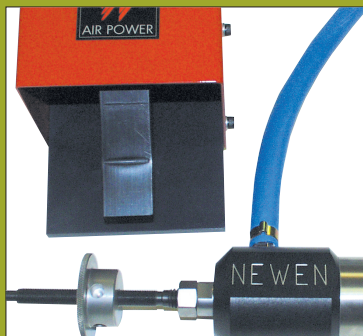
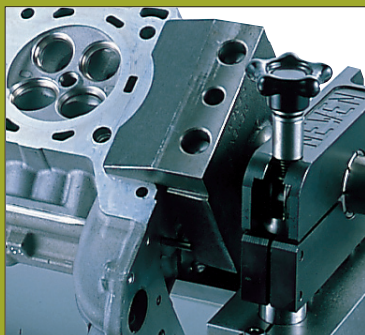


TOOLS, FIXTURES & ACCESSORIES

ENGLISH



NEWEN®

FIXED-TURNING®

the new standard
in valve seat machining™

ZERO Defect... 100% Perfection! FIXED-TURNING® in all its forms

CONTOUR-BB™

... the best budget



CONTOUR™

... the extra comfort



CONTOUR™
featured with
an IVECO cylinder head

Who is best able to guaranty the 2012 OEM quality requirements on the following operations...

	NEWEN FIXED-TURNING® machines		The best Form-Tool seat & guide machines in the market	
	YES	NO	YES	NO
Machine the hardest valve seats with a 100% guaranteed precision and, of course, chatter free	✓			X
Machine round and concentric valve seats 100% of the time regardless of the material to machine	✓			X
Machine round and concentric valve seats for a 100% seal regardless of the diameter of the seat ranging from 14 to 240mm (.55" to 9.45")	✓			X
Machine perfectly round & square valve seat housings within a 0.005mm (.0002") circularity tolerance and perpendicularity of the resting face (OEM tolerance)	✓			X
Machine valve guides with "H7" (OEM Tolerance) automatically	✓			X
Carry out all the machining operations in automatic with depth tolerances within a few hundredths of mm regardless of the diameters of the valve seats and their hardness	✓			X
Guaranty optimum quality with an operator who only has a few days of training	✓			X
Guaranty the same quality for decades to come regardless of the materials and precision levels required	✓			X
Guaranty the machining of all the shapes and profiles with one standard single point cutting tool	✓			X
Guaranty an inventory of the most complex profiles and make them available at any moment with a few simple touches on the screen	✓			X
Guaranty the capacity to machine all types of cylinder heads that may exist, including the ones featuring venturi type shapes (back cuts) below the seats	✓			X

EPOC-XL™

... objective no-limit



EPOC™

... reach for the extreme



Featured with 2 AFR 1450
small block heads mounted
side by side, each on a
SGC200M.

World Patents: 6,086293; 6,382883B1; 6,382,884B1...

BE> THINK> INNOVATE>

NEWEN®

NEWEN

298-D Enterprise St • Escondido, CA 92029 • USA
Tel: +1-760-233-0067 • Fax: +1-760-233-0068
Toll Free (USA & Canada): 1-800-639-3693

www.newen.com

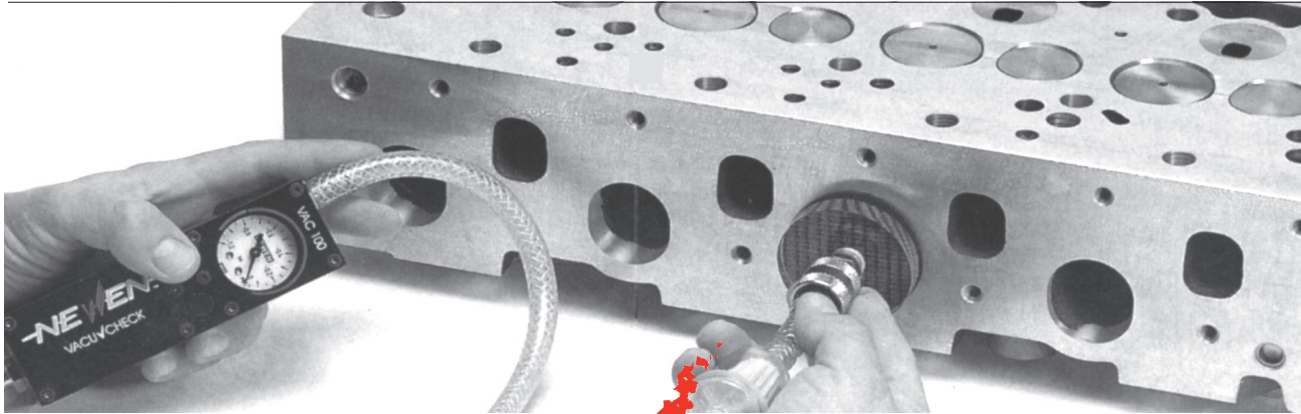
Email: contact@newen.com • www.newen.com





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VACU-CHECK™

PATENTED

LEAKDOWN DETECTION

What sets the Vacucheck™ apart from any other vacuum tester on the market are its two built-in non-return valves that actually hold the vacuum that it creates.

Once the vacuum is created, the built-in valves shut automatically and the vacuum is held within a totally airtight volume.

The gauge of the Vacucheck™ is installed in line within a totally airtight volume.

The gauge of the Vacucheck™ is installed in line with the above mentioned circuit and allows the Vacucheck™ user to measure any leak accurately, regardless of its size, including micro-leaks that typically go unnoticed.

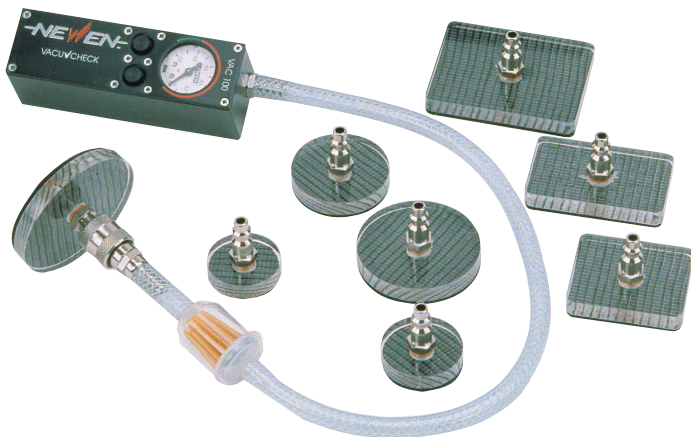
True leak detection can only occur after the pump is stopped.

Only Vacucheck™ lets you measure the leakdown time and detect leaks.

A two step process:

1. Create the vacuum
2. Monitor leak

Vacucheck™, another NEWEN® innovation....



■ VAC100

The Vacucheck™ comes in a sturdy, yet light-weight carrying case, with 8 pads and two in-line filters. It is easy to carry, fits comfortably in your hand and only requires an airline to be operated.

TECHNICAL CHARACTERISTICS

Compressed Air:

Pressure: 70 to 90 PSI (5 to 6 bars)

Air Flow: 1.12 cfm (0.53 l/second)

Depression:

Maximum Vacuum: 28.1" Hg (-94kPa)

Time for evacuation of 1 liter of air

14.94" Hg (-50kPa) = 2 seconds

23.91" Hg (-80 kPa) = 5 seconds

Sound level: 60 dB(A)

Temperature: -4°F to +176°F (-20°C to +80°C)



■ **VAC301**
Replacement plexiglass plate
Round
Diameter: 42mm (1.6535")



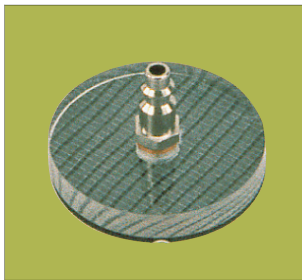
■ **VAC302**
Replacement plexiglass plate
Round
Diameter: 45mm (1.7716")



■ **VAC303**
Replacement plexiglass plate
Round
Diameter: 57mm (2.2441")



■ **VAC304**
Replacement plexiglass plate
Round
Diameter: 70mm (2.7559")



■ **VAC305**
Replacement plexiglass plate
Round
Diameter: 80mm (3.1496")



■ **VAC306**
Replacement plexiglass plate
Rectangular
Dimensions: 50mm x 80mm
(1.9685" x 3.1496")



■ **VAC307**
Replacement plexiglass plate
Rectangular
Dimensions: 55mm x 65mm
(2.1654" x 2.5591")



■ **VAC308**
Replacement plexiglass plate
Rectangular
Dimensions: 70mm x 90mm
(2.7559" x 3.5433")



■ **VAC323**
Replacement in-line filter
(unit: one filter).



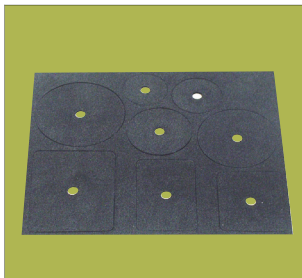
■ **VAC329**
Replacement vacuum chip.



■ **VAC330**
Replacement gauge.



■ **VAC308**
Plexiglass Plate
Rectangular
Dimensions: 101.6mm X101.6mm
(4" x 4")



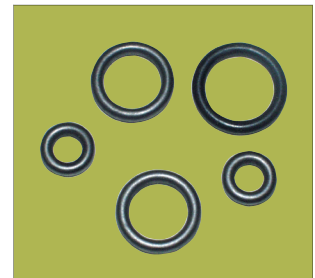
■ **VAC311**
Replacement pre-cut
self-adhesive foam pad
set (100% compatible with
Serdipads).



