

# Absorber Home works

RIKEN/RBRC

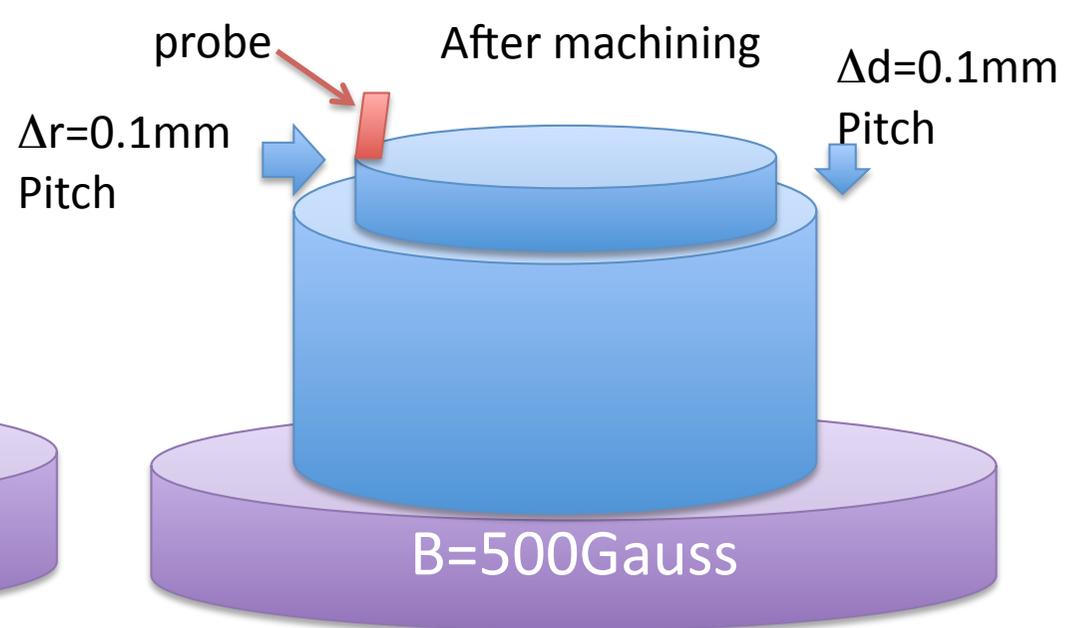
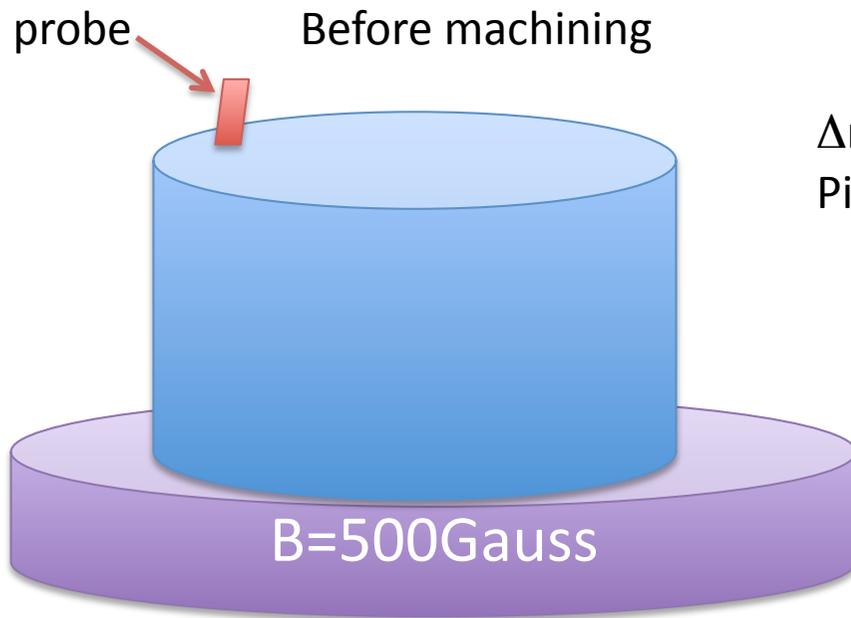
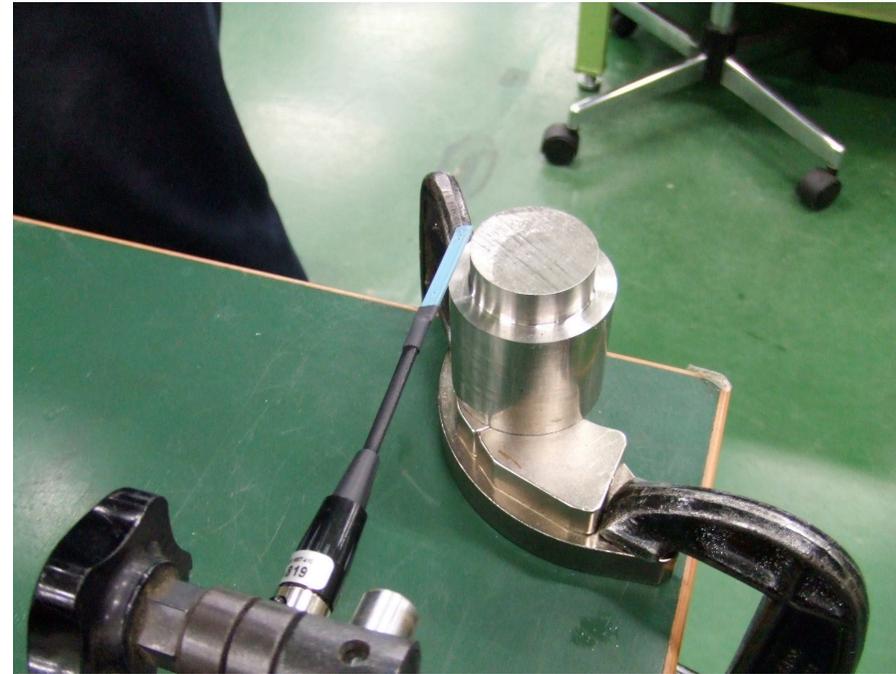
Itaru Nakagawa

