

Gear manufacturing technology

Machines

Hobbing S Chamfering / deburring



S 80
Ø 80 mm
mn 0.5 - 3.5
travel 200 / 350 mm



S 140
Ø 140 mm
mn 0.5 - 3.5
travel 200 / 350 mm



S 200
Ø 200 mm
mn 0.5 - 3.5
travel 200 / 350 mm



Series with CDM unit
Ø 200 mm
mn 0.5 - 3.5
travel 200 / 350 mm

Hobbing M Chamfering / deburring



S 250 / T
Ø 250 mm
mn 0.5 - 6.0 / 8.0
travel 400 / 600 mm



S 300
Ø 300 mm
mn 0.5 - 6.0
travel 400 / 600 mm



S 400
Ø 400 mm
mn 0.5 - 6.0
travel 400 / 600 mm



Series with CDM unit
Ø 250 mm
mn 0.5 - 6.0
travel 400 / 600 mm

Hobbing L



S 600
Ø 600 mm
mn 18.0 / 22.0
travel 450 / 800 mm



S 800
Ø 800 mm
mn 18.0 / 22.0
travel 450 / 800 mm

Hobbing XL



S 900
Ø 900 mm
mn 24.0 / 28.0
travel 1,000 / 1,400 mm



S 1500
Ø 1,500 mm
mn 24.0 / 28.0
travel 1,000 / 1,400 mm



S 2300
Ø 2,300 mm
mn 24.0 / 28.0
travel 1,000 / 1,400 mm

Chamfering / deburring



S 250 CD
Ø 250 mm
face width 150 mm
length 400 mm



S 250 CDA
Ø 250 mm
face width 150 mm
length 400 mm



S 250 CDX
Ø 250 mm
face width 50 / 400 mm
length 400 / 700 mm



Tools and services

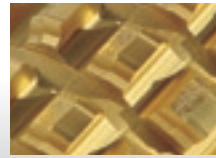
Hobs Milling cutters



Shank-type
mn 0.45 - 7.0
Ø 30 - 200 mm



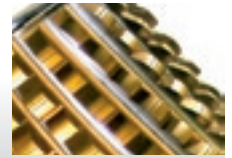
Bore-type
mn 0.45 - 8.0*
Ø 30 - 180 mm
tooth depth 20 mm
*larger mn on request



Special profile
for sprockets gears,
splines, timing belt gears
and rotors



X2® / X4® hobs
mn 1.0 - 4.0
Ø 90 - 110 mm



Milling cutters
for band saws and special profiles

Shaper cutters



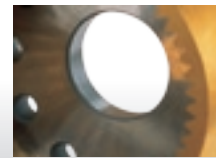
Shank-type
mn 0.5 - 8.0
Ø 12 - 300 mm



Disk-type
mn 0.5 - 8.0*
Ø 300 mm
*larger mn on request



Deep counterbore-type
mn 0.7 - 8.0
Ø 300 mm



Special/modified profile
for sprocket gears,
splines, cams, timing
belt gears



X4® shaper cutters
mn 1.0 - 8.0
tooth width 19 mm
Ø 250 mm

Chamf./deb. Shave cutters



Chamfering / deburring tools
Special finish for long life.
Special tooth forms.



Rolling tools
to remove secondary
burrs and smoothen tooth
flanks



Chamfer-roller tools
for spur / helical gears.
Patented tool.



Deburring / rolling
for sprocket gears.



Shaving cutters
external / internal
mn 0.7 - 10.0
face width 65 mm
Ø 70 - 330 mm

Master gears and gauges



Master gears
mn 0.7 - 6.0
Ø 40 - 300 mm
width 4 - 80 mm



Rolling gears
to check noise and
improve surface finish



Plug gauges
mn 0.5 - 6.0
Pitch Ø 20 - 150 mm



Ring gauges
mn 0.5 - 7.0*
outside Ø 20 - 200 mm
*depending on outside Ø

Tool life cycle services



Sharpening of hobs, shaper and shaving cutters in top quality and accuracy with fast turnaround times.