■ **VAC326**
Aluminum plug for plexi-
glass plates.



■ **VAC322**
Quick Connection with rub-
ber tip for closed circuit.



■ **VAC332**
Replacement O-ring set.

■ TUG100

TUG-GUN™, universal pneumatic impact puller.

Includes: (1) pneumatic impact puller, (1) foot pedal, (1) TUG600 - threaded shaft, (1) TUG602 - expansion nut, (1) TUG601 - set of 2 keepers, (1) TUG603 - wrench for expansion nut.



NEWEN® TUG-GUN™ (Patented) PNEUMATIC IMPACT PULLER

Nothing resist the TUG-GUN™:
oxidized studs, industrial engine
valve seats, freeze plugs...

- Powerfull (2000 strikes per minute)
- Universal
- Ensures even pressure around the seat
- No damage to the cylinder head and seat counterbores (no gouges, no chew ups...)
- Fast
- Easy to use
- Portable
- Countless applications: Studs, axles, rings, bearing casings, valve inserts, etc...

TUG-GUN™

by NEWEN®

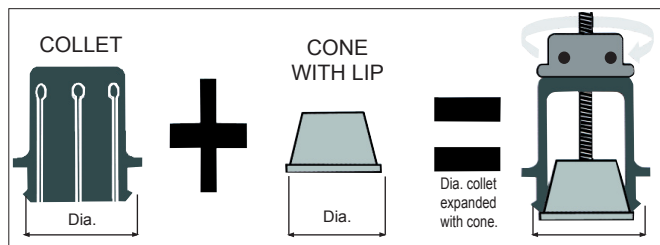
"Machinists faced with the task of extracting valve seat inserts have only a few removal options - lever-type pullers, expansion-type pullers or heating with a torch so that the cylinder head expands quickly enough to allow the insert to pop out. Unfortunately, all three methods have the potential to damage the head and/or seat counterbores.

TUG-GUN™ uses a novel approach - pneumatic power - to quickly extract valve seat inserts within seconds, without damage. You begin by putting the proper collet and cone for the application onto the gun's threaded rod to hold everything in place. Once the correct spacers are selected, you place them between the collet's upper lip and the top of the valve seat. Next, position the TUG-GUN™ onto the seat, making sure that the lower collet lip engages the bottom of the seat. Finally, snug up the expansion nut, activate the gun and watch as the seat insert pulls effortlessly away from the counterbore.

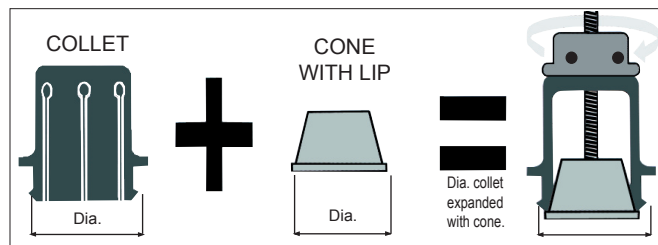
NEWEN® makes collets to handle every head imaginable - from the smallest aluminum job to the gargantuan cast-iron diesels from Caterpillar, Detroit Diesel and Cummins. Optional attachments are also available to extract press-in studs...."

September 1994

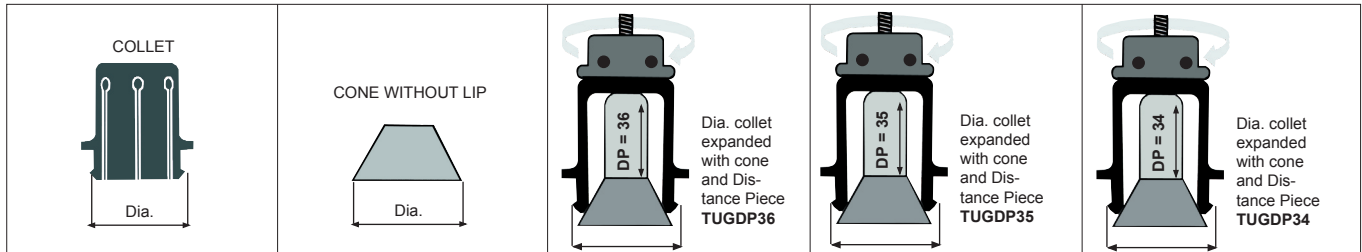
Motor Magazine



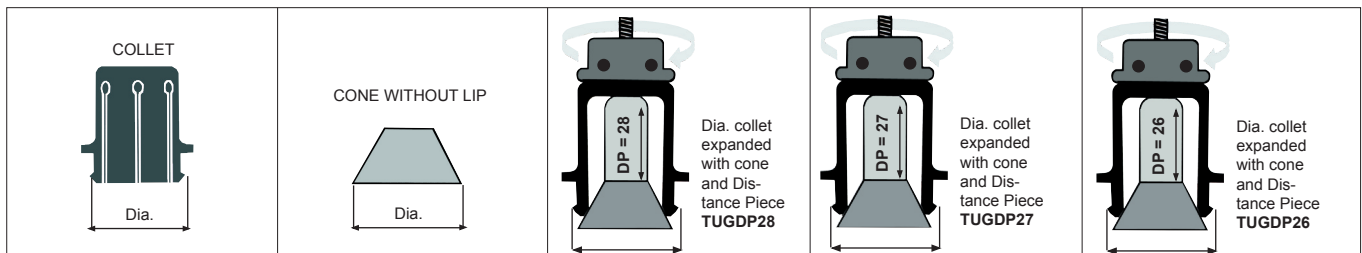
TUG301 Dia. 23mm (.906")	TUG419 Dia. 19mm (.748")	Dia. 24mm (.945")
TUG301 Dia. 23mm (.906")	TUG420 Dia. 20mm (.787")	Dia. 25mm (.984")
TUG302 Dia. 25mm (.984")	TUG421 Dia. 21mm (.827")	Dia. 26mm (1.024")
TUG302 Dia. 25mm (.984")	TUG422 Dia. 22mm (.866")	Dia. 27mm (1.063")
TUG303 Dia. 27mm (1.063")	TUG423 Dia. 23mm (.906")	Dia. 28mm (1.102")
TUG303 Dia. 27mm (1.063")	TUG424 Dia. 24mm (.945")	Dia. 29mm (1.142")
TUG304 Dia. 29mm (1.142")	TUG425 Dia. 25mm (.984")	Dia. 30mm (1.181")
TUG304 Dia. 29mm (1.142")	TUG426 Dia. 26mm (1.024")	Dia. 31mm (1.220")
TUG305 Dia. 31mm (1.220")	TUG427 Dia. 27mm (1.063")	Dia. 32mm (1.260")
TUG305 Dia. 31mm (1.220")	TUG428 Dia. 28mm (1.102")	Dia. 33mm (1.299")
TUG306 Dia. 33mm (1.299")	TUG429 Dia. 29mm (1.142")	Dia. 34mm (1.339")
TUG306 Dia. 33mm (1.299")	TUG430 Dia. 30mm (1.181")	Dia. 35mm (1.378")
TUG306 Dia. 33mm (1.299")	TUG431 Dia. 31mm (1.220")	Dia. 36mm (1.417")
TUG307 Dia. 35mm (1.378")	TUG432 Dia. 32mm (1.260")	Dia. 37mm (1.457")
TUG306 Dia. 33mm (1.299")	TUG433 Dia. 33mm (1.299")	Dia. 38mm (1.496")
TUG307 Dia. 35mm (1.378")	TUG434 Dia. 34mm (1.399")	Dia. 39mm (1.535")
TUG308 Dia. 37mm (1.457")	TUG435 Dia. 35mm (1.378")	Dia. 40mm (1.575")
TUG307 Dia. 35mm (1.378")	TUG436 Dia. 36mm (1.417")	Dia. 41mm (1.614")
TUG308 Dia. 37mm (1.457")	TUG437 Dia. 37mm (1.457")	Dia. 42mm (1.654")
TUG309 Dia. 39mm (1.535")	TUG438 Dia. 38mm (1.496")	Dia. 43mm (1.693")
TUG308 Dia. 37mm (1.457")	TUG439 Dia. 39mm (1.535")	Dia. 44mm (1.732")
TUG309 Dia. 39mm (1.535")		
TUG310 Dia. 41mm (1.614")		
TUG309 Dia. 39mm (1.535")		
TUG310 Dia. 41mm (1.614")		
TUG310 Dia. 41mm (1.614")		



