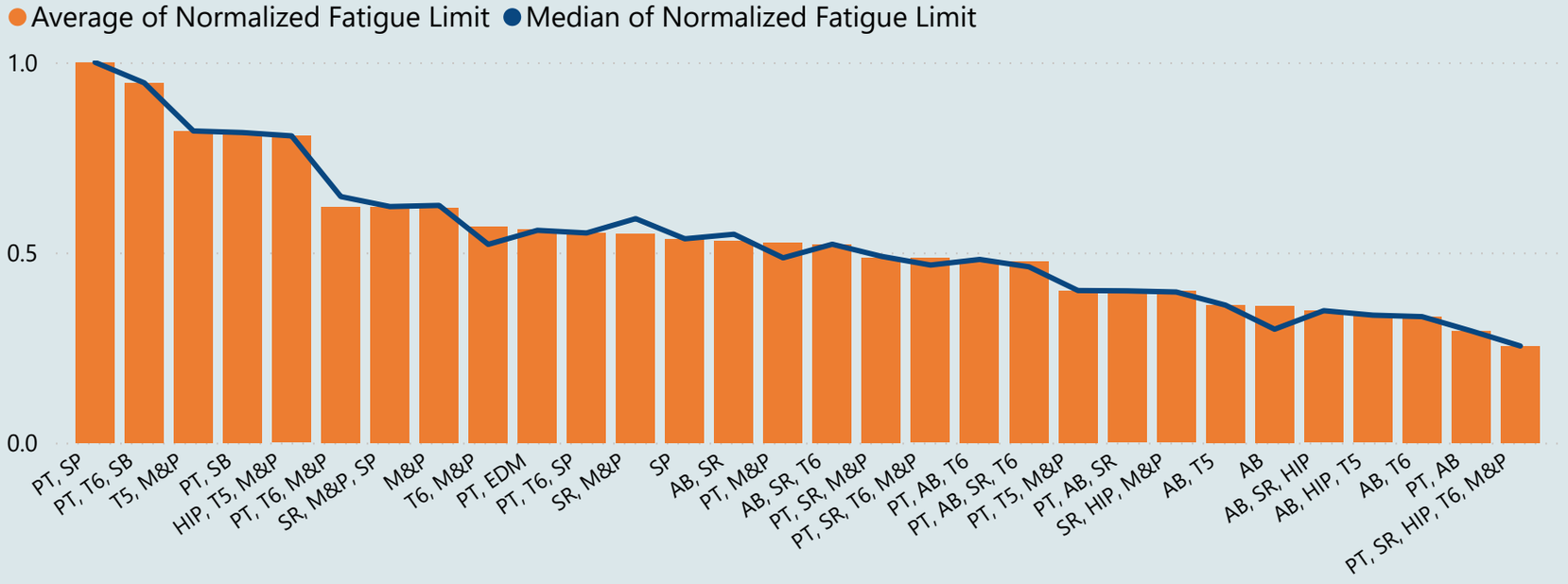
Fatigue Strength of AM Aluminum Alloy

Stress ratio: All

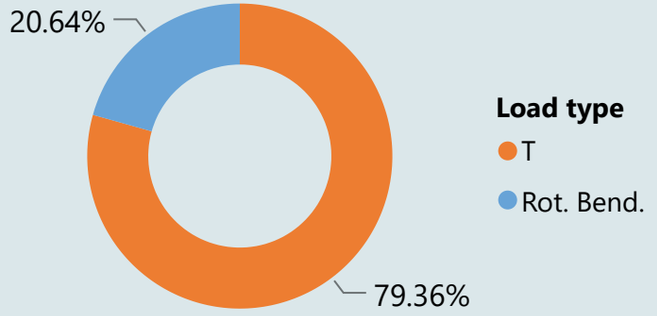
Platform: Multiple selections

Average and Median Values of Normalized Fatigue Limit by Postprocess Type

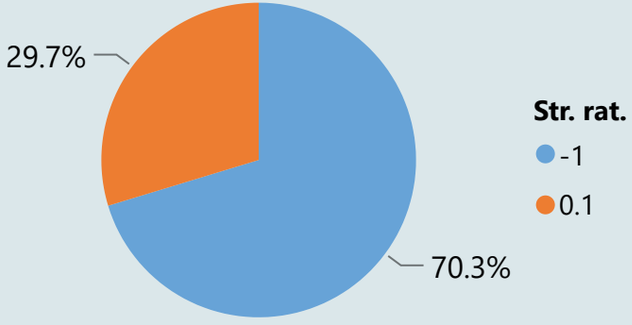


Fatigue Limit	0.54

Proportion of Load Types



Proportion of Stress Ratios



