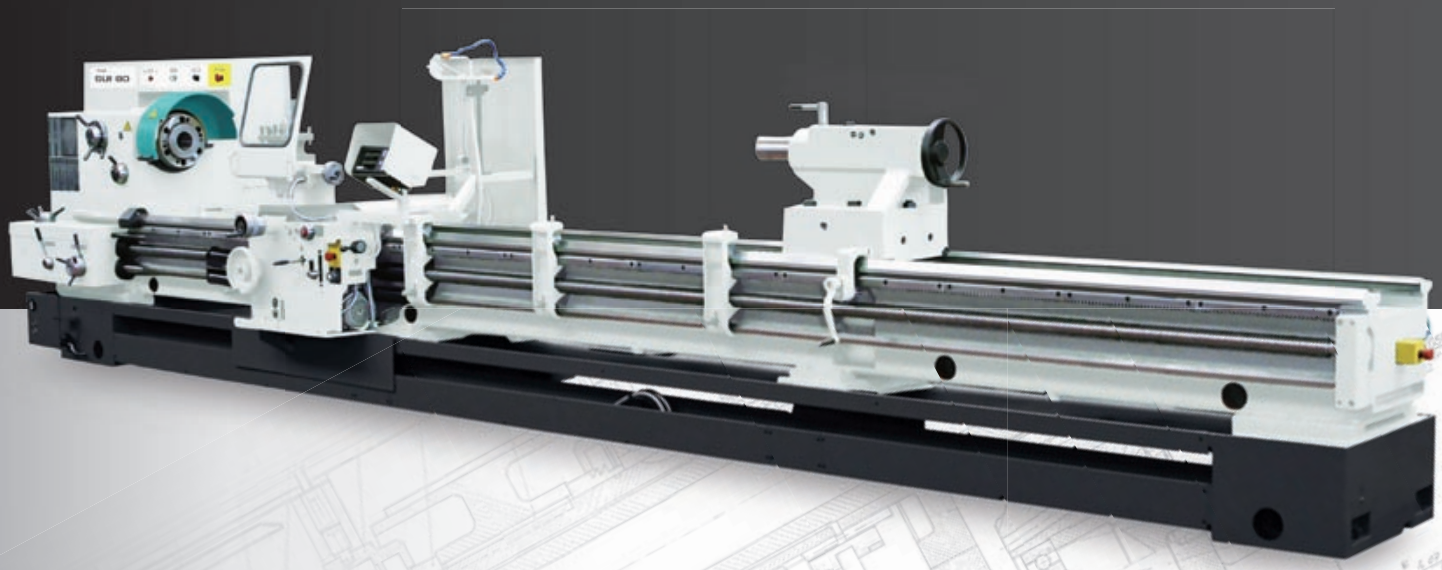
Universal
center lathes

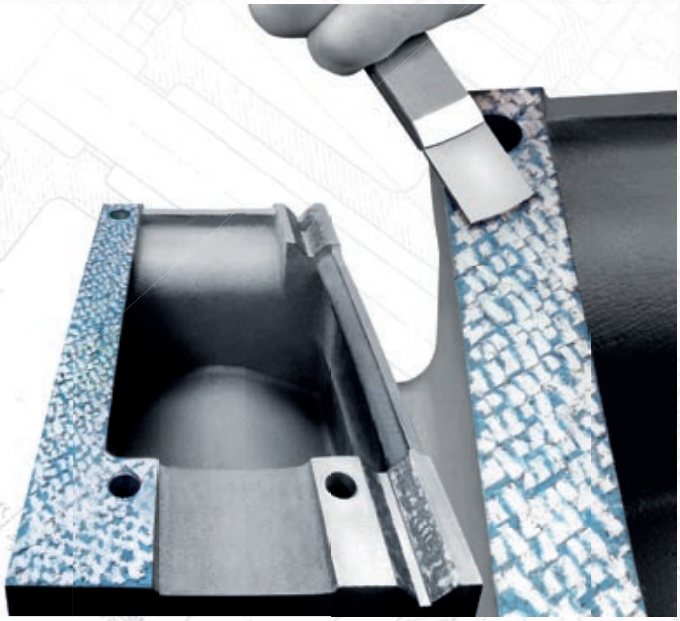
SUI 80



This machine has a special position in the category of universal center lathes because of its construction and maximal lenght. It is designed for challenging turning operations of bigger workpieces in one off and small batch production and thanks to its versatility it is also at home in maintenance and repair shops.