TUG311 Dia. 43mm (1.693")	TUG439 Dia. 39mm (1.535")	Dia. 44mm (1.732")
TUG310 Dia. 41mm (1.614")	TUG440 Dia. 40mm (1.575")	Dia. 45mm (1.772")
TUG311 Dia. 43mm (1.693")	TUG441 Dia. 41mm (1.614")	Dia. 46mm (1.811")
TUG311 Dia. 43mm (1.693")	TUG442 Dia. 42mm (1.654")	Dia. 47mm (1.850")
TUG312 Dia. 45mm (1.772")	TUG443 Dia. 43mm (1.693")	Dia. 48mm (1.890")
TUG311 Dia. 43mm (1.693")	TUG444 Dia. 44mm (1.732")	Dia. 49mm (1.929")
TUG312 Dia. 45mm (1.772")	TUG445 Dia. 45mm (1.772")	Dia. 50mm (1.968")
TUG312 Dia. 45mm (1.772")	TUG446 Dia. 46mm (1.811")	Dia. 51mm (2.008")
TUG313 Dia. 47mm (1.850")	TUG447 Dia. 47mm (1.850")	Dia. 52mm (2.047")
TUG312 Dia. 45mm (1.772")	TUG448 Dia. 48mm (1.890")	Dia. 53mm (2.087")
TUG313 Dia. 47mm (1.850")	TUG449 Dia. 49mm (1.929")	Dia. 54mm (2.126")
TUG313 Dia. 47mm (1.850")	TUG450 Dia. 50mm (1.968")	Dia. 55mm (2.165")
TUG314 Dia. 49mm (1.929")	TUG451 Dia. 51mm (2.008")	Dia. 56mm (2.205")
TUG313 Dia. 47mm (1.850")	TUG452 Dia. 52mm (2.047")	Dia. 57mm (2.244")
TUG314 Dia. 49mm (1.929")	TUG453 Dia. 53mm (2.087")	Dia. 58mm (2.283")
TUG315 Dia. 51mm (2.008")	TUG454 Dia. 54mm (2.126")	Dia. 59mm (2.323")
TUG314 Dia. 49mm (1.929")		
TUG315 Dia. 51mm (2.008")		
TUG314 Dia. 49mm (1.929")		
TUG315 Dia. 51mm (2.008")		
TUG316 Dia. 53mm (2.087")		
TUG315 Dia. 51mm (2.008")		
TUG316 Dia. 53mm (2.087")		
TUG317 Dia. 55mm (2.165")		
TUG316 Dia. 53mm (2.087")		
TUG317 Dia. 55mm (2.165")		
TUG317 Dia. 55mm (2.165")		



TUG302 Dia. 25mm (.984")	TUG519 Dia. 19mm (.748")	Dia. 26mm (1.024")	Dia. 26.5mm (1.043")	Dia. 27mm (1.063")
TUG302 Dia. 25mm (.984")	TUG520 Dia. 20mm (.787")	Dia. 27mm (1.063")	Dia. 27.5mm (1.083")	
TUG303 Dia. 27mm (1.063")	TUG521 Dia. 21mm (.827")	Dia. 28mm (1.102")	Dia. 28.5mm (1.122")	Dia. 29mm (1.142")
TUG303 Dia. 27mm (1.063")	TUG522 Dia. 22mm (.866")	Dia. 29mm (1.142")	Dia. 29.5mm (1.161")	Dia. 30mm (1.181")



TUG304 Dia. 29mm (1.142")	TUG523 Dia. 23mm (.906")	Dia. 30mm (1.181")	Dia. 30.5mm (1.201")	Dia. 31mm (1.220")
TUG304 Dia. 29mm (1.142")	TUG524 Dia. 24mm (.945")	Dia. 31mm (1.220")	Dia. 31.5mm (1.240")	Dia. 32mm (1.260")
TUG305 Dia. 31mm (1.220")	TUG525 Dia. 25mm (.984")	Dia. 32mm (1.260")	Dia. 32.5mm (1.280")	Dia. 33mm (1.299")
TUG305 Dia. 31mm (1.220")	TUG526 Dia. 26mm (1.024")	Dia. 33mm (1.299")	Dia. 33.5mm (1.319")	Dia. 34mm (1.339")
TUG306 Dia. 33mm (1.299")	TUG527 Dia. 27mm (1.063")	Dia. 34mm (1.339")	Dia. 34.5mm (1.358")	Dia. 35mm (1.378")
TUG306 Dia. 33mm (1.299")	TUG528 Dia. 28mm (1.102")	Dia. 35mm (1.378")	Dia. 35.5mm (1.398")	Dia. 36mm (1.417")
TUG307 Dia. 35mm (1.378")	TUG529 Dia. 29mm (1.142")	Dia. 36mm (1.417")	Dia. 36.5mm (1.437")	Dia. 37mm (1.457")
TUG307 Dia. 35mm (1.378")	TUG530 Dia. 30mm (1.181")	Dia. 37mm (1.457")	Dia. 37.5mm (1.476")	Dia. 38mm (1.496")
TUG308 Dia. 37mm (1.457")	TUG531 Dia. 31mm (1.220")	Dia. 38mm (1.496")	Dia. 38.5mm (1.516")	Dia. 39mm (1.535")
TUG308 Dia. 37mm (1.457")	TUG532 Dia. 32mm (1.260")	Dia. 39mm (1.535")	Dia. 39.5mm (1.555")	Dia. 40mm (1.575")
TUG309 Dia. 39mm (1.535")	TUG533 Dia. 33mm (1.299")	Dia. 40mm (1.575")	Dia. 40.5mm (1.594")	Dia. 41mm (1.614")
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TUG310 Dia. 41mm (1.614")	TUG535 Dia. 35mm (1.378")	Dia. 42mm (1.654")	Dia. 42.5mm (1.673")	Dia. 43mm (1.693")
TUG310 Dia. 41mm (1.614")	TUG536 Dia. 36mm (1.417")	Dia. 43mm (1.693")	Dia. 43.5mm (1.713")	Dia. 44mm (1.732")
TUG311 Dia. 43mm (1.693")	TUG537 Dia. 37mm (1.457")	Dia. 44mm (1.732")	Dia. 44.5mm (1.752")	Dia. 45mm (1.772")
TUG311 Dia. 43mm (1.693")	TUG538 Dia. 38mm (1.496")	Dia. 45mm (1.772")	Dia. 45.5mm (1.791")	Dia. 46mm (1.811")
TUG312 Dia. 45mm (1.772")	TUG539 Dia. 39mm (1.535")	Dia. 46mm (1.811")	Dia. 46.5mm (1.831")	Dia. 47mm (1.850")
TUG312 Dia. 45mm (1.772")	TUG540 Dia. 40mm (1.575")	Dia. 47mm (1.850")	Dia. 47.5mm (1.870")	Dia. 48mm (1.890")
TUG313 Dia. 47mm (1.850")	TUG541 Dia. 41mm (1.614")	Dia. 48mm (1.890")	Dia. 48.5mm (1.909")	Dia. 49mm (1.929")
TUG313 Dia. 47mm (1.850")	TUG542 Dia. 42mm (1.654")	Dia. 49mm (1.929")	Dia. 49.5mm (1.949")	Dia. 50mm (1.968")
TUG314 Dia. 49mm (1.929")	TUG543 Dia. 43mm (1.693")	Dia. 50mm (1.968")	Dia. 50.5mm (1.988")	Dia. 51mm (2.008")
TUG314 Dia. 49mm (1.929")	TUG544 Dia. 44mm (1.732")	Dia. 51mm (2.008")	Dia. 51.5mm (2.028")	Dia. 52mm (2.047")
TUG315 Dia. 51mm (2.008")	TUG545 Dia. 45mm (1.772")	Dia. 52mm (2.047")	Dia. 52.5mm (2.067")	Dia. 53mm (2.087")
TUG315 Dia. 51mm (2.008")	TUG546 Dia. 46mm (1.811")	Dia. 53mm (2.087")	Dia. 53.5mm (2.106")	Dia. 54mm (2.126")
TUG316 Dia. 53mm (2.087")	TUG547 Dia. 47mm (1.850")	Dia. 54mm (2.126")	Dia. 54.5mm (2.146")	Dia. 55mm (2.165")
TUG316 Dia. 53mm (2.087")	TUG548 Dia. 48mm (1.890")	Dia. 55mm (2.165")	Dia. 55.5mm (2.185")	Dia. 56mm (2.205")
TUG317 Dia. 55mm (2.165")	TUG549 Dia. 49mm (1.929")	Dia. 56mm (2.205")	Dia. 56.5mm (2.224")	Dia. 57mm (2.244")
TUG317 Dia. 55mm (2.165")	TUG550 Dia. 50mm (1.968")	Dia. 57mm (2.244")	Dia. 57.5mm (2.264")	Dia. 58mm (2.283")
TUG317 Dia. 55mm (2.165")	TUG551 Dia. 51mm (2.008")	Dia. 58mm (2.283")	Dia. 58.5mm (2.303")	Dia. 59mm (2.323")



**COLLET, SPACER
and CONE SETS
(FOR GENERAL AND
SELECTED
CATERPILLAR
APPLICATIONS).**

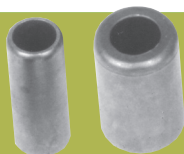
■ COLLET, SPACER & CONE SETS FOR GENERAL APPLICATIONS:

- **TUG301:** Collet Dia. 23-25mm (.905"-1.063"), 2 cones & 4 spacers.
- **TUG302:** Collet Dia. 25-27mm (.984"-1.063"), 2 cones & 4 spacers.
- **TUG303:** Collet Dia. 27-29mm (1.063"-1.142"), 2 cones & 4 spacers.
- **TUG304:** Collet Dia. 29-31mm (1.142"-1.220"), 2 cones & 4 spacers.
- **TUG305:** Collet Dia. 31-33mm (1.220"-1.299"), 2 cones & 4 spacers.
- **TUG306:** Collet Dia. 33.5-36.5mm (1.319"-1.437"), 4 cones & 4 spacers.
- **TUG307:** Collet Dia. 35.5-38.5mm (1.398"-1.516"), 4 cones & 4 spacers.
- **TUG308:** Collet Dia. 37.5-40.5mm (1.476"-1.594"), 4 cones & 4 spacers.
- **TUG309:** Collet Dia. 39.5-42.5mm (1.555"-1.673"), 4 cones & 4 spacers.
- **TUG310:** Collet Dia. 41.5-44.5mm (1.634"-1.752"), 4 cones & 4 spacers.
- **TUG311:** Collet Dia. 43.5-46.5mm (1.713"-1.831"), 4 cones & 4 spacers.
- **TUG312:** Collet Dia. 45.5-48.5mm (1.791"-1.909"), 4 cones & 4 spacers.
- **TUG313:** Collet Dia. 47.5-50.5mm (1.870"-1.988"), 4 cones & 4 spacers.
- **TUG314:** Collet Dia. 49.5-52.5mm (1.949"-2.067"), 4 cones & 4 spacers.
- **TUG315:** Collet Dia. 51.5-54.5mm (2.028"-2.146"), 4 cones & 4 spacers.
- **TUG316:** Collet Dia. 53.5-56.5mm (2.106"-2.224"), 4 cones & 4 spacers.
- **TUG317:** Collet Dia. 55.5-58.5mm (2.185"-2.303"), 4 cones & 4 spacers.

