CYCLONIC DEBRIS REMOVAL

Save Your Machine Tools From Destruction

The CDR utilizes four hydro-cyclones to capture tiny hard sharp particles that stay suspended in a machine tool's coolant and are circulated through the machine whenever pumps are running. Hard sharps are produced by machining the hard oxide layer on cast/forged parts. These hard sharps repeatedly wash over way covers, destroy seals and attack the expensive critical components that keep the machine tool cutting accurately and efficiently.

STANDARD FEATURES

- Up to 80GPM flow rate
- Closed loop system allows for uninterrupted filtration
- Filtration down to 3 micron
- Standard 208/230V(480V Optional)
- PLC Display
- Low maintenance; quick and easy clean outs
- No disposable filter media
- Cleanable pre-filter
- Installation kit included
- 2 year parts warranty

Models
AT CDR80
AT CDR80 SD

BENEFITS OF CDR

- Prevents premature wear of machine tools
- Decreased wear on critical components (waycovers, ballscrews, liner guides etc.)
- Increased lifespan of tooling, toolholding and workholding
- Improved work piece finish and reliability
- Prevents unexpected shutdowns caused by dirty coolant
- Confidently run automated/unattended machining
- Overall cleaner working environment
- Greatly extends time between tank clean outs
- Typically pays for itself within 2 years

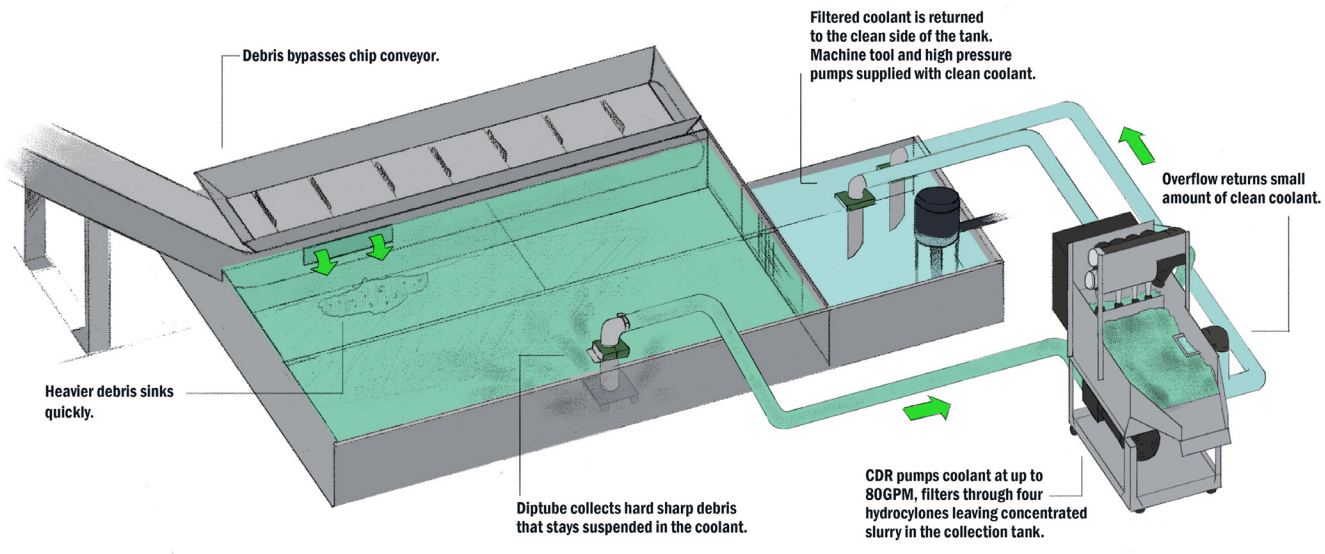
Demand Quality. Insist on MP Systems.

CDR Video Series

MP Systems | 90 Phoenix Ave, Enfield, CT 06082 | 877-689-1860 | mpteam@mp-systems.net | www.mp-systems.net

HOW CDR WORKS

The CDR utilizes four expertly engineered hydrocylcones that separate the hard sharp particles that typically stay suspended in coolant. The CDR's 3HP pump produces up to 80GPM flow rate in order to quickly capture harmful debris before it is recirculated through the machine.



The debris is separated out, and lands in the settling tank where it can easily be scraped. The clean coolant returns to the machine tool tank, supplying your pumps with fresh coolant and protecting your machine from wear.

RETURN ON INVESTMENT

Typically, a CDR will pay for itself within two years by preventing costly shutdowns for maintenance, repairs or rebuilds caused by hard sharp contaminated coolant.