Heat Treatment	Quantity
no	80
SR	58
T6	28
SR, T6	10
SR, HIP	8
T5	6

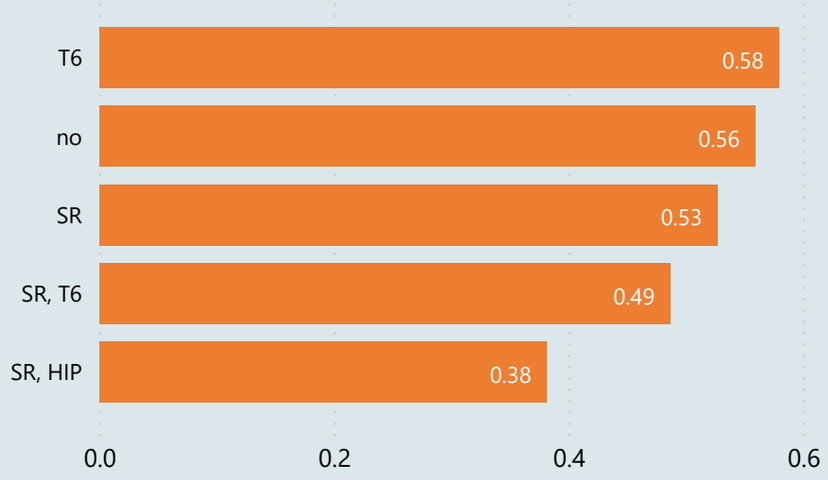
Postprocess	Quantity
M&P	116
AB	41
P	15
M&P, SP	11
EDM	4
SB	4

AM System	Quantity
Sharon Tuvia (1982), Ltd.	22
SLM 500	20
Renishaw AM400	19
EOS M400	18
Trumpf TrumaForm LF130	18

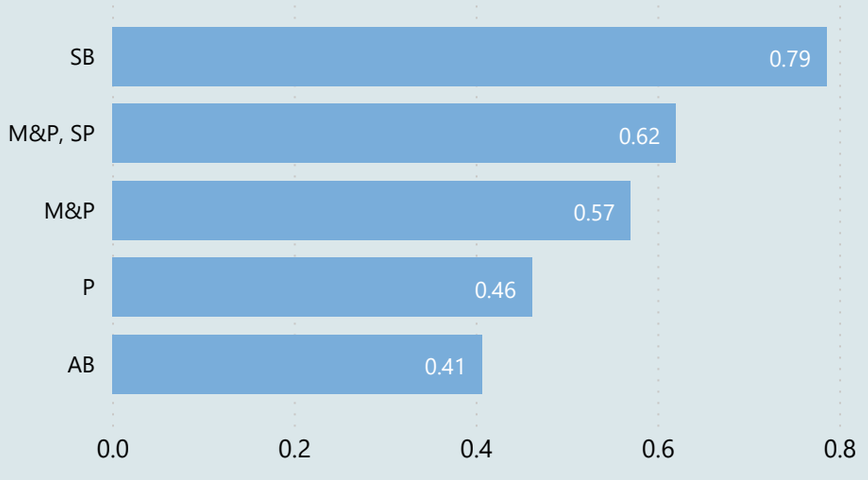
Fatigue Strength of AM Aluminum Alloy: Treatment