■ COLLET & CONE SETS FOR SELECTED CATERPILLAR APPLICATIONS:

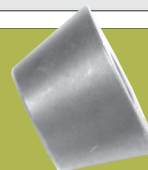
- **TUG-CAT1:** 1 collet, 1 cone, **seat ID 2.281"**, Ht. 0.625", CAT353 & like, IN.
- **TUG-CAT2:** 1 collet, 1 cone, **seat ID 2.125"**, Ht. 0.625", CAT353 & like, EX.

DISTANCE PIECE (USED WITH LIPLESS CONES)



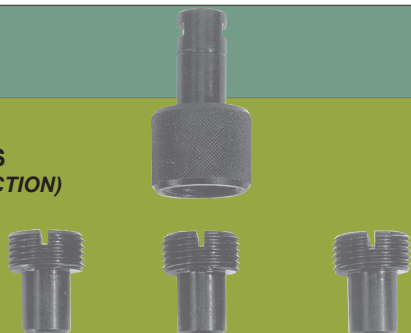
- **TUG-DP20:** Distance piece, 20mm (.787")
- **TUG-DP21:** Distance piece, 21mm (.827")
- **TUG-DP22:** Distance piece, 22mm (.866")
- **TUG-DP23:** Distance piece, 23mm (.905")
- **TUG-DP24:** Distance piece, 24mm (.944")
- **TUG-DP25:** Distance piece, 25mm (.984")
- **TUG-DP26:** Distance piece, 26mm (1.023")
- **TUG-DP27:** Distance piece, 27mm (1.063")
- **TUG-DP28:** Distance piece, 28mm (1.102")
- **TUG-DP34:** Distance piece, 34mm (1.338")
- **TUG-DP35:** Distance piece, 35mm (1.377")
- **TUG-DP36:** Distance piece, 36mm (1.417")
- **TUG-DP29.3:** Distance piece, 29.3mm (1.153")-CAT
- **TUG-DP30.3:** Distance piece, 30.3mm (1.192")-CAT
- **TUG-DP31.3:** Distance piece, 31.3mm (1.232")-CAT

LIPLESS CONE (FOR VALVE SEATS WITH CASTING INTERFERENCE AND FREEZE PLUGS).



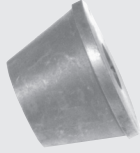
- **TUG519:** Lipless cone, dia. 19mm (.748")
- **TUG520:** Lipless cone, dia. 20mm (.787")
- **TUG521:** Lipless cone, dia. 21mm (.827")
- **TUG522:** Lipless cone, dia. 22mm (.866")
- **TUG523:** Lipless cone, dia. 23mm (.906")
- **TUG524:** Lipless cone, dia. 24mm (.945")
- **TUG525:** Lipless cone, dia. 25mm (.984")
- **TUG526:** Lipless cone, dia. 26mm (1.024")
- **TUG527:** Lipless cone, dia. 27mm (1.063")
- **TUG528:** Lipless cone, dia. 28mm (1.102")
- **TUG529:** Lipless cone, dia. 29mm (1.142")
- **TUG530:** Lipless cone, dia. 30mm (1.181")
- **TUG531:** Lipless cone, dia. 31mm (1.220")
- **TUG532:** Lipless cone, dia. 32mm (1.260")
- **TUG533:** Lipless cone, dia. 33mm (1.299")
- **TUG534:** Lipless cone, dia. 34mm (1.399")
- **TUG535:** Lipless cone, dia. 35mm (1.378")
- **TUG536:** Lipless cone, dia. 36mm (1.417")
- **TUG537:** Lipless cone, dia. 37mm (1.457")
- **TUG538:** Lipless cone, dia. 38mm (1.496")
- **TUG539:** Lipless cone, dia. 39mm (1.535")
- **TUG540:** Lipless cone, dia. 40mm (1.575")
- **TUG541:** Lipless cone, dia. 41mm (1.614")
- **TUG542:** Lipless cone, dia. 42mm (1.654")
- **TUG543:** Lipless cone, dia. 43mm (1.693")
- **TUG544:** Lipless cone, dia. 44mm (1.732")
- **TUG545:** Lipless cone, dia. 45mm (1.772")
- **TUG546:** Lipless cone, dia. 46mm (1.811")
- **TUG547:** Lipless cone, dia. 47mm (1.850")
- **TUG548:** Lipless cone, dia. 48mm (1.890")
- **TUG549:** Lipless cone, dia. 49mm (1.929")
- **TUG550:** Lipless cone, dia. 50mm (1.968")
- **TUG551:** Lipless cone, dia. 51mm (2.008")

TUG-GUN™ ACCESSORIES (STUDS EXTRACTION)



- **TUG-CK:** Stud puller connection set.
- **TUG-S-7/16x20:** Stud puller, 7/16" x 20
- **TUG-S-3/8x24:** Stud puller, 3/8" x 24
- **TUG-S-5/16x 24:** Stud puller, 5/16" x 24

CONE WITH LIP (FOR GENERAL APPLICATIONS).



- TUG419: Cone with lip, dia. 19mm (.748")
- TUG420: Cone with lip, dia. 20mm (.787")
- TUG421: Cone with lip, dia. 21mm (.827")
- TUG422: Cone with lip, dia. 22mm (.866")
- TUG423: Cone with lip, dia. 23mm (.906")
- TUG424: Cone with lip, dia. 24mm (.945")
- TUG425: Cone with lip, dia. 25mm (.984")
- TUG426: Cone with lip, dia. 26mm (1.024")
- TUG427: Cone with lip, dia. 27mm (1.063")
- TUG428: Cone with lip, dia. 28mm (1.102")
- TUG429: Cone with lip, dia. 29mm (1.142")
- TUG430: Cone with lip, dia. 30mm (1.181")
- TUG431: Cone with lip, dia. 31mm (1.220")
- TUG432: Cone with lip, dia. 32mm (1.260")
- TUG433: Cone with lip, dia. 33mm (1.299")
- TUG434: Cone with lip, dia. 34mm (1.399")
- TUG435: Cone with lip, dia. 35mm (1.378")
- TUG436: Cone with lip, dia. 36mm (1.417")
- TUG437: Cone with lip, dia. 37mm (1.457")
- TUG438: Cone with lip, dia. 38mm (1.496")
- TUG439: Cone with lip, dia. 39mm (1.535")
- TUG440: Cone with lip, dia. 40mm (1.575")
- TUG441: Cone with lip, dia. 41mm (1.614")
- TUG442: Cone with lip, dia. 42mm (1.654")
- TUG443: Cone with lip, dia. 43mm (1.693")
- TUG444: Cone with lip, dia. 44mm (1.732")
- TUG445: Cone with lip, dia. 45mm (1.772")
- TUG446: Cone with lip, dia. 46mm (1.811")
- TUG447: Cone with lip, dia. 47mm (1.850")
- TUG448: Cone with lip, dia. 48mm (1.890")
- TUG449: Cone with lip, dia. 49mm (1.929")
- TUG450: Cone with lip, dia. 50mm (1.968")
- TUG451: Cone with lip, dia. 51mm (2.008")
- TUG452: Cone with lip, dia. 52mm (2.047")
- TUG453: Cone with lip, dia. 53mm (2.087")
- TUG454: Cone with lip, dia. 54mm (2.126")
- TUG455: Cone with lip, dia. 55mm (2.165")



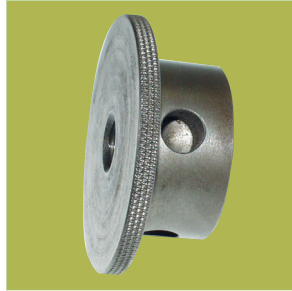
■ TUG600

Replacement threaded shaft for TUG-GUN™.



■ TUG603

Replacement wrench for TUG602, expansion nut.



■ TUG602

Replacement expansion nut for TUG-GUN™.



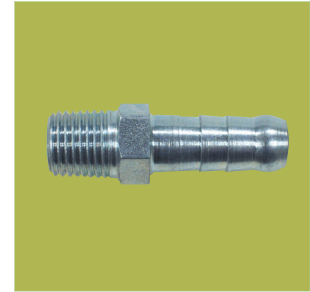
■ TUG601

Replacement keepers (set of 2).



