



SP

S-90

S-90 VS

**Conventional precision
Lathes**

MAIN CHARACTERISTICS

Pinacho

Main Characteristics

Machines designed in accordance with International Standards. Employing proven technology, and manufactured using the best quality materials available.

Working out of spacious, modern facilities, equipped for high productivity and quality. Using high precision verification tools and strict quality control.

Due to their strength, accuracy and durability, as well as ease of use, our machines are perfect for all kinds of industry, and for educational purposes.

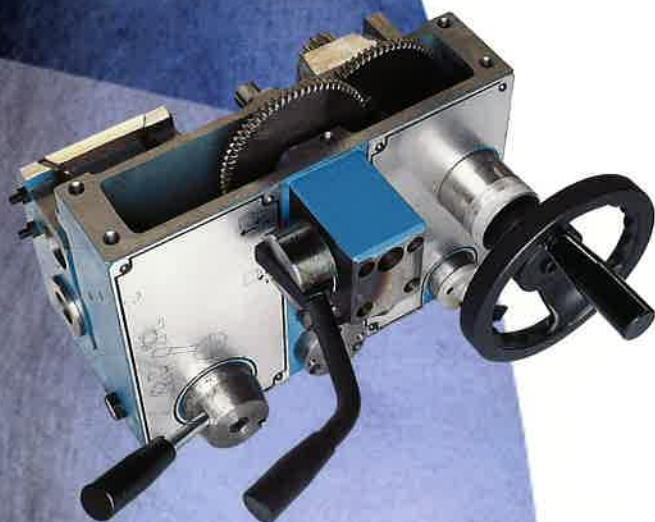
With a high chip removal rate during the rough-turning operation, and the ability to produce very fine surface finishes, they enable the maintenance of strict tolerance.

The apron casing is completely enclosed. It is supplied with a safety device which prevents the thread and feed mechanisms acting simultaneously.

You have access to a wide range of threads and feeds without having to perform any change of gears in the machine's quadrant plate.

All the gears and shafts of the Headstock, Thread and Feed Box, and Apron are made of high resistance steel, hardened and ground. Shafts are mounted on needle bearings, and everything is lubricated in an oil bath.

The well proportioned headstock has a high working capacity. The casing is made from 25 GG casting, strongly ribbed, giving the machine great rigidity.



Pinacho

MAIN CHARACTERISTICS

Main Characteristics

Machines designed in accordance with International Standards. Employing proven technology, and manufactured using the best quality materials available.

Working out of spacious, modern facilities, equipped for high productivity and quality. Using high precision verification tools and strict quality control.

Due to their strength, accuracy and durability, as well as ease of use, our machines are perfect for all kinds of industry, and for educational purposes.

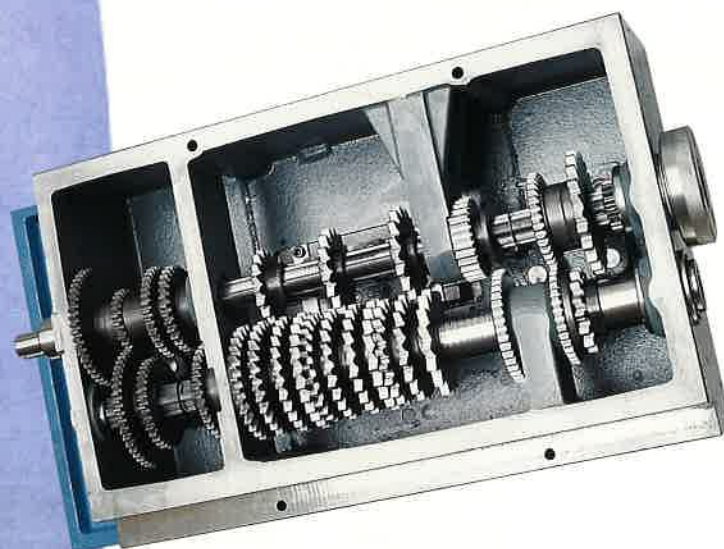
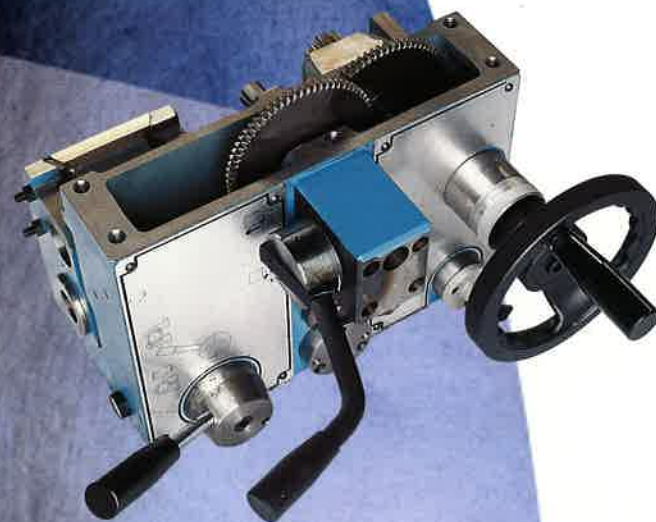
With a high chip removal rate during the rough-turning operation, and the ability to produce very fine surface finishes, they enable the maintenance of strict tolerance.

