# High precision lathe 225-CNC Oi-TF D1-3"



Rue Nomlieutant 1 2735 Bévilard Switzerland T +41 32 491 67 00 info@smsa.ch www.smsa.ch

## Technical data 0225-002

Machining capacity	D1-3"	
Max. swing	270	[mm]
Max. permissible swing over carriage		[mm]
Max. permissible swing over bed		[mm]
Center height over carriage		[mm]
Center height over bed		
Distance between spindle nose and headstock cover		[mm]
listance between spindle nose face and turret/slide face	445	[mm]
Spindle CAMLOCK D1-3"		
Spindle for SCHAUBLIN collets	B32	
spindle speed	0 - 5'000	[min
Continuous torque spindle / intermittenly	23 / 62	[Nm]
ower, continuous / intermittent	3,7 / 7.5	[kW]
pindle ID (without chuck key)	28	[mm
fax. bar capacity with W20 collet	14.5	[mm
fax. bar capacity with W25 collet		[mm
fax. bar capacity with W31.75 collet		[mm
fax. bar capacity with B32 collet	24	[mm
ecommended max. swing	150	[mm
neumatic clamping system	option	
djustable axial clamping force, at 5 bar	1'150	[daN
fax. spindle speed	Without limitation	[min
.ever-type quick-clamping system	option	
Max. spindle speed	4'000	[min
	4 000	[11111111
	4 000	[111111
Spindle interlock		
Spindle interlock Pneumatic spindle interlock, interlocking moment at 5 bar		
Spindle interlock Pneumatic spindle interlock, interlocking moment at 5 bar C axis	50	[Nm]
Spindle interlock Pneumatic spindle interlock, interlocking moment at 5 bar C axis Programmable increment	0.0001	
Spindle interlock neumatic spindle interlock, interlocking moment at 5 bar  axis rogrammable increment	50	[Nm
spindle interlock neumatic spindle interlock, interlocking moment at 5 bar  axis rogrammable increment iterpolation	0.0001	[Nm
spindle interlock neumatic spindle interlock, interlocking moment at 5 bar  axis rogrammable increment sterpolation  cross slide	0.0001	[Nm
Spindle interlock neumatic spindle interlock, interlocking moment at 5 bar  Caxis rogrammable increment interpolation  Cross slide ransverse stroke, X axis rogrammable increment, X axis (on diameter)	0.0001 X-Z 136 0.0001	[Nm.
Spindle interlock Pneumatic spindle interlock, interlocking moment at 5 bar C axis	0.0001 X-Z 136 0.0001 1,2	[Nm] [°] [mm] [mm] [kW]
Spindle interlock neumatic spindle interlock, interlocking moment at 5 bar  Caxis rogrammable increment interpolation  Cross slide ransverse stroke, X axis rogrammable increment, X axis (on diameter)  C motor drive orque, continuous/intermittent	0.0001 X-Z 136 0.0001 1,2 7 / 15	[Nm
Spindle interlock neumatic spindle interlock, interlocking moment at 5 bar  Caxis rogrammable increment interpolation  Cross slide ransverse stroke, X axis rogrammable increment, X axis (on diameter)  C motor drive orque, continuous/intermittent all screw, dia. x pitch	0.0001 X-Z 136 0.0001 1,2	[Nm
spindle interlock neumatic spindle interlock, interlocking moment at 5 bar  c axis rogrammable increment sterpolation  cross slide ransverse stroke, X axis rogrammable increment, X axis (on diameter)  C motor drive orque, continuous/intermittent all screw, dia. x pitch	136 0.0001 1,2 7 / 15 20 x 5	[Nm [°] [mm [kW] [Nm [mm
Spindle interlock neumatic spindle interlock, interlocking moment at 5 bar  Caxis rogrammable increment nterpolation  Cross slide ransverse stroke, X axis rogrammable increment, X axis (on diameter)  C motor drive orque, continuous/intermittent all screw, dia. x pitch ongitudinal stroke, Z axis rogrammable increment, Z axis rogrammable increment, Z axis	0.0001 X-Z 136 0.0001 1,2 7 / 15 20 x 5 410	[Nm [°]
Spindle interlock Ineumatic spindle interlock, interlocking moment at 5 bar  Caxis Irrogrammable increment Interpolation  Cross slide Irrogrammable increment, X axis Irrogrammable increment, X axis (on diameter)  C motor drive Irroque, continuous/intermittent Itall screw, dia. x pitch Irrogrammable increment, Z axis Irrogrammable increment, Z axis Irrogrammable increment, Z axis	0.0001 X-Z 136 0.0001 1,2 7 / 15 20 x 5 410 0.0001	[Nmm [°] [mmm [kW] [mmmm] [mmmm] [mmmmmmm] [mmmmmmmmmmmm
spindle interlock neumatic spindle interlock, interlocking moment at 5 bar  c axis rogrammable increment interpolation  cross slide ransverse stroke, X axis rogrammable increment, X axis (on diameter)  C motor drive orque, continuous/intermittent all screw, dia. x pitch ongitudinal stroke, Z axis rogrammable increment, Z axis C motor drive	0.0001 X-Z 136 0.0001 1,2 7/15 20 x 5 410 0.0001 1,2	[Nmm [°] [mmm [kW] [mmmm] [kW] [kW] [mmmm] [kW] [mmmm] [kW] [mmmm] [kW] [mmmm] [kW] [mmmm] [kw] [mmmm] [kw] [kw] [mmmm] [kw] [mmmm] [kw] [kw] [kw] [mmmm] [kw] [kw] [kw] [kw] [kw] [kw] [kw] [kw