Average costs of machine tool repairs and maintenance:

- COST OF REPLACING SET OF WAYCOVERS: **$5,000-$20,000**
- COST OF REPLACING BALL SCREW/LINEAR GUIDES: **Starting at $10,000+ per axis**
- TOOL HOLDERS: **$50-$100 each**
- CHUCK: **$4,000-$20,000**
- MACHINES RUN IN SEVERE ENVIRONMENTS TYPICALLY NEED A MAJOR REBUILD IN 5-10 YEARS: **$150,000**
- COOLANT COST IN & OUT: **$450-$1,050 per tank clean out**
- LABOR COST: **$100-$640 per tank clean out**

NOTES

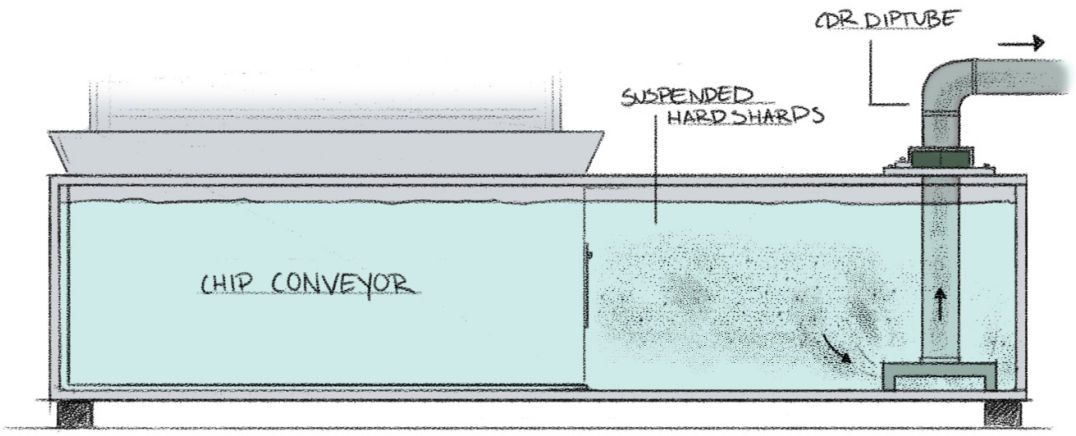
1. The CDR is designed to work with water based coolant only.
2. Please contact MP Systems to confirm application will work with CDR.
3. Severe Duty upgrade available.

FOOTPRINT	L X W X H	WEIGHT (LBS.)
AT CDR80	48 X 32 X 48	530

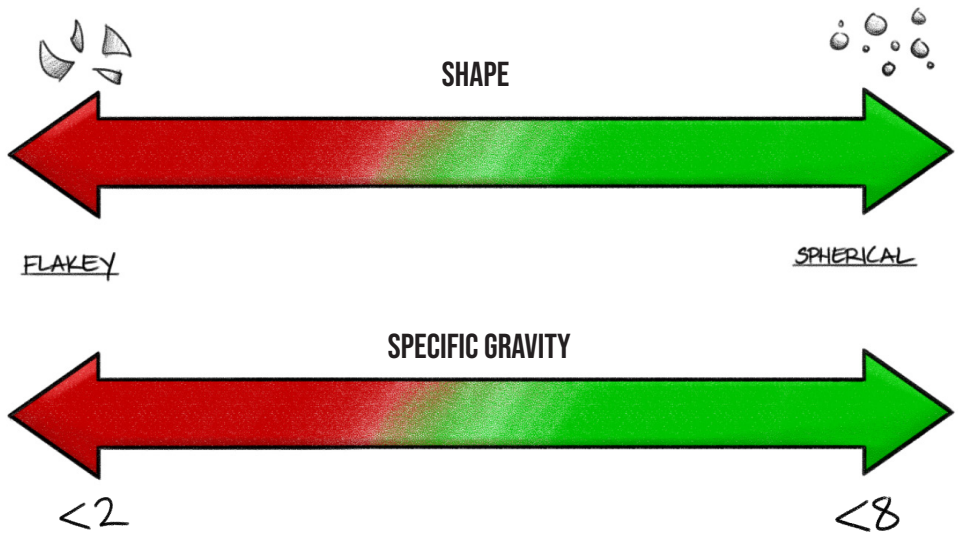
CDR SELECTION GUIDE

Cyclonic Debris Removal is designed for customers producing significant amounts of fine dust-like contaminants that stay suspended in coolant causing premature wear throughout their machines. These issues are most common in shops running multiple shifts machining high volumes of hot finished parts for automotive, agricultural, or heavy industrial applications. The CDR is most effective in filtering heavier materials such as cast iron and aluminum.

The CDR utilizes a dip tube to capture suspended contaminants before they can be recirculated back through the machine and wear expensive components.



IS CYCLONIC DEBRIS REMOVAL CORRECT FOR MY APPLICATION?



- If the debris has both the wrong shape and specific gravity, the CDR would not be the correct filtration solution.
- If the debris has the correct shape and specific gravity, the CDR would be the perfect filtration solution.
- If the debris has the wrong shape but correct specific gravity or vise versa, we would require a test sample to determine if the CDR is the correct filtration solution.

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THANK YOU FOR CONSIDERING MP SYSTEMS

For additional information regarding our pumps, chillers, filtration and more, please visit www.mp-systems.net by scanning the QR code below:

To stay updated with MP, make sure to follow us on social media!

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