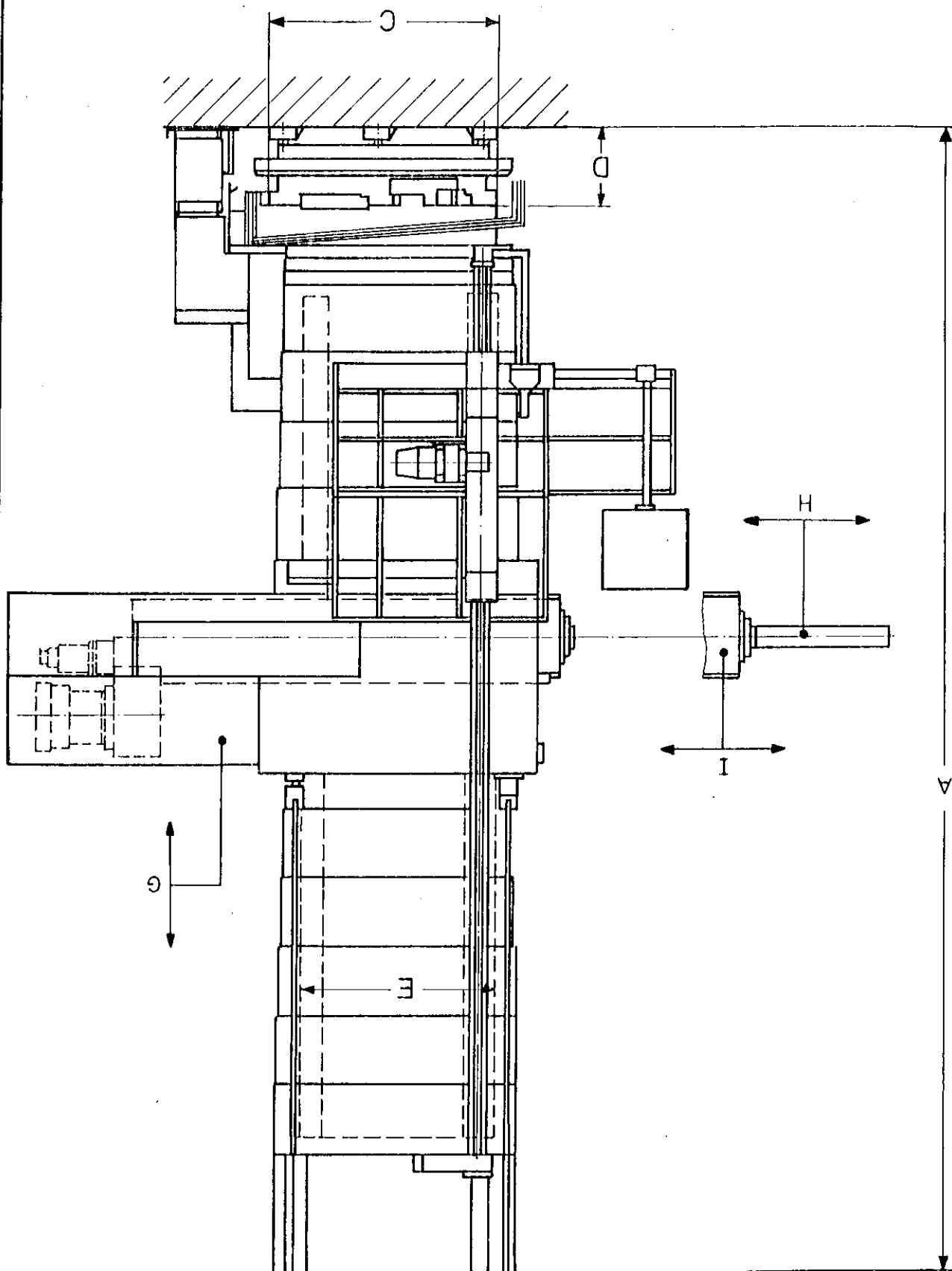


Chapter	Title / Subtitle
1.1	View of the entire machine
1.2	Working Ranges
1.3	Capacities
1.4	Tool Location