Spindle interlock neumatic spindle interlock, interlocking moment at 5 bar  Caxis rogrammable increment interpolation  Cross slide ransverse stroke, X axis rogrammable increment, X axis (on diameter)  C motor drive orque, continuous/intermittent all screw, dia. x pitch ongitudinal stroke, Z axis rogrammable increment, Z axis C motor drive orque, continuous/intermittent	0.0001 X-Z 136 0.0001 1,2 7/15 20 x 5 410 0.0001 1,2	[Nmm [°] [mmm [kW] [mmmm] [kW] [mmmm] [kW] [Nmmm] [kw] [kw] [kw] [kw] [kw] [kw] [kw] [kw
Spindle interlock Pneumatic spindle interlock, interlocking moment at 5 bar  C axis Programmable increment Interpolation  Cross slide Pransverse stroke, X axis Programmable increment, X axis (on diameter)	0.0001 X-Z  136  0.0001  1,2  7 / 15  20 x 5  410  0.0001  1,2  7 / 15	[Nm [°] [mm [kW] [Nm [mm [mm [kW]
Spindle interlock Ineumatic spindle interlock, interlocking moment at 5 bar  C axis Irogrammable increment Interpolation  Cross slide Irogrammable increment, X axis Irogrammable increment, X axis (on diameter)  C motor drive Iroque, continuous/intermittent Itall screw, dia. x pitch Irogrammable increment, Z axis Irogrammable increment, Z a	0.0001 X-Z  136  0.0001  1,2  7 / 15  20 x 5  410  0.0001  1,2  7 / 15	[Nm [°] [mm [kW] [Nm [mm [kW] [Nm [kW]
Spindle interlock Ineumatic spindle interlock, interlocking moment at 5 bar  Caxis Irogrammable increment Interpolation  Cross slide Irogrammable increment, X axis Irogrammable increment, X axis Irogrammable increment, X axis (on diameter)  C motor drive Iroque, continuous/intermittent Itall screw, dia. x pitch Irogrammable increment, Z axis Irogrammable increment, Z ax	0.0001 X-Z  136 0.0001 1,2 7/15 20 x 5 410 0.0001 1,2 7/15 32 x 5	[Nm [°] [mm [kW] [Nm [mm [kW] [Nm [kW]

# High precision lathe 225-CNC 0i-TF D1-3"



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## Technical data 0225-002

Possible number of radial tool holders (according to Ø of the piece)         2 € 5           Possible number of front tool holders (according to Ø of the piece)         2 € 5           Max. cross section of tool shark (Multifix system)         16 x 16 [mm]           Max. cross section of tool shark (Tripan system)         6 x 10 mm]           Tool clamping for collets         8 x 20 mm]           Bar holder dia.         0 20 mm]           Screw-type tailstock           Intend taper of the sleeve         Mo 2 signed on 0 mm]           Spinde OD         3 5 mm]           Spinde Stoke         100 mm]           Collant supply           Tank capacity         5 5 mm]           Pump performance         0.63 mm]           Pump performance         0.63 mm]           Pump performance         4 6 mm]           Pump performance         0.63 mm]           Pump performance         0.63 mm]           Pump performance         0.63 mm]           Pump performance         0.63 mm]     <	Tooling: Linear		
Rossible number of front tool holders (according to 0 of the piece)         2 ± 5           Max. cross section of tool shank (Multifix system)         16 x 16           Tool clamping for collets         ESX 20           Bar holder dia.         625 x 20           Screw-type tailstock           Internal taper of the sleeve         Mo 2           Spindle OD         35 fm           Spindle oD         35 fm           Spindle stroke         100 gm           Tool capacity         5 fm           Tank capacity         5 fm           Pump performance         0.63 gm           Pump capacity         30 gm           Presure of pump         4 fm           Presure of pump         4 fm           Presure of pump         4 fm           Presure of pump         1 fm           Mn./max, pneumatic pressure         4 fm           Mn./max, pneumatic pressure         4 fm           Yee         1 fm           Specifical functions         1 fm           Spindle stroke         2 fm           Type of connection         1 fm           Clear and treatments         1 fm           Type of connection         1 fm           Clear treatments         2 fm<		2	
