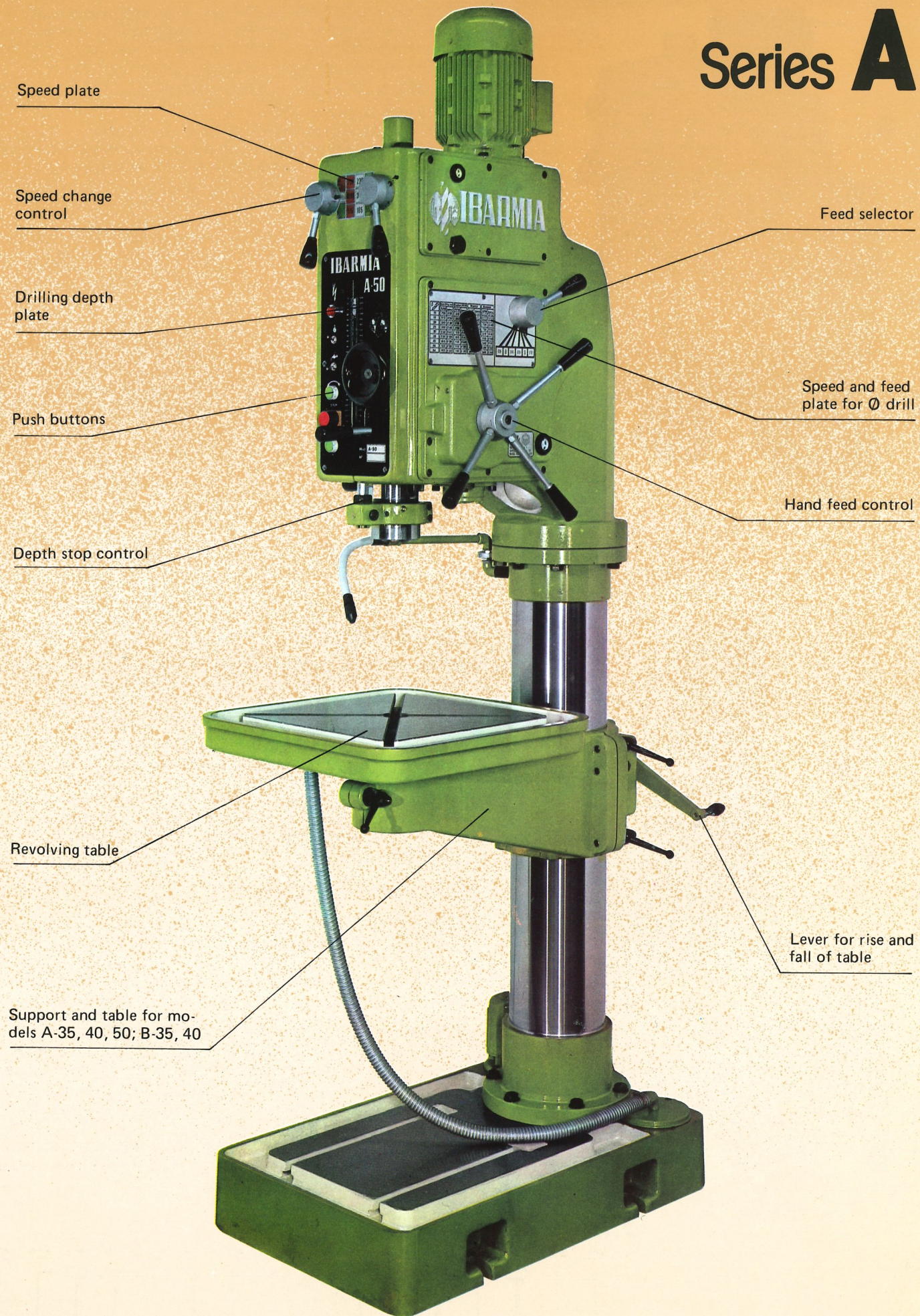
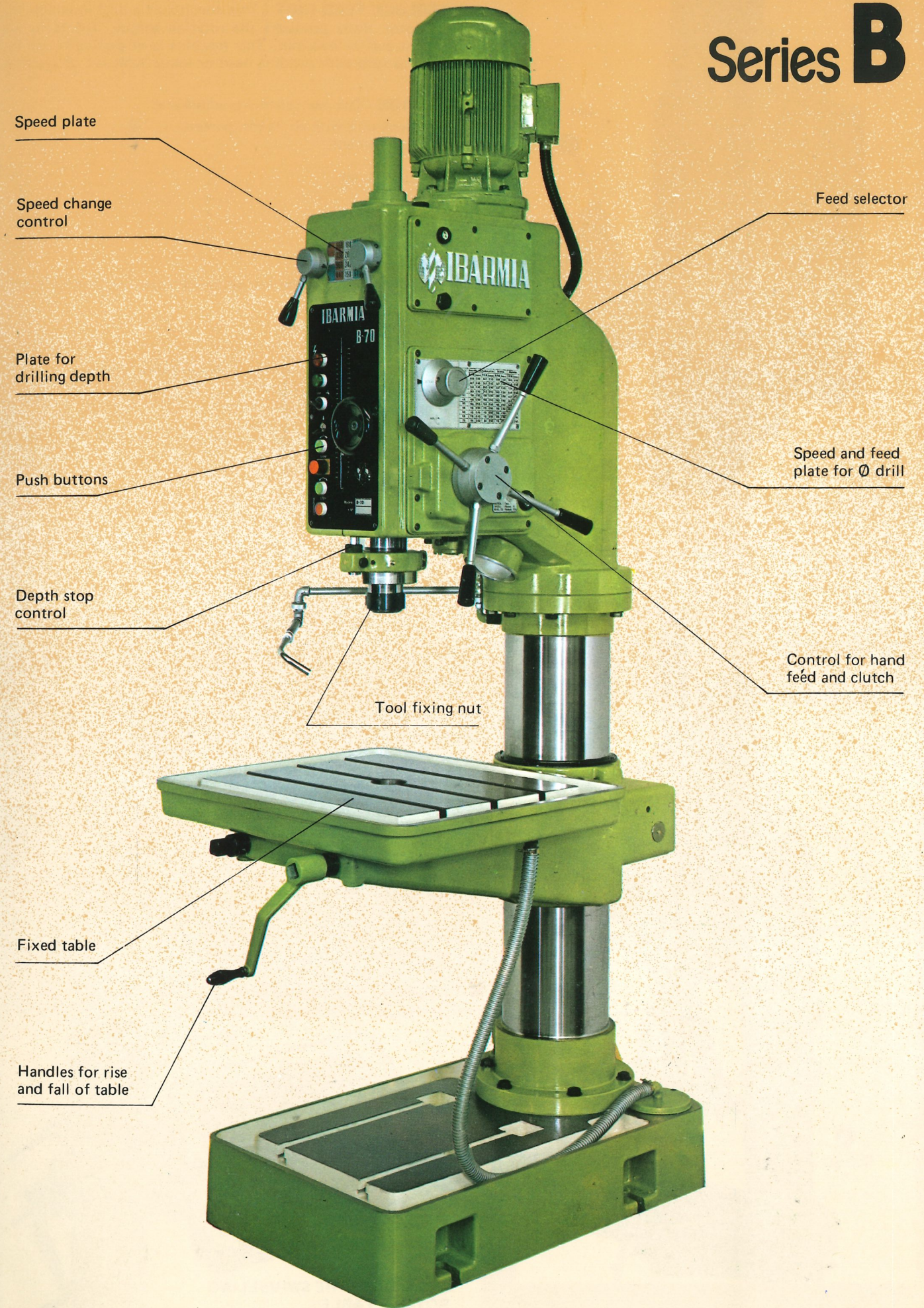
