Mechanical indexer model selection specifications check sheet
Table (direct/indirect) drive

Desired model   : ☐ ZRS
Output shaft shape   : ☐ S (straight shaft)   ☐ F (flange shaft)
Housing material   : ☐ Fc
Installation orientation   : ☐ 1   ☐ 2   ☐ 3 ☐ 4   ☐ 5 ☐ 6

■ Operating conditions

1. Indexing No.: n=

2. For table indirect drive

   • Output axis deceleration ratio: $io=\dfrac{D_1}{D_2}=$ • Number of stations: $ns=\dfrac{n}{io}=$

3. Total allocation angle (θt) = allocation angle (θh) × Number of stops (z)

        ° =   ° ×

4. Cycle time

☐ Continuous drive	Unit Cycle time (t_0) = indexing time (t_1) + stop time (t_2) sec = sec + sec
☐ For intermittent drive	Machine unit Cycle time (tm) = Cycle time (t0) + Stop time (ts) sec = sec + sec * Time when the input shaft stopped due to ts:C/B, etc.

5. Input axis rotation speed: N

$$N= \frac{60}{\text{Unit cycle time } (t_0) \times \text{No. of stops } (z)} = \qquad \text{rpm}$$

6. Cam curve: ☐ MS (standard) ☐ Other (   )

7. Input axis drive method

☐ Direct connection to worm [HO, etc., mounting]
☐ Direct connection to worm [Mounted with coupling]
☐ Worm indirect [chain belt drive]
☐ Gear motor

8. Expected service life time

     h

If not specified, it will be calculated as 10000h.

ZRS

Technical data

Option

Safety precautions

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Company		Name	
Department / Division			
TEL		FAX	

CKD
To (   )

[Option]

☐ Worm reducer: HO Series

・C/B☐ Yes ☐No　　・ Reduction ratio 1/　　　　・ Mounting direction

☐ Overload protection device: TSF/TGX ☐ — ☐

■ Load conditions

1. Table

・ Diameter : $Dt = \varnothing$ [____] mm

・ Plate thickness : $ht =$ [____] mm

・ Material : ☐ Steel ☐ Aℓ

☐ Other (material name [____]　material density [____])

2. Workpiece/jig

・ Number of workpieces : $nw =$ [____] pcs.

・ Total weight of workpiece : $m_2 =$ [____] $\times nw =$ [____] kg

・ Number of jigs : $np =$ [____] pcs

・ Total jig weight : $m_3 =$ [____] $\times np =$ [____] kg

・ Workpiece/jig mounting center diameter: Dp=P.C.D [____] mm

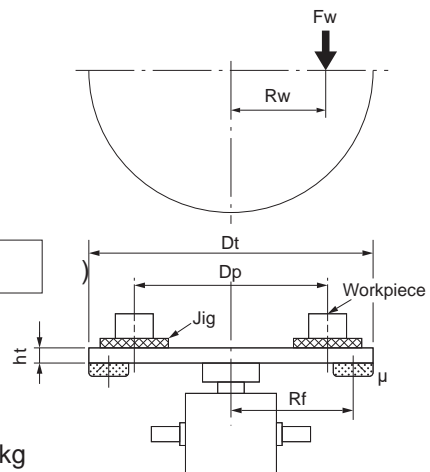### 3. Table bottom instruction (Yes / No)

・ Friction radius : $Rf =$ [____] mm

・ Coefficient of friction : $\mu =$ [____]

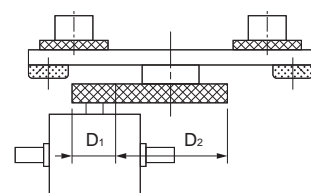### 4. External load during indexing (output shaft operating)

・ External load : $Fw =$ [____] N or [____] kgf

・ Action radius : $Rw=$ [____] mm

■ If the conditions are not listed above, contact your CKD Sales representative.

■ Direct drive

■ Indirect drive

	Index side gear	Table side gear
P.C.D	$D_1=$	$D_2=$
Tooth width		

ZRS

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Mechanical indexer model selection specifications check sheet
Conveyor drive

Desired model   : ☐ZRS

Output shaft shape   : ☐S (straight shaft)   ☐F (flange shaft)

Housing material   : ☐Fc

Installation orientation   : ☐1 ☐2 ☐3 ☐4 ☐5 ☐6

■Operating conditions

1. Indexing No.: n= ☐

2. Output shaft deceleration ratio: $io = \dfrac{Zd}{Zc} =$ ☐

3. Total allocation angle (θt) = allocation angle (θh) × Number of stops (z)

    ☐ ° = ☐ ° × ☐

4. Cycle time

☐Continuous drive	**Unit** Cycle time (t_0) = indexing time (t_1) + stop time (t_2) ☐ sec = ☐ sec + ☐ sec
☐For intermittent drive	**Machine unit** Cycle time (tm) = Cycle time (t_0) + Stop time (ts) ☐ sec = ☐ sec + ☐ sec * Time when the input shaft stopped due to ts:C/B, etc.

5. Input axis rotation speed: N

$$N = \frac{60}{\text{Unit cycle time } (t_0) \times \text{No. of stops } (z)} = \boxed{} \text{ rpm}$$

6. Cam curve: ☐ MS (standard) ☐ Other ( )

7. Input axis drive method
    ☐ Direct connection to worm   [HO, etc., mounting]
    ☐ Direct connection to worm   [Mounted with coupling]
    ☐ Worm indirect [chain belt drive]
    ☐ Gear motor

8. Expected service life time

    ☐ h

If not specified, it will be calculated as 10000h.

ZRS

Technical data

Option

Safety precautions

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	CKD To ( )	Company		Name	
		Department / Division			
		TEL		FAX	

[Option]

☐ Worm reducer: HO Series

・C/B ☐ Yes ☐ No ・Reduction ratio 1/ ⬚ ・Mounting direction ⬚

☐ Overload protection device: TSF/TGX ⬚ — ⬚

■ Load conditions

1. Conveyor feed pitch: St = ⬚ mm
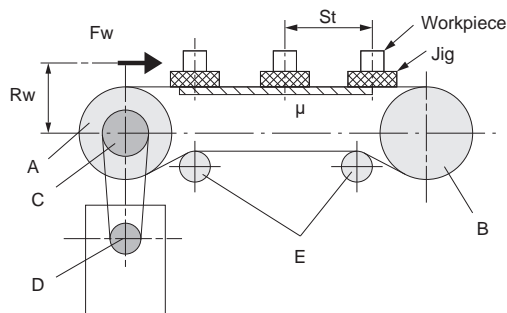
2. Chain Size# ⬚

   ・Chain model No. ⬚

   ・Chain pitch : Sch = ⬚ mm

   ・Weight per unit : mch = ⬚

3. Number of chains: NB = ⬚ Section

4. Sprocket

	A (drive)	B	C	D	E
Number of teeth (Z)					
Pitch Diameter (D)					
Tooth width (h)					
number per bar	1	1			

5. Workpiece/jig

・Number of workpieces: nw = ⬚ individual ・ Total weight of workpieces: m_2 = ⬚ × nw = ⬚ kg

・Number of jigs: np = ⬚ pcs ・ Total weight of jigs: m_3 = ⬚ × np = ⬚ kg

・Coefficient of friction: μ = ⬚

6. External load during indexing (output shaft operating)

・External load: Fw = ⬚ N or ⬚ kgf ・ Action radius: Rw = ⬚ mm

■ If the conditions are not listed above, contact your CKD Sales representative.