Max. cross section of tool shank (Militin system)         16 k 16 mm           Max. cross section for flool shank (Tripan system)         16 k 10 mm           Tool clamping for colletis         ESX 20           Ber holder dis.         20 mm           Screw-type tailstock         8 mm           Istendal paper of the slocky         30 mm           Spindle OD         30 mm           Spindle Stoke         30 mm           Coolant supply         55 mm           Pump performance         0.68 mm           Pump performance         0.68 mm           Pump capacity         30 mm           Pressure of pump         2 mm           Pressure of pump         4 c           Pressure of pump         4 c           Pressure of pump         4 c           Min/max, pneumatic pressure         <			
		16 x 16	[mm]
Real holder dia.	Max. cross section of tool shank (Tripan system)	16 x 16	[mm]
Internal taper of the sleeve	Tool clamping for collets	ESX 20	
Protection at mains and company to the palent of the machine of the palent of greated of the palent of the palent of the palent of greated of the palent o	Bar holder dia.	Ø20	[mm]
Spindle OD         35 mm           Spindle stroke         100 mm           Coclast supply         55 mm           Pump performance         0,63 mm           Pump performance         0,63 mm           Pressure of pump         20 mm           Pressure of pump         4 mm           Presumatic consumption         4 mm           Min/max, pneumatic pressure         4 mm         6 mm           Young of connection         1 mm         6 mm           Quality of the air         Clean and of carrier         1 mm         6 mm           gerage consumption         0 mm         7 mm         7 mm           Districtal power supply         4 mm         7 mm         7 mm         7 mm           Electrical power supply         4 mm         7	Screw-type tailstock		
Spindle stroke         100         Imm           Coolant supply         55         I/V           1 min performance         0,68         I/W           1 min performance         0,68         I/W           1 min performance         0,28         I/W           Pressure of pump         32         [vini]           Presumatic consumption         31         6           Min./max. pneumatic pressure         4 - 6         6 ar           Min./max. pneumatic pressure         1.46         6           Min./max. pneumatic pressure         1.47         6           Quality of the air         Clean and dry         6           average consumption         1.46         6           Pixpe of connection         1.47         6           Quality of the air         Clean and dry         6           average consumption         2.0         6           Bleated trusted fluctuations         4.0         7           Fleetertical power supply         50         6           Other Voltage         4.0         1           Floetact aff fluctuations         4.7         5           Floetact aff fluctuations         4.7         5           Request         5.0<	Internal taper of the sleeve	Mo 2	
Coolant supply           Tank capacity         55 [N]           Pump performance         0.68 [W]           Pump capacity         32 [Min]           Pressure of pump         2 [Min]           Pressure of pump         4 6 [Min]           Min/max. pneumatic pressure         4 6 [Min]           Type of connection         1/4" [G]           Quality of the air         Clean and dry           average consumption         8 7 [Min]           Betectrical power supply         5 [Min]           Voltage         40 [Min]           Other Voltage         90 [Min]           Other Voltage         90 [Min]           Tolerated fluctuations         4 7 [Min]           Read current         1 2 [Min]           Read current         1 2 [Min]           Power consumption of the machine         8 [Min]           Overall dimensions: length x depth x height         1 (60 x 1 200 x 1 (60 m)           Verall dimensions: length x depth x height         1 (60 x 1 200 x 1 (60 m)           Overall dimensions: length x depth x height         1 (60 x 1 200 x 1 (60 m)           Dimensions of the pallet         2 (70 x 1 (20 m)           Load per square meter for one machine (in the workshop with many machines)         1 (60 x 1 (20 m)	Spindle OD	35	[mm]
Tank capacity         5.5 (Mexica)           Pump performance         0,63 (Mexica)           Pump capacity         3.2 (min)           Pressure of pump         2 (min)           Pressure of pump         3.2 (min)           Pressure of pump         4.6 (Min)           Investing the sum of sum of the sum o	Spindle stroke	100	[mm]