# Machining



	Machine	Depth Pitch	Speed
Factory	Fraise	0.5 ~ 2 mm	40 ~ 50 m/ min
Test Bench	Lathe	1 mm	78 m/min.

# B-Field Measurement



# Measured Results

SUS303	w/o sample	w sample	SUS304	w/o sample	w/ samle
	131.7	132.7		130.3	152.2
	131.6	133.0	Before	130.3	152.3
Before	131.4	133.0		130.0	152.7
	131.6	133.0	Average	130.3	152.7
	132.9	131.6		131.3	151.0
Average	131.8	132.7		130.4	151.8
	132.2	131.0		130.3	151.4
After	130.8	131.0	After	130.2	150.4
		131.0		130.1	149.3
Average	131.5	131.0		130.0	150.5
				130.0	
			Average	130.3	150.7

# Material (SUS310) Supplier

Very likely no stock available. Need to produce. Production ~ 1 week. Waiting > 7 weeks.

	Metal Plate [mm]	Production	Quote	Delivery [week]
Daido Steel Co.	350 <sup>t</sup> mm (1body)	Forging (1layer)	\$252k	12 weeks
Nippon Yakin Co. via TIME	<b>50<sup>t</sup>x1200x4000 (4)</b> <b>45<sup>t</sup>x1200x3300(4)</b>	Plate (8layers)	\$144k	6 - 8 weeks
Shima Metals	<b>50<sup>t</sup>x1170x2340 (14)</b>	Plates (7layers)	\$157k (\$9.1/kg)	8 – 10 weeks
Fuji Kogyo (via Giken)	210 <sup>t</sup> x1120x1120 (4) 180 <sup>t</sup> x987x987 (4)	Forging (2layers)	\$320k	4 weeks
	70t	Plates	Next week	
NAS Trading Co.	<b>50<sup>t</sup>x1170x2340 (28)</b>	Plates		10 weeks

# Summary for Both Arms

Case-1	Company	Cost	Delivery
Material	Shima Kogyo	\$270k	8 – 10 weeks
Machining	Yagishita Giken	\$23.5k x 2?	4 weeks minmum
Shipping	Maruwn	\$4.65k	4 – 5 weeks
<b>Total</b>		<b>\$300+k</b>	<b>15 – 18 weeks</b>

