrical Equipment The electrical equipment used is

The electrical equipment used is made of the highest quality components. Klockner Moeller and Telemecanique electrical components offer high and low voltage protection with a 110V magnetic starter. GE Motors are supplied as our standard. The electrical panel conforms to "JIC STANDARD", designed for easy access and is fully protected from dust and contamination. Six "V" belt drive is used for positive and smooth power transmission.



Carriage

Four way rapid traverse that superimpose cutting feeds. Easy to read large dials have been designed to provide ultimate ease of operation. The Nardini carriage is guided by a long wee-way bearing surface providing smooth feeds and travel with maximum accuracy and minimal wear. Wide carriage is properly fitted to saddle base adding strength and reducing torsional twisting. Cross feed adjustment eliminates backlash, permitting greatest possible accuracy. Fully adjustable tapered gibs on cross slide and top slide provide to wear, compensation and long life. Hardened and ground gears are automatically lubricated. Leadscrew is used only for threading. Single lever provides rapid engagement of cross feed and longitudinal movement. Full length "T" sloton cross slide permits quick moun ting of rear tool post and other accessories.

Headstock

Rugged headstock design provides maximum efficiency in all forms of turning and finishing.

The short and riggidly supported spindle is made from Chromium, Nickel, Molybdenum alloy steel, case hardened and fully ground. Spindle largely dimensioned in respect to the stresses to which it might be subjected is supported on 3 points. The spindle turns on preloaded high precision "TIMKEN" taper roller bearings on the front and midle and needle bearings at the rear. All spindle assemblies are high speed dynamically balanced on a "SCHENCK" balancing machine.

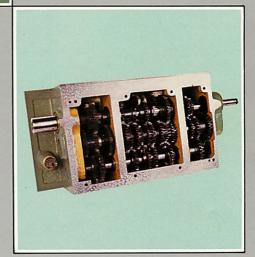
The ASA A1-11" spindle nose has a large hoje through the spindle of 4.3/4" (120mm).

The headstock provides 18 spindle speeds which are ingeometric progression and are easily selected.

All headstock gears are case hardened and "REISHAUER" ground with splined shafts which turn on antifriction bearings. Headstock lubrication system consists of automatic pump and oil bath with sight glass.

Spindle start, stop and reverse by double electromagnetic multidisc clutches and brake with dual control, from headstock and apron.

All test conditions and deviations are according to the ISO Norm 1708-1979 (E).



Universal Gear Box

The universal gear box allows immediate selection of both inch and metric threads without changing end gears. The totally enclosed gear box provides the user with one of the most comprehensive range of metric and inch feeds and threads.

All gears are hardened and are made of special alloy steel. The spline shaft is case hardened and turns on antifriction bearings.

Automatic pump and oil bath lubrication system creates cascade flow of oil. Adjustable safety overload feature disengages feed in case of excess stress and misuse of lahte.