Pump performance         0.68 km²           Pump capacity         32 km²           Pressure of pump         12 km²           Pressure of pump         3 km²           Min./max, pneumatic pressure         4 - 6 km²           Min./max, pneumatic pressure         4 - 6 km²           Type of connection         14 km²           Quality of the air         Clean and dry           average consumption         0 to 10 km²           Electrical power supply         5 km²           Stelestical power supply         4 km²           Voltage         4 km²           Other Voltage         9 km²           Stelestical fluctuations         4 km²           Frequency         5 km²           Other Voltage         9 km²           Frequency         5 km²           Folloristed fluctuations         4 km²           Frequency         5 km²           Folloristed fluctuations         4 km²           Protection at mains end         2 km²           Protection at mains end         2 km²           Power consumption of the machine         1 km²           Overall dimensions: length x depth x height         1 km²           Approx. net weight of the machine (including oil)         1 km²     <	Coolant supply		
Pump capacity         32         [/min/mox. pressure of pump         2         [/min/max. pressure of pump         32         [/min/max. pressure of pump         34         [/min/max. pressure of pump         4.6         [/min/max. pressure of pump of p	Tank capacity	55	[1]
Presure of pump         2           bar             Presure for one submit of pressure         4 - 6   bar             bar             Clean and day             Clean a	Pump performance	0,63	[kW]
Pneumatic consumption         4 - 6 [bar] [bar]           Min./max. pneumatic pressure         4 - 6 [bar]           Type of connection         1/4" [G]           Quality of the air         Clean and dry average consumption         5.0 [m³/h]           Electrical power supply         8.0 [M]           Fleetrical power supply         4.0 [M]         [M]           Other Voltage         9.0 [M]         [M]           Other Voltage         9.0 [M]         [M]           Frequency         5.0/60 [M]         [M]           Rated current         1.2 [A]         [M]           Rated current         1.2 [A]         [M]           Power consumption of the machine         3.3 [M]           Power consumption of the machine         1.2 [A]           Power consumption of the machine (including oil)         [M]           Overall dimensions: length x depth x height         1.160 x 1.200 x 1.63 [M]           Approx. net weight of the machine (including oil)         1.2 [M]           Floor load         1.2 [M]           Load per square meter for one machine (in the workshop with many machines)         4.15 [M]           Dimensions of the pallet         2.070 x 1.20 [M]           Weight of the pallet         2.070 x 1.20 [M]           Center height over floor	Pump capacity	32	[l/min]
Min./max. pneumatic pressure         4 - 6 [par]           Type of connection         1/4" [c]           Quality of the air         Clean and dry           average consumption         0.5" [m³/h]           Electrical power supply           Voltage         400 [M]           Tolerated fluctuations         +7-5 [%]           Other Voltage         option [M]           Frequency         50/60 [M-12]           Tolerated fluctuations         +7-5 [%]           Rated current         12 [A]           Power consumption of the machine         8.3 [kvA]           Obstruction and weight           Overall dimensions: length x depth x height         1'660 x 1'200 x 1'630 [mm]           Approx. net weight of the machine (including oil)         1'200 [kg]           Floor load         1'750 [kg/m²]           Load per square meter for one machine (in the workshop with many machines)         415 [kg/m²]           Dimensions of the pallet         2'070 x 1'200 [mm]           weight of the pallet         2'070 x 1'200 [mm]           Load per square meter for one machine (in the workshop with many machines)         415 [kg/m²]           Dimensions of the pallet         2'070 x 1'200 [mm]           Length height over floor         1'200 [mm] <td< td=""><td>Pressure of pump</td><td>2</td><td>[bar]</td></td<>	Pressure of pump	2	[bar]