MAIN ADVANTAGES

- Simple and ergonomic control
- **High turning precision**
- High output at high cutting force
- **Long lifetime**
- Low operating costs
- **Possibility to cut non-standard threads**
- Easy maintenance
- **Possibility to cut various types of threads with wide range of pitches**
- Turning lenght up to 8 metres
- **Wide range of optional accessories – digital read-outs, quick change tool posts, steady and follow rests, rolling contact bearings for steadies, micrometric stops, taper turning attachements, faceplates and chucks**



∧ **Hand scraping of important parts –** high precision during machining

OPTIONAL EXECUTIONS

- Quick change tool post
- **Different voltages and frequencies**
- Inch version
- **CAMLOCK spindle nose**
- Increased motor output 18,5 kW

∧ CAMLOCK spindle nose

∧ Quick change tool post

OPTIONAL ACCESSORIES

STEADY RESTS AND ROLLING CONTACT BEARINGS

∧ Steady rest

∧ Follow rest

∧ Large steady rest

∧ Rolling contact bearings

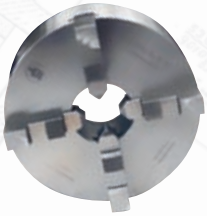
OPTIONAL ACCESSORIES

CLAMPING DEVICES

∧ 3 jaw chuck

∧ 4 jaw face-plate

∧ Flange for chuck



∧ 4 jaw chuck

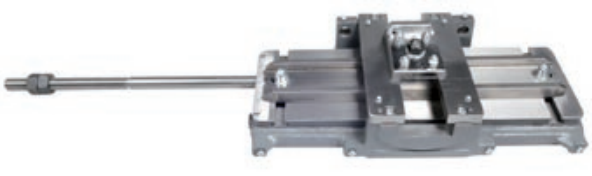
∧ Plain face-plate

∧ Drive plate

∧ Thread indicator

∧ Rear tool holder

∧ Longitudinal micrometric stop



∧ Taper turning attachment

Digital read-out ∧

		SUI 80
4 jaw face-plate ø	mm	800
Plain face-plate ø	mm	800
Universal 3-4 jaw chuck ø	mm	315
Steady rest ø	mm	30–210
Follow rest ø	mm	20–180
Large steady rest I. ø	mm	210–370
Large steady rest II. ø for 3000 mm	mm	365–520

- Digital read-out
- **Rolling contact bearings**
- Rear tool holder
- **Taper turning attachment**
- Longitudinal micrometric stop
- Thread indicator
- **Drive plate**
- Guards for faceplates
- **Flange for chuck**
- Anchoring material
- **Live centre**
- Transporting device
- **Grease gun**
- Exchange gears II for cutting special thread pitches

TECHNICAL PARAMETRES

MACHINE TYPE	Unit	SUI 80
Working range		
Max. swing over bed	mm	800
Max. swing over cross slide	mm	520
Max. swing in bed gap	mm	870
Bed gap width	mm	320
Distance between centers	mm	1500, 2000, 3000, 4000, 6000, 8000
Height of centers	mm	395
Bed width	mm	550
Main spindle		
Spindle nose BAJONET DIN (ISO702-III)		B11
Spindle nose CAMLOCK (ISO702-II)		D11*
Internal spindle taper		METRIC 100
Spindle bore	mm	92
Spindle diameter in front bearing	mm	140
Min. spindle speed	min^{-1}	14
Max. spindle speed	min^{-1}	1400
Number of gears		17
Spindle drive		
Main motor output	kW	15/18,5*
Max. torque	Nm	3200
Limit speed for max. torque	min^{-1}	45
Carriages		
X-axis		
Working range of cross feed	$mm.rev.^{-1}$	0,03–6,5
Cross rapid traverse	$mm.min^{-1}$	2400
Working travel	mm	440
Tool slide working travel	mm	195
Z-axis		
Working range of longitudinal feed	$mm.rev.^{-1}$	0,06–13
Longitudinal rapid traverse	$mm.min^{-1}$	4800
Working travel	mm	depends on clamping device
Toolposts		
Standard toolpost		4-way toolpost
Max. tool size	mm	32×32
Quick change toolpost		MultiSuisse D*
Tool size	mm	32
Tailstock		
Tailstock sleeve internal taper		MORSE 6
Tailstock sleeve diameter	mm	110/120*
Tailstock sleeve travel	mm	210
Tailstock control		manual/mechanical*
Cross resetting	mm	±10
Threads		
Metric threads – number/pitch	Nr./mm	43/0,5–160
Whitworth threads – number/pitch	Nr./TPI	40/1/8–40
Modular threads – number/pitch	Nr./mm	36/0,25–48
Diametral Pitch threads – number/number of DP threads	Nr./Nr.	42/3/8–80
Machine dimensions		
Height	mm	1700
Width	mm	1570
Lenght/Weight		
1500	mm/kg	3560/5180
2000	mm/kg	4060/5440
3000	mm/kg	5060/5970
4000	mm/kg	6060/6400
6000	mm/kg	8060/7670
8000	mm/kg	10060/8630

* optional execution