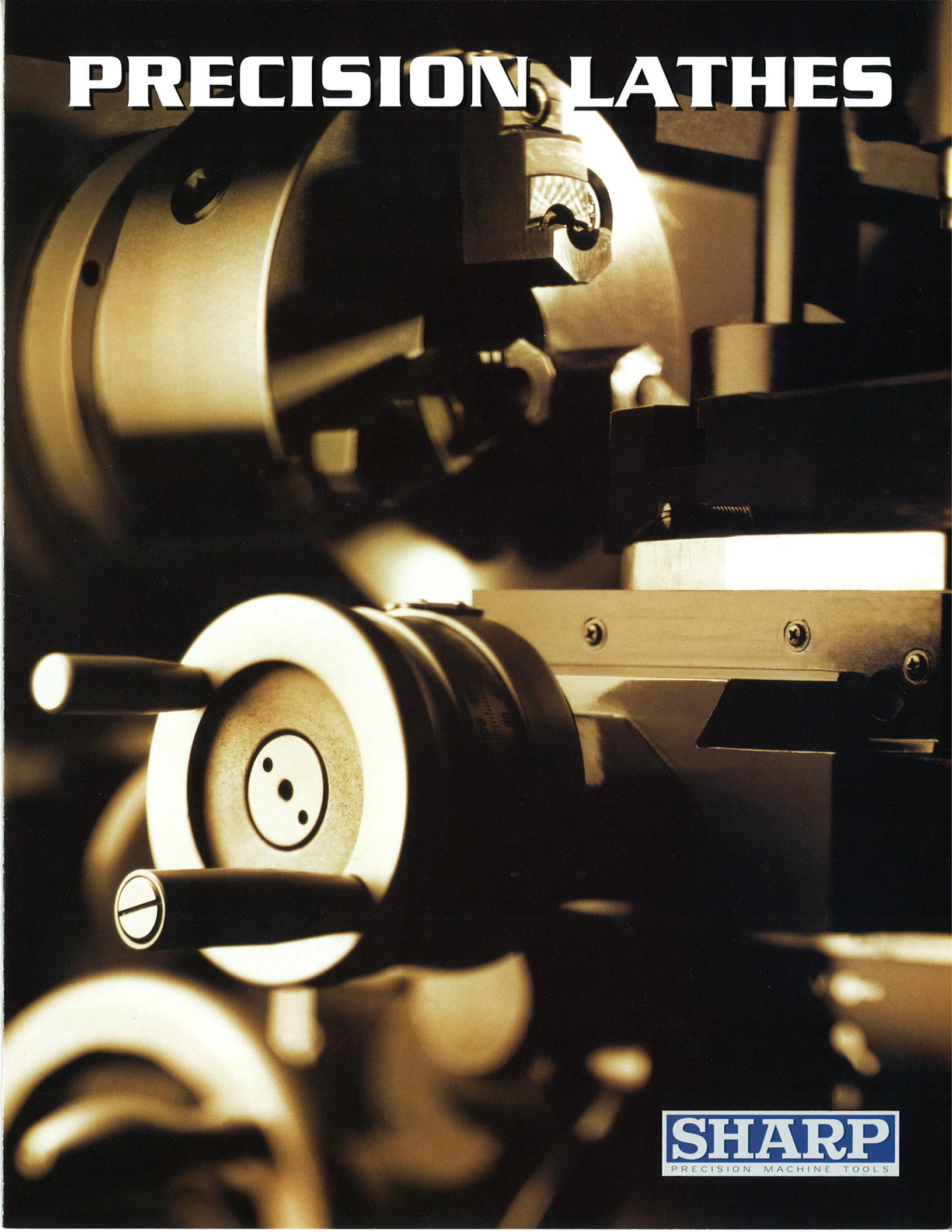
PRECISION LATHES

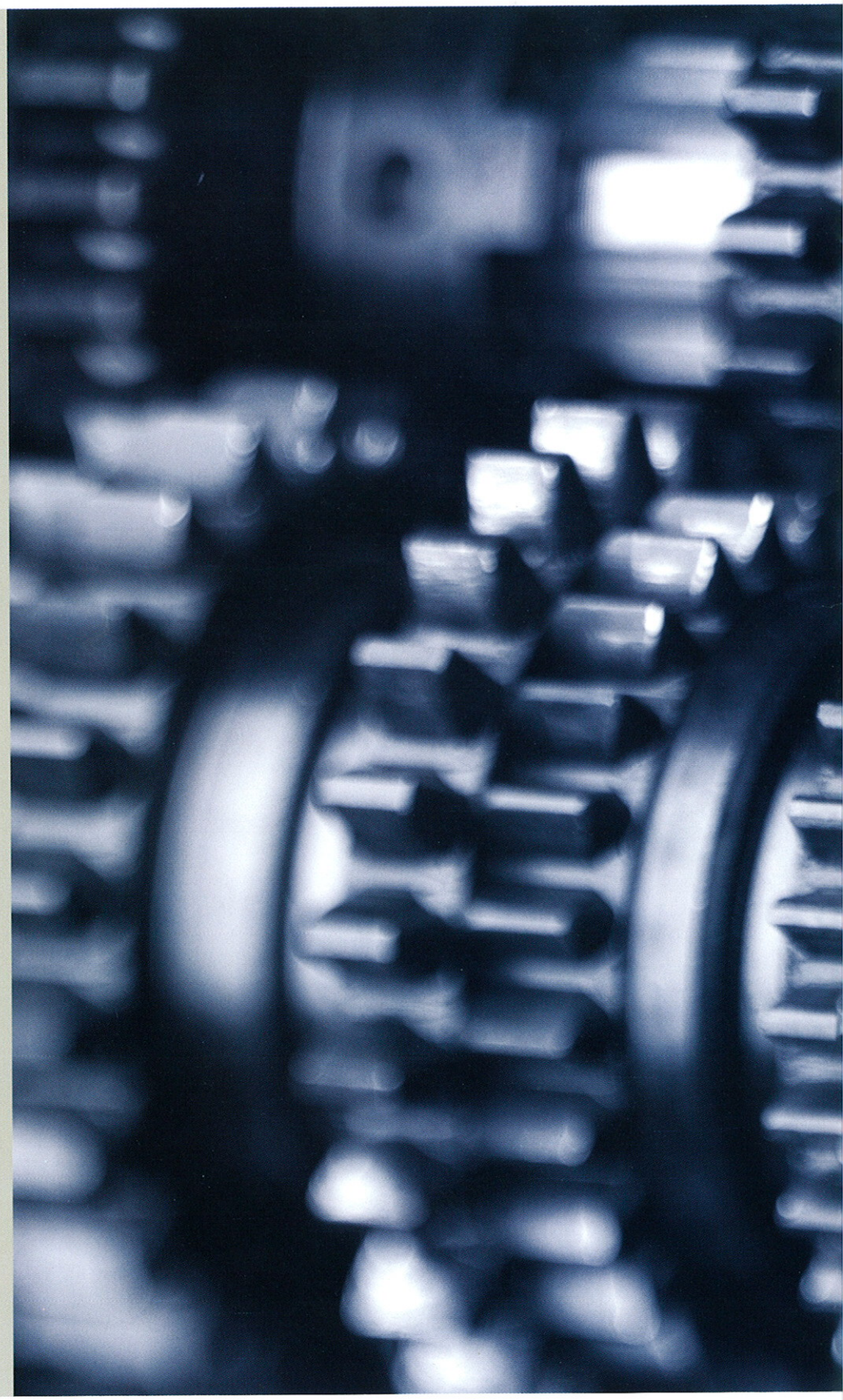


SHARP
PRECISION MACHINE TOOLS

SHARP LATHES: PERF

Every Sharp lathe is designed for reliability and performance. Our universal gearbox, for example allows quick and easy changes between inch and metric threading. All it takes is the shifting of a few levers, as opposed to opening a gearbox and replacing gears.

The gears themselves are also special. Every gear is hardened and ground for durability and long life. And to further enhance reliability, our gearbox is designed with rotary style gearshifting along one axis of movement. This design is far superior to two-directional shifting because it means there will be less movement of the gears during shifting. Less movement ensures less wear and greater accuracy.



