

5.1 Gear Hobber

| Make | Model | Year | gear-Ø (mm) | Modul / DP | axial feed (mm) | Remarks |
|----------------|--------------------|------|----------------|---------------|--------------------|--------------------------------------------------------------------------------|
| KOEPFER | 153 B | 1983 | 80 | 2 | 150 | Horizontal m/c with loading device for shafts |
| MIKRON(CH) | A 33 / 1 | 1980 | 80 | 2 | 150 | With plugboard control, loader for shafts, lots of accessories |
| MIKRON(CH) | 132.02 | 1967 | 100 | 1 | 75 | Horizontal hobber, deburring device, f. straight teeth only |
| MIKRON(CH) | 132.02 | 1972 | 100 | 1 | 100 | Horizontal hobber, with programs, deburring device, f. straight teeth only |
| MIKRON(CH) | A 33 | 1978 | 100 | 2 | 150 | With loading device for shafts |
| MIKRON(CH) | 102.05 | 1965 | 120 | 2 | 130 | Simple universal horizontal gear hobber |
| KOEPFER | 150 | 1966 | 145 | 2 | 110 | Universal hobber for gears and worms, lots of accessories |
| KOEPFER | 151 H | 1976 | 150 | 2 | 135 | Horizontal hobber w. workpiece loading device |
| KOEPFER | 151 H | 1976 | 150 | 2 | 135 | Horizontal hobber, hydraulic workpiece magazine, lots of accessories |
| KOEPFER | 160 CNC | 1998 | 160 | 2 | 200 | CNC machine with loading device |
| KOEPFER | 200 CNC | 1991 | 180 | 3 | 200 | CNC universal gear hobber |
| PFAUTER | RS 00 | 1964 | 200 | 2 | 160 | Simple universal machine with differential, chuck, etc. |
| PFAUTER | PA 180 | 1979 | 200 | 6 | 200 | Heavy duty m/c w. loading device, shifting and accessories |
| WMW-HECKERT(D) | GFLV 250 x 800 | 1985 | 250 | 5 | 800 | Spline shaft, long thread and hobbing m/c |
| WMW-HECKERT(D) | ZFWVG 250/4 x 3150 | 1984 | 250 | 7 | 3150 | Spline shaft, long thread and hobbing m/c, 3 hobbing head, lots of accessories |
| LORENZ | LF 300 P | 1977 | 300 | 6 | 225 | Workpiece loading device (ring magazine), shifting |
| PFAUTER | PA 300 | 1976 | 350 | 8 | 250 | Universal gear hobber |
| PFAUTER | P 400 | 1968 | 400 | 6 | 300 | Universal vertical m/c with accessories |
| PFAUTER | P 400 | 1967 | 400 | 6 | 300 | Universal gear hobbing machine with change gears |
| LIEBHERR(D) | ET 3000 | 1970 | 3000 | 24 | 315 | 3000mm hobber f. external & internal gears, heavy duty m/c w. 2 heads |