Main dimensions and traverse ranges



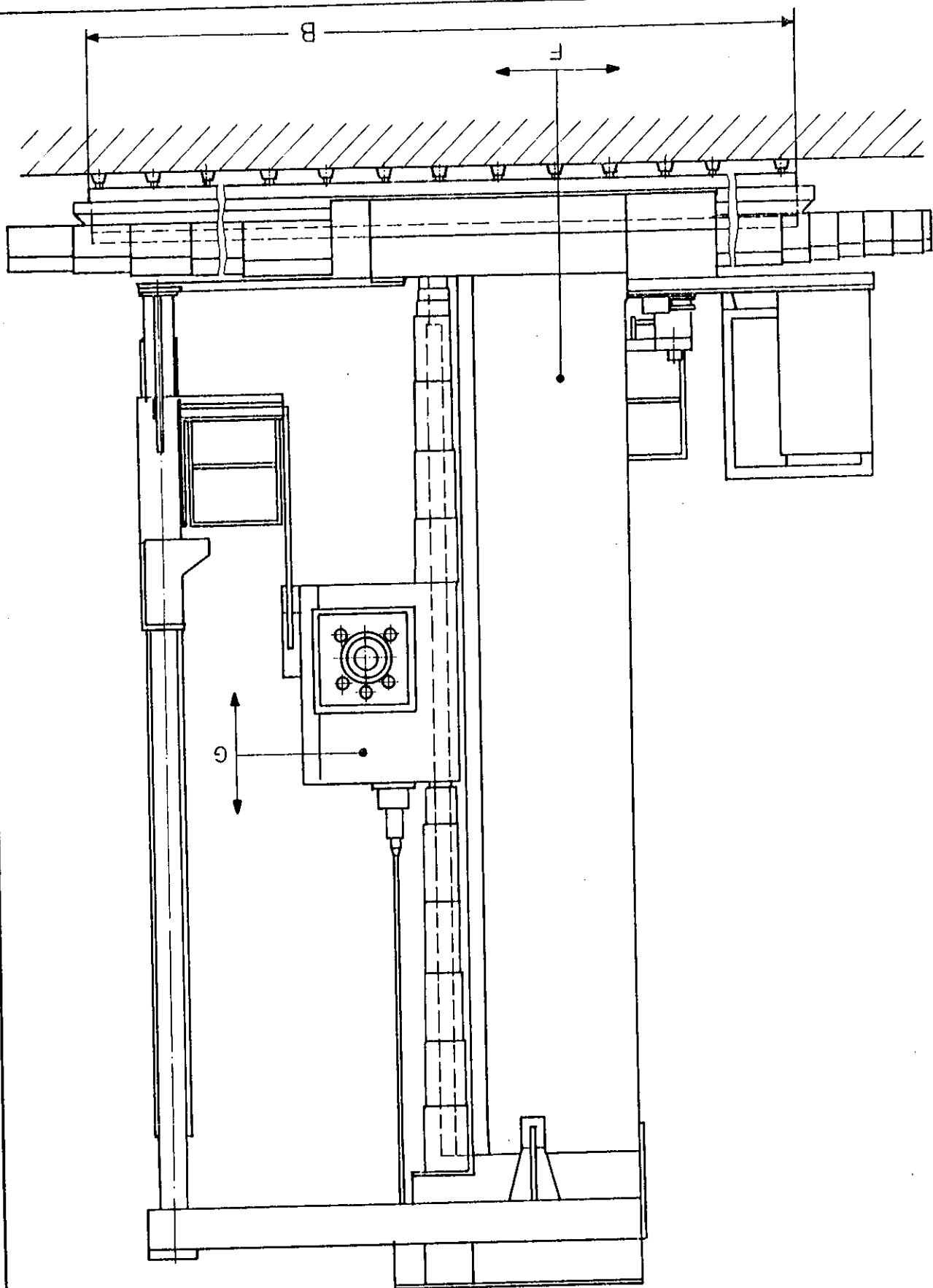
SCHIESS
FRORIEP

MACHINE SPECIFICATIONS

Working Ranges

1.2 - 2
A 1

Main Dimensions and traverse ranges



133916 1.2-2 R1 (FBM)

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MACHINE SPECIFICATIONS

Working Ranges

1.2 - 3
A 13

Main dimensions and traverse ranges

A - Total height of the machine	8890 mm
B - Length of the bed	21000 mm
C - Width of the bed	1700 mm
D - Height of the bed	420 mm
E - Distance between column-guideways	1600 mm
Headstock Cross section	340 x 400 mm
Diameter of milling spindle	290 mm
Diameter of boring spindle	180 mm
Boring spindle tool location	ISO 60
F - Column traverse (X-axis)	18500 mm
G - Column saddle traverse (Y-axis)	4500 mm
H - Boring spindle traverse (Z-axis)	950 mm
I - Headstock traverse (W-axis)	900 mm