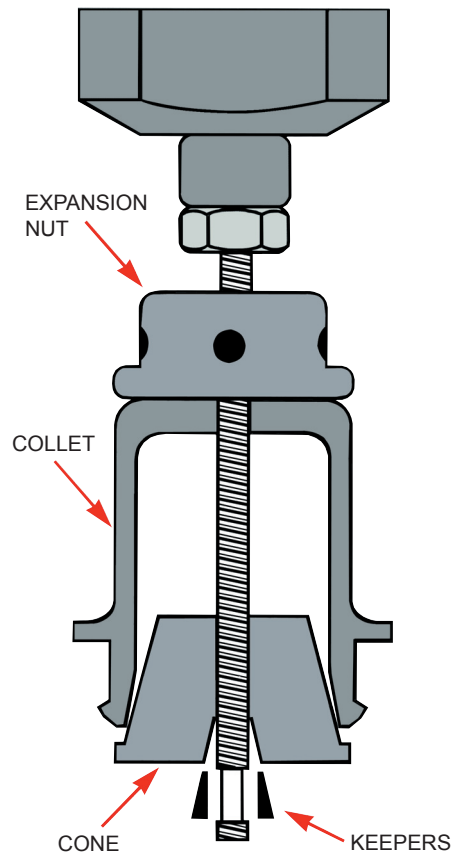
■ TUG604

Replacement Lock-nut.



■ TUG605

Replacement hose fitting.



Why the PCC™ Tool?

When resurfacing a diesel engine cylinder head with indirect injection, pre-combustion chambers counterbores also have to be machined at the right depth in order to:

1. Have the pre-combustion chambers sit slightly higher than the gasket plan of the cylinder head, to ensure that the said precombustion chambers are properly maintained in place by the cylinder head gasket. Most O.E.M.s recommend that the pre-combustion chambers jut out approximately 2 to 3/100mm (0.001") above the cylinder head gasket plan.
2. Give a perfectly stable seat to the pre-combustion chambers, knowing that, in the long run, the pre-combustion chamber housings lose their shape and do not hold the pre-combustion chambers properly.
3. Allow, under any circumstances, the replacement of a pre-combustion chamber while respecting the recommended depth.

It is not advisable to surface a cylinder head with the pre-combustion chambers left installed, for the following reasons:

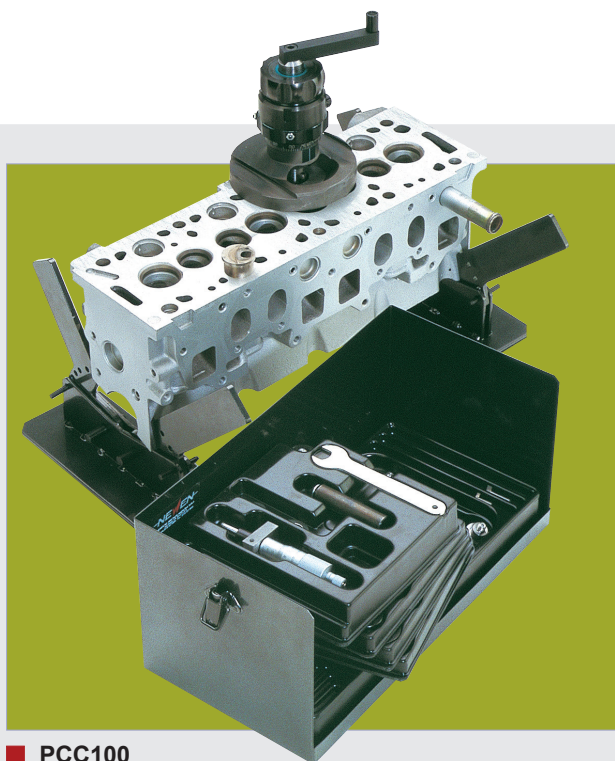
- The pre-combustion chambers will never be maintained properly since they will be flush with the cylinder head gasket plan and, consequently, will not receive any pressure from the gasket.
- The surfacing of the aluminum of a cylinder head and that of the alloy of the pre-combustion chambers require different cutters and different speeds. Moreover, it is extremely difficult to get a perfectly plan surface when grinding two different materials in one single operation.
- A pre-combustion chamber can come loose while the cylinder head is being resurfaced and can cause important damages to both cylinder head and the machine itself.
- A cylinder head surfaced with its pre-combustion chambers left installed can no longer receive original size replacement chambers.
- Surfacing pre-combustion chambers weakens these and multiplies the risk of rupture.

Among other things, it is important to extract the pre-combustion chambers to verify their press-fit in the cylinder head. In the event the pre-combustion chambers would not have the proper press-fit, it is recommended to widen their housings and to install oversize pre-combustion chambers instead.

■ PCC100

A counterboring tool to:

- Machine the housing of the precombustion chambers in diesel cylinder heads with indirect injection.
- Machine the housing width of pre-combustion chambers to install oversize pre-combustion chambers.

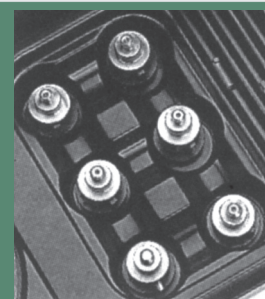


■ PCC100

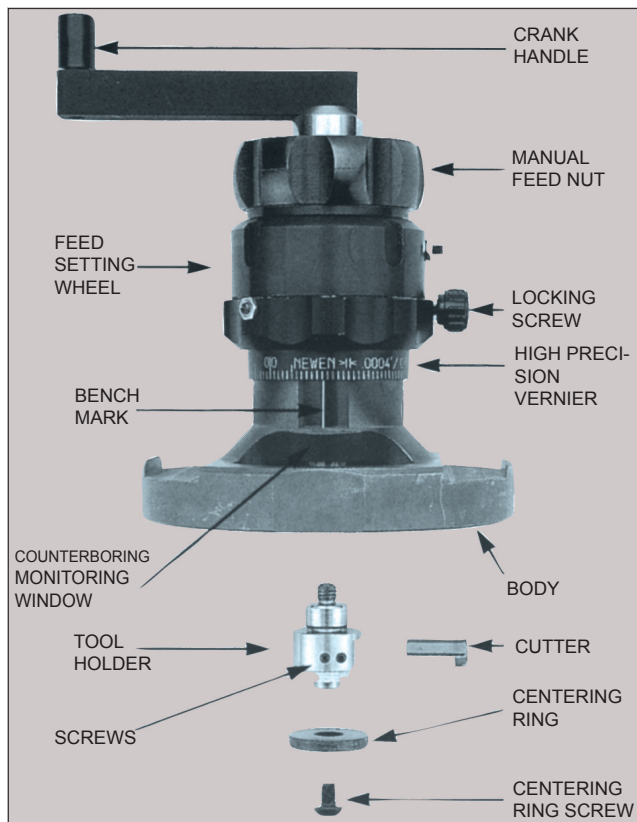
Universal counterboring tool includes:

- 1 Metal storage box with organizers
- 1 PCC301, precision micrometer with fixture
- 1 Box wrench
- 4 Allen wrenches
- 1 PCC™ tool
- 1 Crank handle
- 1 Lathe adaptor
- 1 PCC304, Tool holder
- 1 PCC3031, #1 cutter, capacity: 25-30mm (.984-1.181")
- 1 PCC3032, #2 cutter, capacity: 30-40mm (1.181-1.575")
- 1 PCC3033, #3 cutter, capacity: 40-50mm (1.575-1.968")
- 24 centering rings:
 - 24.80mm (.9764"), 25.35mm (.9980"),
 - 25.45mm (1.0020"), 25.90mm (1.0197"),
 - 26.70mm (1.0512"), 26.80mm (1.0551"),
 - 27.20mm (1.0709"), 27.40mm (1.0787"),
 - 27.60mm (1.0866"), 28.15mm (1.1083"),
 - 28.80mm (1.1339"), 28.90mm (1.1378"),
 - 29.65mm (1.1673"), 29.75mm (1.1713"),
 - 30.10mm (1.1850"), 30.30mm (1.1929"),
 - 30.40mm (1.1969"), 32.90mm (1.2953"),
 - 34.60mm (1.3622") - GM6.2& GM6.5L applications,
 - 34.65mm (1.3642"), 34.75mm (1.3681"),
 - 35.90mm (1.4134") - FORD/NAVISTAR 6.9/7.3L applications,
 - 40.00mm (1.5748") - semi finished centering rings, 2 rings included, to be used with lathe adaptor.

■ The bottom drawer of the PCC100 organizer can store several pre-set tool holders for your most common cylinder heads. Pre-set tool holders are very affordable and reduce set-up time significantly.



- SAVE TIME.
- KEEP JOB QUALITY CONSISTENT OVER TIME.
- MINIMIZE TOOLING WEAR.
- INCREASE PROFITABILITY.



■ **PCC304**
Centering head and cutter holder.

■ **PCC304L**
Centering head and cutter holder
(1" longer).

■ **PCC3031**
#1 cutter, capacity: 25mm-30mm
(1"-1.181").

■ **PCC3032**
#2 cutter, capacity: 30mm-40mm
(1.181"-1.574").

■ **PCC3033**
#3 cutter, capacity: 40mm-50mm
(1.574"-2").

■ **PCC3034**
#4 cutter for wide housings.
Same length as #2 cutter.

■ **PCC305**
Replacement centering ring,
dia. 24.8mm-40mm
(1"-1.574") - *Order as follow:*
PCC305-34.6.



■ **PCC302**
Universal cylinder head holder,
adjustable without tools, to position
any shape cylinder head with its
gasket side horizontal.



■ **PCC110**
Clamping table for PCC100
(NEW)



■ NWN-CTS

NEWEN® high performance carbide tip sharpener (available in 110V or 220V).

Includes:

- 1 NWN-DWN, high performance diamond wheel.
- 1 NWN-WC, diamond wheel center.
- 1 NWN-GP375, guiding pin, dia. 9.52mm (.375").
- 1 NWN-CTSLK, 2.5mm L-key.
- 1 NWN-SFTG, pair of safety glasses.
- 1 NWN-CTSMNL, user manual.

