

# FIELD MACHINING APPLICATION BY INDUSTRY

## MACTECH PORTABLE MACHINING SOLUTIONS

The following tables show recommended field machining services for specific industries and applications. The tables are intended to be a guide to assist you in selecting the field machining service for your job. The guide shows which machine tool is typically used, but does not limit the choice of service or tool. Mactech's application specialists will assist you in selecting the best service or machine tool for your job.

<b>Code Abbreviation Key</b>	
BB = Boring Bar	PL = Portable Lathe
BT = Beveling Tools	PM = Portable Mill
FF = Flange Facer	VM = Valve Machine
KM = Key Mill	

<b>Power Generation</b>	
<b>Application</b>	<b>Code</b>
Machine split line on turbine casting	PM
Seal faces on large boiler feed pump	FF/BB
Re-face manhole cover	FF
Stoker shaft repair	FF
Heat exchanger repair	FF/PL/PM
Nuclear fuel pool pads	PM
Turbine coupling boring	BB
Valve repair	VM
Machine rotor journal	PL
Mill steam dam keyway	PM
Re-face main steam inlet flange	FF
Machine upper and lower turbine facing plates	PM
Line bore wicket gate bushing	BB
Bore bearing assembly	BB
Bore BWR thermal sleeve	BB
Machine shroud	BB
Machine fan shaft	PL
Machine mount pads	PM
Mill turbine shaft radius slots	KM
Bevel boiler tube	BT

<b>Elevator</b>	
<b>Application</b>	<b>Code</b>
Pulley re-grooving	PL
Commutator ring turning	PL
Restore bearing journal	PL

<b>Construction</b>	
<b>Application</b>	<b>Code</b>
Line bore bucket and articulating joint	BB
Bore loader arm pin hole	BB
Line bore tilt-bed trailer hinge point	BB
Bore axle sleeve	BB
Bore bearing seat	BB
Machine crankshaft keyway	KM
Mill gearbox housing	PM
Line bore alignment pin holes	BB
Machine tapered shaft keyway	KM
Pipe beveling	BT

<b>Railway</b>	
<b>Application</b>	<b>Code</b>
Railway truck maintenance	BB/PL
Machine rail car for piggyback	PM
Machine rail joint surfaces	PM
Machine and repair out-of-round crank pin	PL
Bore engine block, cam, crank bearing	BB
Machine tank car flange cover	FF

<b>Bridge Building and Repair</b>	
<b>Application</b>	<b>Code</b>
Machine pulley journal	PL
Mill stress-relieved slot	PM
Bore pin hole	BB
Machine pad	PM



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<b>Petrochemical</b>	
<b>Application</b>	<b>Code</b>
Frame weldment restoration	BB/PM
Mill motor mounts and base plate	PM
Machine refining tower flange	FF
Mill heat exchanger tube bundle	PM
Mill heat exchanger face sealing area	PM
Machine flange	FF
Valve repair	VM
Machine valve bonnet	FF
RTJ for high pressure steam valves	FF

<b>Mining</b>	
<b>Application</b>	<b>Code</b>
Bore dragline housing	BB
Bore cable reel drum	BB
Machine kilns, tires and trunnions	PM
Bore kingpin bore	BB
Bore large diameter bearing hole and thrust ring	BB
Machine ball mill	PM
Machine large diameter bearing journal	PL
Machine pump shaft keyway	KM
Motor and pump repair	KM/PL

<b>Ship Building and Repair</b>	
<b>Application</b>	<b>Code</b>
Machine heat exchanger	FF/PM
Machine manway seal	FF
Machine anchor winch mount	PM
Bore rudder pin	BB
Bore stern tube	BB
Valve repair	VM
Machine crane base	FF/PM
Machine motor and generator pad	PM

<b>Steel Industry</b>	
<b>Application</b>	<b>Code</b>
Machine gearbox on rolling mill	BB/PM
Machine mill stand window	PM
Mill tie bars	PM
Machine bearing pocket	BB
Machine motor keyway	KM
Line bore gearbox	BB
Machine bag house fan shaft	PL

<b>Pulp and Paper</b>	
<b>Application</b>	<b>Code</b>
Machine journal drum seal	PL
Machine chlorine washer packing sleeve	BB
Machine thick stock washers	PL
Cut dryer drum journals	PL
Chipper and conveyor repair	KM
Machine paper machine sole plate	PM
Machine paper roll keyway	KM
Mill large drive motor mounts	PM

<b>Military</b>	
<b>Application</b>	<b>Code</b>
Machine navy vessel hatch cover	FF
Machine deck winch mounting base	PM
Machine elevator rail track	PM
Machine gun mount	FF/PM
Machine handhole and manway	FF
Machine sliding door and catapult way	PM
Machine turbine condenser flange	FF/PM

<b>Automotive</b>	
<b>Application</b>	<b>Code</b>
Machine press platen	BB/PM
Machine press die	PM
Restore press brake	PM
Press repair	BB/PM

<b>Wastewater</b>	
<b>Application</b>	<b>Code</b>
Machine sludge drum journal and drum seal	PL
Mill mounting base	PM
Machine clarifier	BB/PL
Machine aerator	PL
Machine centrifuge	BB/PL
Machine pump shaft keyway	KM
Machine valves and pumps	BB
Pipe beveling	BT