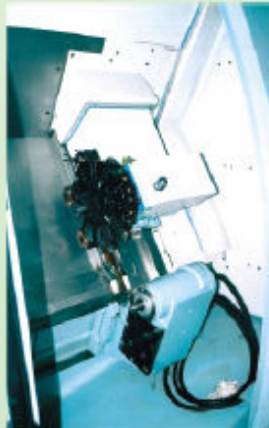


# TECHNICAL SPECIFICATION

## RICHAKRA S T-SERIES A



Note : Above specification are for information only and subject to change without any notice.

\* Speeds corresponding to Min / Min const power/ Max const power / Max sped that order.

\*\* With FANUC controls FANUC  $\mu$ P only.

MODEL	UNIT	TL/TC-350	TL/TC-130
<b>CAPACITY</b>			
MAX. CHUCK SIZE	MM	450 (300)	165
STANDARD CHUCK	MM	350 (250)	130
MAX. F SWING OVER SADDLE	MM	350	135
MAX. F SWING OVER RED	MM	480	300
MAX. TURNING F (CHUCKING)	MM	450	175
MAX. TURNING F (BETN CENTERS)	MM	340	135 / (80-Linear tooling)
MAX. TURNING LENGTH	MM	400 (800/1250)	400
ADMIT BETWEEN CENTERS	MM	400 (800/1250)	400
<b>SPINDLE</b>			
RUN OUT	MM		$\leq 0.005$ $\leq 0.005$
BEARING TYPE		PRECISION ANGULAR CONTACT PRELOADED	
SPINDLE NOSE		A2-8 (A2-6)	A2-5
THOUGH BORE DIAMETER	MM	87 (65)	40
MAX. BAR FEED DIAMETER	MM	70 (45)	32
MAX. SPEED GREASE / LUB SPINDLE	RPM	4800 (6000)	8000
MAX. SPEED OIL / MIST LUB SPINDLE	RPM	7500 (9300)	11000
SPEED RANGES STD.	RPM	0/550/1700/3000	50/800/2000/2500
OPTION - 1	RPM	0/800/2400/4800**	75/1500/3800/4500
OPTION - 2	RPM	0/1000/3000/6000**	100/2000/4500/6000
OPTION - 3	RPM	0/300/3000/3000**	25/500/1200/1500
OPTION - 4	RPM	0/500/5000/5000**	25/500/4000/4000**
OPTION - 5	RPM	0/800/8000/8000**	50/800/7000/7000**
DRIVE		POLYV - BELT	
POWER : CONTINUOUS	KW	15 (7/11/18)	3.7 (5.6)
: SHORT TIME	KW	18 (9.5/15/22)	5 (7)
<b>TAIL STOCK (OPTIONAL)</b>			
QUILL BORE TAPER		M1-5 integral spindle	M1-3
QUILL STROKE (HYDRAULIC)	MM	100	75
QUILL FORCE (ADJ)	Kgf	250-2500	100-400
QUILL DIAMETER	MM	110	60
POSITIONING & LOCKING		MANUAL (PROGRAMMABLE)	
<b>TURRET</b>			
TYPE		ELECTROMECHANICAL (HYDRAULIC)(SERVO)	
CENTRE HEIGHT	MM	100	75
NUMBERS OF STATION	NO'S	8(12)	6(8)
MAKE		PRAGATHI (SAUTER)	
TOOL SHANK SIZE: TURNING	MM	25 X 25	20 X 20
: BORING BAR	MM	32 (40)	25
TOOL DISK		BARREL (VDI)	BARREL
<b>CNC</b>			
CNC & SERVO DRIVES / MOTORS	Select your choice	FANUC Oi/MATE /TC/TA/TB SIEMENS 802D BI/840D	SIEMENS 802C (FANUC OiMATE TC/TB SIEMENS 802D)
<b>POWER</b>			
POWER SUPPLY		415V+/-15V AC 3 PH, 50 Hz +/-0.5Hz,	
CONNECTION RATING	kVA	25/37	10/16
<b>AXIS TRAVEL</b>			
DRIVES		AC SEVRO	AC SEVRO
X-AXIS STROKES	MM	400	100
Z-AXIS STROKES	MM	400 (800/1250)	410
X-AXIS GUIDE / BALL SCREW	MM	Hardened and ground / $\Phi$ 32 mm	Hardened and ground/ / $\Phi$ 25 mm
Z-AXIS GUIDE / BALL SCREW	MM	LM profile / F 40mm	LM profile / F 32 mm
X & Y AXIS MOTOR POWER	Nm	11	6
RAPID MOVEMENT	M/min	20(25)	15(25)
POSITIONAL ACCURACY	MM	0.006	0.008 (0.005)
REPEATABILITY	MM	0.004	0.006 (0.003)
<b>TANK CAPACITY</b>			
COOLANT TANK CAPACITY	LTRS	200	70 (200)
PUMP CAPACITY	L/Min	40 @ 2 bar, 1.1Kw (40@7Bar, 2.0kw)	20@2bar,0.7kw (40 @3 bar, 1.1kw)
<b>ENVIRONMENT</b>			
Temperature & humidity	$^{\circ}$ C & %	2-50 $^{\circ}$ C & 0-95%	5-45 $^{\circ}$ C & 5-95%
<b>MACHINE SIZE</b>			
MACHINE WEIGHT (APPROX)	Kgf	5000	1800
MACHINE SIZE L X B X H (APPROX)	MM	4000 X 1500 X	1600 X 1500 X 2000
EXCLUDING CHIP CONVEYOR		1700 (1250 ABC)	

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