With NEWEN® high performance carbide tip sharpener:

- Save time
- Prolong carbide tips and tip holders life
- Minimize tooling wear
- Increase profitability

Interchangeable guiding pins for total compatibility with NEWEN®, Kwik-Way, Sunnen, Peterson, Berco, DCM, Winona, Sioux, KO Lee, Tobin Arp and Mira tool holders and ball heads.

GIVE YOUR EMPLOYEES THE TOOLS TO BE MORE PRODUCTIVE!



■ NWN-DWN

Replacement diamond wheel for NEWEN® sharp-



■ NWN-SFTG

Replacement safety



■ NWN-GP375

Guiding pin, dia. .375" (9.52mm)

■ NWN-GP385

Guiding pin, dia. .385" (9.78mm)

■ NWN-GP389

Guiding pin, dia. .389" (9.88mm)

■ NWN-GP390

Guiding pin, dia. .390" (9.90mm)

■ NWN-GP437

Guiding pin, dia. .437" (11.10mm)

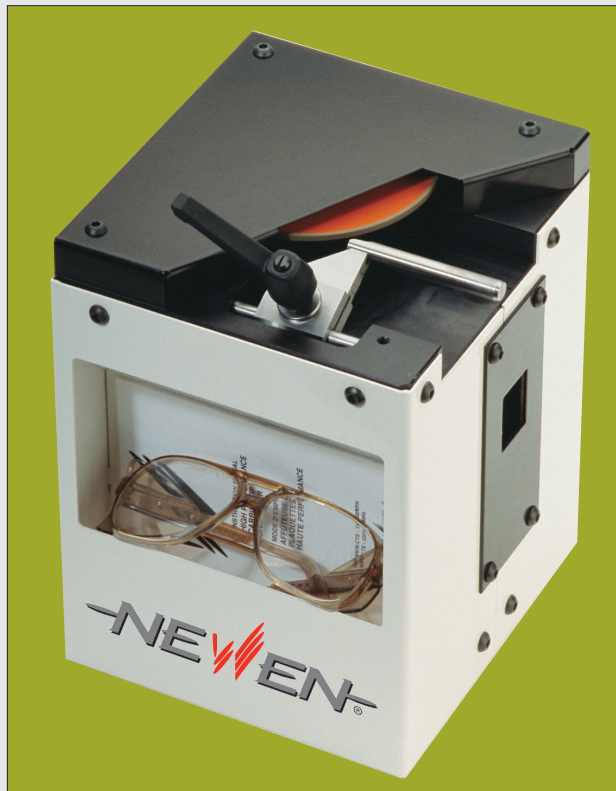
■ NWN-GPMRA

Guiding pin, dia. .375" (Mira)



■ NWN-DWS

Replacement diamond wheel for Serdi sharpener.

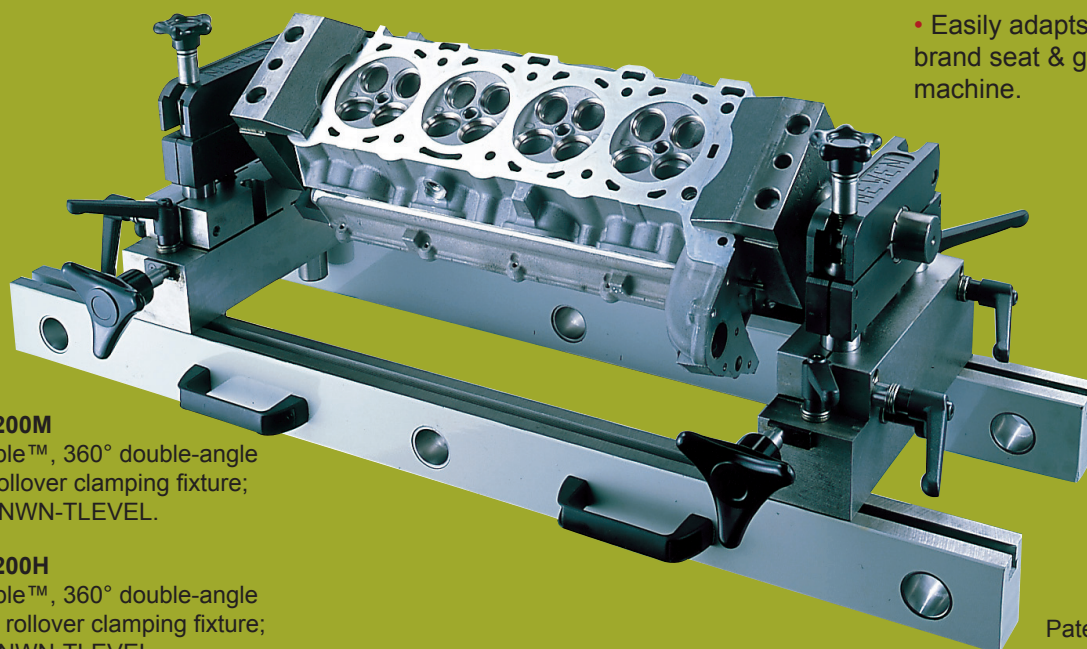


■ BALL HEADS



■ TOOL HOLDERS





- Easily adapts to any brand seat & guide machine.

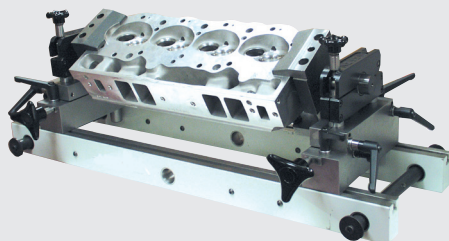
SGC200M

Palletizable™, 360° double-angle manual rolover clamping fixture; includes NWN-TLEVEL.

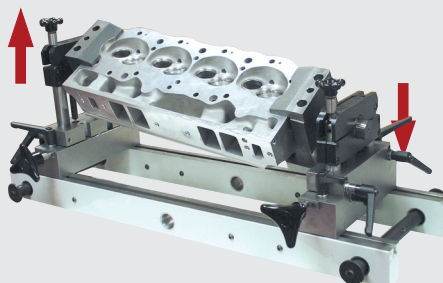
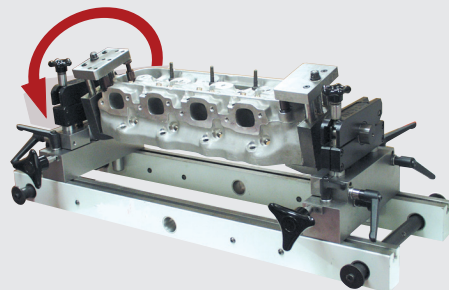
SGC200H

Palletizable™, 360° double-angle hydraulic rolover clamping fixture; includes NWN-TLEVEL.

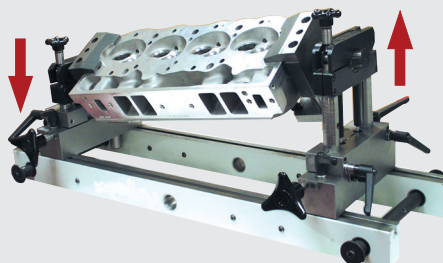
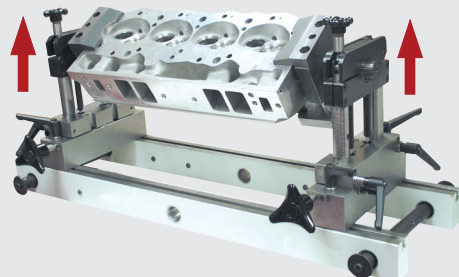
Patented

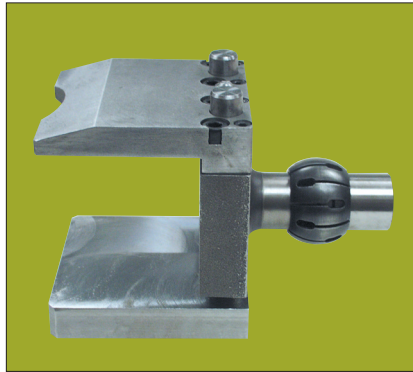


- NEWEN®'s most universal precision clamping system for automotive and light diesel cylinder heads. Allows quick positioning of most cylinder heads regardless of the valve guide angles. Also allows to simply raise cylinder heads to any desired level and to roll them over for various jobs.



- This patented system is quick, universal, very rigid, user friendly and does not put any stress on cylinder heads owing to its independant jaws and spherical collet clamping system. **A must for any seat & guide machine.**





■ **SGC425**

Extended reach jaw for SGC200M & SGC200H clamping systems.

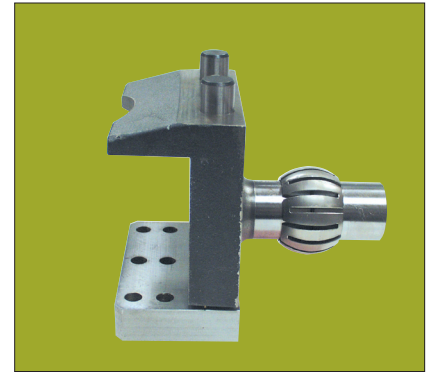
■ **SGC425-S**

Extended reach jaw for SGC200M-S clamping systems (for SUPER100™ machines).



■ **SGC416**

Set of two tall jaw columns & contact plates (8.58") for SGC200M & SGC200H clamping systems.



■ **SGC417**

Set of 2 additional clamping jaws for SGC200M & SGC200H clamping systems.