Type of connection         1/4" Clean and or variance consumption         1/4" Clean and variance consumption         1/4" Clean and variance consumption         1/4" Clean and variance consumption consumption of the machine         1/4" Clean and variance consumption of the machine consumption of the consumption of the machine consumption of the machine co	Pneumatic consumption		
Quality of the air         Clean and dry parage consumption         Clean and dry parage consumption         [m³/m]           Electrical power supply         Voltage         400         [y]           Tolerated fluctuations         4-6         [%]           Other Voltage         option         [Hz]           Other Voltage         50/60         [Hz]           Tolerated fluctuations         4-6         [%]           Tolerated fluctuations         4-7         [%]           Rated current         12         [A]           Protection at mains end         25         [A]           Power consumption of the machine         3.3         [kv]           Power consumption of the machine         3.3         [kv]           Power consumption of the machine         1.660 x 1'200 x 1'620         [kw]           Power consumption of the machine (including oil)         1'660 x 1'200 x 1'620         [kg]           Approx. net weight of the machine (including oil)         1'200         [kg]           Load per square meter for one machine (in the workshop with many machines)         418         [kg/m²]           Dimensions of the pallet         2'070 x 1'200         [mm]           weight of the pallet         130         [kg]           Center height over floor	Min./max. pneumatic pressure	4 - 6	[bar]
Electrical power supply         400 [M]           Voltage         400 [M]           Other Voltage         9010 [M]           Frequency         50/60 [M2]           Tolerated fluctuations         4/-5 [%]           Frequency         50/60 [M2]           Tolerated fluctuations         4/-5 [%]           Rated current         12 [A]           Protection at mains end         25 [A]           Power consumption of the machine         8.3 [kvA]           Obstruction and weight         1'660 x 1'200 x 1'630 [mm]           Approx. net weight of the machine (including oil)         1'200 [kg]           Floor load         1'500 [kg]           Load per square meter for one machine (in the workshop with many machines)         415 [kg/m²]           Dimensions of the pallet         2'070 x 1'200 [mm]           weight of the pallet         2'070 x 1'200 [mm]           Lubrication of slideways and ball screws         Manual           Kind of X slideways lubrication         Manual           Kind of J ball screws lubrication         Mobil Vactra Nr 2           Kind of J ball screws lubrication         Lifetme lubrication	Type of connection	1/4"	[G]
Electrical power supply         400 [M]           Voltage         400 [M]           Tolerated fluctuations         4-7 [M]           Other Voltage         option [M]           Frequency         50/60 [M-z]           Tolerated fluctuations         4-7 [M]           Rated current         1 [M]           Protection at mains end         2 [M]           Power consumption of the machine         8.3 [kv]           Obstruction and weight         8.3 [kv]           Overall dimensions: length x depth x height         1'660 x 1'200 x 1'630 [mm]           Approx. net weight of the machine (including oil)         1'200 [kg]           Floor load         1'750 [kg/m²]           Load per square meter for one machine (in the workshop with many machines)         415 [kg/m²]           Dimensions of the pallet         2'070 x 1'200 [mm]           weight of the pallet         1'30 [mm]           Weight of the pallet         1'30 [mm]           Center height over floor         1'20 [mm]           Wind of X slideways lubrication         Manual           Kind of Z slideways lubrication         Mobil Vacta Nr 2 [mm]           Kind of Z ball screws lubrication         Lifetime lubrication	Quality of the air	Clean and dry	