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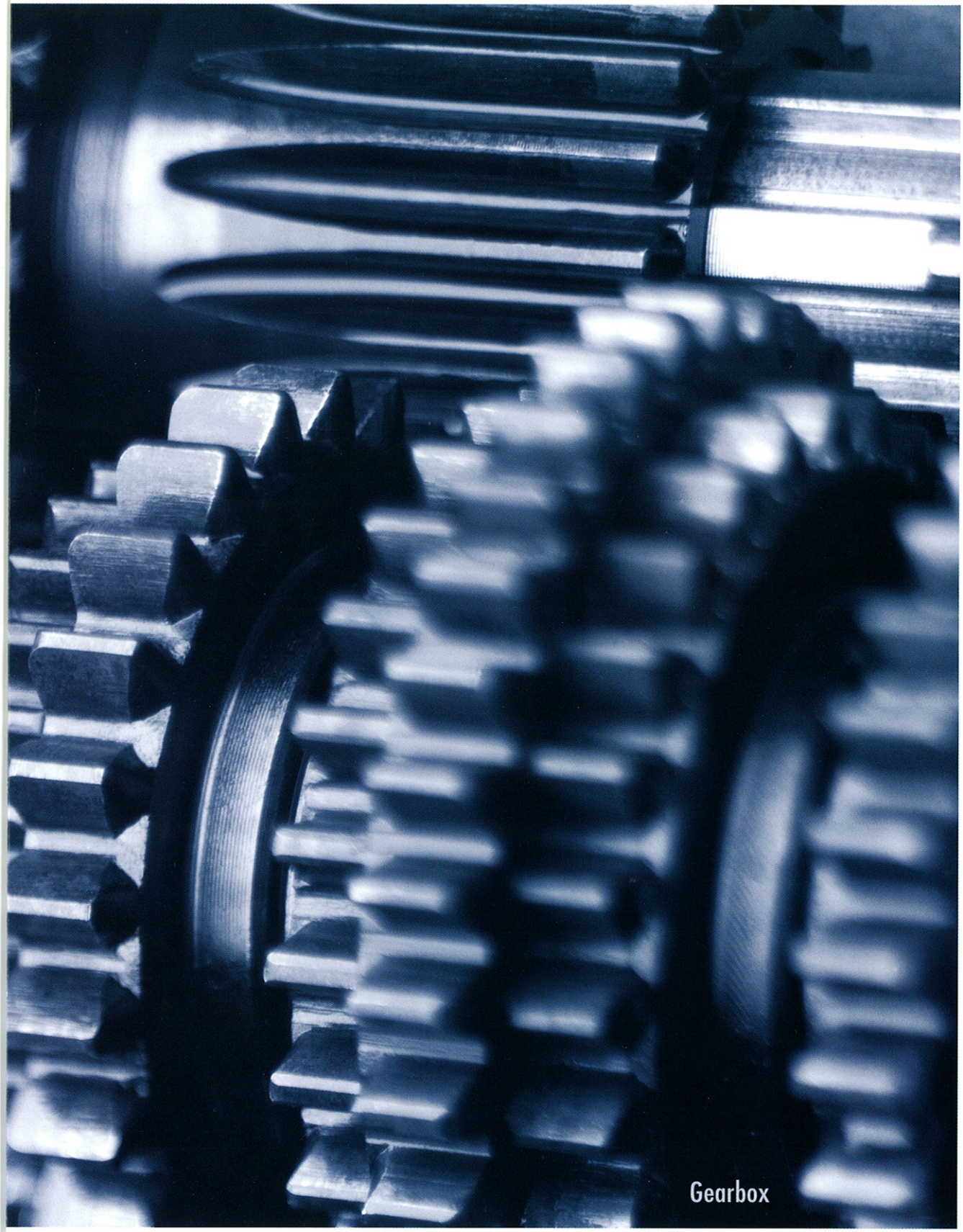

Gearbox

The spindle
in our lat
ground alloy
mount our sp
tapered roller
bearing. This sp
port system ensu

On top of t
design is our pa
stock. With the
blocks you can
turning at even
is far more pre
holes in the sp
patented heads
can reliably turn

. I T Y A T E V E R Y T U R N .