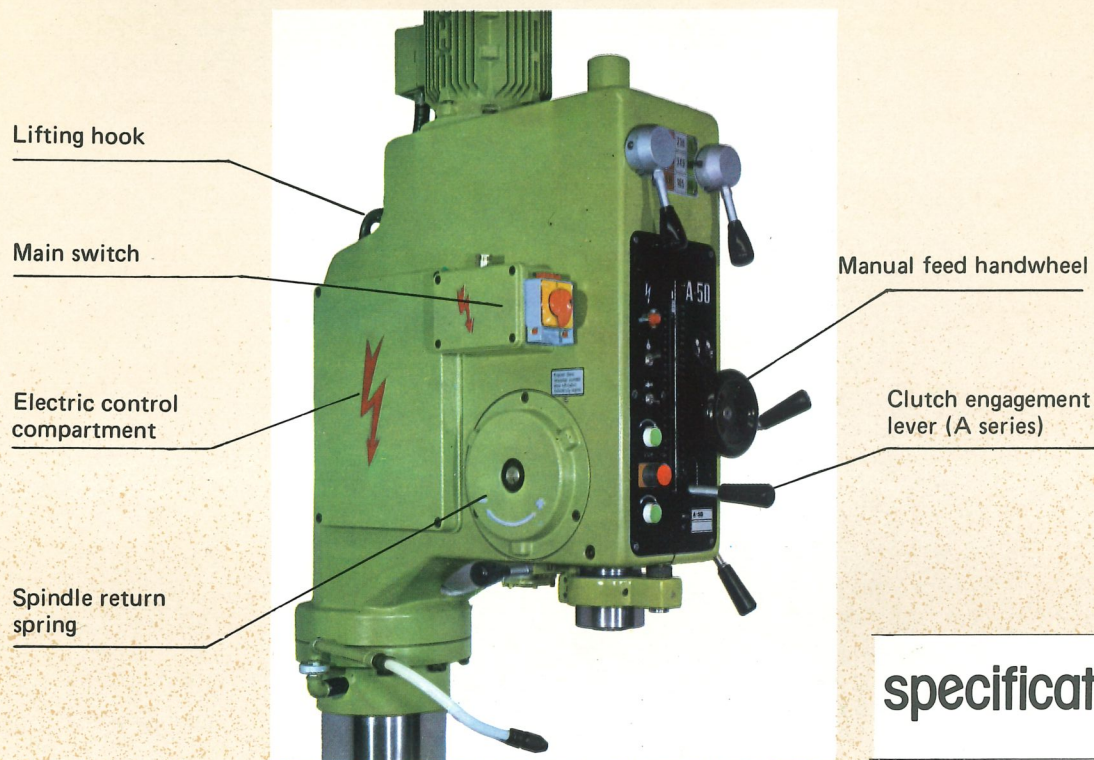