Voltage         400         M           Tolerated fluctuations         +/- 5         [%]           Other Voltage         option         M           Frequency         50/60         IAZ           Tolerated fluctuations         +/- 5         [%]           Tolerated fluctuations         +/- 5         [%]           Rated current         12         [A]           Protection at mains end         25         [A]           Power consumption of the machine         8.3         [kvA]           Power consumption of the machine         8.3         [kvA]           Powerl dimensions: length x depth x height         1'660 x 1'200 x 1'630         [mm]           Approx. net weight of the machine (including oil)         1'200         [kg]           Floor load         1'750         [kg/m²]           Load per square meter for one machine (in the workshop with many machines)         415         [kg/m²]           Dimensions of the pallet         2'070 x 1'200         [mm]           weight of the pallet         130         [kg]           Center height over floor         1'200         [mm]           Which of X slideways lubrication         Manual           Kind of Z slideways lubrication         Mobil Vactra Nr 2	average consumption	0.5	[m <sup>3</sup> /h]
Tolerated fluctuations         +/- 5	Electrical power supply		
Other Voltage         option         IV           Frequency         50/60         IHz           Tolerated fluctuations         4/-5         [%]           Rated current         12         [A]           Protection at mains end         25         [A]           Power consumption of the machine         8.3         [kvA]           Obstruction and weight           Overall dimensions: length x depth x height         1'660 x 1'200 x 1'630         [mm]           Approx. net weight of the machine (including oil)         1'200         [kg]           Floor load         1'750         [kg/m²]           Load per square meter for one machine (in the workshop with many machines)         41'50         [kg/m²]           Dimensions of the pallet         2'070 x 1'200         [mm]           weight of the pallet         2'070 x 1'200         [mm]           Center height over floor         1'20         [km]           Lubrication of slideways and ball screws         Manual           Kind of X slideways lubrication         Manual           Kind of grease or oil         Mobil Vactra Nr 2           Kind of Z ball screws lubrication         Lifetime lubrication           Kind of Z ball screws lubrication         Manual	Voltage	400	[V]
Frequency         50/60         [Hz]           Tolerated fluctuations         #/- 5         [%]           Rated current         12         [A]           Protection at mains end         25         [A]           Power consumption of the machine         8.3         [kvA]           Obstruction and weight           Overall dimensions: length x depth x height         1'660 x 1'200 x 1'630         [mm]           Approx. net weight of the machine (including oil)         1'200         [kg/m²]           Floor load         1'750         [kg/m²]           Load per square meter for one machine (in the workshop with many machines)         415         [kg/m²]           Dimensions of the pallet         2'070 x 1'200         [mm]           weight of the pallet         130         [kg]           Center height over floor         1'200         [mm]           Lubrication of slideways and ball screws           Kind of X slideways lubrication         Manual           Kind of grease or oil         Mobil Vactra Nr 2           Kind of grease or oil         Mobil Vactra Nr 2           Kind of X ball screws lubrication         Lifetime lubrication	Tolerated fluctuations	+/- 5	[%]
Tolerated fluctuations         +/- 5         [%]           Rated current         12         [A]           Protection at mains end         25         [A]           Power consumption of the machine         8.3         [kvA]           Obstruction and weight           Overall dimensions: length x depth x height         1'660 x 1'200 x 1'630         [mm]           Approx. net weight of the machine (including oil)         1'200         [kg]           Floor load         1'750         [kg/m²]           Load per square meter for one machine (in the workshop with many machines)         415         [kg/m²]           Dimensions of the pallet         2'070 x 1'200         [mm]           weight of the pallet         130         [kg]           Center height over floor         1'200         [mm]           Lubrication of slideways and ball screws         Kind of X slideways lubrication         Manual           Kind of Z slideways lubrication         Manual         Kind of grease or oil         Mobil Vactra Nr 2           Kind of X ball screws lubrication         Lifetime lubrication         Kind of X ball screws lubrication	Other Voltage	option	[V]