SCHIESS FRORIEP	MACHINE SPECIFICATIONS Working Ranges	1.2 - 4 A 2
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Speeds, Feeds, Traverse Rates

Spindle speed (infinitely variable)

Speed ranges (selected electro-hydraulically)

Progressive ratio

Spindle speed	
Range I	3,15 - 63 - 125 RPM
Range II	6,3 - 125 - 250 RPM
Range III	12,5 - 250 - 500 RPM
Range IV	25 - 500 - 1000 RPM
Base speed	
	63 RPM

Feed (infinitely variable)

X - axis (Column)	0,1 - 5600 mm/min
Y - axis (Column saddle)	0,1 - 5600 mm/min
Z - axis (Boring spindle)	0,1 - 5600 mm/min
W - axis (Headstock)	0,1 - 5600 mm/min

Logging speeds

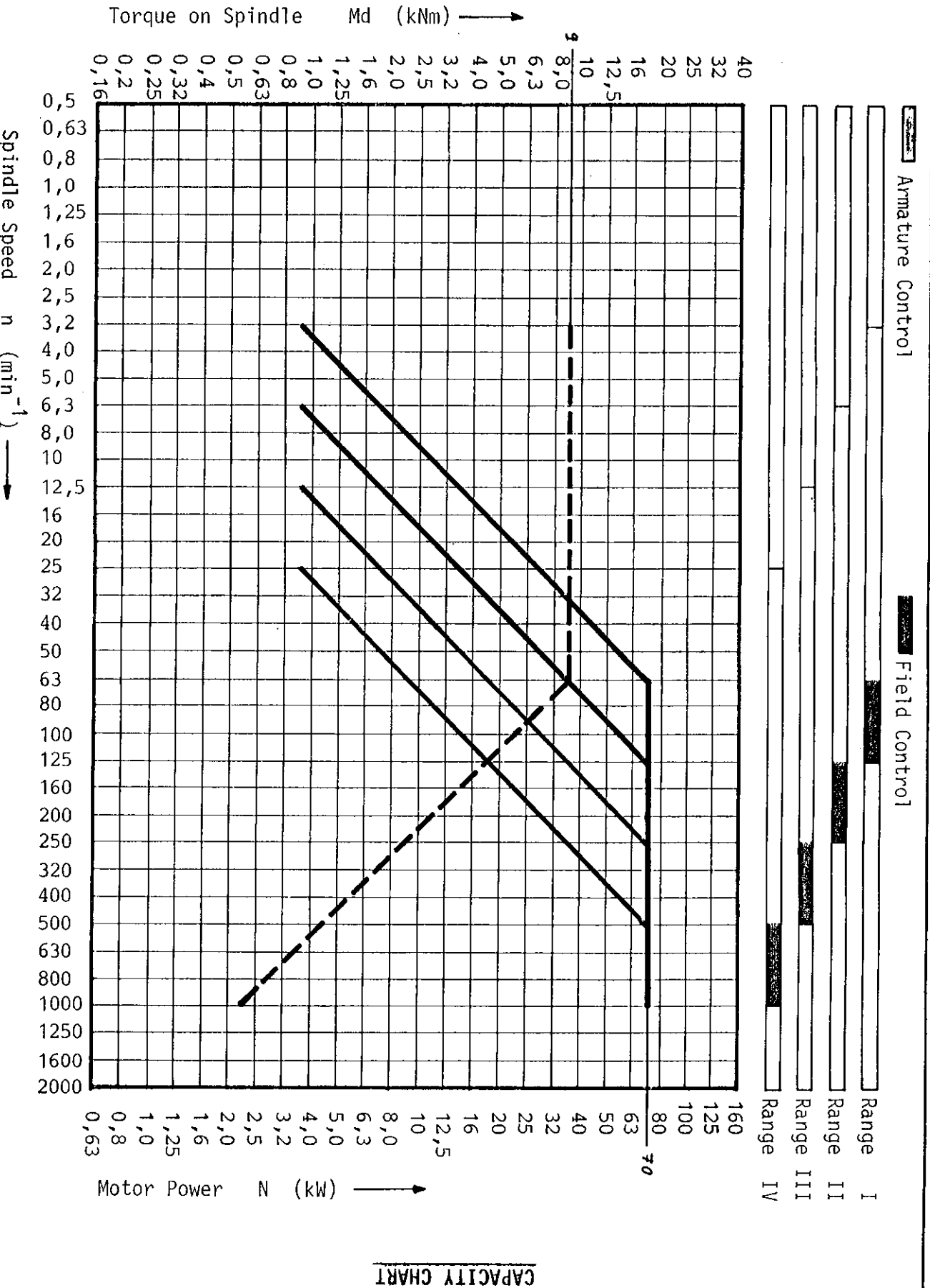
X - and Y-axis	3 mm/min
	30 mm/min
	600 mm/min
Z - and W-axis	3 mm/min
	30 mm/min
	600 mm/min