■ **SGC417-S**

Set of 2 additional clamping jaws for SGC200M-S clamping systems (for SUPER100™ machines).



■ **NWN-ACB1**

Set of 2 adjustable clamping pins for odd shaped cylinder heads. 40-50mm (1.57"-2.16")



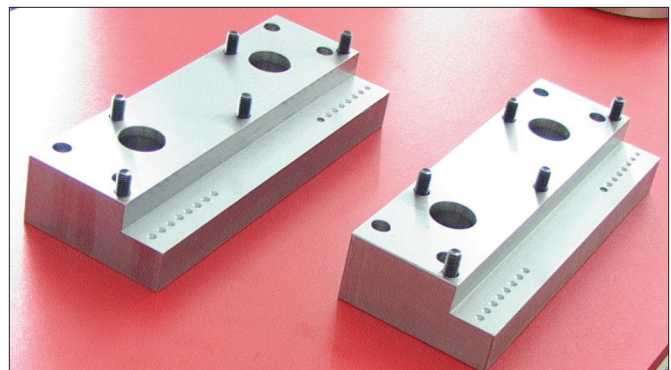
■ **NWN-ACB2**

Set of 2 adjustable clamping pins for odd shaped cylinder heads. 55-75mm (2.16"-2.95")



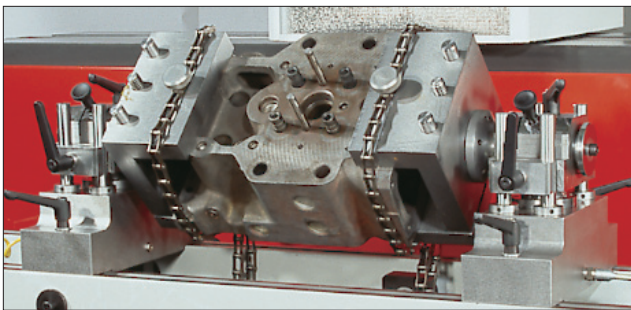
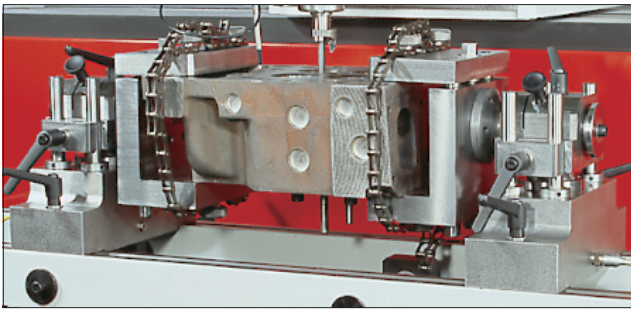
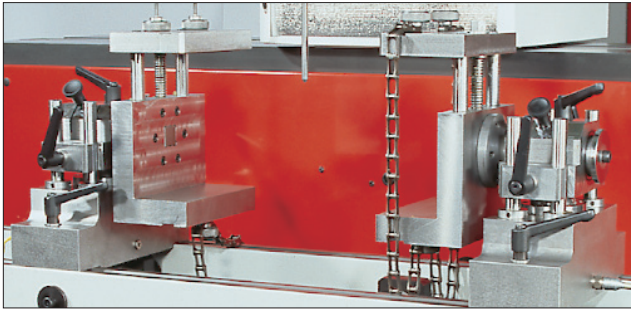
■ **NWN-ACB3**

Set of 2 adjustable clamping pins for odd shaped cylinder heads. 75-100mm (2.95"-3.93")



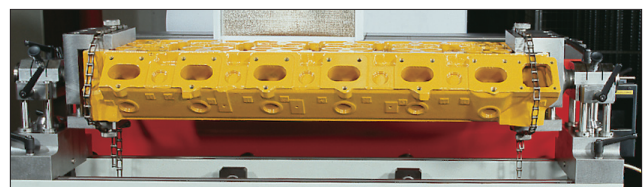
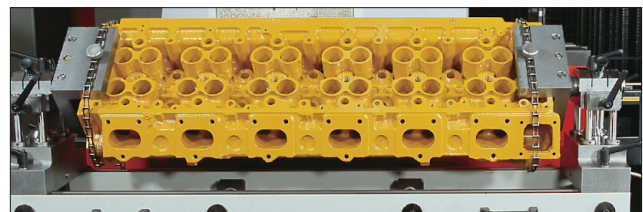
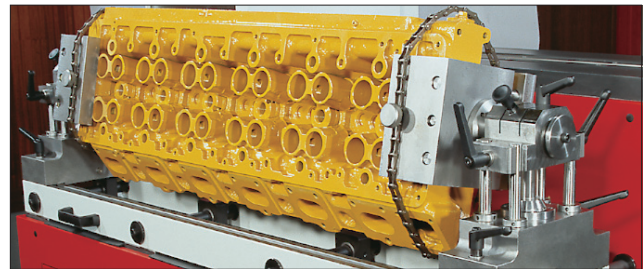
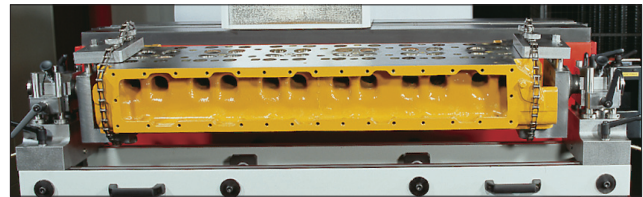
■ **SGC406**

Adapter plates for SGC200M (set of 2)
(For Milling Machines, others...)



■ SGC200PHD

Pneumatic assisted 360 degree heavy duty rollover clamping fixture for large diesel cylinder heads - **NON-STOCK**.



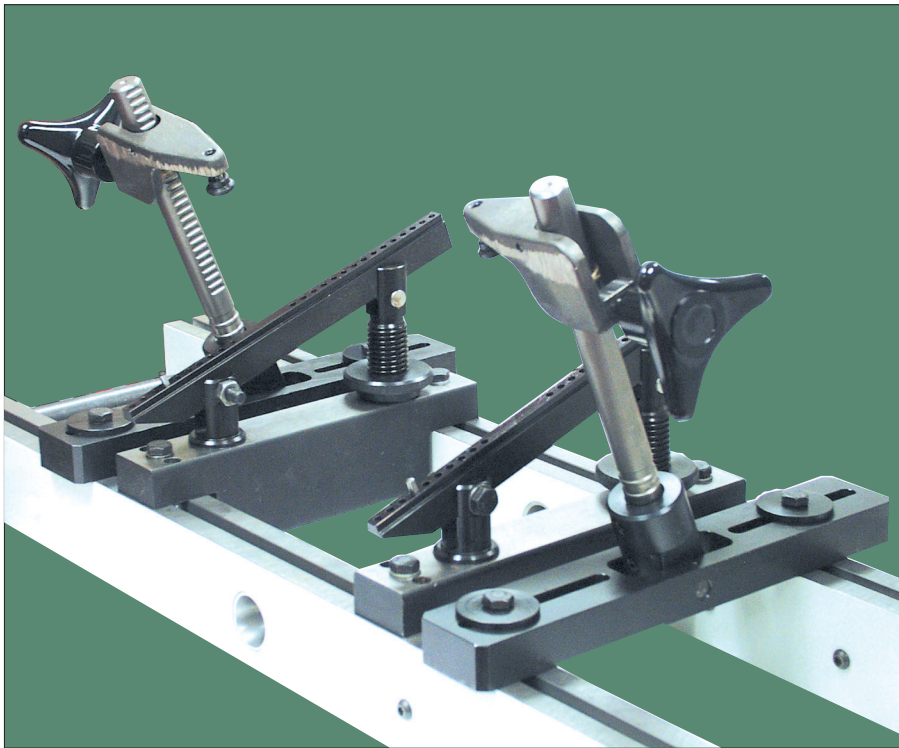
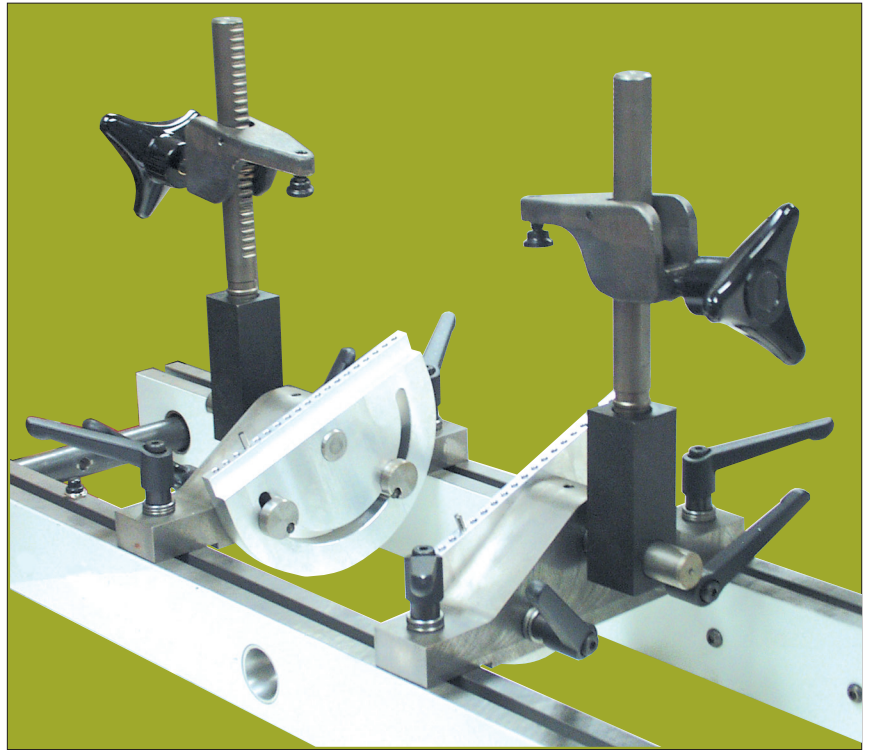
■ **SGC213**

Multi-angle swing cylinder head clamping fixture.