Master gear regrinding top quality and accuracy with fast turnaround times.



Stripping, preparation and coating of gear cutting tools in house coating centres.



Pickup and delivery of conditioned cutting tools directly to the shelf of your tool crib.



Hobbing H

horizontal workpiece axis



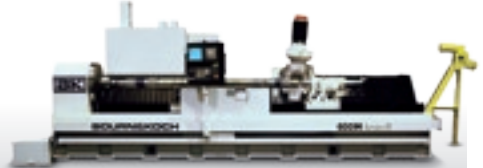
100 H
 Ø 125 mm
 mn 2.5
 face length 508 / 810 mm



200 H
 Ø 200 mm
 mn 6.4
 face length 1,230 / 1,820



400 H / HXL
 Ø 400 / 406 mm
 mn 6.4 / 2.5
 face length 1,820/3,048 mm



600 H / HE
 Ø 600 mm
 mn 10 / 12
 face length 2,540/3,760 mm

Shaping

mechanical stroke



10-4
 Ø 250 mm
 mn 6.0
 face length 100 mm



20-4
 Ø 500 mm
 mn 6.0
 face length 100 mm



MS 300-125
 Ø 300 mm
 mn 6.35
 face length 125 mm



MS 450-125
 Ø 450 mm
 mn 8.5
 face length 125 mm



MS 650-125
 Ø 650 mm
 mn 12.7
 face length 200 mm

Shaping

hydrostroke™



HS 650-200
 Ø 200 mm
 mn 12.7
 face length 300 mm



HS 650-300
 Ø 300 mm
 mn 12.7
 face length 300 mm



HS 1280-300
 Ø 300 mm
 mn 12.7
 face length 300 mm



HS 1280-450
 Ø 450 mm
 mn 12.7
 face length 300 mm



HS 2550-300
 Ø 300 mm
 mn 12.7
 face length 300 mm

Profile grinding

vertical workpiece axis



500 VG
 Ø 500 mm
 face length 300 mm



900 VG
 Ø 900 mm
 face length 300 mm



1000 VG
 Ø 1,000 mm
 face length 300 mm



1400 VG
 Ø 1,400 mm
 face length 300 mm

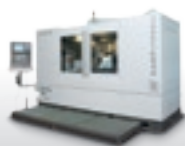
Rotor manufacturing



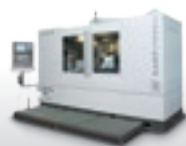
S 300 R
 rotor hobbing/milling
 Ø 200 mm
 profile depth 20 mm
 travel 400 / 600 mm



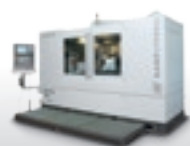
S 600 R
 rotor hobbing/milling
 Ø 400 mm
 profile depth 40 mm
 travel 800 mm



S 380 GR / GRX
 rotor grinding
 Ø 400 mm
 profile depth 52 mm
 length 940 / 1,290 mm



S 380 GP / GPX
 rotor grinding
 Ø 400 mm
 profile depth 41 mm
 length 940 / 1,290 mm



S 400 GR / GRX
 rotor grinding
 Ø 400 mm
 profile depth 65 mm
 length 1,000 / 1,500 mm

