

Semi-automatic high-performance machine for efficient cutting of bolt and pipe threads. For industry, metalworking, installation.

Bolt threads	6–72 mm	$\frac{1}{4}$ –2 $\frac{3}{4}$ "
Pipe threads	$\frac{1}{16}$ –2 $\frac{1}{2}$ ", 16–63 mm	
Tolerance class corresponding to ISO 261 (DIN 13)	"medium" (6 g)	
Thread length	$\leq \varnothing 30$ mm	unlimited
	$\leq \varnothing 72$ mm	≤ 200 mm
Chamfering	Range	7–62 mm
	Chamfered \varnothing	≥ 7 mm
	Maximum chamfer	7 mm
	Chamfer angle	45°
Peeling	Range	7–62 mm
	Peeled \varnothing	≥ 7 mm
Thread types see page 44.		



German Quality Product

REMS Unimat 75 – high efficiency.

Tangential-chaser-threading-system. Large threading range. Fast working, short resetting time. For single and series production. Low hourly rate for the machine. Simple operation. Relieves expensive turning machines and specialists.

Operating principle

Stationary material – rotating die head.

Design

Compact, rugged design for continuous use. Die head with regrindable tangential chasers in self centering holder system. After start-cutting with feed lever and rack mechanism self feeding action of die head (no guide thread). Welded, sturdy machine stand with large oil compartment and removeable chip drawer.

Drive

Indestructible planetary gear with annulus gear for long threads up to $\varnothing 30$ mm. Proven and powerful pole-reversible three-phase motor, specially designed for threading, with hollow shaft, 2000/2300 W. Overload protection. Reverse switch for cutting right and left-hand threads. High operating speed, 2 spindle speeds 70 and 35 rpm.

Clamping device

Self-centering universal vice for the complete range with specially toothed and hardened clamping jaws. Choice of manual or hydraulic clamping with operation by foot switch (working pressure 6 bar).

Special clamping jaws

For drawn material, stud bolts, hex screws and pipe nipples, as accessory.

Automatic lubrication and cooling

Robust, proven oil pump with high pumping volume. Ample oil volume ensures longer service life of chasers, gear and motor.

Universal automatic die head

Only **one** universal automatic die head for all threads. Fine adjustment of thread diameter with spindle and scale. Die head closes automatically and opens automatically when the required thread length is reached. After starting the thread via feed lever and rack the chaser-system initiates an automatic feed-forward of the die head. All threads can be cut in a single pass. Copying unit for tapered threads. Instead of changing the dies, additional quick-change die heads ensure shorter resetting time.

Chasers

The proven regrindable REMS tangential chasers with precise cutting geometry ensure an excellent start-cutting performance and clean threads. Tool steel chasers made of special hardened steel for material < 500 N/mm² (MPa). HSS chasers for hard-to-machine material ≥ 500 N/mm² (MPa). The chasers sit in a special holder system. Chasers and holders together form a threading set.

Thread cutting on rebar

Special chaser dies M with additional, ground cut for cutting threads on rebar in a single pass. Driven by REMS Unimat 75 with oil-hydraulic/pneumatic vice, for high clamping pressure.

Machining examples



Info