Case-2	Company	Cost	Delivery
Material	Nippon Yakin	\$252k	8 - 10 weeks
Machining	TIME	\$45k	2 + 1 + 1 weeks
Shipping	Maruwn	\$4.65k	4 – 5 weeks
<b>Total</b>		<b>\$300k</b>	<b>15 + weeks</b>

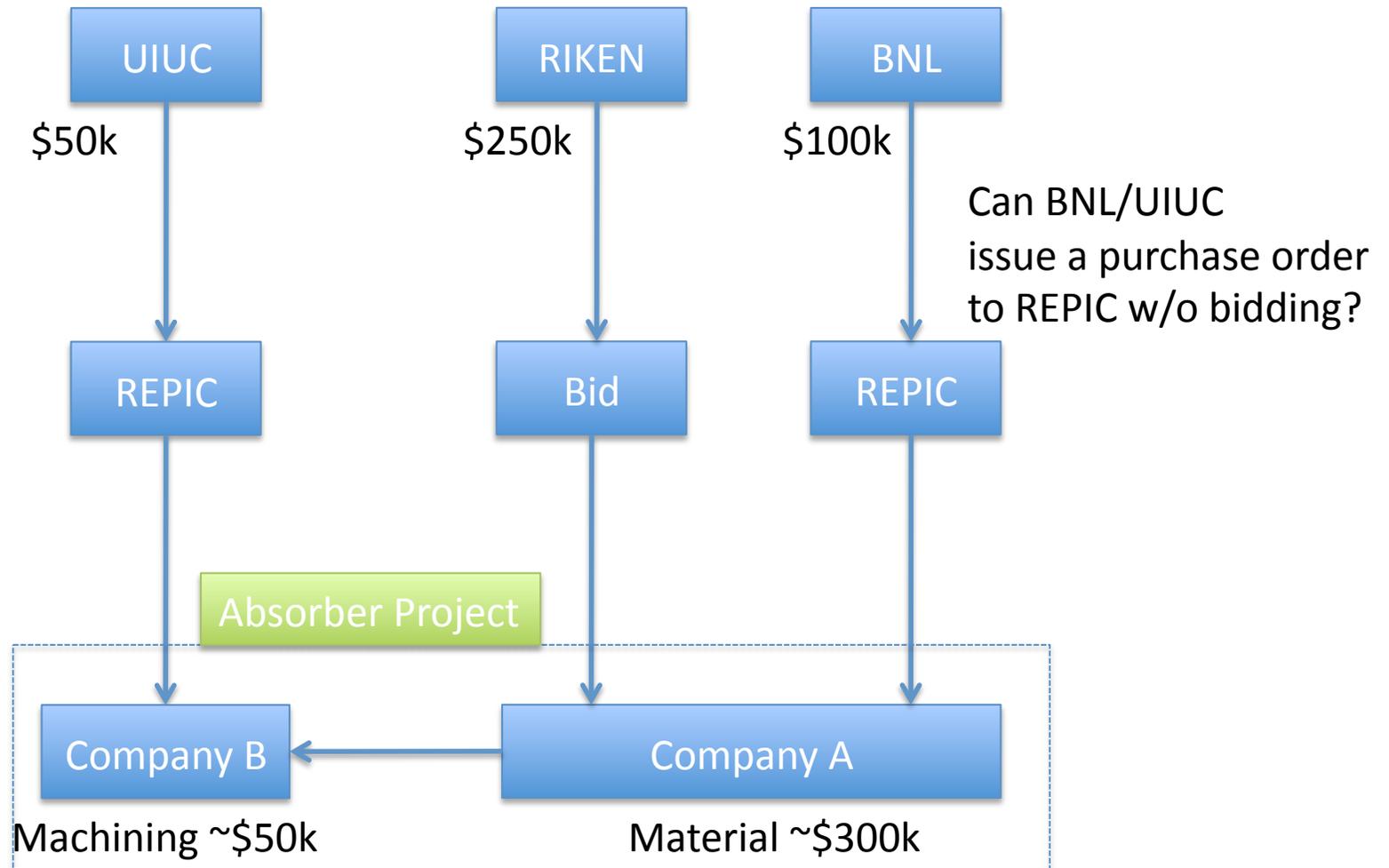
Yagishita has only 2 machine centers, while TIME has 5.