5.2 Gear Shaper

| Make | Model | Year | gear-Ø (mm) | Modul / DP | stroke (mm) | Remarks |
|-------------|-----------------------------|------|----------------|---------------|----------------|---------------------------------------------------------------------------------|
| LORENZ | Führungen für Zahnradstoßm. | | | | | Hydrostatic guides for Lorenz shapers SN4, LS150, LS180 & LS152 |
| LORENZ | Zst | 1975 | | 7 | | Rack shaping attachment for S 7/1000 |
| LORENZ | LS 150 R | 1978 | 150 | 3 | 20 | High speed m/c, 2040 strokes/min, inclined |
| LORENZ | LS 150 - (SDP) | 1980 | 150 | 3 | 42 | Automatic m/c w. counter bracket, and raiser plate 130 mm |
| LORENZ | LS 150 | 1986 | 150 | 4 | 45 | Precision m/cs. w. workpiece loader and MODICON Ctrl. |
| LORENZ | LS 150 (HD) | 1979 | 150 | 4 | 45 | Universal m/c, raised 125 mm, straight guide |
| FELLOWS | 4 AGS | 1968 | 150 | 4 | 50 | With various special attachmnts |
| LORENZ | LS 150 | 1979 | 150 | 4 | 50 | With PLC control, ring loading device & DRO |
| LORENZ | LS 152 CNC | 1985 | 150 | 5 | 50 | CNC gear shaper, raised 125 mm |
| LORENZ | LS 154 CNC | 1991 | 150 | 5 | 50 | CNC gear shaper, w. counter bracket & loader |
| TOS | OHA 16 B | 1982 | 160 | 4 | 52 | With adjustable cutter head (internal) |
| LORENZ | SRV 00 | 1967 | 180 | 3 | 18 | Universal gear shaper w. simple loading device |
| LORENZ | SN 4 | 1971 | 180 | 4 | 50 | Automatic m/c, hydr. workpiece clamping device in table |
| LORENZ | SN 4 | 1971 | 180 | 4 | 70 | Needs reconditioning |
| LORENZ | SN 4 SY | 1982 | 180 | 4 | 70 | Special shaper for synchronous rings |
| LIEBHERR(D) | WS 1 | 1969 | 200 | 4 | 50 | No counterbracket, DC motor drive |
| LIEBHERR(D) | WS1-CNC | 1986 | 200 | 5 | 50 | CNC gear shaper with loading device |
| MAAG(CH) | SH 75 K (7°) | 1975 | 200 | 10 | | Shaper for steering segments, 7° |
| LORENZ | S 5 | | 450 | 5 | 80 | Older gear shaper, large stroke |
| MAAG(CH) | SH 100 Z | 1960 | 1250 | 10 | 325 | Rack shaping machine, 1250 mm length |
| MAAG(CH) | SH 100/140 | 1976 | 1450 | 15 | 345 | Heavy m/c f. straight & helical gears, accessories, internal cuts not possible |
| MAAG(CH) | SH 100/140 | 1974 | 1450 | 15 | 345 | Heavy m/c for straight & helical gears, accessories, internal cuts not possible |

5.3 Gear Grinder

| Make | Model | Year | gear-Ø (mm) | Modul / DP | axial feed (mm) | Remarks |
|---------------|-----------------|------|-------------|------------|-----------------|-----------------------------------------------------------------------------------|
| REISHAUER(CH) | RZP 200 | 1990 | 200 | 3 | 40 | CNC gear grinder for mass production |
| HURTH | ZSA 220 | 1973 | 220 | 6 | 150 | Gear shaving machine with tailstock |
| REISHAUER(CH) | RZR | 1996 | 240 | 6 | 275 | CNC gear honing machine |
| FÄSSLER(CH) | D 250 C | 1988 | 250 | 5 | 150 | CNC gear honing machine |
| FÄSSLER(CH) | D 250 | 1981 | 250 | 5 | 200 | Gear honing machine, automatic, high precision |
| GLEASON-HURTH | ZH 250 | 1996 | 250 | 5 | 300 | CNC horizontal gear honing machine, also f. spherical gears, coolant equipment |
| FÄSSLER(CH) | D 250 - C | 1991 | 250 | 5 | 350 | CNC gear honing m/c |
| FÄSSLER(CH) | D-250 | 1983 | 250 | 5 | 500 | Gear honing machine, conventional, coolant |
| REISHAUER(CH) | OZA | 1963 | 300 | 5 | 180 | Without dressing device |
| KAPP | VAG 385 | 1983 | 300 | 5 | 500 | CNC horizontal gear and profile grinding m/c |
| KAPP | VAS 482 | 1984 | 300 | 10 | 700 | CNC horizontal gear and profile grinding m/c |
| HURTH | ZSU 320 - innen | 1965 | 320 | 6 | 100 | Gear shaving machine, internal |
| KAPP | VAG 481 | 1984 | 330 | 6 | 520 | CNC horizontal gear grinder |
| HURTH | ZHS 350 | 1986 | 350 | 8 | 150 | CNC gear shaving machine for hard gears |
| WMW-NILES | ZKX 400 | 1988 | 400 | 10 | | Pre-dressing device for gear grinding wheels |
| WMW-NILES | ZSTZ 630 C | 1977 | 630 | 12 | 225 | Reconditioned 2001, new SIEMENS PLC Ctrl, for spur gears and racks, excellent m/c |
| REISHAUER(CH) | ZB | 1987 | 700 | 7 | 290 | Automatic gear grinder |
| REISHAUER(CH) | ZB | 1967 | 700 | 7 | 290 | Coolant, accessories, very good condition |
| WMW-NILES | ZSTZ 06 / 08 | 1986 | 800 | 14 | 265 | CNC gear grinder w. A. BRADLEY PLC Control |
| HÖFLER | H 2500 / 1200 | 1980 | 2500 | 32 | 1200 | Heavy duty m/c, retrofitted w. new electrics in 1990, axial travel 1200 mm |

