

## DEEP HOLE DRILLING AND MILLING MACHINE IMSA MF 1600 S – YEAR 2018

Machine installed and available for inspection under  
power



### TECHNICAL DATA

CNC Heidenhain iTNC 640

#### AXES OF MOVEMENT

Maximum drilling depth in a single operation (V axis):	mm 1,600
Table travel, horizontal movement (X axis):	mm 3,000
Vertical movement (Y axis):	mm 2,100
Column approach movement (milling) (Z axis):	mm 1,500
Drilling slide tilting (resolution 0.001°) (A axis):	+30° / -15°
Table rotation (resolution 0.001°) (B axis):	360°
Max axis feed rate:	mm/min 10,000

#### DEEP HOLE DRILLING AND MILLING SPINDLE – ISO 50

Solid drilling capacity:	mm 5 – 25
Maximum drilling diameter:	mm 40

Adjustable spindle speed:	rpm 1 – 4,500
Spindle power S1:	kW 17
Spindle torque:	Nm 324
Standard drilling tool holder:	mm Ø 25 x 70
Maximum internal spindle pressure:	bar 120
Taper type:	ISO 50 DIN 69871/A
Coolant system:	Yes

### ROTARY TABLE

Rotary table dimensions:	mm 1,900 x 2,100
Table rotation (resolution 0.001°) (B axis):	360°
Table load capacity in rotation:	kg 20,000
T-slots:	mm 22

### OIL SYSTEM

Hydraulic pump motor power:	kW 4 – 7.5
Self-regulated oil pressure:	bar 15 – 120
Self-regulated oil flow rate:	l/min 5 – 80
Oil tank capacity:	L 800 – 1,000
Cooled oil temperature:	25 – 32 °C
Filtration grade:	micron 16

### MACHINE DIMENSIONS AND WEIGHT

Width x Length x Height:	mm 7,000 x 7,900 x 4,700h
Machine weight: kg 50,000	

### DRILLING CAPABILITIES WITH GUN DRILLS

Maximum depth:	mm 1,600
Maximum rotation speed:	rpm 4,500
Minimum drilling diameter:	mm 6
Maximum drilling diameter:	mm 40

### THREADING HEAD "IMSASISTEM" WORKING FEATURES

Max rotation speed:	rpm 4,500
Maximum threading on C40 steel:	M36

### Machine equipped with:

- Remote electronic handwheel Heidenhain
- ISO 50 tool changer magazine with 40 positions
- Fume extraction system 4,000 m<sup>3</sup>/hour
- Through-spindle air/oil system
- M24 threads on table side
- Various tools and equipment
- Tool rack with assorted gun drills
- User and maintenance manual and CE declaration of conformity