# SUS304

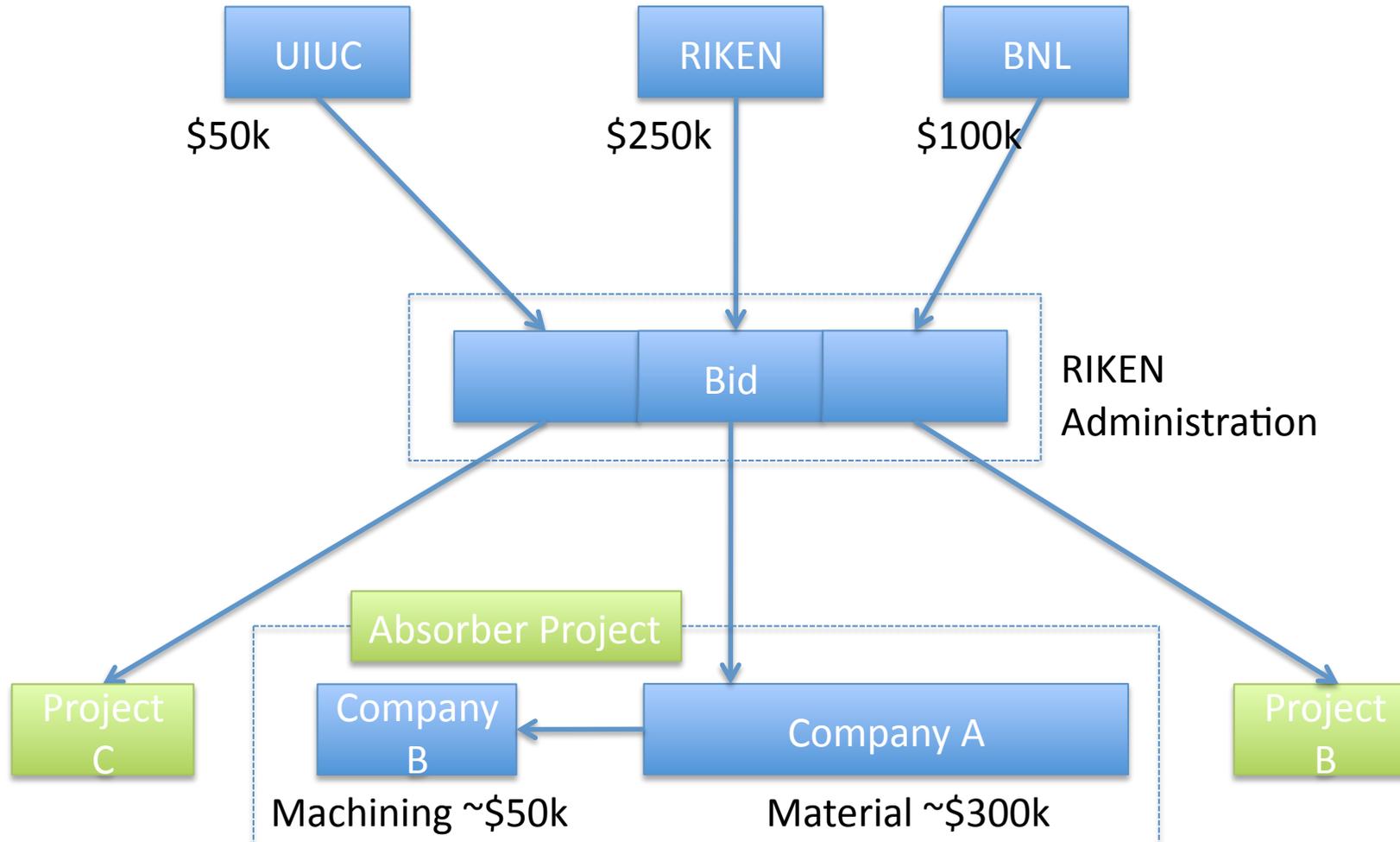
- 50<sup>t</sup>mm? Plates are in stock. Confirmed for one arm amount by Inoue Material. They can get plates within 2 weeks.