Rapid traverse

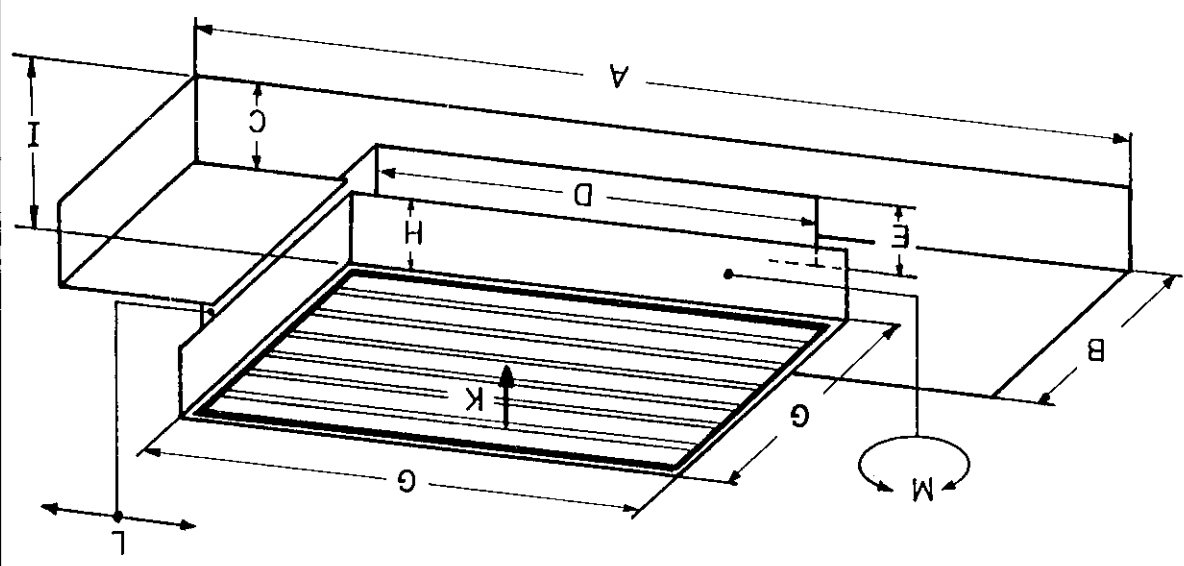
X - and Y-axis	5600 mm/min
Z - and W-axis	5600 mm/min