Series A



Series B





GEARBOX - Of heavy construction, all its components have been designed for long life, to resist breakage and wear. All the shafts are splined, case hardened, tempered and ground whilst the gears according to the model, and power to be transmitted are also induction hardened and tempered.

FEED BOX - Arranged for easy and quick operation. The shafts and gears are induction tempered or case hardened and tempered. The worm and worm wheel have also been treated to ensure optimum output and working life.

TORQUE LIMITER - The automatic feed system is protected by a torque limiter to prevent possible damage.

AUTOMATIC FEED - On models A the clutch engagement is mechanical, i.e. by operating a hand lever. On models B it is effected by electromagnetic clutch and can be operated by any of the four spokes on the manual feed handwheel.

CONTROLS - The position of the controls on the machine has been designed so that they can be handled by the operator without having to move from his normal working position. They are simple to understand and easy to operate.

MAIN SPINDLE - Made in case-hardened and tempered steel, ground overall and mounted in heavy duty precision bearings.

BASE-COLUMN-TABLE - Solid construction, suitably strengthened and cast in DING GG-22 quality steel with a Brinell hardness of 200 ± 10.

LUBRICATION - All internal mechanisms are lubricated by pump in a re-cycling system. The external mechanisms are lubricated through specific lubrication points. The lubrication between the head housing and the spindle sleeve is effected through special chambers which distribute the oil to the guide in quantities proportional to the speed and load.

COOLANT - All machines are fitted with an electric pump mounted on the base which serves as a tank. The coolant is circulated to the necessary point whilst the flow is regulated by a valve.

ELECTRICAL CONTROLS - Consists of the push buttons mounted at the front of the machine, contactors, relays etc., in a water-tight compartment at the side of the head, (limit switch for the automatic feed, clutch engagement and disengagement operated by the spokes on the handwheel on models B) low voltage lighting and mains entry switch on all models.

Motors running at 750, 900, 1000 and 1200 RPM can be supplied at extra cost.

DESCRIPTION - We have taken great pains to ensure that our machines have the highest quality finish, are very easy to operate and have extreme rigidity to give maximum output. They are protected by several patents and are marketed under series A and series B.

SERIES A - These machines are intended for drilling and are provided with mechanical clutches with independent control. The accessories that can be added for automation are —RPF— Tapping by master spindle with brake, —RS— Sensitive tapping and —HB— Hydroblock for independent feed. With this latter —HB— system the machine can be automated with other accessories such as dividing heads, linear scales etc.

SERIES B - Has all the advantages of series —A— but is improved with the inclusion of an electro-magnetic brake for actuating the automatic feed, operated by the four spokes of the sensitive feed, pressing with the same hand, machining times are reduced with the resultant increase in production. The repeatability of clutch disengagement under load is 0.05 mm within which tolerance blind holes can be drilled. This series has wide possibilities of automation in both versions by using the accessories available for the series —A— model as well as using others such as dividing heads, positioning tables, intermittent cycles for deep holes, etc.