# Budget Transfer Issue

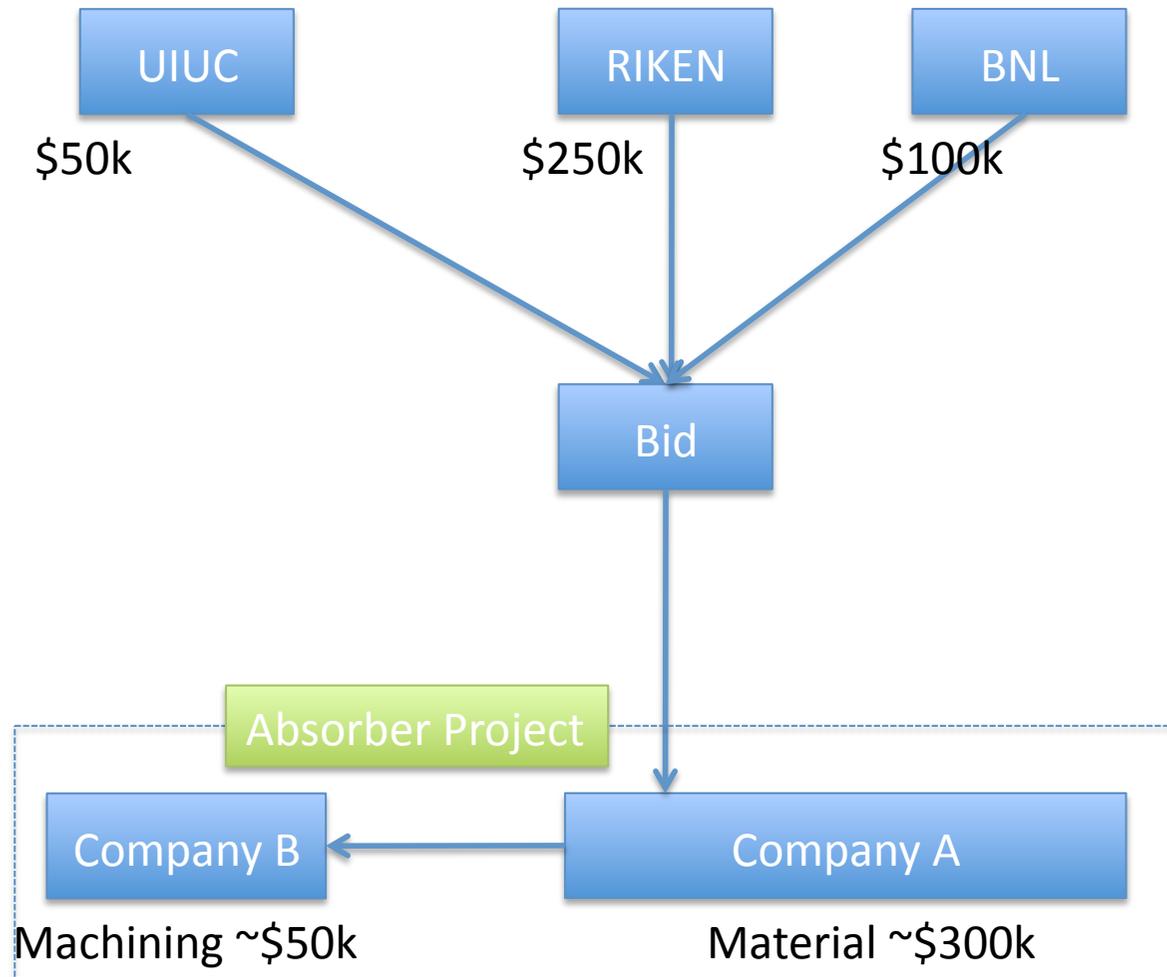
# Scenario 1



# Scenario 2



# Scenario 3



# Construction in US

# Scenario 1