SCHIESS FROBIEP	MACHINE SPECIFICATIONS	1.3 - 1 A 3/1
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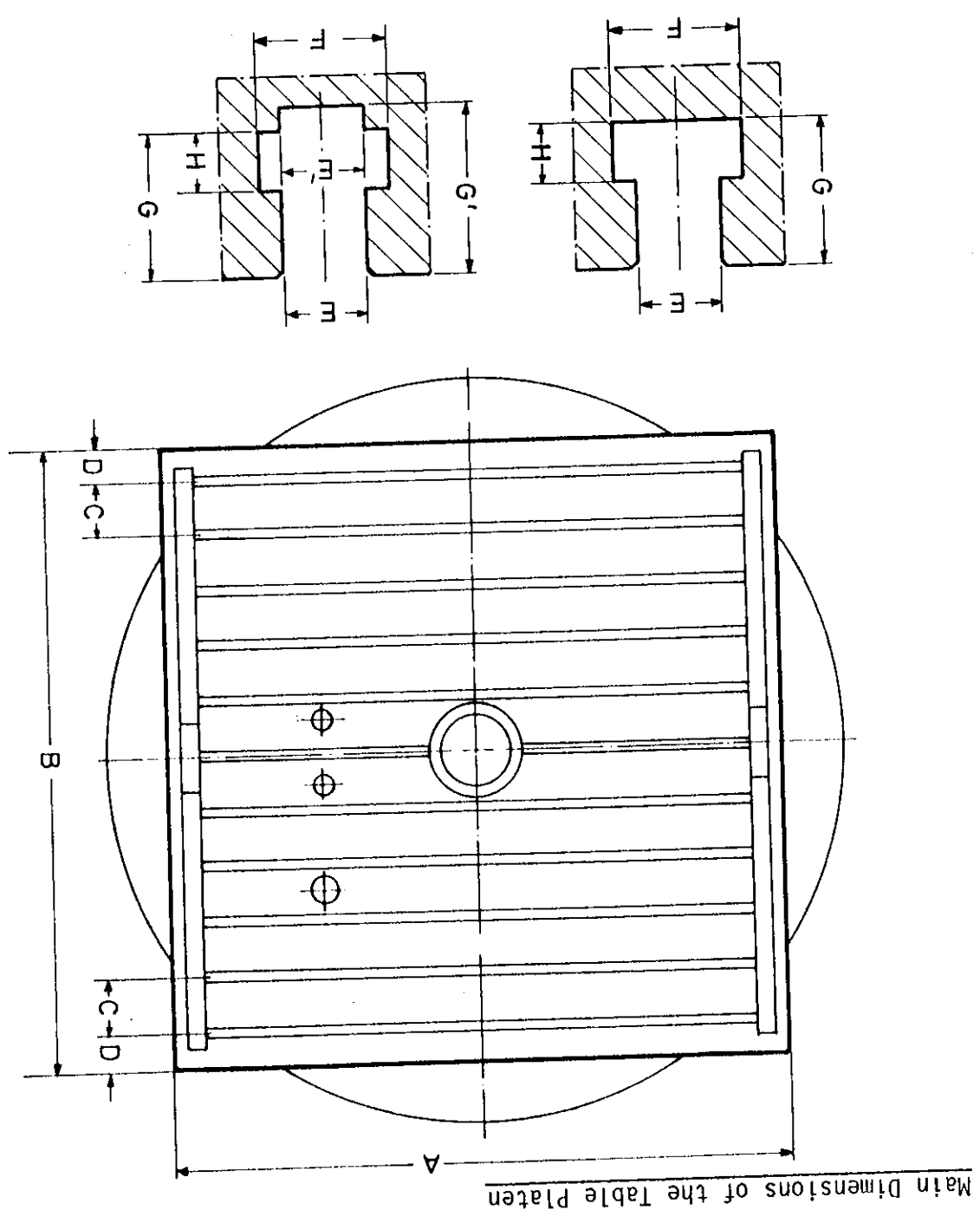
Main drive	Siemens 1GF 5202	85 kW	Motor power	limited to	63 - 1750 - 3500 min ⁻¹	9000 Nm	Maximum torque at the boring spindle
Feed drives	X - axis, Motor	Motor power	Torque	Max. speed	1500 min ⁻¹	65 Nm	4,8 kW
Y - axis, Motor	Siemens 1HU 3132	3,3 kW	Torque	Max. speed	1500 min ⁻¹	47 Nm	3,3 kW
Z - axis, Motor	Siemens 1HU 3108	5,8 kW	Torque	Max. speed	2000 min ⁻¹	38 Nm	5,8 kW
W - axis, Motor	Siemens 1HU 3108	5,8 kW	Torque	Max. speed	2000 min ⁻¹	38 Nm	5,8 kW



Main dimensions and traverse ranges



A - Length of the bed	4100 mm
B - Width of the bed	1500 mm
C - Height of the bed	325 mm
D - Cross section of the bedslide	1900 x 1900 mm
E - Height of the bedslide	275 mm
F - Table main support diameter (corner support)	2400 mm
G - Table area	2250 x 2250 mm
H - Height of the table	275 mm
I - Height of the rotary table	875 mm
K - Max. concentric load on table	45000 kg
L - Longitudinal traverse (V-axis)	2000 mm
M - Rotation of the table (B-axis)	360 °



SCHIESS PROFIER	MACHINE SPECIFICATION Capacities	1.3 - 1 A 13
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Feed Drives

V - Axis,	Motor	Siemens 1HU 3104
(Table longitudinally)	Power	4,3 kW
Turning moment		25 Nm
Max. Speed		2000 min ⁻¹
B - Axis,	Motor	Siemens 1HU 3104
(Rotary axis)	Power	4,3 kW
Turning moment		25 Nm
Max. Speed		2000 min ⁻¹

Electrical Equipment

Feed Drives

With closed loop controlled DC-motors for both axes.
The control is effected by means of thyristor units.

The entire power supply is derived from the connection to the associated boring and milling machine.