The apron casing is completely enclosed. It is supplied with a safety device which prevents the thread and feed mechanisms acting simultaneously.

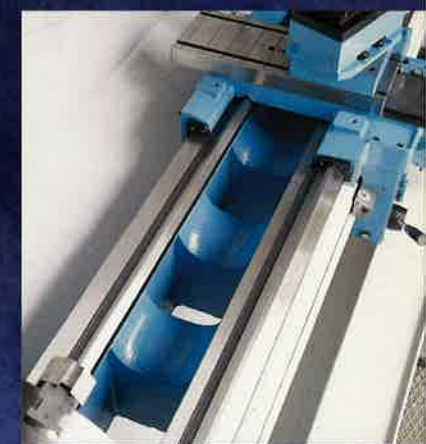
You have access to a wide range of threads and feeds without having to perform any change of gears in the machine's quadrant plate.

All the gears and shafts of the Headstock, Thread and Feed Box, and Apron are made of high resistance steel, hardened and ground. Shafts are mounted on needle bearings, and everything is lubricated in an oil bath.

The well proportioned headstock has a high working capacity. The casing is made from 25 GG casting, strongly ribbed, giving the machine great rigidity.



The bed is built from special casting, which is strongly ribbed, giving the machine great rigidity. Bed ways are hardened and ground with high precision. Hardness: 400-450 Brinell



The balanced main spindle duly proportioned and of high rigidity, is mounted on highly accurate tapered roller bearings, having great loading capacity.

DIN MAIN SPINDLE



CAMLOCK MAIN SPINDLE

Slides and carriages are well proportioned and move easily and gently. The cross slide and the top slide are equipped with adjustable steel taper rulers.

The cross screw, induction hardened and ground, is mounted on needle bearings providing great accuracy and durability.

Both the main electrical system (housed in an isolated cabinet), and the on-switch (centralised on the apron), are equipped with IP-44 protection.

The tailstock is strongly built. The hardened and ground shank is provided with an extractor. The screw is mounted on bearings with great working capacity.



		MOD. SP/165	MOD. SP/180	MOD. SP/200	MOD. SP/250
CAPACITY					
Centre height	mm	165	180	200	250
Centre distance	mm	750-1000	750-1000	750-1000	1150-1650
Swing over bed	mm	330	360	400	500
Swing over gap	mm	485	515	555	695
Swing over carriage	mm	310	340	380	470
Swing over cross slide	mm	175	205	245	310
Bed width	mm	250	250	250	300
Gap length in front of face plate	mm	120	120	120	160
HEADSTOCK					
Main spindle bore	mm	42	42	42	52
Main spindle nose		DIN 55027-Nº 5 CAMLOCK Nº 5	DIN 55027-Nº 5 CAMLOCK Nº 5	DIN 55027-Nº 5 CAMLOCK Nº 5	DIN55027-Nº 6 CAMLOCK Nº 6
Main spindle taper		4	4	4	4
Speed range	rpm	60-2000	60-2000	60-2000	40-2200
No. of speeds		9	9	9	12
THREAD AND FEED BOX					
Longitudinal feeds	44 55	0,05 - 0,75	0,05 - 0,75	0,05 - 0,75	0,05 - 0,75
Cross feeds	44 55	0,025 - 0,375	0,025 - 0,375	0,025 - 0,375	0,025 - 0,375
Metric threads	44 55	0,5 - 7,5	0,5 - 7,5	0,5 - 7,5	0,5 - 7,5
Whitworth threads in t.p.i	44 55	60 - 4	60 - 4	60 - 4	60 - 4
Modular threads	44 55	0,25 - 3,75	0,25 - 3,75	0,25 - 3,75	0,25 - 3,75
Diametral Pitch threads	44 55	120 - 8	120 - 8	120 - 8	120 - 8
Thread of Lead screw	mm	6	6	6	6
SLIDES AND CARRIAGE					
Cross slide travel	mm	245	245	245	300
Top slide travel	mm	120	120	120	130
Maximum tool dimension	mm	16 x 16	20 x 20	20 x 20	25 x 25
TAILSTOCK					
Tailstock shank diameter	mm	48	48	48	58
Tailstock shank travel	mm	140	140	140	155
Tailstock taper		3	3	3	4
MOTORS					
Main motor power in	Kw	2,2	3	4	5,5
Pump motor power in	Kw	0.06	0.06	0.06	0.06
STEADIES					
Max-min capacity of fixed steady	mm	10 - 115	10 - 115	10 - 130	20 - 220
Max-min capacity of travelling steady	mm	10 - 70	10 - 70	10 - 80	20 - 135



