THE NEW PRAKTIKANT GSD

Photograph shows option

HM 220085

BLUecoMPETENCE
Alliance Member
Partner of the Engineering Industry Sustainability Initiative

Precision Engine Lathe

PRAKTIKANT GSD

WEILER

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SERVICE
RADIAL DRILLING MACHINES
CNC LATHES
CYCLE-CONTROLLED LATHES
TOOL ROOM LATHES/SEMI-CYCLE CONTROLLED LATHES

PRAKTIKANT GSD: SETS NEW SAFETY STANDARDS

Movable chuck guard
guarantees utmost safety

Maintenance friendly
through easily accessible maintenance points

Photograph shows option

LED Machine light
placed to avoid dazzle

WEILER Design
clear focus on practical requirements

Simplified chip removal
through chip tray

Quality

Toolmakers accuracy according to DIN 8605 is easily attained – a further proof for the quality of the machine.

Safety

- Pole-changing main spindle drive
- Automatic handwheel release
- Lead screw and feed rod cover
- Main spindle brake
- Reduction of hinch points
- Two-channel safety circuit

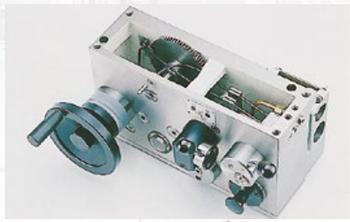
Cost-Effectiveness

The Praktikant GSD provides the ideal machining solution for countless applications in one-off and small-batch production, in craft workshops and industry, in apprenticeships and vocational training, as well as in tool and fixture manufacturing. This inherent flexibility can be significantly enhanced through a wide range of optional features.

DGUV Test HM 220085 GS geprüfte Sicherheit

- The GS safety mark awarded through the testing and certification body of the German Social Accident (DGUV Test) confirms that the lathe fully complies with the requirements of the German Product Safety Act (ProdSG)
- New chuck guard, proven through ballistic tests
- Extensive GS certified options

Headstock
The main spindle is made out of case-hardened alloy steel. The high precision tapered roller bearings of the main spindle guarantee high rigidity and a high surface quality on the workpiece.



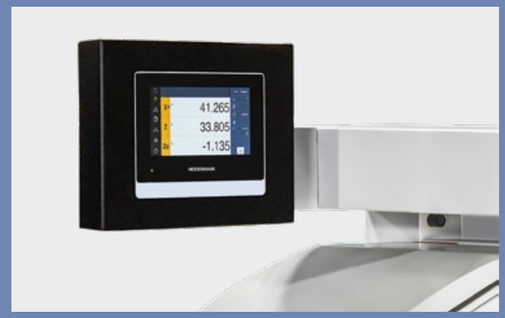
Apron
The apron is fully enclosed and, at the same time, serves as the central lubrication reservoir for the carriage and half nuts. The feed transmission from the feed rod through the worm gear is interrupted for turning against the stop by an intermediate ball slip clutch. A pushbutton is provided to prevent half nuts from being unintentionally engaged.

Feed gearbox
The casing of the gearbox is fully enclosed and provided with oil-bath lubrication for the sets of gears. Depending on the demands of use, the gear wheels are case-hardened and ground or treated with nitride. Three rotary knobs enable 24 feed rates or 21 metric thread pitches, in particular standardized threads, to be selected without needing to change the gear wheels.

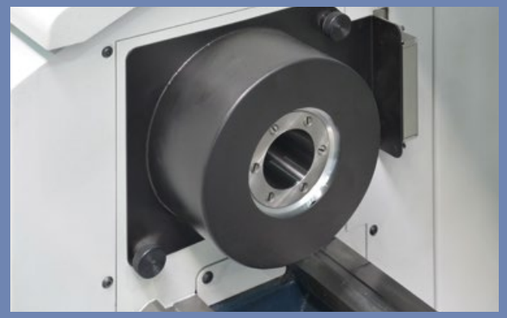
Options

Movable sliding guard

Collet attachments



Digital readout



Electrical safety device for working with draw-in collets

TECHNICAL DATA

Standard equipment
- Magnetic brake for main drive
- LED machine light in rear chip dash panel
- Taper sleeve ME50/MT3
- Male center MT3
- Quick-change tool post Multi Suisse size A incl. 1 off turning tool holder AD 2090
- Chuck splash guard movable
- Chip deflector hinged on compound slide
- Single bed stop
- Set of change gears 21-33-63-120 T
- Central lubrication
- 5 off shear pins for lead screw
- Set of operating keys

Special options
- Quick-change tool post Multi Suisse size B
- Three and four-jaw chucks
- Independet 4-jaw chucks
- Various clamping devices for collets
- Hollow spindle stops
- Travelling steady rest with slide jaws
- Fixed steady rest with roller or slide jaws
- Rotating centre
- Lever drilling device for tailstock
- Tailstock – inclined turret head
- Limit switch for thread cutting
- Coolant device
- Traversable chip splash guard with viewing window
- Additional LED machine lamps
- Numeric position display
- Electrical safety device for working with draw-in collets
- Further accessories upon request

Electrical equipment
- Operating voltage 3 x AC 400 V N/PE/50 Hz
- Control voltage 24 V
- All safety-relevant components are electrically locked
- Dual-channel safety technology
- Contactor control in the lockable control cabinet integrated in the subbase
- Restart protection in case of voltage loss or emergency stop
- Two-speed main motor IP54 with safety brake
- Safety switch for main spindle L.H. and R.H. rotation
- Emergency stop integrated at the subbase

Working Range		
Distance between centres	mm	650
Centre height	mm	160
Swing over bed	mm	320
Swing in bed recess	mm	190
Main spindle		
Spindle nose acc. to DIN 55027 (DIN ISO 702-3)	size	5
Spindle diameter in front bearing	mm	70
Spindle bore	mm	43
Inner taper of main spindle	metr.	50
Main Drive		
Drive power 100 % duty cycle	kW	2.6/3.1
Speed range	rpm	48–2,500
Number of gears		8
Number of speeds		16
Feed drive		
Number of feeds		24
Feed range longitudinal	mm/rev	0.02/0.63
Feed range transverse	mm/rev	0.006/0.2
Thread Cutting Range		
Metric threads*	mm	0.25–8
Inch threads*	TPI	80–2
Tailstock		
Quill diameter	mm	40
Quill travel	mm	85
Inside taper of quill	MT	3
Dimensions		
Length/Width/Height	mm	1,770/900/1,570
Weights	kg	1,050

*Inch threads and metric thread pitches 0.45; 0.75; 4.5 and 5.5 are only possible with additional change gears.

User videos are available on the WEILER Channel at

YouTube

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