is the heart of a lathe. So
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ndle on two precision
bearings and one ball
ecial triple-bearing sup-
res accuracy and stability.
ıis unparalleled spindle
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guarantee vibration-free
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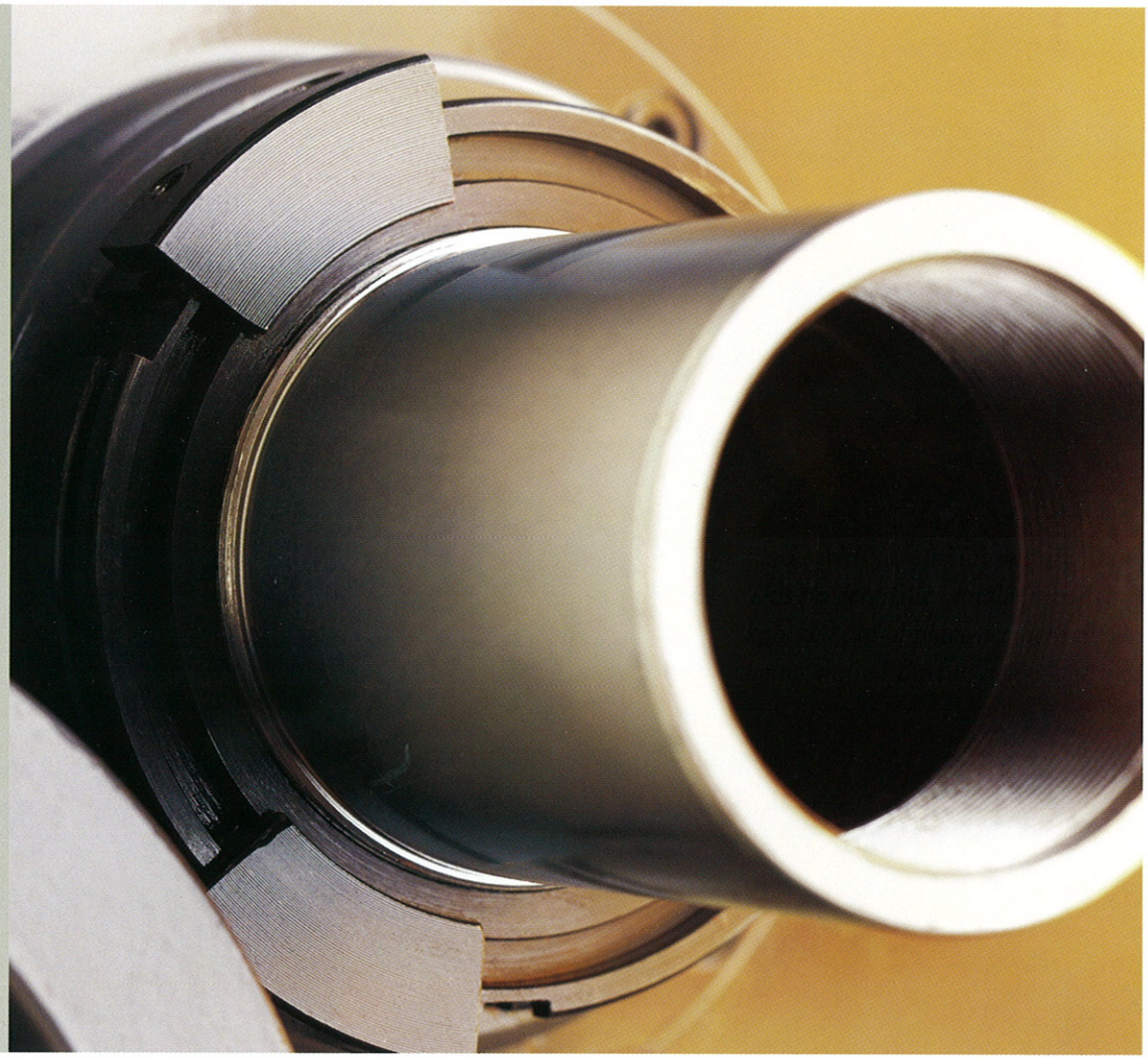
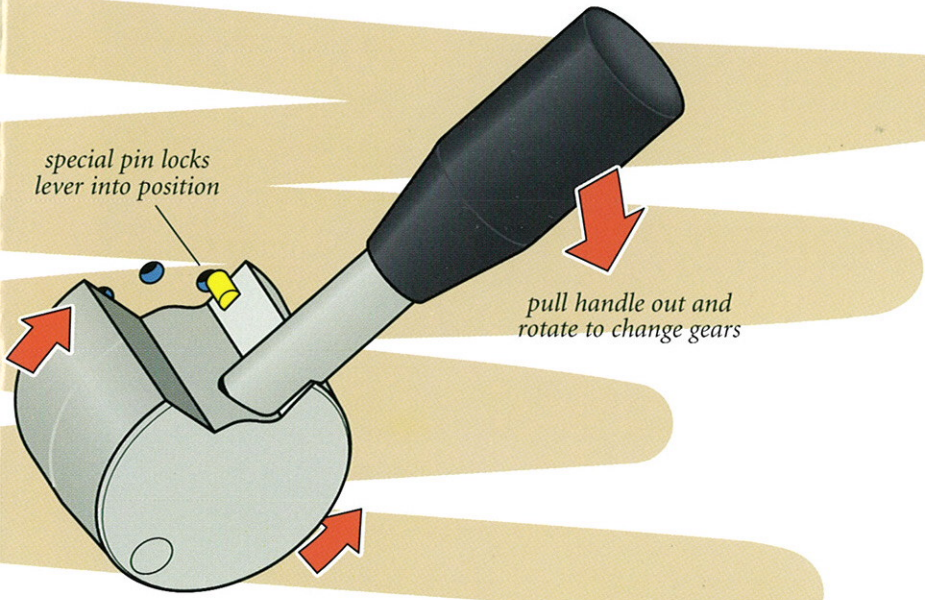
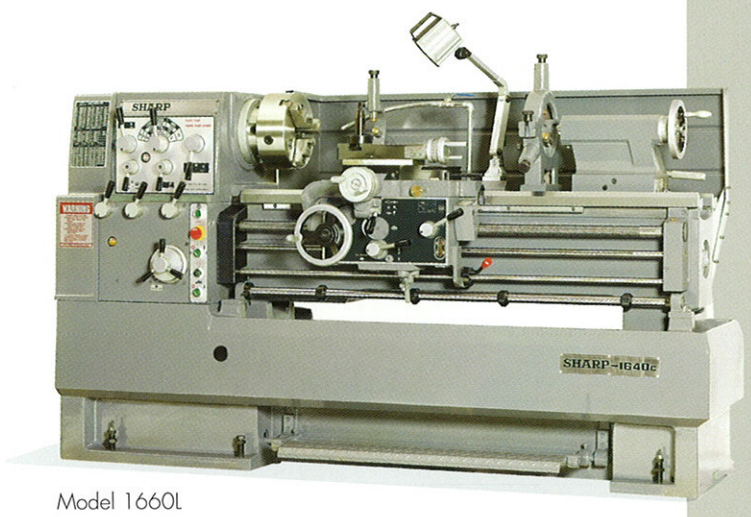