Rated current         12 [A]           Protection at mains end         25 [A]           Power consumption of the machine         8.3 [kvA]           Obstruction and weight           Overall dimensions: length x depth x height         1'660 x 1'200 x 1'630 [mm]           Approx. net weight of the machine (including oil)         1'200 [kg]           Floor load         1'750 [kg/m²]           Load per square meter for one machine (in the workshop with many machines)         415 [kg/m²]           Dimensions of the pallet         2'070 x 1'200 [mm]           weight of the pallet         130 [kg]           Center height over floor         1'200 [mm]           Lubrication of slideways and ball screws         Manual           Kind of X slideways lubrication         Manual           Kind of grease or oil         Mobil Vactra Nr 2           Kind of X ball screws lubrication         Lifetime lubrication           Kind of Z ball screws lubrication         Manual	Frequency	50/60	[Hz]
Protection at mains end         25 [A]           Power consumption of the machine         8.3 [kvA]           Obstruction and weight           Overall dimensions: length x depth x height         1'660 x 1'200 x 1'630 [mm]           Approx. net weight of the machine (including oil)         1'200 [kg]           Floor load         1'750 [kg/m²]           Load per square meter for one machine (in the workshop with many machines)         415 [kg/m²]           Dimensions of the pallet         2'070 x 1'200 [mm]           weight of the pallet         130 [kg]           Center height over floor         1'200 [mm]           Lubrication of slideways and ball screws           Kind of X slideways lubrication         Manual           Kind of grease or oil         Mobil Vactra Nr 2           Kind of S ball screws lubrication         Lifetime lubrication           Kind of X ball screws lubrication         Manual	Tolerated fluctuations	+/- 5	[%]
Power consumption of the machine8.3[kvA]Chestruction and weightOverall dimensions: length x depth x height1'660 x 1'200 x 1'630[mm]Approx. net weight of the machine (including oil)1'200[kg]Floor load1'750[kg/m²]Load per square meter for one machine (in the workshop with many machines)415[kg/m²]Dimensions of the pallet2'070 x 1'200[mm]weight of the pallet130[kg]Center height over floor1'200[mm]Lubrication of slideways and ball screwsKind of X slideways lubricationManualKind of Z slideways lubricationManualKind of grease or oilMobil Vactra Nr 2Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual	Rated current	12	[A]
Obstruction and weightOverall dimensions: length x depth x height1'660 x 1'200 x 1'630 [mm]Approx. net weight of the machine (including oil)1'200 [kg]Floor load1'750 [kg/m²]Load per square meter for one machine (in the workshop with many machines)415 [kg/m²]Dimensions of the pallet2'070 x 1'200 [mm]weight of the pallet130 [kg]Center height over floor1'200 [mm]Lubrication of slideways and ball screwsKind of X slideways lubricationManualKind of Z slideways lubricationManualKind of grease or oilMobil Vactra Nr 2Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual	Protection at mains end	25	[A]
Overall dimensions: length x depth x height1'660 x 1'200 x 1'630[mm]Approx. net weight of the machine (including oil)1'200[kg]Floor load1'750[kg/m²]Load per square meter for one machine (in the workshop with many machines)415[kg/m²]Dimensions of the pallet2'070 x 1'200[mm]weight of the pallet130[kg]Center height over floor1'200[mm]Lubrication of slideways and ball screwsKind of X slideways lubricationManualKind of Z slideways lubricationManualKind of grease or oilMobil Vactra Nr 2Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual	Power consumption of the machine	8.3	[kvA]
Approx. net weight of the machine (including oil)1'200 [kg]Floor load1'750 [kg/m²]Load per square meter for one machine (in the workshop with many machines)415 [kg/m²]Dimensions of the pallet2'070 x 1'200 [mm]weight of the pallet130 [kg]Center height over floor1'200 [mm]Lubrication of slideways and ball screwsKind of X slideways lubricationManualKind of Z slideways lubricationManualKind of grease or oilMobil Vactra Nr 2Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual	Obstruction and weight		