5.4 Thread Prod. Machines

| Make | Model | Year | thread-Ø (mm) | thread-length (mm) | Modul / DP | Remarks |
|----------------|--------------------|------|---------------|--------------------|------------|--------------------------------------------------------------------------------|
| LINDNER | | | | | | Thread/worm grinders, selection available, see list 3.6 |
| MATRIX(GB) | 47-4 M/10 | 1965 | | | | Universal thread & worm grinder |
| REISHAUER(CH) | UL 1800 | 1981 | | | 10 | Suitable for grinding ballscrew spindles |
| LINDNER | GH 300-38 | 1979 | | | 20 | Thread and worm grinder for steering worms |
| MIKROMAT(D) | GSU 320 x 1000 | 1992 | | | 20 | CNC thread & worm grinder with CNC dressing device |
| | electronic 10 G | | | | | |
| WAGNER | G 39 | 1975 | 39 | 250 | | Aut. thread cutting m/c, Head Z 39 & leadscrew |
| PEE WEE | IV | 1965 | 75 | | 2 | Thread Rolling Machine |
| WMW-HECKERT(D) | GFLV 250 x 800 | 1985 | 250 | 800 | 5 | Spline shaft, long thread and hobbing m/c |
| WMW-HECKERT(D) | ZFWVG 250/4 x 3150 | 1984 | 250 | 3150 | 7 | Spline shaft, long thread and hobbing m/c, 3 hobbing head, lots of accessories |
| KLINGELNBERG | HSS 350 | 1977 | 350 | 500 | 25 | Automatic thread and worm grinding m/c, lots of accessories |

5.5 Bevel Gear Prod. Machines

| Make | Model | Year | gear-Ø (mm) | Modul / DP | Remarks |
|--------------|---------------|------|-------------|------------|--------------------------------------------------------------|
| KLINGELNBERG | AH 400 DN | 1982 | 400 | 10 | Automatic quenching press, modern m/c. |
| WMW-MODUL | ZFTKK 500 | 1988 | 500 | 16 | Spiral bevel gear m/c, like new |
| WMW(D) | ZRKK500 | 1969 | 500 | 10 | Spiral bevel gear finisher |
| GLEASON(USA) | FORMATE602 | 1987 | 400 | 10 | CNC crown gear grinder, FORMATE |
| KLINGELNBERG | BFG 36 | 1968 | | | Tool grinder for bevel gear tools |
| GLEASON(USA) | 726 Revacycle | 1979 | 152 | 2 | Automatic straight bevel cutting machining |
| GLEASON(USA) | 726 Revacycle | 1971 | 152 | 2 | Straight bevel gear generator, workpiece loader, accessories |
| GLEASON(USA) | PHOENIX 200 | 1997 | 180 | | CNC spiral bevel gear grinder, FANUC Control |

| | | | | | |
|---------------------------|------------------------|--------------|------------|----|-------------------------------------------------------------------------|
| WMW-MODUL GLEASON(USA) | HG ZPLZK 500 119 | 1980 1960 | 500 430 | 12 | Bevel and spur gear running testing m/c Lapping m/c for hypoid gears |
|---------------------------|------------------------|--------------|------------|----|-------------------------------------------------------------------------|