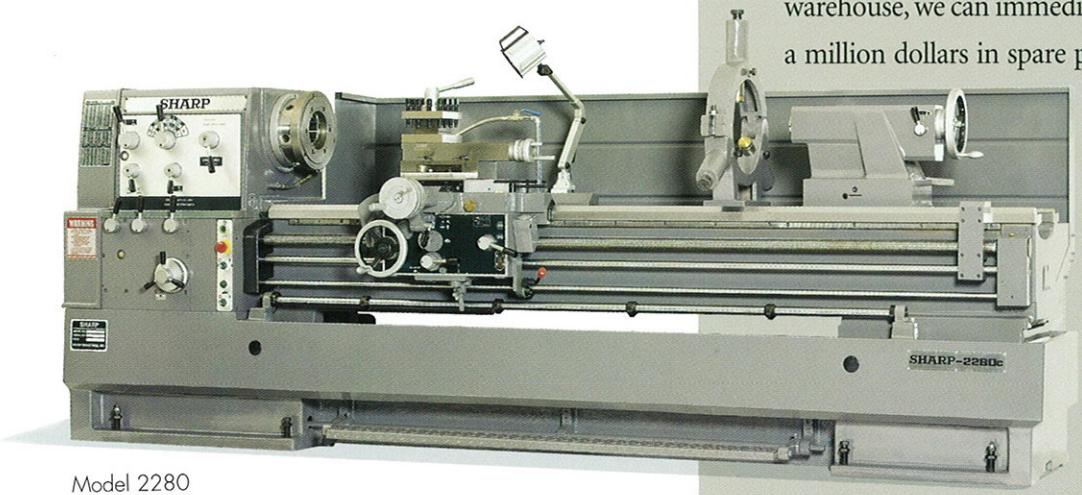
At Sharp, even something as simple as a gear shifting lever shows our dedication to precision. Our shifting handles, once engaged, are kept in place with a special locking pin. This prevents the handle from being knocked out of place accidentally or being shifted during heavy cutting. And though they can be rigidly locked into place, our levers are quickly and easily repositioned by simply pulling them back and moving them to a new position.

If Sharp has come to stand for one thing, it would be enduring precision. Every element of every machine is built to exacting standards for a lifetime of reliability. Our beds, for example, are made of certified, one-piece Meehanite castings. Meehanite is world-renowned for uniform construction and durability. Our bedways are induction-hardened for years of worry-free precision. And every headstock gear is hardened, ground alloy steel.