Floor load1'750 [kg/m²]Load per square meter for one machine (in the workshop with many machines)415 [kg/m²]Dimensions of the pallet2'070 x 1'200 [mm]weight of the pallet130 [kg]Center height over floor1'200 [mm]Lubrication of slideways and ball screwsKind of X slideways lubricationManualKind of Z slideways lubricationManualKind of grease or oilMobil Vactra Nr 2Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual	Overall dimensions: length x depth x height	1'660 x 1'200 x 1'630	[mm]
Load per square meter for one machine (in the workshop with many machines)415 [kg/m²]Dimensions of the pallet2'070 x 1'200 [mm]weight of the pallet130 [kg]Center height over floor1'200 [mm]Lubrication of slideways and ball screwsKind of X slideways lubricationManualKind of Z slideways lubricationManualKind of grease or oilMobil Vactra Nr 2Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual	Approx. net weight of the machine (including oil)	1'200	[kg]
Dimensions of the pallet2'070 x 1'200 [mm]weight of the pallet130 [kg]Center height over floor1'200 [mm]Lubrication of slideways and ball screwsKind of X slideways lubricationManualKind of Z slideways lubricationManualKind of grease or oilMobil Vactra Nr 2Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual		1'750	[kg/m <sup>2</sup> ]
weight of the pallet130 [kg]Center height over floor1'200 [mm]Lubrication of slideways and ball screwsKind of X slideways lubricationManualKind of Z slideways lubricationManualKind of grease or oilMobil Vactra Nr 2Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual	Load per square meter for one machine (in the workshop with many machines)	415	[kg/m <sup>2</sup> ]
Center height over floor1'200 [mm]Lubrication of slideways and ball screwsKind of X slideways lubricationManualKind of Z slideways lubricationManualKind of grease or oilMobil Vactra Nr 2Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual	Dimensions of the pallet	2'070 x 1'200	[mm]
Lubrication of slideways and ball screwsKind of X slideways lubricationManualKind of Z slideways lubricationManualKind of grease or oilMobil Vactra Nr 2Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual	weight of the pallet	130	[kg]
Kind of X slideways lubricationManualKind of Z slideways lubricationManualKind of grease or oilMobil Vactra Nr 2Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual	Center height over floor	1'200	[mm]
Kind of Z slideways lubricationManualKind of grease or oilMobil Vactra Nr 2Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual	Lubrication of slideways and ball screws		
Kind of grease or oilMobil Vactra Nr 2Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual	Kind of X slideways lubrication	Manual	
Kind of X ball screws lubricationLifetime lubricationKind of Z ball screws lubricationManual	Kind of Z slideways lubrication	Manual	
Kind of Z ball screws lubrication Manual	Kind of grease or oil	Mobil Vactra Nr 2	
	Kind of X ball screws lubrication	Lifetime lubrication	
Kind of grease or oil Klüber Isoflex Topas NB 52	Kind of Z ball screws lubrication	Manual	
	Kind of grease or oil	Klüber Isoflex Topas NB 52	

# High precision lathe 225-CNC 0i-TF D1-3"



Rue Nomlieutant 1 2735 Bévilard Switzerland T +41 32 491 67 00 info@smsa.ch www.smsa.ch

## Technical data 0225-002

Various		
Workpiece collector	option	
Color of the machine: SCHAUBLIN standard color 2 colors, color 1 Grey	RAL 7015	
Color of the machine: SCHAUBLIN standard color 2 colors, color 2 White	RAL 9010	
Noise level under load at the operator's station	75	$[dB_{A}]$
Operating temperature	+15 ⇒ +30	[°C]
Relative humidity	10 ⇒ 75	[%]
Control unit		
Type of control unit	Fanuc Oi-TF	
Screen	10.4"	
Manual Guide i	option	
Memory	512 Kbyte ext. 2 Mb	
Number of programs	400	
Tool offsets	128 extensible à 200	
Programmable increment	0.0001	
Axis feedrate override	0-120	[%]
Spindle override	50-120	[%]
M codes in one block	3	
Background editing	✓	
Constant surface speed control	✓	
Spindle positioning	✓	
Rigid tapping (with Spindle)	✓	
Multiple threading	✓	
Taper thread cutting	✓	
Continuous threading	✓	
Variable lead threading	✓	
Custom Macro B	✓	
Polar coordinate interpolation	✓	
Cylindrical interpolation	✓	
Helical Interpolation	option	
Polygon turning	✓	
Inch/Metric	✓	
Fanuc Picture (Personnal customer page)	✓	
Languages control unit		
French, German, English, Italian, Spanish, Portuguese, Dutch, Swedish, Danish, Russian, Polish,	Czech, Hungarian, Turkish	١,
Japanese, Korean, Chinese, (simplified, characters), Chinese, (traditional, characters)		
Interface control unit		
Interface RS232-C	option	
Interface PCMCIA	✓	
Interface Ethernet	option	
Interface USB		
	✓	