Fatigue Limit	0.54

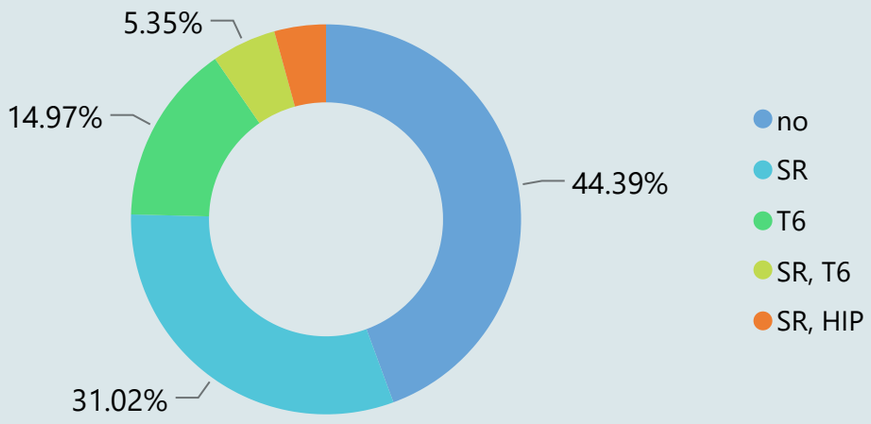
Normalized Fatigue Limit by Heat Treatment Type



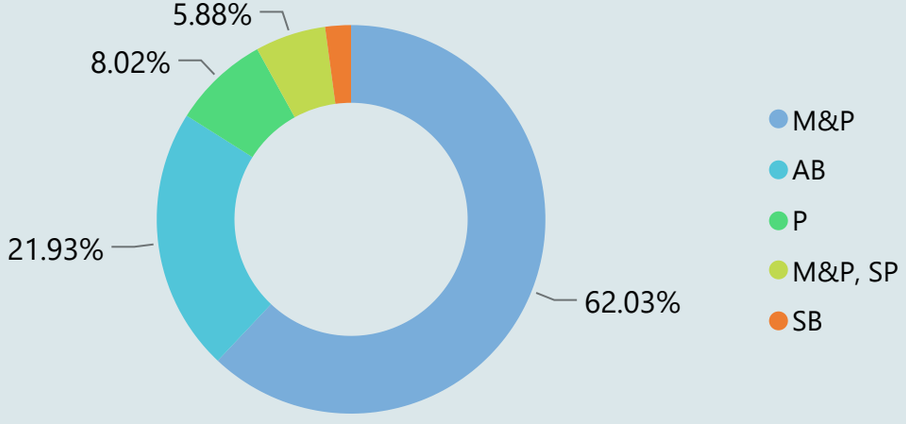
Normalized Fatigue Limit by Surface Treatment Type



Proportion of Heat Treatment Types



Proportion of Surface Treatment Types



Str. ratio
All

Load type
All

AM Syst...
All

Postproc...
All

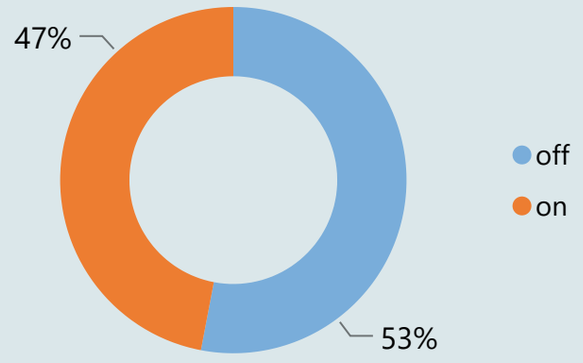
Platform
All

Build. dir.
All

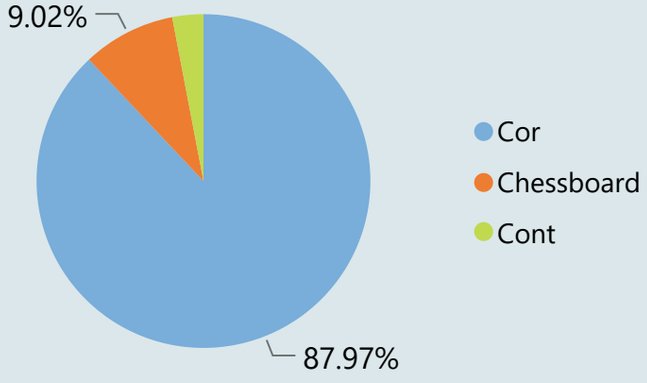
Fatigue Strength of AM Aluminum Alloy: Processing