Generating/ profile grinding



S 250 G
 Ø 250 mm
 mn 0.5 - 4.0
 travel 400 mm
 vertical workpiece axis



S 400 G
 Ø 380 mm
 mn 0.5 - 8.0
 travel 400 mm
 vertical workpiece axis

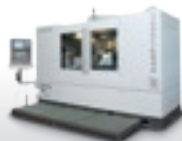


S 400 GT
 Ø 400 mm
 mn 0.5 - 6.0
 travel 1,000 mm
 horizontal workpiece axis

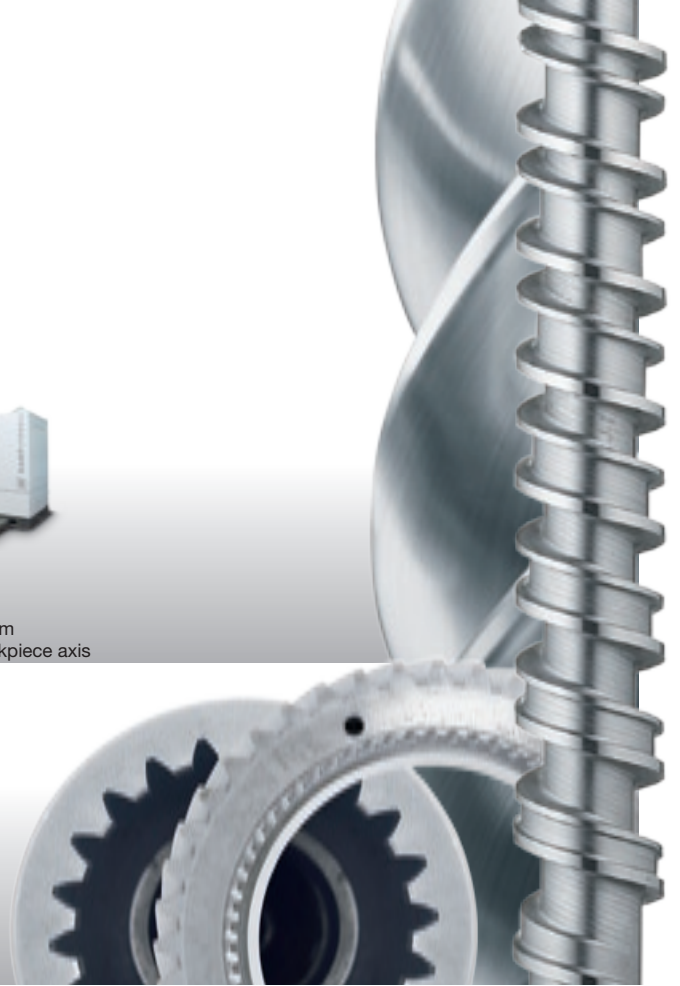
Profile grinding gears, shafts, worms, screws



S 380 G / GX
 Ø 400 mm
 mn 0.5 - 15.0
 length 940 / 1,290 mm
 horizontal workpiece axis



S 380 GP / GPX
 Ø 400 mm
 profile depth 41 mm
 length 940 / 1,290 mm
 horizontal workpiece axis



Worm grinding screw-type workpieces



S 680 GW
 Ø 400 mm
 profile depth 52 mm
 length 940 mm
 horizontal workpiece axis



S 1000 GW
 Ø 400 mm
 profile depth 52 mm
 length 1,290 mm
 horizontal workpiece axis



S 3000 GW
 Ø 400 mm
 profile depth 52 mm
 length 3,600 mm
 horizontal workpiece axis

Tool sharpening shaving cutters



S 400 GS
 Ø 400 mm
 mn 15.0
 face width 70 mm
 shave cutters, master gears



CTG 3
 Ø 100 mm
 length 530
 travel 280 mm



PTG 1
 Ø 100 mm
 length 530
 travel +/- 100 mm



PTG 4
 Ø 100 mm
 length 530
 travel +/- 100 mm



PTG 6
 Ø 170 mm
 length 520
 travel 300 mm

Tool sharpening gear tools, broaches, slab mills, rack cutters and step tools



UTG 600
 Ø 254 mm
 length 3,360 mm
 travel 800 mm



UTG 1200
 Ø 254 mm
 length 4,370 mm
 travel 1,480 mm



UTG 1800
 Ø 254 mm
 length 4,980 mm
 travel 2,080 mm



UTG 2000
 Ø 254 mm
 length 5,590 mm
 travel 2,680 mm



Connected to a world of service

Stay connected with your local Samputensili service centre for the best in terms of productivity, precision and rapid turnaround of your gear production tool.



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