SP

MOD. SP/165 MOD. SP/180 MOD. SP/200 MOD. SP/250

CAPACITY

Centre height	mm	165	180	200	250
Centre distance	mm	750-1000	750-1000	750-1000	1150-1650
Swing over bed	mm	330	360	400	500
Swing over gap	mm	485	515	555	695
Swing over carriage	mm	310	340	380	470
Swing over cross slide	mm	175	205	245	310
Bed width	mm	250	250	250	300
Gap length in front of face plate	mm	120	120	120	160

HEADSTOCK

Main spindle bore	mm	42	42	42	52
Main spindle nose		DIN 55027-Nº 5	DIN 55027-Nº 5	DIN 55027-Nº 5	DIN 55027-Nº 6
Main spindle taper		CAMLOCK Nº 5	CAMLOCK Nº 5	CAMLOCK Nº 5	CAMLOCK Nº 6
Speed range	rpm	60-2000	60-2000	60-2000	40-2200
No. of speeds		9	9	9	12

THREAD AND FEED BOX

Longitudinal feeds	44 55	0,05 - 0,75	0,05 - 0,75	0,05 - 0,75	0,05 - 0,75
Cross feeds	44 55	0,025 - 0,375	0,025 - 0,375	0,025 - 0,375	0,025 - 0,375
Metric threads	44 55	0,5 - 7,5	0,5 - 7,5	0,5 - 7,5	0,5 - 7,5
Whitworth threads in t.p.i	44 55	60 - 4	60 - 4	60 - 4	60 - 4
Modular threads	44 55	0,25 - 3,75	0,25 - 3,75	0,25 - 3,75	0,25 - 3,75
Diametral Pitch threads	44 55	120 - 8	120 - 8	120 - 8	120 - 8
Thread of Lead screw	mm	6	6	6	6

SLIDES AND CARRIAGE

Cross slide travel	mm	245	245	245	300
Top slide travel	mm	120	120	120	130
Maximum tool dimension	mm	16 x 16	20 x 20	20 x 20	25 x 25