Fatigue Limit	0.54

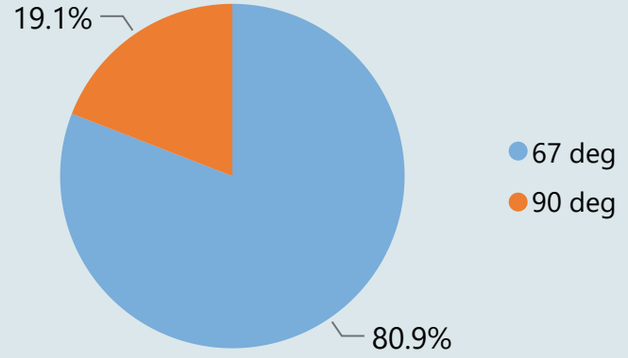
Proportion of Printing with Platform Switched Off/On



Proportion of Scan Strategies



Proportion of Scan Angles



Str. ratio: All

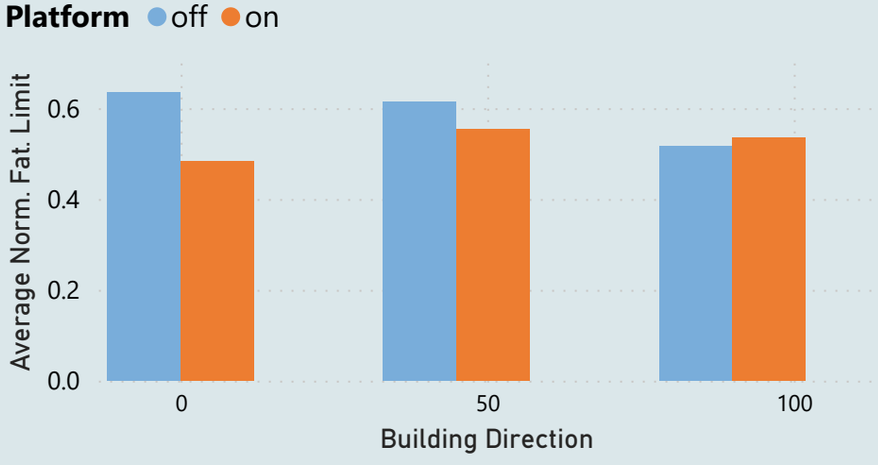
Load type: All

Process ...: All

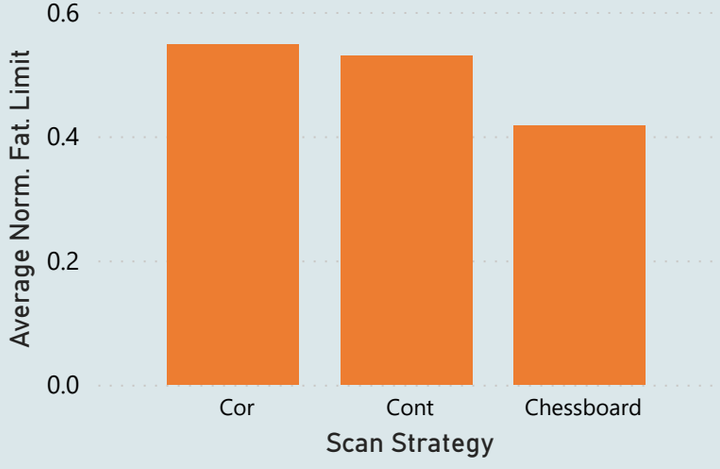
Platform: All

Build. dir.: All

Normalized Fatigue Limit by Building Direction



Normalized Fatigue Strength by Scan Strategy



Normalized Fatigue Limit by Scan Angle