But there's more to a Sharp than what's in it. One of the best features is the company behind it. Sharp Industries has been furnishing high quality equipment since 1975. We have knowledgeable technicians to provide an immediate response to service questions. And from our state-of-the-art 45,000 square foot warehouse, we can immediately ship any of over a million dollars in spare parts and accessories. We do everything we can to get your Sharp machine up and running, and help you to keep it that way.



Model 1660L



Model 2280

At Sharp, we supply over 80 kinds of machines. Machines like lathes, grinders, radial drills, mills and much more. But no matter which machine you use, you'll find every Sharp stands for the same thing—enduring precision.

SPECIFICATIONS

Lathe Model	1640L 1640LV	1660L 1660LV	1860L 1860LV	1880L	2060	2280	2680
Capacity							
swing over bed	16"		18"		20"	22"	26"
swing over crosslide	8 3/4"		10.2"		11 1/2"	13 1/2"	18"
swing over gap, width	24 3/8", 10 3/4"		26 1/2", 10 3/4"		28 1/2", 12"	31", 12"	35", 12"
distance between centers	40"	60"	60"	80"	60"	80"	80"
Headstock							
spindle nose type	D1-8 camlock		D1-8 camlock		D1-8 camlock	D1-8 camlock	D1-8 camlock
spindle bore	3 1/16"		3 1/16"		3 1/8"	3 1/8"	3 1/8"
spindle speeds [12] (L Models)	20-2,000rpm		20-2,000rpm		15-1,500rpm	15-1,500rpm	15-1,500rpm
spindle speeds (vari-speed) (LV Models)	20-2,000rpm		20-2,000rpm				
Taper of spindle bore	MT #6		MT #6		MT #7	MT #7	MT #7
Taper of center	MT #4		MT #4		MT #5	MT #5	MT #5
Threads & Feeds							
longitudinal feeds - in/rev [18]	0.002-.032"		0.002-.032"		0.002-.032"	0.002-.032"	0.002-.032"
crossfeed - in/rev [#]	0.001-.0094"[12]		0.001-.0094"[12]		0.001-.0094"[17]	0.001-.0094"[17]	0.001-.0094"[17]
inch threads [#]	4-56 tpi [36]		4-56 tpi [36]		2-56 tpi [44]	2-56 tpi [44]	2-56 tpi [44]
metric & module threads [#]	0.5-7mm[17]		0.5-7mm[17]		0.5-7mm[17]	0.5-14mm[24]	0.5-14mm[24]
D.P. threads [36]	4-56mm		4-56mm		4-56mm	4-56mm	4-56mm
leadscrew pitch, diameter	4 tpi, 1 3/8"		4 tpi, 1 3/8"		4 tpi, 1 1/2"	4 tpi, 1 1/2"	4 tpi, 1 1/2"
Carriage							
crosslide travel	8.7"		9 7/8"		10.8"	12"	13 3/4"
compound rest travel	4.9"		5.3"		5.3"	6.2"	6.2"
compound width	4.5"		5.0"		6"	6"	6"
Bed							
bed length	59"	77"	79"	99"	83"	99"	99"
bed width	11 3/4"		11 3/4"		13 3/4"	15 3/4"	15 3/4"
Tailstock							
quill travel (graduated)	5"		5 1/2"		6 1/2"	6 1/2"	6 1/2"
quill diameter	2 1/4"		2 11/16"		3"	3"	3"
quill taper	MT #4		MT #4		MT #5	MT #5	MT #5
General							
spindle motor (220V or 440V, 60, 3)	7 1/2 hp		7 1/2 hp		10 hp	15 hp	15 hp
net weight (approximately)	3,600 lbs	4,100 lbs	4,500 lbs	5,300 lbs	5,200 lbs	5,900 lbs	6,200 lbs
Standard Equipment	Digital vari-speed (LV Models). 3-jaw chuck on 16, 18" lathes. 4-jaw chuck on 20, 22, 26" lathes. Coolant system. American toolpost. Halogen work light. Face plate. Steady rest (10.5"). Longitudinal carriage stops. Tool kit. Splash guard. Follow rest on 16, 18" lathes.						
Optional Accessories	Follow rest. Digital readout. Tracer, taper attachment. Micrometer carriage stop. Quick-change tool holder. 5C collet closer.						

SHARP
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Sharp Industries, Inc.
3501 Challenger Street
Torrance, CA 90503 USA
Tel (310) 370-5990, fax 542-6162