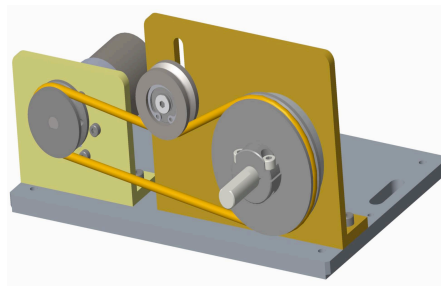


# WRS Industrial Robotics Category Assembly Challenge Trial Competition 2019

At the International Robot Exhibition 2019, Trial Competition 2019, a trial competition of the WRS 2020 Assembly Challenge, will be held.

- Competition place: South Hall 4, Tokyo Big Sight, Japan  
 Competition period: December 18-21, 2019  
 Competition contents: Product assembly only  
 Participating teams: 4 teams from WRS 2018 teams
- Team JAKS
  - Team FA.COM Robotics
  - Team O2AS
  - Team Garage Robotics (formerly 3up technology)

In this competition, we intend to try some new elements that will be included in the WRS 2020 and make the competition in 2020 even better in terms of rule and operation. The rules and regulations for the trial competition 2019 are disclosed only to the participating teams and are not open to the public. However, this trial competition basically follows the rules and regulations of the WRS 2020. [https://worldrobotsummit.org/wrs2020/challenge/download/Rules/DetailedRules\\_Assembly\\_EN.pdf](https://worldrobotsummit.org/wrs2020/challenge/download/Rules/DetailedRules_Assembly_EN.pdf)



**Fig. 1:** An image of the model product “belt drive unit”

The competition schedule at a glance and detailed schedule on each day are shown below. Live commentary will be provided at the main stage. Please come visit us.

[Competition schedule –at a glance–]

	Dec. 18 (Wed.)	Dec. 19 (Thu.)	Dec. 20 (Fri.)	Dec. 21 (Sat.)
	Team setup	Day 1	Day 2	Day 3
<b>a.m.</b>	Safety inspection, Adjustment	Public Practice	Assembly (normal prod., 2 <sup>nd</sup> rd.)	Exhibition, Technical exchanges
<b>p.m.</b>	Safety inspection, Adjustment	Assembly (normal prod., 1 <sup>st</sup> rd.)	Assembly (incl. surprise prod.)	Opinion exchanges

[Competition schedule –Day 1–]

Competition Time	JAKS	FA.COM Robotics	O2AS	Garage Robotics
10:30~11:00	Public practice			
11:10~11:40		Public practice		
11:50~12:20			Public practice	
12:30~13:00				Public practice
13:00~14:00	(Lunch break)			
14:00~14:30	Assembly (normal prod., 1 <sup>st</sup> rd.)			
14:40~15:10		Assembly (normal prod., 1 <sup>st</sup> rd.)		
15:20~15:50			Assembly (normal prod., 1 <sup>st</sup> rd.)	
16:00~16:30				Assembly (normal prod., 1 <sup>st</sup> rd.)

[Competition schedule –Day 2–]

Competition Time	JAKS	FA.COM Robotics	O2AS	Garage Robotics
10:00~10:30	Assembly (normal prod., 2 <sup>nd</sup> rd.)			
10:40~11:10		Assembly (normal prod., 2 <sup>nd</sup> rd.)		
11:20~11:50			Assembly (normal prod., 2 <sup>nd</sup> rd.)	
12:00~12:30				Assembly (normal prod., 2 <sup>nd</sup> rd.)
12:30~12:50	(Lunch break)			
12:50~13:45	Assembly (incl. surprise prod.)			
13:55~14:50		Assembly (incl. surprise prod.)		
15:00~15:55			Assembly (incl. surprise prod.)	
16:05~17:00				Assembly (incl. surprise prod.)

- ※ In the morning competitions, teams will find a product which is already assembled and placed on the workbench as the initial condition. They will start the task from carrying out this assembled product and bringing in the parts set arranged in a parts tray.
- ※ In the afternoon competitions, each team will assemble both a normal product and a product with different specifications from the normal, which is called “surprise product”.

[Competition schedule –Day 3–]

	JAKS	FA.COM Robotics	O2AS	Garage Robotics
10:15~10:40	Exhibition			
10:50~11:15		Exhibition		
11:25~11:50			Exhibition	
12:00~12:25				Exhibition
12:35~13:00	Presentation by overseas team			
13:00~16:00	Opinion exchanges (another room)			
16:00~17:00	Spare time slot			

- ※ As the presentation by overseas team, Team SDU Robotics (WRS 2018 winning team) is scheduled to give a video presentation.
- ※ Please understand that the opinion exchanges will be held exclusively for the trial competition participants, and will be not open to the general public.