5.6 Gear Tester

| Make | Model | Year | gear-Ø (mm) | Modul / DP | working area | Remarks |
|-----------------|-------------|------|----------------|---------------|-----------------|------------------------------------------------------|
| HURTH | ZA 3 | | | | | gear noise tester, old |
| HURTH | ZSF-B | 1982 | | | | gear noise tester for small gears |
| SAMPUTENSILI(I) | SU 130 | 1978 | 260 | | 250 | Universal tester for hobs, worms & gears |
| HURTH | ZP 450 RS | 1982 | 300 | 6 | 1000 | Gear noise tester |
| KLINGELNBERG | PZ 300 B | 1968 | 300 | 10 | | Universal tester, well equipped |
| KLINGELNBERG | PZ 375 | 1968 | 375 | 5 | | Two-flank pitch tester |
| HÖFLER | EMZ 400 CNC | 1988 | 400 | 15 | 500 | CNC 4-axis testing centre for gears and rotary parts |
| ZEISS | SPG 600 | 1975 | 500 | 10 | | Lead tester for gears & worms |
| MAHR | 890 | 1975 | 500 | 20 | | Univ. tester f. profiles, optical base circle |
| KLINGELNBERG | PNC 40 VA | 1987 | 540 | 20 | 400 | CNC-controlled gear measuring center |
| MAAG(CH) | PH 60 | 1970 | 600 | 20 | | Accessories, PERTHEN Recorder |
| MAAG(CH) | PH 60 | 1980 | 600 | 20 | | Universal tester, accessories |
| KLINGELNBERG | PFS 640 U | 1978 | 640 | 20 | 640 x 20 | Gear tester with diagram-writer |

5.9 Var. Gear Prod. Machines

| Make | Model | Year | working area | Modul / DP | Remarks |
|---------------|--------------------------------------|------|---------------|---------------|-------------------------------------------------------------------------------|
| HURTH | SRS 400 | 1977 | | | Shaving tool grinder, w/o. accessories |
| HURTH | Schaberäder | 0 | | | Shaving tools for HURTH machines,module 1-2.75 |
| HURTH | ZA 3 | | | | Gear noise tester (older machine) |
| HURTH | ZK 200/1-TE CNC | 1991 | | | CNC controlled milling machine for synchronous rings |
| HURTH | ZSF-B | 1982 | | | Gear noise tester for small gears |
| KAPP | AST 204 L | 1974 | | | Deep grinding & pendulum grinding of carbide hobs w. straight & spiral flutes |
| KLINGELNBERG | AGW 230 | 1977 | | | Automatic hob grinding m/c, wet grinding device, indexing plates, accessories |
| KLINGELNBERG | BFG 36 | 1968 | | | Tool grinder for bevel gear tools |
| LORENZ | LP 2500 | 1967 | | | 2500 x 18 Herringbone shaper, heavy duty, many accessories |
| LORENZ | MS 80 | 1965 | | | Gear shaper cutter sharpener, MSV 81 |
| LORENZ | MSM | 1967 | | | Gear shaper cutter sharpener, MSV 110 |
| MAAG(CH) | Teilscheiben | | | | Dividing plates for MAAG gear grinders (HSS60) |
| MAAG(CH) | WS 3 | 1982 | | | Gear shaper cutter sharpener |
| PFAUTER | Tangentalkopf für RS 2 | | | | Tangential head for gear hobber RS 2 |
| PRÄWEMA(D) | W 2 - 1 | 1991 | | | CNC gear tooth chamfering m/c, 2 chamfering units, BWO Control |
| RAUSCH | GRATOMAT MS 150/4 | 1984 | | | Gear deburring m/c, 4 clamping stations, cabin |
| REISHAUER(CH) | AF | | | | Filter system |
| REISHAUER(CH) | AM | 1975 | | | Grinding worm wheel dressing machine, recond., for Reishauer ZB, etc. |
| ROTOFLO | 3225 | 1971 | | | Cold rolling machine for gear shafts and gears |
| MICHIGAN(USA) | | | | | |
| ROTOFLO | ? | | | | Gear profile rack rolling m/c for splines and gears |
| MICHIGAN(USA) | | | | | |
| SAACKE | 00 | | | | Hobs, modules 18 & 20, 20°, dia. 240x280mm,5°44 |
| SAZOOOR | Abwälzfräser neu und gebraucht | | | | SAZOOOR various hobs, new and used |
| ZF(D) | 3M2201 | 1998 | | | Internal rolling machine for transmission shift sleeves |
| ZF(D) | 3M2201 | 1994 | | | Internal rolling machine for transmission shift sleeves |
| FÄSSLER(CH) | D 250 - C | 1991 | | 5 | CNC gear honing m/c |
| KAPP | VAG 385 CNC | 1983 | | 5 | CNC horizontal gear and profile grinding m/c |
| KAPP | VAG 481 CNC | 1984 | | 6 | CNC horizontal gear grinder |
| LORENZ | Zst | 1975 | | 7 | Rack shaping attachment for S 7/1000 |
| WMW-NILES | ZKX 400 | 1988 | | 10 | Pre-dressing device for gear grinding wheels |
| GLEASON(USA) | 130 | 1984 | 1200 | 15 | Curvic coupling grinder, large version |
| HURTH | ZK 7 | 1975 | 200 | 4 | Gear tooth chamfering & deburring m/c, modernized, double head |
| KAPP | VAS 482 CNC | 1984 | 200/500 | 10 | CNC horizontal gear and profile grinding m/c |
| HURTH | ZSA 220 | 1973 | 220 / min. 20 | 6 | Gear shaving machine with tailstock |
| REISHAUER(CH) | RZR | 1996 | 240 | 6 | CNC gear honing machine |