■ **SGC213-S**

Multi-angle swing cylinder head clamping fixture.

For SUPER100™ machines.



■ **SGC212**

Multi-angle cylinder head clamping fixture and set of 2 side clamps (SGC704 & SGC705 included).



■ **SGC704**

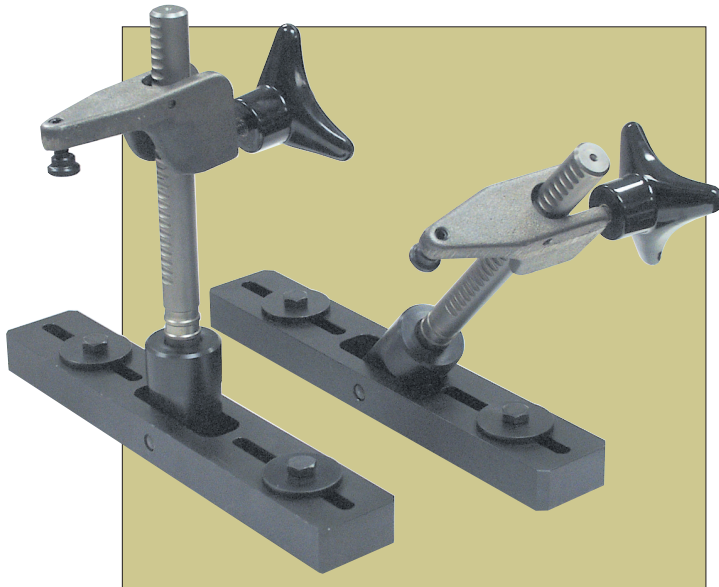
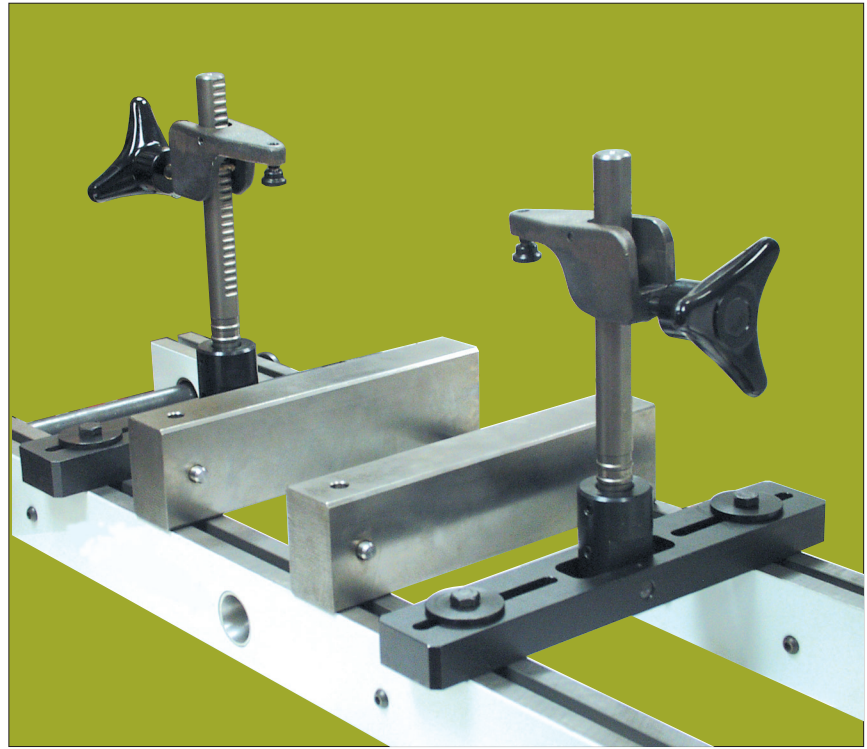
45mm height parallel for SGC212.

■ **SGC705**

60mm height parallel for SGC212.

■ SGC201

Side clamping fixture with set of 2 riser blocks.



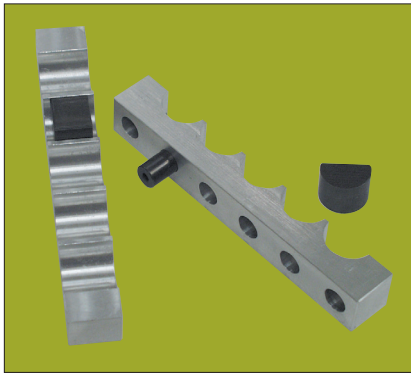
■ SGC407

Set of 2 side clamps.



■ SGC403

Set of 2 precision machined cast iron cylinder head positioning blocks (riser blocks).



■ SGC404

Set of 2 aluminum pads for clamping aluminum cylinder heads (commonly used with SGC212).



■ SGC405

Set of 2 long side clamp bars for SGC201, SGC212 or SGC213.



■ SGC721

Replacement parallel lock handle for SGC200M & SGC200H. Use SGC721-S for SGC200M-S.



■ SGC765

Replacement parallel lock handle for SGC213. Use SGC765-S for SGC213-S.



■ SGC766

Replacement side clamp.



■ SGC710

Replacement pivoting lock handle for SGC200M & SGC200M-S.

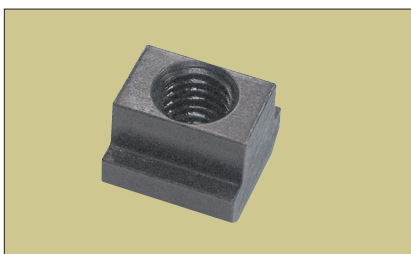


■ SGC769

Replacement side clamp lead screw for SGC699 (SGC200M, SGC200M-S & SGC200H) - comes as a set.

■ SGC770

Replacement side clamp lead screw for SGC416 (SGC200M & SGC200H) - comes as a set.



■ SGC616

Replacement T-nut.



■ **SM201**
Adjustable height stand.



■ **SM202**
Standard stand.



■ **SM206**
Stainless steel parts organizer.



■ **SM815**
Cam-bucket bore protector kit.



■ **SM207**
Self-locking tweezers.



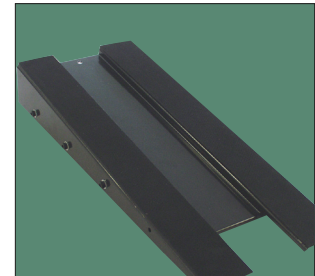
■ **SM208**
Telescopic magnet.



■ **SM241**
Drill adapter.



■ **SM220**
Universal fastening fixtures.



■ **SM210**
Compound angle wedge.



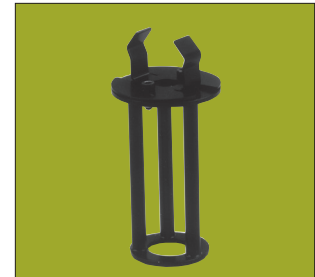
■ **SM251**
Pneumatic foot motorization.



■ **SM280**
Air drill kit.



■ **SM200**
Replacement chuck adapter.



■ **SM318-344**
Replacement gripper (18mm, 20mm, 22mm, 24mm, 26mm, 28mm, 32mm, 36mm, 40mm, 44mm).



■ **SM351**
Replacement vanes (set of 5) for pneumatic motor).



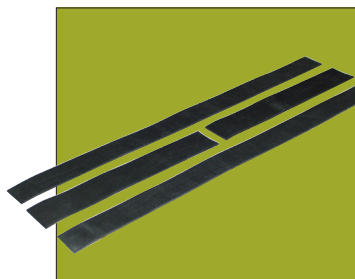
■ **SM370**
Replacement bladder.



■ **SM372**
Replacement in-line valve.



■ **SM371**
Replacement hand pump.



■ **SM373**
Replacement mat set.



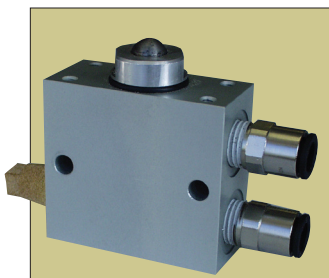
■ **SM374**
Replacement bull'd eye level.



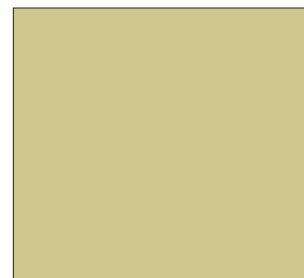
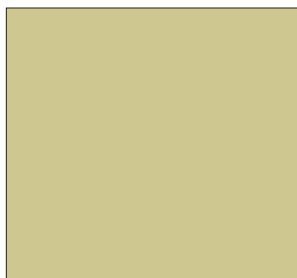
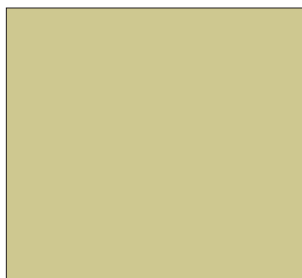
■ **SM375-25-44**
Replacement cam-bucket
bore protector, 25-44mm.



■ **SM473**
Gear drive assembly (axle,
bearings, tapered screw, half
axles, housing).



■ **SM350**
Foot pedal air distributor.





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