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Specifications

CAPACITY	IN-2	000 T	IN-2500 T				
	inches	mm	inches	mm			
Height of centers	9. ⁷ / _B	250	12.3/4	325			
Distance between centers	40 to 160	1000 to 4000	40 to 160	1000 to 4000			
Swing over bed	19.11/16	500	25.5/8	650			
Swing over wings of saddle	18.1/8	460	23.1/4	590			
Swing over cross slide		290	17. 5/16	440			
(*) Swing in gap	27.15/16	710	33.7/8	860			
(*) Length of gap in front of faceplate	12.1/	310	12.1/4	310			
Cross slide travel	13	330	15.3/4	400			
Top slide travel	6.11/16	170	6.11/16	170			
Tool section	1.1/4 x 1.1/4	32 x 32	1.1/4 x 1.1/4	32 x 32			
BED		OL NOL	11.747 11.74	02 × 02			
Width	15.	380	15.	380			
Height	15.3/16	385	15.3/16	385			
HEADSTOCK							
Spindle nose (ASA)	A1-11"	A1-11"	A1-11"	A1-11"			
Spindle bore	4. 3/4	120	4.3/4	120			
Spindle internal taper	1:20	1:20	1:20	1:20			
Taper in induction sleeve (MT)	6	6	6	6			
Spindle speeds (number)	18	18	18	18			
Speeds range (RPM)	16 to 1250	16 to 1250	16 to 1250	16 to 1250			
TAILSTOCK							
Quill Diameter	3. 1/16	90	3. %16	90			
Quill travel	10.7/16	265	10.7/16	265			
Quill internal taper (MT)	5	5	5	5			
Lateral adjustment	5/8	15	5/8	15			
Two speeds quill	1:1/1:4	1:1/1:4	1:1/1:4	1:1/1:4			
GEAR BOX							
Number of threads	264	264	264	264			
Metric threads (mm)	(70) 0.4 - 35	(70) 0.4 - 35	(70) 0.4 - 35	(70) 0.4 - 35			
Inch threads (TPI)	(61) 42 - 2	(61) 42 - 2	(61) 42 - 2	(61) 42 - 2			
Module threads (Mod)	(68) 0.20 - 15	(68) 0.20 - 15	(68) 0.20 - 15	(68) 0.20 - 15			
Diametral Pitch threads (DP)	(65) 84 - 1.1/2	(65) 84 - 1.1/2	(65) 84 - 1.1/2	(65) 84 - 1.12			
Pitch of leadscrew (TPI)	4	4	4	4			
Number of feeds	216	216	040				
Cross feeds (108)		216 0.021-1.685mm/rev	216	216			
Longitudinal feeds (108)	0.0000-0.0003iii/fev		0.0008-0.0663in/rev	0.021-1.685mm/rev			
MOTORS	0.0033-0.2033III/rev	0.085-6.740mm/rev	0.0033-0.2653in/rev	0.085-6.740mm/rev			
Main motor (HP)	20	20	20	20			
Rapid traverse motor (HP)	3/4	3/4	3/4	20			
Coolant unit motor (HP)	1/4	1/2	1/	14			
(*) Optionai	8	18	(8)	8			
17-1-0101							

DIMENSIONS (PACKING) AND APROXIMATE WEIGHT

MODEL	DISTA	DISTANCE		DIMENSIONS						GROSS		NET		
	BETWEEN CENTERS		LENGTH W		WIDT	WIDTH H		HEIGHT		LUME	WEIGHT		WEIGHT	
	INCHES	ММ	INCHES	М	INCHES	М	INCHES	М	Ft ⁻³	M³	Lb	Kg	Lb	Kg
IN-2000T	40	1000	100	2,55	57	1,45	63	1,60	213	5,92	8560	3890	7080	3220
	60	1500	132	3,35	57	1,45	63	1,60	280	7.77	9810	4460	7900	3590
	80	2000	152	3,85	57	1,45	63	1,60	322	8,93	10910	4960	8710	3960
	120	3000	191	4,85	57	1,45	63	1,60	405	11,25	13110	5960	10340	4700
	160	4000	230	5,85	57	1,45	63	1,60	489	13,57	15270	6940	11970	5440
IN-2500T	40	1000	100	2,55	57	1,45	63	1,60	213	5.92	9810	4460	8340	3790
	60	1500	132	3,35	57	1,45	63	1,60	280	7,77	11070	5030	9150	4160
	80	2000	152	3,85	57	1,45	63	1,60	322	8,93	12170	5530	9970	4530
	120	3000	191	4,85	57	1,45	63	1,60	405	11,25	14370	6530	11600	5270
	160	4000	230	5,85	57	1,45	63	1,60	489	13.57	16522	7510	13220	6010

CHARACTERISTICS AND STANDARD EQUIPMENT

● One piece induction hardened and ground bed ● Six positions turret stop device ● Electromagnetic clutches and brake ● Steady rest with bearings (interchangeable broinze tips Ø 5/8" (15mm) to 5.15/16" (150mm)) ● Follow rest with bearings (interchangeable broinze tips Ø 5/8" (15mm) to 3.9/16" (90mm)) ● Four way power rapid traverse ● Splash guard up to 60" (1500mm) ● Top slide with "T" slot ● Chip pan ● Change gears ● Dual reading inch / metric dial ● Graduated quill (inch / metric) ● Coolant system ● MT5 and MT6 hardened centers ● Color: green RAL 6011 ■ Spindle reduction sleeve 1:20 x MT6 ● Thread cutting indicator ● Manual lubrication pump ● Left side apron handweel ● Tailstock with two speeds quill ● Service wrenches ● Set of leveling screws ● Adjustable feed shalt overload protection device ● Complete electrical equipment for 220V, 60Hz (110V-control) ● Operating and parts manual.

CHARACTERISTICS AND OPTIONAL EQUIPMENT

Fechnical specifications subject to change without notice