TM Bevo Europe - Leandro V. Orsi
 Servitengasse, 4/35 – 1090 Vienna
 Tel. +43 1 2765758 / Mob. +49 172 8672957
www.tmbevo.com
l.orsi@tmbevo.de

| | | | | | |
|--------------|-------------------|------|-------------------|----|-----------------------------------------------------------------------------|
| FÄSSLER(CH) | D 250 C | 1988 | 250 | 5 | CNC gear honing machine |
| HEY (GB) | No. 10 | 1965 | 250 x 150 mm | 0 | Gear tooth rounding and chamfering machine |
| UHLICH(D) | AM 8a | 1960 | 350 | 5 | Gear tooth rounding m/c, mechanical |
| KLINGELNBERG | HSS 350 | 1977 | 350 x 500 | 25 | Automatic thread and worm grinding m/c, lots of accessories |
| HURTH | KF 32 | 1968 | 400 | | Keyway milling machine, simple m/c, horizontal |
| HURTH | ZEA 1 | 1985 | 50 breit | 4 | Gear deburring machine w. profiling tool |
| EX-CELL-O | XK 225 | 1987 | 50 x 125 | 1 | Cold profile rolling m/c for gears, w. workpiece feed |
| LENZE(D) | GRATOMAT 300 H | 1980 | 600 | | |
| GLEASON(USA) | 120 / 888 W | 1980 | 610/1016 | | Curvic coupling grinder |
| ZF(D) | 3 M 22012 160 | 1990 | 75-115 x 36 | | Int. rolling m/c f. back-angled shifter stops on transmission shift sleeves |
| UHLICH(D) | AM 9 | 1971 | 800 | 7 | Automatic gear tooth rounding m/c, accessories |
| HURTH | ZK 7 | 1978 | Ø 200 | 6 | Gear tooth chamfering m/c w. tailstock |
| REFORM(D) | PTA-I 800 CNC | 1986 | Ø 300 x 500 mm | | CNC internal profile grinder |
| WERNER FRITZ | SKR 8 a | 1975 | Ø 300 x 750 mm | | Splineshaft & profile grinder, automatic |
| PRÄWEMA(D) | WA 400 | 1988 | Ø 400 | 6 | CNC gear deburring and roofing machine |