TAILSTOCK

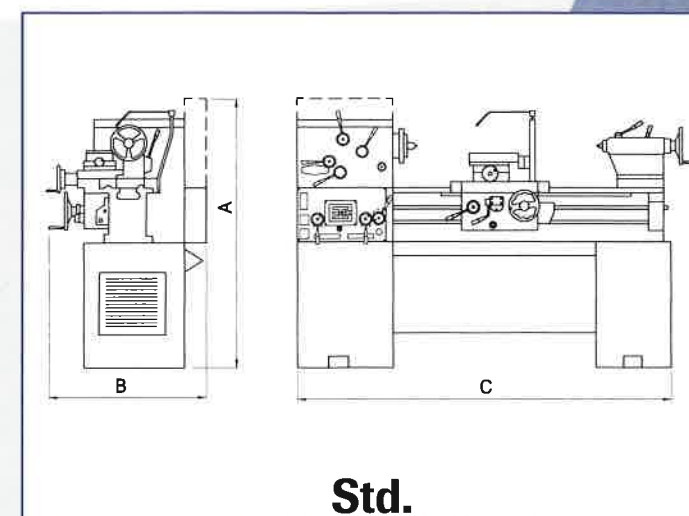
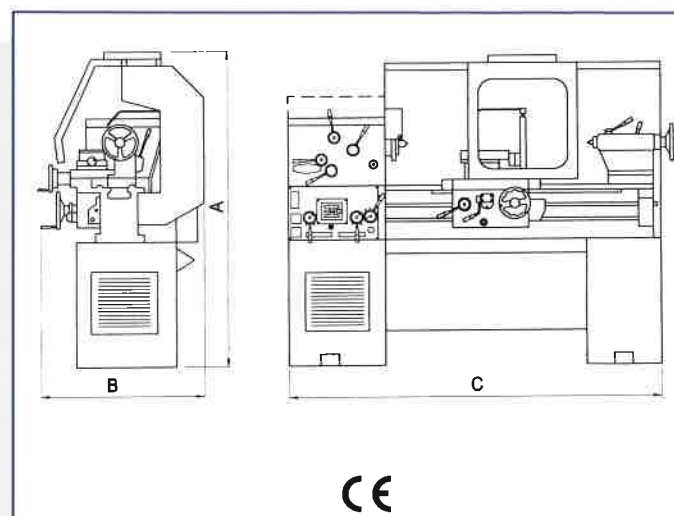
Tailstock shank diameter	mm	48	48	48	58
Tailstock shank travel	mm	140	140	140	155
Tailstock taper		3	3	3	4

MOTORS

Main motor power in	Kw	2,2	3	4	5,5
Pump motor power in	Kw	0.06	0.06	0.06	0.06

STEADIES

Max-min capacity of fixed steady	mm	10 - 115	10 - 115	10 - 130	20 - 220
Max-min capacity of travelling steady	mm	10 - 70	10 - 70	10 - 80	20 - 135



		SP/165 S-90/165 S-90VS/165 SP/180 S-90/180 S-90VS/180 SP/200	S-90/200 S-90VS/200	S-90/225 S-90VS/225 SP/250	S-90/250-105	S-90/260 S-90VS/260	S-90/310 S-90VS/310	S-90/285-155
		750 1000	1150	1150 1650	1150 1625	1150 1625 2225 3150	1150 1625 2225 3150	1150 1625 2225 3150
A	Std.	1285 1285	1380 1380	1380 1380	1380 1380	1470 1470	1470 1470	1520 1520
	€ €	1485 1485	1620 1620	1620 1620	1620 1620	1730 1730	1730 1730	1845 1845
B	Std.	950 950	995 995	995 995	1015 1015	1050 1050	1050 1050	1050 1050
	€ €	950 950	995 995	995 995	935 935	1050 1050	1050 1050	1100 1100
C	Std.	1900 2170	2380 2380	2880 2880	2420 2900	2475 2980	3600 4500	2475 2980
	€ €	1900 2170	2380 2380	2880 2880	2420 2900	2475 2980	3600 4500	2475 2980

		SP/165 S-90/165 S-90VS/165	SP/180 S-90/180 S-90VS/180	SP/200	S-90/200 S-90VS/200	S-90/225 S-90VS/225	SP/250	S-90/250-105	S-90/260 S-90VS/260	S-90/310 S-90VS/310	S-90/285-155
		750 1000	750 1000	750 1000	1150	1150 1650	1150 1650	1150 1625	1150 1625 2225 3150	1150 1625 2225 3150	1150 1625 2225 3150
Net Weight	Std.	750 770	760 780	870 890	1140	1190 1280	1165 1255	1310 1400	1510 1615	1785 2080	1630 1680
	€ €	880 900	890 910	930 950	1210	1260 1350	1235 1325	1380 1470	1690 1795	1985 2280	1700 1805