Kr 33150 netto *f m cur* *38.270,- netto*

specification	A/35	A/40	A/50	B/35	B/40	B/50	B/60	B/70
Maximum drill capacity in steel 50/60 kg.	35 mm.	40 mm.	50 mm.	35 mm.	40 mm.	50 mm.	60 mm.	70 mm.
Maximum drill capacity in steel 50/60 kg. in production ..	25 mm.	30 mm.	40 mm.	25 mm.	30 mm.	40 mm.	50 mm.	60 mm.
Morse Taper No	4	4	4	4	4	4	5	5
Maximum drilling depth	200 mm.	200 mm.	230 mm.	200 mm.	200 mm.	230 mm.	260 mm.	260 mm.
Column diameter	160 mm.	180 mm.	200 mm.	160 mm.	180 mm.	200 mm.	220 mm.	240 mm.
Distance from column to spindle	400 mm.	385 mm.	370 mm.	400 mm.	385 mm.	370 mm.	400 mm.	390 mm.
Maximum distance from base to spindle	1125 mm.	1155 mm.	1200 mm.	1125 mm.	1155 mm.	1200 mm.	1145 mm.	1130 mm.
Maximum distance from table to spindle	710 mm.	690 mm.	720 mm.	710 mm.	690 mm.	720 mm.	745 mm.	675 mm.
Base dimensions	460x790 mm.	535x805 mm.	545x855 mm.	460x790 mm.	535x805 mm.	545x855 mm.	580x900 mm.	600x920 mm.
Table dimensions	510x510 mm.	510x510 mm.	570x570 mm.	510x510 mm.	510x510 mm.	550x650 mm.	600x700 mm.	660x775 mm.
Distance between T slots	In cross	In cross	In cross	In cross	In cross	125 mm.	125 mm.	137 mm.
Width of the T slots	16x26 mm.	16x26 mm.	18x30 mm.	16x26 mm.	16x26 mm.	18x30 mm.	18x30 mm.	18x30 mm.
Number of speeds	9	9	9	9	9	9	12	12
Speed range with motor 1450 rpm 50 HZ (Standard)	73-103-149 232-325-472 695-976-1415	61-85-123 191-269-390 574-806-1169	54-75-109 169-237-344 507-712-1032	73-103-149 232-325-472 695-976-1415	61-85-123 191-269-390 574-806-1169	54-75-109 169-237-344 507-712-1032	64-80-106 138-199-248 328-429-561 701-926-1210	51-64-84 110-158-198 262-342-447 559-738-966
Number of feeds	4	4	4	4	4	6	6	6
Feed range mm/min.	0,10-0,20 0,30-0,40	0,10-0,20 0,30-0,40	0,10-0,20 0,30-0,40	0,10-0,20 0,30-0,40	0,10-0,20 0,30-0,40	0,10-0,20-0,30 0,40-0,50-0,60	0,10-0,20-0,30 0,40-0,50-0,60	0,10-0,20-0,30 0,40-0,50-0,60
Power of main motor	2 HP	3 HP	4 HP	2 HP	3 HP	4 HP	5,5 HP	7,5 HP
Power of electric pump motor	0,12 HP	0,12 HP	0,12 HP	0,12 HP	0,12 HP	0,12 HP	0,12 HP	0,12 HP
Feed and automatic cut-out by mechanical clutch	Yes	Yes	Yes	No	No	No	No	No
Feed and automatic cut-out by electromagnetic clutch	No	No	No	Yes	Yes	Yes	Yes	Yes
Fitting of tapping unit with master	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fitting of sensitive tapping unit	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Automatic tool ejector	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Built-in light	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Total height of machine	2205 mm.	2280 mm.	2365 mm.	2205 mm.	2280 mm.	2365 mm.	2440 mm.	2530 mm.
Speed range with motor at 1000 rpm 50 HZ	54 a 1032	41 a 783	37 a 718	54 a 1032	41 a 783	37 a 718	40 a 748	34 a 640
Speed range with motor at 750 rpm 50 HZ	37 a 718	31 a 593	27 a 523	37 a 718	31 a 593	27 a 523	32 a 603	25 a 483
Speed range with motor at 1715 rpm 60 HZ	89 a 1721	73 a 1415	66 a 1255	89 a 1721	73 a 1415	66 a 1255	76 a 1446	62 a 1120
Speed range with motor at 1200 rpm 60 HZ	61 a 1169	54 a 1032	46 a 878	61 a 1169	54 a 1032	46 a 878	54 a 1012	40 a 748
Speed range with motor at 900 rpm 60 HZ	46 a 878	37 a 718	31 a 593	46 a 878	37 a 718	31 a 593	40 a 748	31 a 560
Net weight of machine	510 kg.	640 kg.	810 kg.	510 kg.	640 kg.	810 kg.	910 kg.	1040 kg.
Gross weight	650 kg.	780 kg.	1010 kg.	650 kg.	780 kg.	1010 kg.	1100 kg.	1250 kg.
Volume	1,56 m3	1,67 m3	1,81 m3	1,56 m3	1,67 m3	1,81 m3	2,21 m3	2,83 m3
Dimensions of sea worthy packing	1050x620x2400	1050x650x2450	1080x680x2460	1050x620x2400	1050x650x2450	1080x680x2460	1100x780x2580	1180x890x2700