
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 removable chip drawer.

Drive
Indestructible planetary gear with annulus gear for long threads up to Ø 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 up to 500 N/mm². HSS chasers for hard-to-machine material above 500 N/mm². 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.
Thread-cutting oil
REMS Sanitol and REMS Spezial (page 49). Specially developed for threading. High cooling and lubricating effect. Essential for clean threads and longer service life of dies, tools and machines.

Nipple-threading
Efficient with special clamping jaws ¼–1¼ or with the automatic internal clamping REMS Nippelfix ¼–2½ or with the manual internal clamping REMS Nippelspanner ½–2” (page 48).

Supply format

Description | Version | Art.-No.
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REMS Unimat 75 Basic mS | manual clamping device | 750003
REMS Unimat 75 Basic pS | oil-hydraulic/pneumatic vice clamping device | 750004

Other voltages on request.

Accessories

Description | Art.-No.
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Chasers and holders (threading sets) and chasers | see page 44.
Universal automatic die head, without threading sets, without closing lever | 751000
CLOSING LEVER | for closing and opening the chasers
R | for taper pipe threads, right-hand | 751040
R-L | for taper pipe threads, left-hand | 751050
G | for cylindrical pipe threads, right-hand | 751060
G-L | for cylindrical pipe threads, left-hand | 751070
M | for all bolt threads, right-hand | 751080
M-L | for all bolt threads, left-hand | 751090
Chamfering/peeling die head 45°, Ø 7 – 62 mm, with chamfering/peeling chasers 45°, Ø 7 – 62 mm, HSS, with holder | 751100
Chamfering/peeling die head 45°, Ø 7 – 62 mm, without threading sets | 751102
Chamfering/peeling chasers 45°, Ø 7–46 mm, HSS, with holder | 751096
Chamfering/peeling chasers 45°, Ø 40–62 mm, HSS, with holder | 751098
Chamfering/peeling chasers 45°, Ø 7–62 mm, pack of 4, with holder | 751097
Special clamping jaws, pair, for drawn material, stud bolts and hex screws. Workpiece length protrude from vice without thread, minimum 15 mm, Ø 6–42 mm | 753240
Thread-cutting oil | see page 49.
Nipple holder | see page 48.
REMS Herkules material supports, | see page 96.