		SP/165 S-90/165-90VS/165 SP/180 S-90/180 S-90VS/180 SP/200	S-90/200 S-90VS/200	S-90VS/225 SP/250 S-90/250-105	S-90/260 S-90VS/260 S-90/310 S-90VS/310	S-90/285-155
		750 1000	1150	1150 1650	1150 1625 2225 3150	1150 1625 2225 3150
A	Std.	2.01 2.29	2.49	2.49 2.99	2.58 3.11 3.72 4.65	2.83 3.36 3.97 4.90
	€ €	2.01 2.29	2.49	2.49 2.99	2.58 3.11 3.72 4.65	2.83 3.36 3.97 4.90
B	Std.	1.05 1.05	1.14	1.14 1.14	1.20 1.20 1.20 1.20	1.20 1.20 1.20 1.20
	€ €	1.00 1.00	1.14	1.14 1.14	1.15 1.15 1.15 1.15	1.15 1.15 1.15 1.15
C	Std.	1.60 1.60	1.79	1.79 1.79	1.88 1.88 1.88 1.88	1.88 1.88 1.88 1.88
	€ €	1.84 1.84	2.00	2.00 2.00	2.20 2.20 2.20 2.20	2.20 2.20 2.20 2.20

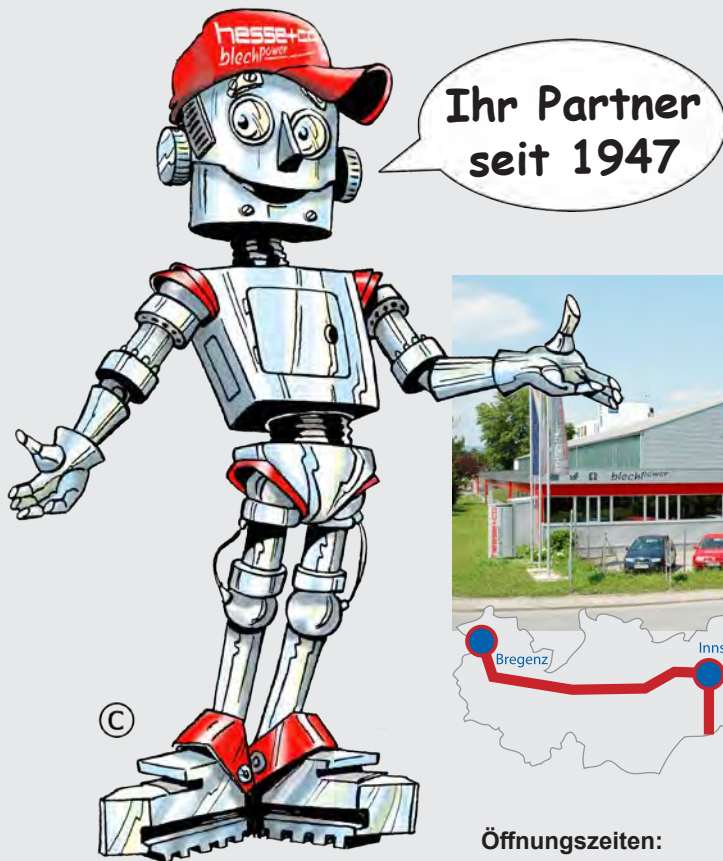
Vertrauen Sie auf über 70 Jahre Erfahrung!

Die Firma HESSE+CO wurde 1947 als Hersteller von Blechbearbeitungsmaschinen gegründet. Seit 1980 sind wir auf den Handel mit neuen sowie gebrauchten Blechbearbeitungs- und Werkzeugmaschinen spezialisiert. Wir haben ständig etwa 300 Maschinen in unserer 2.000 m² großen Ausstellungshalle, die nur 20 Minuten vom internationalen Flughafen Wien entfernt ist.

Trust in more than 70 years of experience!

HESSE+CO was established in 1947 as a manufacturer of sheet metal working machines. Since 1980 we are specialized in dealing with new and second hand sheet metal processing machines and machine tools. We always have approximately 300 machines available in our 2.000 m² showroom, which is located only 20 minutes from the Vienna International Airport, waiting for your inspection.

www.hesse-maschinen.com



Öffnungszeiten:

Mo - Do 8:00 - 16:30 Uhr
Fr 8:00 - 14:30 Uhr

HESSE+CO Maschinenfabrik GmbH
Industriezentrum NÖ-Süd
Straße 4 - Objekt 8
A-2351 Wiener Neudorf
AUSTRIA

hesse **hesse+co**
blechpower
maschinen und werkzeuge

Technische Änderungen, Irrtum und Druckfehler vorbehalten.
Gültig bis auf Widerruf.

Tel.: +43/2236/638 70-0
Fax: +43/2236/636 62
office@hesse-maschinen.com
www.hesse-maschinen.com
www.blechpower.com